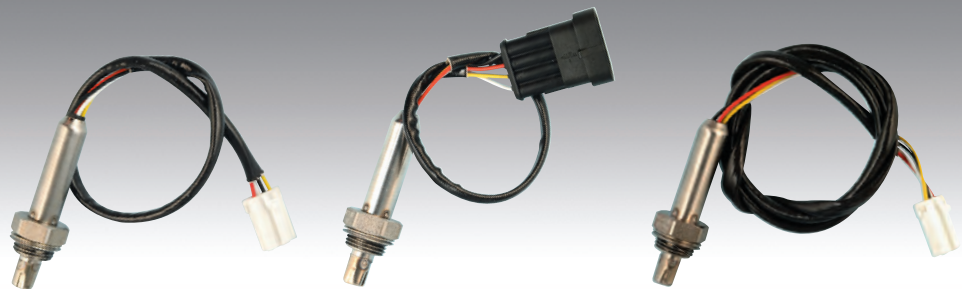




FAE

COX2

**SONDAS LAMBDA
OXYGEN SENSORS
SONDES LAMBDA
LAMBDA-SENSOREN**



www.fae.es



Catálogos / Catalogs / Catalogues



CG5-A



CG5-B



MT20





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INTRODUCCIÓN

Presentamos este nuevo **Catálogo COX 2** que contiene una ampliación de la gama de nuestros productos y se ha podido realizar con la cooperación de nuestros clientes y colaboradores.

F A E considera la calidad como un objetivo prioritario y ello nos obliga a seguir avanzando en este campo, promoviendo la aplicación de los medios más actualizados para el proyecto y fabricación de nuestros productos, como son el diseño asistido por ordenador, la automatización de controles y procesos, los medios para ensayos de fiabilidad, etc., que nos permiten superar con éxito las Auditorías de Calidad de nuestros clientes, llegando a desarrollar conjuntamente productos para sus nuevos vehículos.

Con este Catálogo pretendemos ayudar a nuestros clientes en la rápida identificación de los productos de nuestra fabricación que **reemplazan adaptándose a los equivalentes de origen**.

Debido a las constantes variaciones de los fabricantes de vehículos, no podemos garantizar la completa exactitud de los datos aportados en este Catálogo de **F A E**, sirviendo éste únicamente como guía. Los nombres y referencias de los fabricantes sirven únicamente para ayudar a encontrar más rápidamente nuestros productos.

GARANTIA. **F A E** garantiza todos los productos contra fallos de fabricación. La garantía se limita al cambio del producto defectuoso, no cubriendo la mala aplicación o manipulación del mismo.

NOTAS.

- **F A E no aceptará devoluciones transcurridos seis meses del suministro.**
- **F A E** ante cualquier tipo de litigio se remite a los Tribunales de Barcelona.
- **F A E** se reserva el derecho a modificar las características de sus productos sin previo aviso.
- La información de temperaturas está indicada en grados centígrados.
- La información sobre presiones está dada en bares.



INTRODUCTION

This new **COX 2 Catalog** contains a increase in the range of our products. We have been able to compile it by combining efforts with our clients and co-operators.

Quality is and has always been considered a top priority at **F A E**. We feel compelled to follow that line by using the most advanced methods of production and design on all projects, such as Computer Aided Design (CAD), automated control and production, advanced elements for testing reliability, durability, etc. This allows us to successfully pass our clients' quality standards and even to work together to develop products for their new vehicles.

By means of this new Catalog we intend to enable our clients to quickly identify **our products so that they can be adapted to replace the original ones**.

Since car manufacturers are constantly modifying their vehicles we cannot guarantee the full accuracy of the information given in this Catalogue. It is only intended as a guide to our products. Manufacturer's names and original numbers are quoted for reference purposes only.

GUARANTEE. All **F A E** products are guaranteed against any manufacturing defects. The guarantee is limited to the replacement of the faulty parts. **F A E** does not hold itself responsible for problems which arise from the incorrect use of its products.

NOTES.

- **F A E will not accept any return after six months of delivery.**
- In case of litigation we refer to the Court of Barcelona.
- **F A E** reserves the right to modify the characteristics of its products without prior warning.
- All the information relating to temperature is in degrees centigrade.
- Information referring to pressure is given in bars.



INTRODUCTION

Nous présentons ce nouveau **Catalogue COX 2** qui contient une ampliation des séries de nos produits et qu'a été réalisé grâce à la coopération de nos clients et collaborateurs.

La qualité est l'objectif prioritaire de **F A E** et ceci nous oblige à continuer nos efforts en favorisant l'application et la mise à jour des moyens pour la conception et la fabrication de nos produits, tels que la conception assistée par ordinateur, l'automatisation des contrôles et des processus de production, les moyens pour les essais de fiabilité, etc., qui nous permettent de surmonter avec succès les contrôles de qualité de nos clients, au point de développer ensemble des produits pour leurs nouveaux véhicules.

Ce Catalogue est établi dans le but de faciliter à nos clients l'identification des produits que nous fabriquons et **qui peuvent s'adapter pour remplacer les pièces d'origine**.

Du fait des constantes variations de la part des fabricants de véhicules, nous ne pouvons pas garantir la parfaite exactitude des données fournies par ce Catalogue **F A E** et il ne peut être considéré qu'à titre indicatif. Le noms et numéros des fabricants sont mentionnés seulement pour faciliter la recherche de nos références.

GARANTIE. Tous les produits **F A E** sont garantis contre les défauts de fabrication. La garantie est limitée au remplacement des pièces défectueuses, et **F A E** décline toute responsabilité concernant tout problème dû à l'utilisation incorrecte de ses produits.

REMARQUES.

- **F A E n'acceptera aucune dévolution passés six mois de la date de livraison.**
- En cas de litige nous nous en remettons aux Tribunaux de Barcelone.
- **F A E** se réserve le droit de modifier sans avis les caractéristiques de ses produits.
- Les indications de température sont données en degrés Celsius.
- La pression est indiquée en bars.

Para más aplicaciones consulte también

For further applications see

Pour déterminer les autres affectations veuillez vous référer à





... Units on each vehicle
... From to -> / -> ... Up to
16 Valves
2 Pin
2 wheels drive
24 Valves
4, 5, 6 Speeds
4 Wheel drive
Across flats dimension of Hexagonal
Advise engine over-heating
After the catalytic converter
Air conditioning
Air Sensor
All models
Also for oil temperature
Alternative
Ampere
Antipollution
Antipollution Standards
Automatic
Autoradio
Before the catalytic converter
Before the catalytic converter. Left side
Before the catalytic converter. Right side
Bimetallic temperature contacts
Black colour
Blue colour
Body glow plug length in mm.
Body thread
Box
Brown colour
Bulb Holders
Bus
Carburettor
Case/body ground
Catalytic version
Chassis
Check Control
Colour
Combined circuits
Combustible connection thread
Commercial
Conical
Connection
Connectors
Consultation Guide
Continued
Cooling-water preheater
Convertible
Coupe
Cross references
Cubic centimetres
Cylinders
Cylindrical
Diameter
Dimensions and values
Distributor cap
Distributor OEM ...
Divers switches
Double overhead camshaft
East Europe
Eastern Europe
Electric Injection
Electrical connection diameter
Electrical connection Faston
Electrical connection length in mm.
Electrical connection screw
Electrical connection thread
Electrical scheme
Electrical connection exact fit torque (Nm)
Engine
Engine assembly length in mm.
Engine installation exact fit torque (Nm)

... Piezas en cada vehículo
Desde...-> / ->...Hasta
16 Válvulas
2 Bornes
2 Ruedas motrices
24 Válvulas
4, 5, 6 Marchas
4 Ruedas motrices
Medidas entre caras del exagonal
Indica recalentamiento del motor
Después del catalizador
Aire acondicionado
Sensor aire
Todos los modelos
También para temperatura de aceite
Alternativa
Amperio
Antipolución
Norma antipolución
Automático
Autoradio
Antes del catalizador
Antes del catalizador. Lado izquierdo
Antes del catalizador. Lado derecho
Termocontactos temperatura
Color negro
Color azul
Longitud cuerpo del calentador en mm.
Rosca del cuerpo
Furgón
Color marrón
Portalámparas
Autobús
Carburador
Con masa chasis
Con catalizador
Chasis
Tabla de controles
Color
Circuitos combinados
Rosca del conector de combustible
Comercial
Cónica
Conexión
Conectores
Guía de consulta
Continuación / Sigue
Calentamiento previo del agua refrigerante
Descapotable
Coupé
Cruce de referencias
Centímetros cúbicos
Cilindros
Cilíndrica
Diámetro
Dimensiones y valores
Tapa de distribuidor
Distribuidor OEM ...
Interruptores varios
Doble árbol de levas
Europa del Este
Europa Oriental
Inyección electrónica
Diámetro del conector eléctrico
Conector eléctrico Faston
Longitud del conector eléctrico en mm.
Conector eléctrico tornillo
Rosca del conector eléctrico
Esquema eléctrico
Par de apriete conexión eléctrica (Nm)
Motor
Longitud montaje motor en mm.
Par de apriete montaje en el motor (Nm)

... Pièces par véhicule
... Depuis -> / ->...Jusqu'à
16 Soupapes
2 Bornes
2 roues motrices
24 Soupapes
4, 5, 6 vitesses
Traction 4 Roues
Dimension écrou 6 pans
Il indique rechauffage de le moteur
Après le pot catalytique
Air conditionné / climatisation
Senseur d'air
Tous les modèles
Aussi pour température d'huile
Alternative
Ampère
Antipollution
Norme Antipollution
Automatique
Autoradio
Davant le pot catalytique
Avant le catalyseur. Côté gauche
Avant le catalyseur. Côté droit
Thermocontacts température
Couleur noire
Couleur bleue
Longueur du corp bougie de préchauffage en mm.
Dimension filetage
Camionette
Couleur brune
Douilles
Autobus
Carburateur
Masse au chasis
Avec catalyseur
Chassis
Tableau de contrôle
Couleur
Circuits combinés
Fixation pour connection combustible
Commercial
Conique
Connexion
Connecteurs
Guide à la consultation
Continuation / Suite
Pour préchauffage de l'eau rafraîchissement
Décapotable
Coupé
Tableau des equivalences
Centimètres cube
Cylindres
Cylindrique
Diamètre
Dimensions et valeurs
Tête d'allumeur
Distributeur OEM ...
Interrupteurs divers
Arbre double à cames en tête
Europe de l'Est
L'Europe orientale
Injection électronique
Diamètre par connection électrique
Connexion électrique Faston
Longueur de la connexion électrique en mm.
Connexion électrique vis
Fixation pour connexion électrique
Schema électrique
Couple de serrage connexion électrique (Nm)
Moteur
Longueur montage du moteur en mm.
Couple de serrage pour montage sur moteur (Nm)



Equipment for hot climate
 Estate
 Exhaust Emission control ...
 Examples
 Except
 Exhaust gas recirculation valve
 Export
 Fitted on automatic gear
 Fitted on cylinder head
 Fitted on engine
 Fitted on radiator
 Fitted on the automatic gear
 Fitted on the gear box
 Fitted on the left side
 Fitted on the right side
 Fitted to engine
 Fitted to thermostat
 Flame glow plug lenght in mm.
 Flatbed / Chassis
 For ...
 For automatic gear
 For cars with exhaust gas depurator
 For deletion of air conditioning parts
 For digital diesel electronic
 For exhaust gas recirculation
 For headlamps, Automatic on-off
 For hot climate modifications
 For hot climate package
 For ignition kit electronic ...
 For leaded fuel modifications
 For low level emission
 For vehicles whitout catalytic converter
 Front
 Front exhaust pipe
 Fuel consumption
 Fuse-holders
 Gauges
 Glossary
 Glow plugs
 Glow plugs cooling
 Green colour
 Green plug
 Green ring
 Grey colour
 Hatchback
 Heater
 Heating element diameter
 Heating element length in mm.
 Heating time
 Heating voltage
 High temperature
 Hight efficiency twin cam
 Hot countries
 HP
 Ignition coil
 Index of references
 Index of makers
 Indicator lamps
 Information
 Injection
 Introduction
 Isolated ground
 Kits
 On cat. Intache side
 Larger capacity water radiator
 Leaded fuel
 Left hand drive (L.H.D.)
 Legth
 Lever
 Lodge
 Low Temperature
 Maker
 Manual gear

Equipo para clima cálido
Familiar
Control de emisión de gas de escape
Ejemplos
Excepto
Válvula de circulación del gas de escape
Exportación
Montado en el cambio automático
Montado sobre la culata
Sobre bloque motor
Montado en el radiador
Montado en el cambio automático
Montado sobre el cambio
Montado en el lado izquierdo
Montado en el lado derecho
Montado sobre el motor
Montado sobre el termostato
Longitud total del calentador de llama en mm.
Camión caja / Chasis
Para ...
Para cambio automático
Para coches con purgador de gases de escape
Para aplicaciones sin componentes para A.A.
Para electrónica diesel digital
Para circulación del gas de escape
Para encendido automático de los faros
Para adaptaciones al clima cálido
Equipo para clima cálido
Para kit de encendido electrónico ...
Para modificaciones para gasolina con plomo
Para bajas emisiones
Para vehículos sin catalizador
Frontal
Colector de gas de escape frontal
Consumo de combustible
Porta-fusibles
Indicadores
Glosario
Calentadores
Para refrigerante de bujías precalentamiento
Color verde
Enchufe verde
Anillo verde
Color gris
Fastback
Calentador
Diámetro del elemento calefactor
Longitud del elemento calefactor en mm.
Tiempo de calentamiento
Tensión de calentamiento
Alta temperatura
Doble arbol de levas con prestación elevada
Países cálidos
CV
Bobina de encendido
Índice de referencias
Índice de fabricantes
Luces de control
Información
Inyección
Introducción
Aislado masa
Kits
Lado entrada gases en catalizador
Radiador del agua con capacidad aumentada
Gasolina con plomo
Conducción a la izquierda
Longitudes
Palanca
Alojamiento
Baja temperatura
Fabricante
Cambio de marchas manual

Équipement pour climat chaud
 Break
 Contrôle d'émission des gas d'échappement
 Exemples
 Sauf
 Soupape de recirculation des gas d'echappement
 Export
 Monté sur BV automatique
 Monté sur le bout
 Sur bloc moteur
 Monté dans le radiateur
 Monté sur BV automatique
 Monté en boîte de vitesses
 Monté dans le côté gauche
 Monté dans le côté droit
 Monté sur le moteur
 Monté sur le thermostat
 Longueur totale de la bougie à flamme en mm.
 Camion plate-forme / Châssis
 Pour ...
 Pour BV automatique
 Pour voitures avec purgeur gaz diéchappement
 Pour applications sans pièces pour le A.C.
 Pour électronique diesel digitale
 Pour recirculation des gas d'échappement
 Pour l'allumage automatique des phares
 Pour adaptions au climat chaud
 Equipement pour climat chaud
 Pour kit d'allumage elettronique ...
 Sauf modifications pour essence avec plomb
 Pour basses émissions
 Pour véhicules sans pot catalytique
 Frontale
 Collecteur d'echappement frontale
 Consommation de carburant
 Porte-fusibles
 Indicateurs
 Glossaire
 Bougies de préchauffage
 Rafrâichissement pour bougies de préchauffage
 Couleur Verte
 Fiche verte
 Anneau vert
 Couleur gris
 Fastback
 Rechauffeur
 Diametre élément chauffant
 Longueur élément chauffant en mm.
 Durée de chauffage
 Tension de chauffage
 Haute température
 Double arbre à cames à haute performance
 Pays chauds
 CV
 Bobine d'allumage
 Index des références
 Index des constructeurs
 Lampes témoin
 Informations
 Injection
 Introduction
 Isolé au masse
 Kits
 Côté entrée gaz dans le cat.
 Radiateur de l'eau avec contenance grandie
 Essence avec plomb
 Conduire à gauche
 Longueurs
 Levier
 Logement
 Température basse
 Constructeur
 Boite vitesse manuelle



Mechanical petrol pump
Model
Assembled in the exit of water pipe
MPV
Multi-point Injection
New series
Normally closed
Normally open
Not available
Nr of wires
Nut
Off road
Oil pressure switches and transmitters
On brake pedal
On Cat. Intache side
On Eng. Outlet side
On head cylinder Without air conditioning
Only
Only with the cooling ...
On the exhaust manifold
Optional
Outside lenght in mm.
Pannel switches
Parking and/or neutral
Petrol.
Pick-up
Power Brake
Press buttons
Protection against fuel with lead
Radio set
Rear
Rear exhaust pipe
Red colour
Red ring
Relay, preheating time
Replaces
Reversing light switches
Revolution and timing sensors
Right hand drive (R.H.D.)
Saloon
See
See also
Sensor
Sensor For automatic gear
Single-point Injection
Specific Oxygen Sensors
Speed control Inhibitor
Speed control switch
Speeds
Station Wagon
Stop light switches
Suitable
Supressor cables
Symbols
Technical Information
Temperature transmitters, sensors
Terminals
Thread
Thread and connector
Thread and lodge
Titania
Traction control system
Tractor
Truck
Two functions
Two speeds fan
Type
Universal oxygen sensors
Unleaded fuel
V-6 Cylinders
Van
Variable resistance
Various

Bomba mecánica de gasolina
Modelos
Montado en la boca de salida del agua
Monovolúmen / Limusina
Inyección Multipunto
Nuevas series
Normalmente cerrado
Normalmente abierto
No disponible
Número de cables
Interior
Todo terreno
Manocontactos y transmisores de aceite
En el pedal de freno
Lado entrada gases en el Cat.
Lado emisión gases del motor
Sobre culata sin climatizador
Solo
Sólo con el refrigerante ...
En el colector de escape
Opcional
Longitud exterior en mm.
Interruptores tablero
Posición de aparcamiento y/o neutral
Gasolina
Camioneta
Servo Freno
Pulsadores
Potección contra gasolina con plomo
Aparato de radio
Trasera
Colector de gas de escape posterior
Color rojo
Aro rojo
Relay, tiempo de precalentamiento
Reemplaza
Interruptores de luz marcha atrás
Captadores de impulsos
Conducción a la derecha
Sedan
Ver
Ver también
Sensor
Sensor para cambio automático
Inyección Monopunto
Sondas Lambda específicas
Inhibidor del control de velocidad
Interruptor de control velocidad
Velocidades
Familiar / Ranchera
Interruptores luz stop
Reemplaza
Cables antiparasitarios
Símbolos
Información técnica
Termo-resistencias, termo contactos, sensores
Terminales
Fijación
Fijación y conector
Fijación y rosca
Titania
Sistema de control de tracción
Tractor
Camión
Dos funciones
Ventilador de dos velocidades
Tip
Sondas Lambda universales
Gasolina sin plomo
6 Cilindros en V
Furgoneta
Resistencia variable
Varios

Bombe mécanique d'essence
Modèles
Monté dans la bouche de sortie de l'eau
Monospace
Injection Multipoint
Nouvelles séries
Normalement fermé
Normalement ouvert
Non disponible
N° de câbles
Interieur
Tout terrain
Manocontacts et transm. pression d'huile
Dans la pédale de frein
Côté entrée gaz dans le Cat.
Côté emission gaz du moteur
Sobre Culata Sans climatisation
Seulement
Seulement avec le rafraîchissement ...
Sur le collecteur d'échappemenet
Optionel
Longeur extérieur en mm.
Interrupteurs tableau
Position de statinnement et/ou neutre
Essence
Canionette
Servo freins
Poussoirs
Potection contre essence avec plomb
Poste radio
En arrière
Collecteur d'échappement postérieur
Couleur rouge
Anneau rouge
Relais, temps de préchauffage
Remplace
Contacteurs de phare de recul
Capturs du regime et des positions
Conduction à droite
À trois volumes
Voir
Voir aussi
Sensor
Sensor pour changement automatique
Injection Monopoinr
Sondes Lambda spécifiques
Inhibiteur du contrôle de vitesse
Commutateur de contrôle de vitesse
Vitesses
Break
Contacteursde feu stop
Remplace
Fils de bougie antiparasitaires
Symboles
Information technique
Thermistances, thermocontacts, senseurs
Bornes
Fixation
Fixation et connecteur
Fixation et filet
Titane
Système de contrôle de traction
Tracteur
Camion
Deux fonctionnes
Ventilateur de deux vitesses
Typ
Sondes Lambda universelles
Essence sans plomb
6 Cylindres en V
Fourgonettes
Resistance variable
Divers



Various engines
Various models
Vehicle applications
Violet colour
Violet ring
Volts
Water proof type
White colour
Whitout air Conditioning
Wire
With
With air conditioning
With automatic gear
With catalytic converter
With check control
With cruise control
With electronic carburettor
With electronic key
With manual gear
With power brake
With power steering
With radio control on steering wheel
With revolution counter
With rodent protection
With screen
With special equipment
With tachometer
With trailer equipment
Without
Without air conditioning
Without cables
Without catalytic converter
Without check control
Without connexion cable
Without cruise control
Without oil cooler
Without power brake
Without radio control on steering wheel
Without rodent protection
Without screen
Without speed gear shift indicator
Wrench
Year
Yellow colour
Yellow ring
Zirconia

Diversos motores
Diversos modelos
Aplicaciones por vehículos
Color violeta
Anillo violeta
Voltios
Resistencia al agua
Color blanco
Sin climatizador
Cable
Con
Con aire acondicionado
Cambio automático
Con catalizador
Con tabla de controles
Con mando automático de velocidad viaje
Con carburador electrónico
Con llave electrónica
Con cambio de marchas manual
Con servo freno
Con servo-dirección
Con mandos radio en el volante
Con cuenta-revolución
Con protección anti-roedores
Con cobertura
Con equipo especial
Con cuenta revoluciones
Con enganche de remolque
Sin
Sin climatizador
Sin cables
Sin catalizador
Sin tabla de controles
Sin conexión cable
Sin control velocidad de viaje
Sin radiador de aceite
Sin servo freno
Sin mandos, radio en el volante
Sin protección anti-roedores
Sin cobertura
Sin indicador de cambio de marcha
Llave
Año
Color amarillo
Aro amarillo
Circonio

Divers moteurs
Divers modèles
Application pour véhicules
Couleur violette
Anneau violet
Volts
Résistante à l'eau
Couleur blanche
Sans climatisation
Fil
Avec
Avec climatisation
Avec boîte vitesse automatique
Avec catalyseur
Avec table de commandes
Avec contrôle automatique de vitesse de voyage
Avec carburateur électronique
Avec clef électronique
avec changement de vitesses manuel
Avec dispositif d'assistance de freins
Avec direction assistée
Avec des commandes d'émettre dans le volant
Avec compte révolution
Avec protection antirongeurs
Avec couverture
Avec équipement spéciale
Avec compte-tours
Avec accroc de remorquage
Sans
Sans climatisation
Sans câbles
Sans pot catalytique
Sans table de commandes
Sans connexion câble
Sans contrôle de vitesse de voyage
Sans radiateur d'huile
Sans servo frein
Sans commande de la radio sur le volant
Sans protection antirongeurs
Sans couverture
Sans indicateur changement de vitesse
Clé
Ané
Couleur jaune
Anneau jaune
Zirconium



INFORMACIÓN TÉCNICA

SONDAS LAMBDA DE FAE

FAE fabrica Sondas Lambda de respuesta abrupta de circonia y de titania y sondas de respuesta proporcional. Estas sondas no son reemplazables entre sí pues trabajan de forma distinta. Estos tres tipos de sondas se basan en la más moderna tecnología, la tecnología Cerámica Multicapa Planar, que las distingue de las sondas convencionales.

Las Sondas Lambda Planas de FAE poseen los mismos componentes que la sonda convencional o de tipo “dedal” o “thimble”. Gracias a la tecnología Cerámica Multicapa Planar de FAE se han conseguido integrar en un único sólido tanto el elemento sensor como su calefactor y reducir su tamaño respecto a las sondas lambda convencionales. Estas mejoras nos permiten reducir la potencia de calefacción y el tiempo necesario para alcanzar la temperatura operativa (700°C).

Tanto la aplicación de legislaciones cada vez más restrictivas de las emisiones, como nuevas estrategias de gestión del motor, motores de mezcla pobre, de inyección directa, etc, han evidenciado algunas de las limitaciones de las sondas convencionales. Para alcanzar límites de emisiones más reducidos se necesitan sondas inicialmente de respuesta “ultra rápida”, y así evitar la contaminación en el instante de arranque del motor, y sondas con respuesta proporcional a Lambda que permita trabajar lejos del punto estequiométrico ($\text{Lambda} = 1$) o sondas que detecten concentraciones de NO_x o HC. Estas mejoras se han conseguido con la aplicación de la tecnología Cerámica Multicapa Planar que FAE aplica para la fabricación de sus sondas Planas.

El tiempo de encendido o “Light-off”: Es el tiempo que tarda en calentarse la sonda lambda para poder informar a la ECU de la composición de los gases de escape.

Con el uso de una Sonda Lambda en perfecto estado, nos aseguraremos de tener:

- Menos contaminación.
- Mejor funcionamiento y rendimiento del motor.
- Un consumo de combustible menor. (Las sondas en mal estado pueden causar hasta un 15% de incremento del consumo).
- No dañar el catalizador.

Revise el correcto funcionamiento de la sonda al menos cada 30.000 km.

FUNCIÓN DE LA SONDA LAMBDA

Hoy en día el control de las emisiones contaminantes es un problema de primer orden y, de estas emisiones, las derivadas de los automóviles son un parte muy importante. Una sociedad cada vez más sensibilizada con la contaminación ha sido el motor para la aparición de legislaciones, tanto Europeas como Americanas y de otros países, cada vez más restrictivas en esta materia, como muestra la Figura 1. El sector del automóvil ha ido evolucionando sus estrategias para reducir la contaminación de los vehículos y cumplir con la legislación a la vez que la tecnología ha ido mejorando la eficiencia de los motores y la instalación de elementos que paulatinamente han ido reduciendo las emisiones contaminantes. El catalizador de tres vías es el catalizador de uso más extendido y se monta en todos los vehículos de gasolina desde el 1992 en Europa. La característica más relevante de este catalizador es la posibilidad de oxidar el CO y los hidrocarburos no combustiónados y de reducir los NO_x simultáneamente. La mayor eficacia de este catalizador para las tres reacciones es para una relación concreta de gasolina-aire, este valor es Lambda igual a 1. Mediante la señal de la sonda lambda la unidad de control reconoce la composición de la mezcla. La sonda lambda controla el ratio de la mezcla de combustión-aire y asegurar que el motor trabaja en la mezcla óptima, Lambda 1. En mezclas con exceso de combustible o ricas, $\text{lambda} < 1$, se reduce la inyección de combustible, mientras que mezclas con defecto o pobres, $\text{lambda} > 1$, la cantidad de combustible inyectada se aumenta hasta alcanzar el óptimo.

Todos los vehículos con catalizador llevan al menos una sonda lambda, la sonda de regulación cuya función hemos descrito. Esta sonda va situada antes del catalizador. Sin embargo, los vehículos que aplican el OBD-II (on-board diagnostic), la segunda versión del estándar de diagnóstico, equipan una segunda sonda, sonda de diagnóstico, ubicada en la parte posterior del catalizador. Su función, es informar del correcto funcionamiento de la sonda de regulación, corrigiendo cualquier desvío, o del catalizador, avisando en el momento que éste se encuentra agotado y ha de ser sustituido.

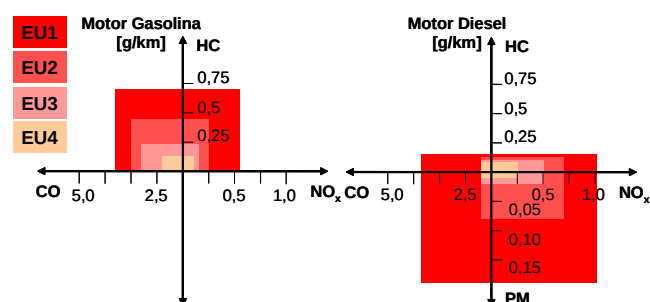


Figura 1. Legislación en emisiones.

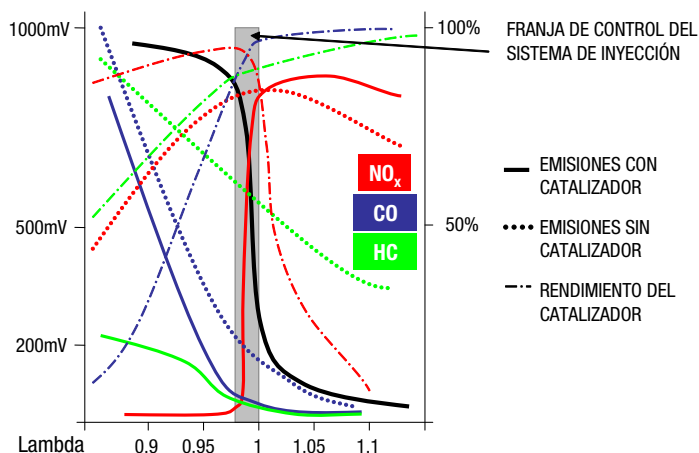
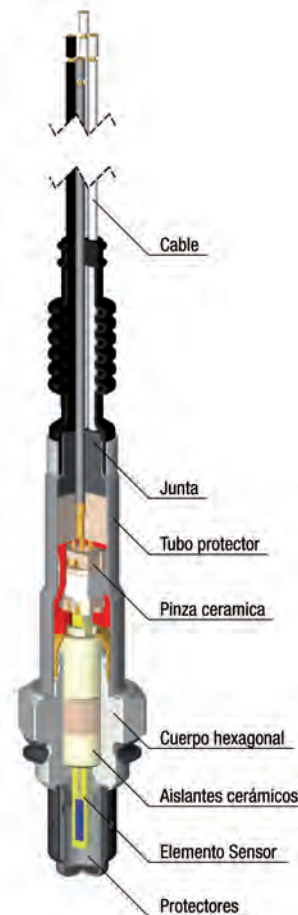


Figura 2. Funcionamiento motor



INFORMACIÓN TÉCNICA

TIPOS DE SONDAS LAMBDA

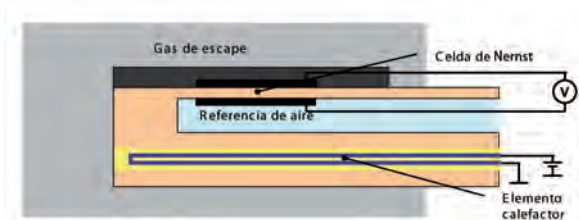
Existen varios tipos de Sondas Lambda, que podemos clasificar en función del material sensitivo en Sondas de Circona y sonda de Titanio.

- Como funcionan las Sondas Lambda con elemento sensor de CIRCONIA:

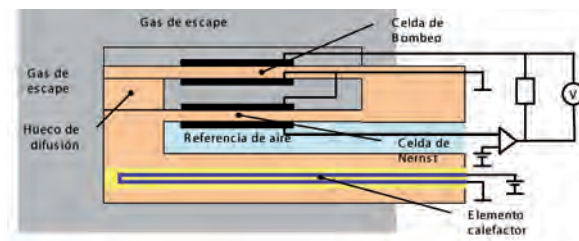
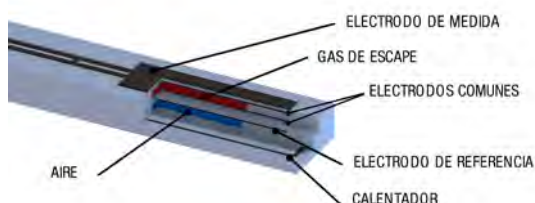
Las sondas de circona están basadas en Dióxido de Circonio y funcionan por comparación de dos atmósferas, los gases de escape por un lado y el aire exterior por el otro. La diferencia de concentración de oxígeno entre los dos gases, genera una tensión en el sensor. Las mezclas ricas en combustible producen una tensión alta y las mezclas pobres producen una tensión baja, una respuesta on-off o 0-1 fácil de interpretar por la electrónica. El material sensor es activo y capaz de producir una tensión siempre que se encuentre a una temperatura superior a 300° C. Existen diferentes evoluciones de este tipo de sonda, que son:
 Sondas convencionales no calefactadas: Estas sondas fueron las primeras en equiparse en los vehículos. Alcanzan la temperatura de trabajo (>350°C) gracias al calor de los gases de escape. Es por eso que van ubicadas junto al motor. El tiempo de encendido o "Light-off" es superior a 2 minutos. El intervalo de cambio está entorno a los 50.000-80.000km.

Sondas convencionales calefactadas: Estas sondas ya incorporan un elemento calefactor que las permite alcanzar la temperatura de trabajo con independencia de los gases de escape, sin embargo necesitan de al menos 45 segundos. Pueden ser de tres o cuatro cables con la carcasa aislada o no de masa en función de la aplicación. El intervalo de cambio es de 100.000-160.000km.

Sondas planas: Poseen el elemento calefactor integrado en el componente sensor, reduciendo su tamaño y consiguiendo alcanzar las temperatura de trabajo en unos 10 segundos. Consiguen reducir a la mitad las emisiones de la fase crítica de arranque en frío. El intervalo de cambio es cada 160.000 km.



Sondas planas de banda ancha: A diferencia de las otras sondas, éstas poseen dos celdas de medición como la descrita y 5 cables. Miden con gran exactitud la composición lo que las hace aptas también para motores diesel y de gas. Esto es porque la respuesta del sensor es proporcional al valor lambda que mide. Estas sondas llevan un elemento de calibración de la respuesta en el conector por lo que no debe, en ningún caso, reemplazar una sonda por otra cortando los cables. El intervalo de cambio es cada 160.000km.



- Como funcionan las Sondas Lambda con elemento sensor de TITANIO:

Esta sonda está constituida, básicamente, por un elemento cerámico de Dióxido de Titanio. A diferencia de las sondas basadas en Dióxido de Circonio, no generan ninguna tensión, y el material sensor se encuentra sumergido en los gases de escape, sin necesitar aire exterior. Este material a alta temperatura, es sensible a la variación de la concentración de oxígeno en los gases de escape. Las Sondas Lambda de Titanio siempre van calefactadas. Con la variación de oxígeno, varía la resistencia eléctrica del material sensor; para una mezcla rica la resistencia baja a valores mínimos y para una mezcla pobre sube a valores máximos. La ECU alimenta la sonda con una tensión fija y lee la respuesta de la sonda a través de un circuito divisor de tensión.

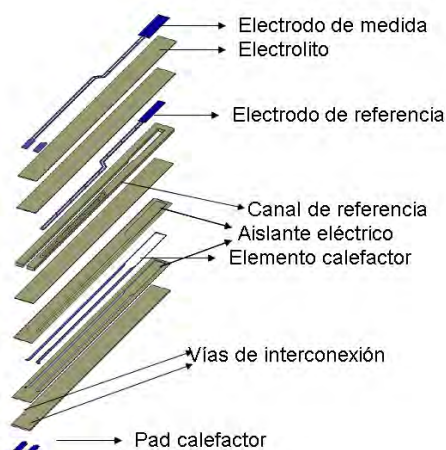
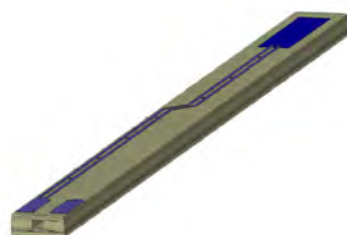


Figura 3. Estructura constructiva sensor plano según tecnología cerámica multicapa



INFORMACIÓN TÉCNICA

MONTAJE DE LAS NUEVAS SONDAS LAMBDA

La instalación de las Sondas Lambda FAE resulta muy sencilla y rápida. Recuerde que para realizar esta operación, o bien espere a que el motor este completamente frío o bien tome precauciones, ya que las Sondas Lambda alcanzan elevadas temperaturas y corre el riesgo de sufrir quemaduras. La instalación requiere el impregnado de la rosca con grasa especial. Esta grasa facilitará el desmontaje e impedirá que la sonda quede soldada al tubo de escape debido a las condiciones extremas de trabajo. Las sondas FAE ya incorporan esta grasa distribuida por la rosca listas para su montaje, no obstante es conveniente asegurarse.

El apriete la Sonda es otro aspecto importante, hágalo siguiendo las siguientes directrices, excederse en el apriete puede deformar la rosca.

- Sonda M18: Monte la Sonda manualmente, hasta el final, para apretar después, con la llave adecuada. Apretar 1/2 - 3/4 de vuelta (35-45Nm).
- Sonda M12: Monte la Sonda manualmente, hasta el final, para apretar después, con la llave adecuada. Apretar 1/2 - 1 de vuelta (18-23Nm).

¿Cómo se instala una Sonda Lambda Universal?:

Esta recomendado que después de una colisión importante revisen las sondas o las sustituyan.

Para instalar la Sonda Lambda Universal FAE debe seguir los siguientes pasos:

- Antes de instalar la Sonda Lambda, asegúrese de que está utilizando la referencia apropiada para su vehículo.
- No instale la Sonda Lambda si se ha golpeado.
- 1- Desconecte la batería. Desconecte el conector de la Sonda Lambda que quiere sustituir (la que esta situada en el vehículo).
- 2- Desmonte la Sonda Lambda del vehículo. Asegurándose de dejar suficiente cable para realizar el empalme posteriormente corte los cables de la Sonda retirada, separando así el conector del resto de la Sonda, asegurándose de dejar suficiente cable para realizar el empalme posteriormente.
- 3- Quite el aislante, según la longitud indicada y procurando no dañar el núcleo metálico del cable.
- 4- Introduzca los cables pelados del conector, dentro de los casquillos que monta la nueva Sonda Lambda FAE, prestando atención en respetar los colores de los cables.
- 5- Aplaste los casquillos. Aplique calor sobre la funda Termo-retráctil que lleva el casquillo, para conseguir que la unión realizada entre el conector recuperado y la sonda nueva, quede correctamente fijada y estanca.
- 6- Una vez terminado el proceso anteriormente descrito, usted ya puede instalar la Sonda Lambda FAE en su vehículo.

Las sondas de banda ancha (5 cables) no pueden instalarse como universales, el conector incorpora un elemento de calibración de la señal sin el cual la respuesta no es la adecuada.

¿Cómo se instala una Sonda Lambda Específica?:

- Antes de instalar la Sonda Lambda, asegúrese de que está utilizando la referencia apropiada para su vehículo.
- No instale la Sonda Lambda si se ha golpeado.
- Desconecte la batería.
- Retire la Sonda Lambda antigua.
- Sitúe en primer lugar la sonda en su emplazamiento, asegurándose de que el cable no queda torcido, doblado o atrapado.
- Apriete la Sonda siguiendo las siguientes directrices:
- Sonda M18: Monte la Sonda manualmente, hasta el final, para apretar después, con la llave adecuada. Apretar 1/2 - 3/4 de vuelta (35-45Nm).
- Sonda M12: Monte la Sonda manualmente, hasta el final, para apretar después, con la llave adecuada. Apretar 1/2 - 1 de vuelta (18-23Nm).
- Conecte y aloje el cable, tal y como estaba instalado originalmente, teniendo especial cuidado en asegurarse de que el cable no quede situado sobre el colector de escape u otro componente caliente del motor.

¿Cómo se prueban las Sondas Lambda?:

Para verificar el correcto funcionamiento de una Sonda Lambda, sin desmontarla de nuestro vehículo, necesitamos disponer de un osciloscopio.

Teniendo en cuenta que el motor debe encontrarse ajustado dentro de las indicaciones del fabricante, se procede al calentamiento del motor.

Conecte, mediante el sistema de conexión adecuado y específico, la salida del sensor a la entrada del osciloscopio, siempre sin desconectar la Sonda Lambda de la ECU del coche.

Una vez realizada estas conexiones, mantenga el motor a unas 2.000 rpm.

En estas condiciones, si la Sonda Lambda funciona correctamente, la señal que nos mostrará el osciloscopio, variará rápida y constantemente entre 0,2 voltios (mezcla pobre) y 0,8 voltios (mezcla rica).

Otro dato muy importante y que es necesario tener en cuenta es el tiempo empleado en variar de una tensión a otra, que debe ser de unos 300 milisegundos.

El tiempo transcurrido en pasar de mezcla pobre a rica y en pasar de mezcla rica a pobre debe ser el mismo o muy similar.

Si la señal generada por el sensor es constante o el tiempo de reacción al cambio de riqueza en la mezcla, es demasiado lento, debe sustituirse la Sonda Lambda.

Es aconsejable revisar el funcionamiento de la Sonda Lambda cada vez que se realice un reglaje del motor y siempre antes de las pruebas de emisiones.

Recordemos que un funcionamiento lento de la Sonda Lambda, afecta directamente al consumo de nuestro vehículo, por lo que, el coste producido por la sustitución de la Sonda Lambda, se verá rápidamente amortizado.



TECHNICAL INFORMATION

FAE OXYGEN SENSORS

FAE produces oxygen sensors made of zirconia with abrupt or linear responses, and titania oxygen sensors with an abrupt response. These three types of sensors are not replaceable each other, because they work differently. These sensors are based on the most modern technology, the ceramic multilayer technology, which distinguishes them from the conventional ones.

The Planar FAE Oxygen Sensors have the same components as the conventional "thimble type" sensors. Thanks to the FAE's ceramic multilayer technology, it has been possible to integrate the sensor and the heater in a unique solid piece, reducing its size in comparison to the conventional Oxygen Sensors. These improvements allow FAE sensors to reduce the heating power and the necessary time to reach the operative temperature (700°C, 1292°F).

The existence of increasingly tougher emission legislations, such as the new strategies of the engine management, lean mixture engines, direct injection engines, etc; have shown some of the conventional oxygen sensors limitations. In order to reach the lowest emission limits, ultra fast started operating oxygen sensors are needed for avoiding the pollution in the instant of engine started; and sensors with a Lambda linear response, which allows to work far from the stoichiometric point ($\text{Lambda} = 1$), or sensors to detect NOx or hydrocarbon concentrations. These improvements have been reached with the ceramic multilayer technology application used by FAE for its Planar sensors manufacturing.

The ignition time or "Light-off". It is the time needed by the oxygen sensor to warm up and being able to inform the ECU (Electronic Control Unit) about the exhaust gases composition.

Using a good condition Oxygen Sensor will ensure:

- Lower emissions
- Improving engine efficiency and performance
- Lower fuel consumption. A malfunctioning Oxygen Sensor can increase 15% the consumption.
- Not damaging the Catalytic Converter

Check the correct Oxygen Sensor performance at least every 30.000 km.

OXYGEN SENSOR FUNCTION

Nowadays exhaust gas emission control, and specifically the ones derivated from automotive, is a main concern. A more concerned society has promoted more and more restrictive legislations in Europe and America on pollution control, as shown in Figure 1.

The automotive sector has been changing its strategies to reduce emissions and fulfil regulations. Technology has improved the engines efficiency and favoured the installation of elements for reducing the exhaust emissions.

The 3-way Catalytic Converter is the most extensively used and has been assembled in all the petrol vehicles since 1992 in Europe. Its most relevant characteristics are the possibility of oxidizing CO and non-burnt hydrocarbons, as well as reducing NOx. The major efficiency of this Catalytic Converter for these mixed reactions is a concrete ratio of fuel - air corresponding to a Lambda (combustion parameter) equal to 1.

Through the Oxygen Sensor signal, the control unit recognizes the mixture composition. The Oxygen Sensor controls the mixture ratio of fuel-air and ensures that the engine works at the optimum mixture, Lambda 1. In mixtures with fuel excess or rich mixtures, $\text{Lambda} < 1$, the fuel injection decreases, whereas with oxygen excess or lean mixtures, $\text{lambda} > 1$, the injected fuel quantity is increased reaching the optimum.

All vehicles with Catalytic Converter have at least one Oxygen Sensor, the regulation Oxygen Sensor whose function has been already described. This Oxygen Sensor is placed before the Catalytic Converter. Nevertheless, vehicles applying the OBD-II (on-board diagnostic), the second version of the diagnosis standard, equip a second Oxygen Sensor, a diagnosis sensor, located in the near part of the Catalytic Converter. Its function is to report the correct working of the regulation sensor and the Catalytic Converter, warning when these elements shall be replaced.

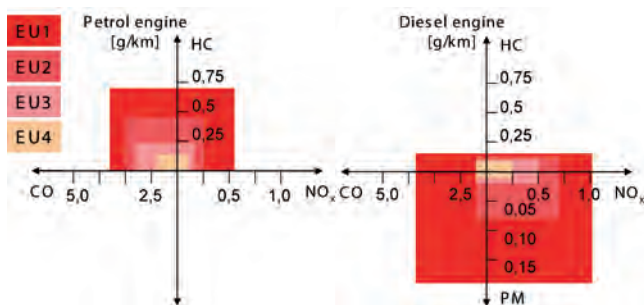
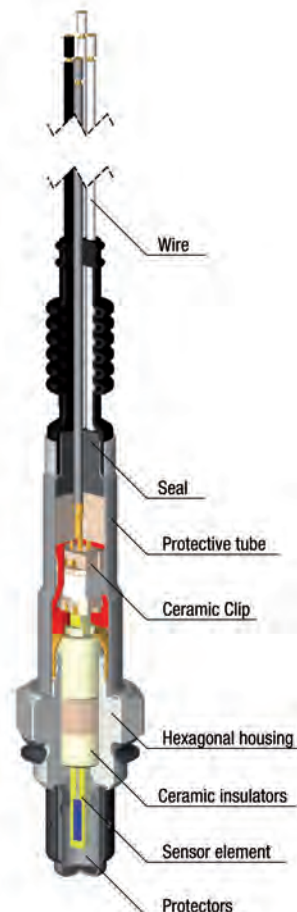
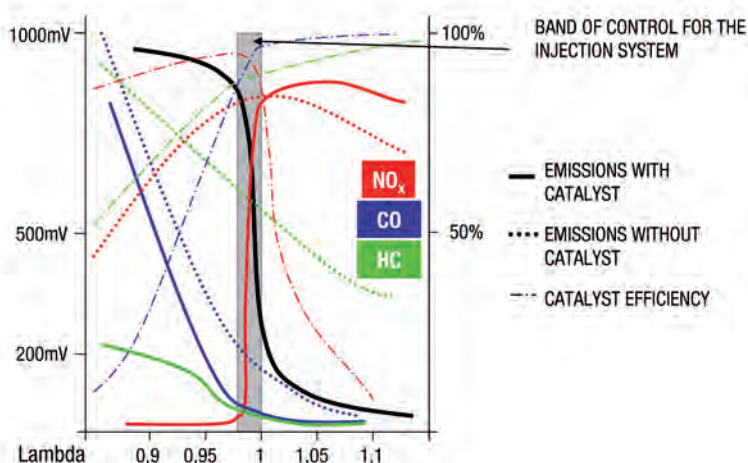


Figure 1. Emission regulations





TECHNICAL INFORMATION

TYPES OF OXYGEN SENSORS

There are different types of Oxygen Sensors. They can be classified depending on the sensitive material in Zirconia sensors and Titania sensors.

- How does the Oxygen Sensor with the Zirconium ceramic body work?

The sensors made of Zirconium Dioxide work by comparing two atmospheres, the exhaust gas in one side and the outside air in the other. The difference in the concentration of oxygen between the two gases generates a voltage in the sensor.

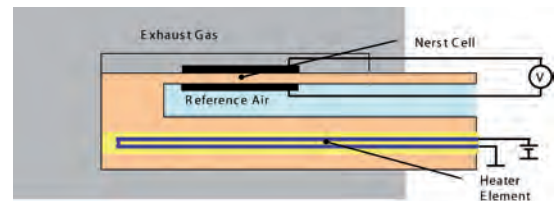
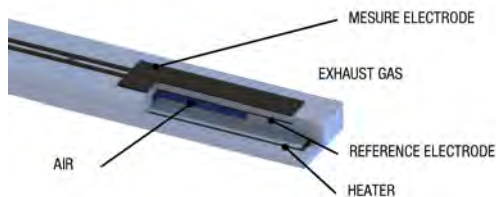
Rich mixtures produce a high voltage, whereas lean mixtures produce a low voltage, providing a electrical response similar to on-off or 0-1, easy to understand by the electronic. The sensor is active and capable of producing a voltage as long as it is warmed a temperature higher than 300°C (572 °F).

There are different evolutions of this Oxygen Sensor type:

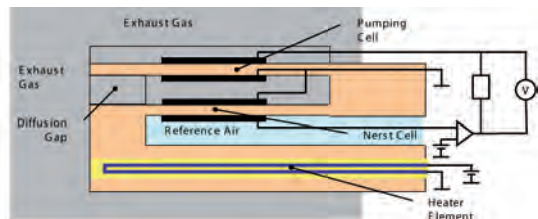
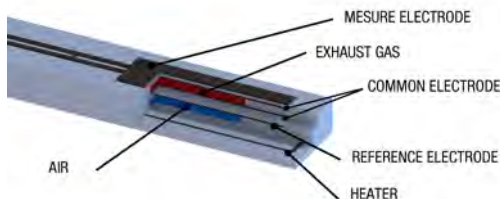
Conventional unheated Oxygen Sensors. These were the first ones equipped in the vehicles. They reach the working temperature ($> 350^{\circ}\text{C}$ $> 662^{\circ}\text{F}$) when they are exposed to exhaust gases at high temperature. For this reason, they are located close to the engine. The ignition time or Light-off is higher than 2 minutes. The lifetime is about 50.000 to 80.000km (30,000 to 50,000 miles).

Conventional heated Sensors. These sensors incorporate a heating element allowing them to reach the working temperature with independence of the temperature of the exhaust gases; nevertheless they need at least 45 seconds for the light off time. Their electric connection can consist in three or four wires depending on the application. Their lifetime is about 100.000 to 160.000 km (62,000 to 100,000 miles).

Planar Oxygen Sensors. They carry the heating element integrated in the component sensor, reducing its size and reaching the working temperature in approximately 10 seconds. They manage to reduce by emissions on the most critical phase, engine coldstart. The lifetime is about 160.000 km (100,000 miles).



Planar Wideband Oxygen Sensors: Unlike other Oxygen Sensors, these consist in two planar measurement cells as the previously described, and 5 connection wires. They measure with great accuracy the exhaust gas composition. This makes them suitable for gas and diesel engines. This is due to a linear response in front of the measured lambda combustion parameter, instead of a binary response like in the previous cases. In the connector of this type of oxygen sensors there is a calibration component. For this reason, an Planar Wideband Oxygen Sensor should not be replaced by other by cutting the wires in any case, as the calibration might be different. The lifetime is about 160.000km (100,000 miles).



How does the Oxygen Sensor with the Titanium ceramic body work?

This sensor is made up basically of a Titanium Dioxide ceramic body. Unlike the Oxygen Sensors made of Zirconium Dioxide, the sensor is located in various points along the exhaust system and do not require exposure to exterior air for proper operation and it will not generate any voltage. The Titanium Oxygen Sensors are always heated, i.e. there is no unheated version of this sensor. At high temperatures, the resistance of Titanium Dioxide is sensitive to the variations in the oxygen concentration of the exhaust gases. When exposed to a rich mixture, resistance decreases to minimum values and with a lean mixture, the resistance increases to maximum levels. The ECU feeds the oxygen sensor with an external voltage across the resistive titanium and reads back the return voltage.

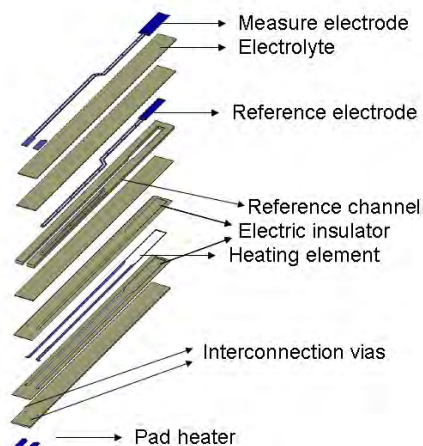
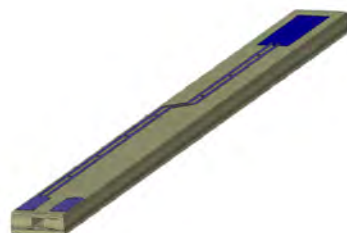


Figure 3. Building architecture of flat sensors with multilayer ceramic technology.



TECHNICAL INFORMATION

THE INSTALLATION OF NEW OXYGEN SENSORS

The installation of FAE Universal Oxygen Sensors is quick and easy.

Remember that the engine must be cold or you must take the necessary precautions since the Oxygen Sensor reaches very high temperatures and you might run the risk of burns.

The installation requires the thread impregnation with special grease. This grease will facilitate the disassembly and will prevent the Oxygen Sensor from remaining welded to the exhaust pipe due to the extreme work conditions. FAE Oxygen Sensors already include this grease in the thread for you. Nevertheless it would be convenient to check it.

The Oxygen Sensor tighten is another important aspect. Note the following directives and be aware that a tighten excess can deform the thread:

- For Oxygen Sensors with a M18 thread, tighten to 35-45 Nm (25-33 ft lb)
- For Oxygen Sensors with a M12 thread, tighten to 18-23 Nm (13- 7 ft lb).

Follow these steps to install the FAE Universal Oxygen Sensor:

1. Disconnect the battery. Disconnect the old Oxygen Sensor lead wire connector. Remove the old Oxygen Sensor from the vehicle.
2. Cut the lead wire(s) approximately 15 cm (6 inches) on the old Oxygen Sensor separating the connector from the rest of the sensor.
3. Strip the insulation (according to the indicated length) from the old lead wire(s) with the attached connector, making sure that no damage is done to the inner wire.
4. Insert the stripped wire leads into the caps of the new FAE Oxygen Sensor. Be aware of matching the colours of the wires.
5. Crush the caps. Heat the heat shrink tube until it shrinks form a tight, fixed seal between the old connector and the new sensor.
6. Once the process described above is complete, you are ready to install the new FAE Oxygen Sensor.

The Wideband Oxygen Sensors (5 wires) can not be installed like the Universal ones, given that the connector incorporates a signal calibration element. Without this element, the response will not be the suitable one.



INFORMATION TECHNIQUE

SONDES LAMBDA FAE

FAE fabrique des Sondes Lambda faites de zirconium de réponse abrupte ou proportionnelle, et sondes de titane de réponse abrupte. Ces trois types des sondes ne sont pas remplaçables, par elles-mêmes, puisqu'elles travaillent de façon différente. Ces sondes sont basées sur la plus moderne technologie, la technologie céramique multicouche qui les distingue des sondes conventionnelles.

Les Sondes Lambda Planaires de FAE ont les mêmes composants que les sonde conventionnelles ou de type "thimble" (dé à coudre). Grâce à la technologie céramique multicouche de FAE on a réussi à intégrer dans une seule pièce solide l'élément capteur et son radiateur, réduisant en plus sa taille par rapport aux sondes lambda conventionnelles. Ces améliorations permettent aux sondes FAE réduire la puissance de caléfaction et le temps nécessaire pour arriver à la température opérationnelle (700°C).

L'existence des législations de plus en plus sévères sur les émissions, et les nouvelles stratégies de la gestion du moteur, des moteurs à mélange pauvre, d'injection directe, etc ; ont mis en évidence certaines limitations des sondes conventionnelles.

Afin de limiter les émissions au maximum on a besoin des sondes à réponse ultra rapide, et ainsi éviter la contamination dans l'instant de démarrage du moteur, et des sondes avec une réponse linéaire Lambda qui permettent travailler loin du point stœchiométrique ($\text{Lambda} = 1$), ou sondes qui détectent des concentrations de NO_x ou d'hydrocarbure. Ces améliorations se sont obtenues avec l'application de la technologie céramique multicouche que FAE applique pour la fabrication de ses sondes Planaires.

Le temps d'allumage ou "Light-off": c'est le temps qui met à se chauffer la Sonde Lambda pour pouvoir informer l'ECU (unité de contrôle électronique qui gère le fonctionnement du moteur) de la composition des gaz d'échappement. L'utilisation d'une Sonde Lambda en parfait état nous assure:

- une réduction de la pollution
- un meilleur fonctionnement et rendement du moteur
- une consommation réduite de carburant. Les sondes en mauvais peuvent augmenter jusqu'à un 15 % la consommation.
- Ne pas abîmer le catalyseur.

Veuillez réviser le fonctionnement correct de la sonde au moins chaque 30.000 kms

FUNCTION DE LA SONDE LAMBDA

De nos jours le contrôle des émissions polluantes c'est un problème de premier ordre, et de ces émissions, celles dérivées des automobiles spécialement.

Une société sensibilisée avec la contamination a favorisé l'apparition de législations de plus en plus restrictives, tant Européennes comme Américaines, comme montre la Figure 1.

Le secteur de l'automobile a évolué ses stratégies pour réduire les émissions et accomplir la législation, à la fois que la technologie a amélioré l'efficacité des moteurs et l'installation d'éléments qui réduisent les émissions polluantes.

Le catalyseur à trois voies c'est celle d'usage plus répandu et il est installé à tous les véhicules d'essence depuis 1992 en Europe. La caractéristique la plus remarquable du catalyseur c'est l'oxydation du CO et des hydrocarbures non combustionnés ainsi que la réduction des NO_x . La plus grande efficacité du catalyseur pour ces trois réactions est le ratio d'essence - air, correspondant à la valeur Lambda (paramètre de combustion) égal à 1.

À travers du signal de la sonde lambda, l'unité de contrôle reconnaît la composition du mélange. La sonde lambda contrôle le ratio du mélange d'essence- air en assurant que le moteur travaille avec le mélange optimal, Lambda 1. Dans mélanges avec excès de combustible ou riches, $\text{lambda} < 1$, se réduise l'injection du combustible, alors que dans mélanges en défaut ou faibles, $\text{lambda} > 1$, la quantité injectée de combustible augmente jusqu'à obtenir l'optimale.

Tous les véhicules avec catalyseur ont au moins une sonde lambda, la sonde de régulation dont la fonction nous avons déjà décrit. Cette sonde est située avant le catalyseur. Cependant, les véhicules qui appliquent l'OBD-II (on-board diagnostic), la deuxième version du standard de diagnostic, ont une deuxième sonde, la sonde de diagnostic, placée dans la partie postérieure du catalyseur. Sa fonction est d'informer du fonctionnement correct de la sonde de régulation et du catalyseur, en corrigeant n'importe quelle déviation, et alertant du moment de substitution.

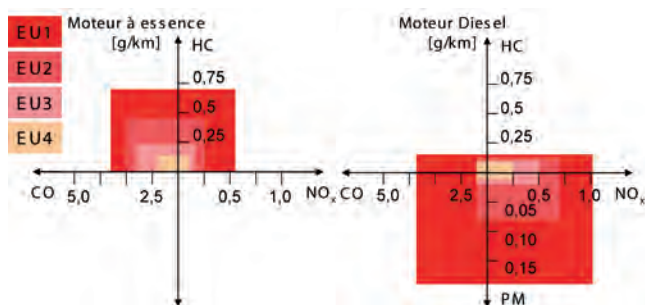
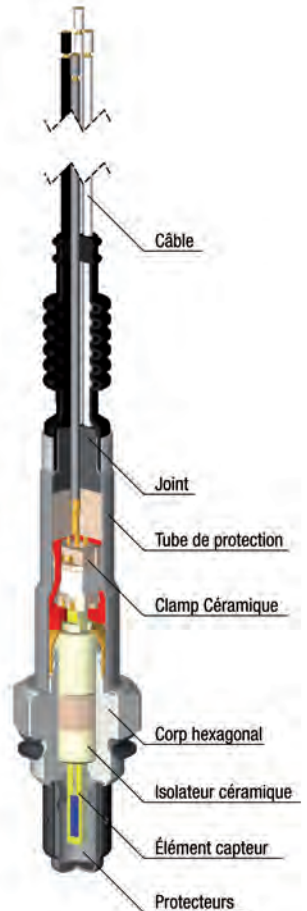


Figure 1. Législation en émissions

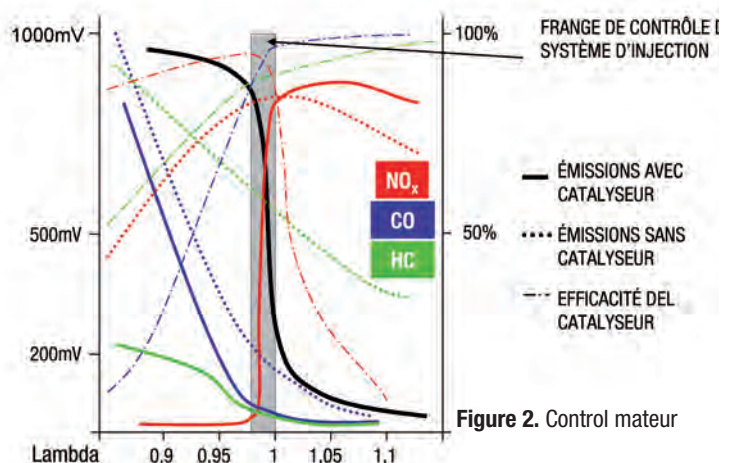


Figure 2. Control moteur

INFORMATION TECHNIQUE

TYPES DE SONDES LAMBDA

Existent plusieurs types de Sondes Lambda, lesquelles se peuvent classer en fonction du matériel sensible en Sondes de Zirconium et Sondes de Titane.

-Fonctionnement des Sondas Lambda avec l'élément senseur de ZIRCONIUM:

Les sondes au zirconium, sont basés en Dioxyde de Zirconium fonctionnent par la comparaison de deux atmosphères, les gaz d'échappement d'un côté et l'air extérieur de l'autre côté. La différence de teneur en oxygène entre les deux gaz produit une tension dans le capteur.

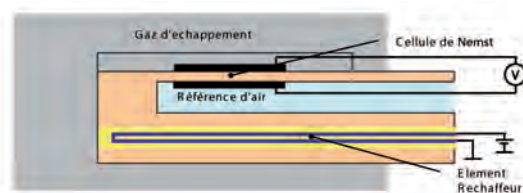
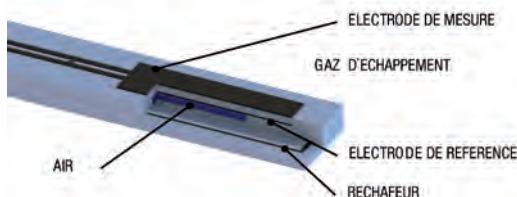
Les mélanges riches produisent une tension élevée et les mélanges faibles une tension faible. Le capteur est actif et capable de produire une tension chaque fois qu'il rencontre une température supérieure à 300°C.

Existents différentes évolutions de ce type de sonde:

Des sondes conventionnelles non chauffées : Ces sondes ont été les premières à être équipées aux véhicules. Atteignent la température de travail (> 350°C) grâce à la chaleur des gaz d'échappement. Pour cette raison sont placées près du moteur. Le temps d'allumage ou de Light-off est supérieur à 2 minutes. La durée de vie c'est d'environ 50.000 à 80.000 Km

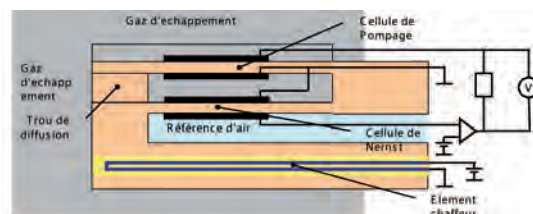
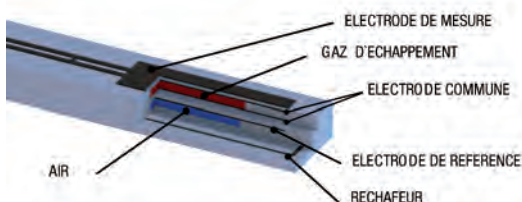
Des sondes conventionnelles chauffées: Ces sondes incorporent déjà un élément radiateur qui les permet d'atteindre la température de travail avec indépendance des gaz d'échappement, cependant ont besoin d'au moins 45 secondes. Elles peuvent être de trois ou quatre câbles en fonction de l'application. La durée de vie c'est d'environ 100.000 à 160.000 Km.

Des sondes planaires: Elles possèdent l'élément radiateur intégré dans le composant senseur, en réduisant sa taille et en atteignent la température de travail en 10 secondes. Elles réussissent à réduire à la moitié les émissions de la phase critique de démarrage à froid. La durée de vie c'est d'environ 160.000 km.



Des sondes planaires à large bande: Au contraire des autres sondes, celles-ci possèdent deux cellules de mesure comme celle décrite, et 5 câbles. Elles mesurent avec une grande exactitude la composition, ce trait les fait aptes pour les moteurs diesel et d'essence. Cela arrive parce que la réponse du senseur est proportionnelle à la valeur lambda qu'elle mesure.

Ces sondes portent un élément de calibrage de la réponse au connecteur ce qui fait que, dans aucun cas, ne se doit pas remplacer une sonde par l'autre en coupant les câbles. La durée de vie c'est d'environ 160.000 km.



- Fonctionnement des Sondes Lambda avec élément senseur de TITANE :

Cette sonde est essentiellement composée d'un élément en céramique sensible au Dioxyde de Titane. A la différence des sondes au zirconium, elle ne produit aucune tension et le capteur est mis en contact avec les gaz d'échappement, sans avoir besoin de l'air extérieur. A température élevée, cet élément est sensible à la variation de la teneur en oxygène des gaz d'échappement.

Les Sondes Lambda en Titane sont toujours chauffées. La variation en oxygène entraîne une variation de la résistance électrique de l'élément senseur. Pour un mélange riche, la résistance baisse à des valeurs minimales et pour un mélange faible, elle atteint les valeurs maximales. La ECU alimente la sonde avec une tension fixe et lit la réponse de la sonde à l'aide d'un circuit séparateur de tension.

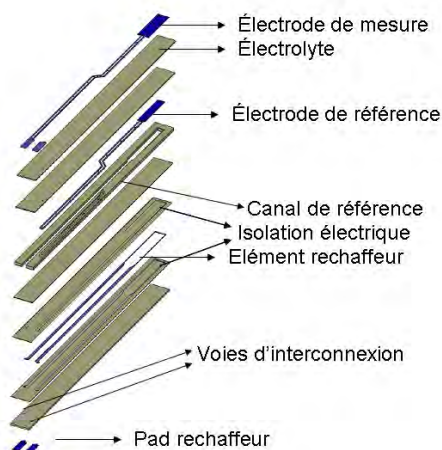
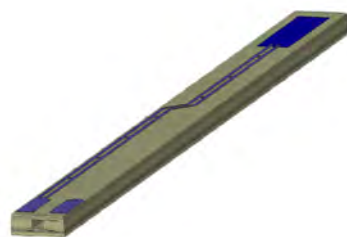


Figure 3. Structure constructive de la sonde plate selon technologie céramique multicouche.



INFORMATION TECHNIQUE

INSTALLATION DES NOUVELLES SONDES LAMBDA

L'installation des Sondes Lambda FAE est très simple et rapide. Rappelez-vous que, pour effectuer cette opération, vous devez attendre que le moteur soit complètement froid ou bien prendre des précautions, puisque les Sondes Lambda atteignent températures très élevées et vous courez le risque de subir des brûlures.

L'installation demande l'imprégnation du filet avec une graisse spéciale. Cette graisse facilitera le démontage et empêchera que la sonde reste soudée au tube d'échappement à cause des conditions extrêmes de travail. Les sondes FAE portent déjà la graisse distribuée par le filet, cependant il est convenable de s'en assurer.

Le serrage de la Sonde c'est un autre aspect important, faites-le suivant les instructions à continuation, veuillez noter que l'excès de serrage peut déformer le filet:

Sonde M18†: Enfoncez la Sonde avec les doigts jusqu'au bout, puis serrez fort avec la clé appropriée. Serrez 1/2 - 3/4 tour (35-45Nm)

Sonde M12†: Enfoncez la Sonde avec les doigts jusqu'au bout, puis serrez fort avec la clé appropriée. Serrez 1/2 - 1 tour (18-23Nm)

COMMENT INSTALLER UNE SONDE LAMBDA UNIVERSELLE?

Pour installer la Sonde Lambda Universelle FAE, veuillez suivre les indications suivantes:

1- Débranchez la batterie. Débranchez le connecteur de la Sonde Lambda à remplacer (celle qui se trouve dans la voiture).

2- Coupez les câbles de la Sonde que vous venez d'enlever, en séparant le connecteur du reste de la Sonde, en s'assurant de laisser suffisant câble pour réaliser l'épissure par la suite.

3- Enlevez l'isolant, selon la longueur indiquée et en essayant de ne pas abîmer le noyau métallique du câble.

4. Introduisez les câbles dénudés du connecteur à l'intérieur des douilles de la nouvelle Sonde Lambda FAE, en faisant attention de bien respecter les couleurs des câbles.

5. Aplatissez les douilles. Appliquez de la chaleur sur la gaine Thermo-rétractile de la douille afin que l'union entre le connecteur récupéré et la nouvelle sonde soit bien fixe, hermétique et étanche.

6. Une fois ces opérations terminées, vous pouvez installer la Sonde Lambda FAE sur votre véhicule.

Les sondes de bande large (5 câbles) ne peuvent pas s'installer comme universelles, le connecteur incorpore un élément de calibrage du signal sans lequel la réponse n'est pas l'adéquante.

Comment s'installe une Sonde Lambda Spécifique ? :

- Avant d'installer la Sonde Lambda, assurez-vous que la référence est l'appropriée pour son véhicule.

- N'installez pas la Sonde Lambda s'il a été frappé.

- Débranchez la batterie.

- Débranchez le connecteur de la Sonde Lambda à remplacer (celle qui se trouve dans la voiture).

- Placez en premier lieu la sonde à son emplacement en veillant à ce que le câble ne soit pas tordu, plié ni coincé.

- Serrez la Sonde en suivant les instructions suivantes:

Sonde M18†: Enfoncez la Sonde avec les doigts jusqu'au bout, puis serrez fort avec la clé appropriée. Serrez 1/2 - 3/4 tour (35-45Nm)

Sonde M12†: Enfoncez la Sonde avec les doigts jusqu'au bout, puis serrez fort avec la clé appropriée. Serrez 1/2 - 1 tour (18-23Nm)

- Branchez et logez le câble tel qu'il était installé à l'origine, en faisant particulièrement attention à ce qu'il ne reste pas sur le collecteur d'échappement ou un autre composant chaud du moteur.

COMMENT TESTER LES SONDES LAMBDA?

Pour vérifier le bon fonctionnement d'une Sonde Lambda, sans la démonter du véhicule, vous devez disposer d'un oscilloscope. Etant donné que le moteur a été réglé conformément aux indications du fabricant, on procède au chauffage du moteur. Branchez, à l'aide du système de connexion approprié et spécifique, la sortie du capteur à l'entrée de l'oscilloscope, sans débrancher la Sonde Lambda de la ECU de la voiture. Une fois ces branchements effectués, si la sonde lambda fonctionne correctement, le signal affiché par l'oscilloscope variera rapidement et de manière constante entre 0,2 V (mélange faible) et 0,8 V (mélange riche).

Un autre facteur très important, et qu'il est nécessaire de prendre en compte, est le temps écoulé entre le passage d'une tension à une autre, qui doit être d'environ 300 millisecondes. Le temps écoulé entre le passage de mélange faible à riche et le passage de mélange riche à faible doit être le même ou similaire. Si le signal produit par le capteur est constant ou que le temps de réaction au changement de richesse du mélange est trop lent, cela signifie que vous devez remplacer la Sonde Lambda. Il est conseillé de réviser le fonctionnement de la Sonde Lambda chaque fois que vous effectuez un réglage du moteur et toujours avant les tests d'émissions. Rappelons qu'un fonctionnement lent du capteur affecte directement la consommation de notre véhicule, par conséquent, le remplacement du capteur usé par un nouveau sera rapidement amorti par la réduction de la consommation de carburant.

CONTRÔLE VISUEL / CAUSE DE LA DÉFAILLANCE

Vérifiez le connecteur et le câble et assurez-vous qu'ils sont en bon état.

Vérifiez également que le corps de la Sonde Lambda ne présente aucune bosse ou marque de choc qui pourrait l'avoir endommagé.

Il faut savoir qu'en général, un contrôle visuel n'est pas suffisant pour garantir le bon ou mauvais fonctionnement d'une Sonde Lambda. Toutefois, outre les recommandations fournies ci-dessus, il est également possible d'inspecter l'aspect du tube protecteur du capteur afin d'obtenir une éventuelle indication du problème.

1) Sonde Lambda endommagée par un excès de plomb dans les émissions de gaz.

2) Sonde Lambda endommagée par pollution avec fluide anti glace.

3) Sonde Lambda endommagée par un mélange air carburant trop riche.

4) Sonde Lambda endommagée par une consommation élevée d'huile.

5) Sonde Lambda endommagée par pollution à la silice des émissions de gaz.

Souvenez-vous qu'à chaque fois que vous vous trouverez dans l'une ou l'autre de ces situations, vous devrez remplacer la Sonde Lambda.

Installation d'une application spécifique du Sonde Lambda FAE:

- Avant d'installer la Sonde Lambda assurez-vous que vous remplacez la référence connectée indiquée pour le fabricant de votre véhicule.



INSPECCIÓN VISUAL / CAUSAS DE FALLO

INSPECCIÓN VISUAL / CAUSAS DE FALLO

Debe verificarse el conector y el cable asegurándose de su buen estado.

Compruebe también si el cuerpo de la Sonda Lambda muestra alguna abolladura o señal de algún golpe que pudieran haberla deteriorado.

Hay que tener en cuenta que, como norma general, una inspección visual no es suficiente para poder asegurarse del buen o mal funcionamiento de nuestra Sonda Lambda, pero de todas formas, además de las recomendaciones comentadas con anterioridad, también podemos fijarnos en el aspecto del tubo protector del elemento sensor, para tener alguna indicación del posible problema.

- 1) Sonda Lambda dañada por un exceso de plomo en las emisiones de gases.
- 2) Sonda Lambda dañada por contaminación con anticongelante.
- 3) Sonda Lambda dañada por una mezcla aire-combustible excesivamente rica.
- 4) Sonda Lambda dañada por un elevado consumo de aceite.
- 5) Sonda Lambda dañada por contaminación de silicio de las emisiones de gases.

Recuerde que, siempre que se encuentre con cualquiera de estas situaciones, debe reemplazar la Sonda Lambda.



VISUAL INSPECTION / FAILURE CAUSES

Verify that the connector and the cable are visually in good condition.

Also verify if the body of the **Oxygen Sensor** shows any dents or signs of being hit that could have caused damage.

It is necessary to consider, as a normal guideline, that a visual inspection is not enough to be certain that the **Oxygen Sensor** is working properly. Beside the recommendations made above, we should also pay attention to the condition of the protection tube to have an indication of the possible problem.

- 1) **Oxygen Sensor** damaged by excess lead in the emission gases.
- 2) **Oxygen Sensor** damaged by coolant leaks.
- 3) **Oxygen Sensor** damaged due to an air / fuel mixture that is excessively rich.
- 4) **Oxygen Sensor** damaged by high engine oil usage.
- 5) **Oxygen Sensor** damaged due to contamination from silicon in the emissions gases.

Remember that anytime you encounter one of these situations you should replace the **Oxygen Sensor**.

Installation of an specific application **FAE Oxygen Sensor**:

- Before installing the Oxygen Sensor make sure that you are using the appropriate reference indicated by your vehicle's manufacturer.



CONTRÔLE VISUEL / CAUSE DE LA DÉFAILLANCET

Vérifiez le connecteur et le câble et assurez-vous qu'ils sont en bon état.

Vérifiez également que le corps de la **Sonde Lambda** ne présente aucune bosse ou marque de choc qui pourrait l'avoir endommagé.

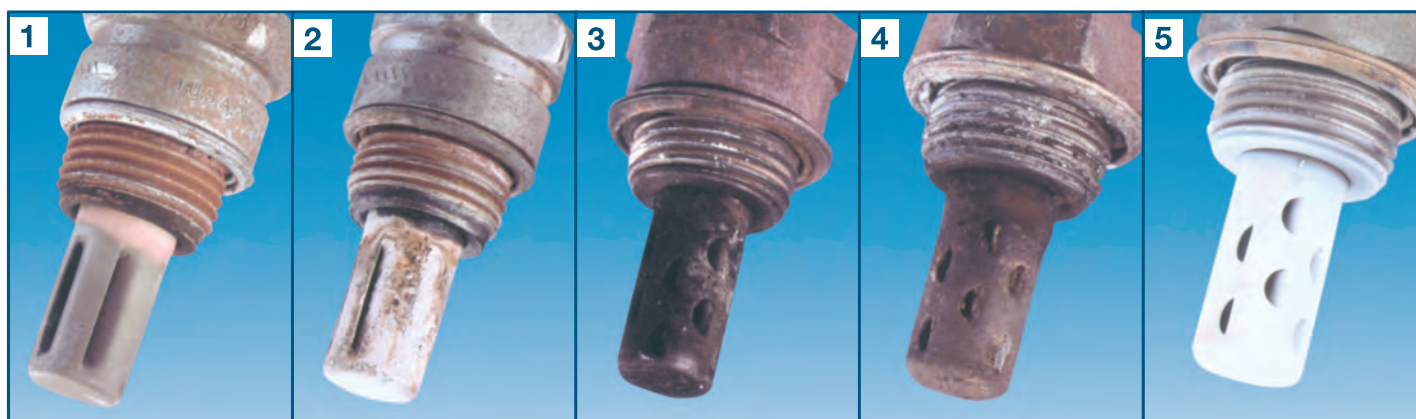
Il faut savoir qu'en général, un contrôle visuel n'est pas suffisant pour garantir le bon ou mauvais fonctionnement d'une **Sonde Lambda**. Toutefois, outre les recommandations fournies ci-dessus, il est également possible d'inspecter l'aspect du tube protecteur du capteur afin d'obtenir une éventuelle indication du problème.

- 1) **Sonde Lambda** endommagée par un excès de plomb dans les émissions de gaz.
- 2) **Sonde Lambda** endommagée par pollution avec fluide anti glace.
- 3) **Sonde Lambda** endommagée par un mixture air-carburant trop riche.
- 4) **Sonde Lambda** endommagée par une consommation élevée d'huile.
- 5) **Sonde Lambda** endommagée par pollution au silice des émissions de gaz.

Souvenez-vous qu'à chaque fois que vous vous trouverez dans l'une ou l'autre de ces situations, vous devrez remplacer la **Sonde Lambda**.

Installation d'une application spécifique du **Sonde Lambda FAE**:

- Avant d'installer la **Sonde Lambda** assurez-vous que vous remplacez la référence coneccte indiqué pour le fabricant de votre véhicule.





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APLICACIONES POR VEHÍCULOS
VEHICLE APPLICATION
APPLICATIONS POUR VÉHICULES



MOTOR
ENGINE
MOTEUR



AÑO
YEAR
ANNÉE



SONDAS LAMBDA ESPECÍFICAS
SPECIFIC OXYGEN SENSORS
SONDES LAMBDA SPÉCIFIQUES



KILOVATIOS / CAVALLOS DE VAPOR
KILOWATTS / HORSE POWER
KILOWATTS / CHEVAL - VAPEUR



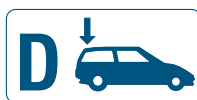
INFORMACIÓN
INFORMATION
INFORMATION



CRUCE DE REFERENCIAS
CROSS REFERENCES
TABLEAU DES EQUIVALENCES



SONDAS LAMBDA UNIVERSALES
UNIVERSAL OXYGEN SENSORS
SONDES LAMBDA UNIVERSELLES



SONDA DE DIAGNOSIS / DESPUES CATALIZADOR
DIAGNOSTIC SENSOR / AFTER CATALYST
SONDE DE DIAGNOSTIC / APRÈS DU CATALYSEUR



SONDA DE REGULACIÓN / DELANTE CATALIZADOR
CONTROL SENSOR / BEFORE CATALYST
SONDE DE RÉGULATION / AVANT DU CATALYSEUR

INFORMACIÓN / INFORMATION / INFORMATION

E

En este Catálogo se han considerado los vehículos con:

- Conducción a la izquierda (L.H.D.)
- Cambio Manual, 5 velocidades.
- Sin Aire Acondicionado
- Sin Check Control
- Sin Cruise Control
- Sin ABS

como el vehículo Standard (genérico).

El resto de vehículos con otras características (criterios) se tratan de forma específica en la columna de información.

G.B.

In this Catalog have been considered the vehicles with:

- Left Hand Drive (L.H.D.)
- Manual Gear, 5 speed.
- Without Air Conditioning
- Without Check Control
- Without Cruise Control
- Without ABS

As the Standard vehicle (generic).

The rest of vehicles with other features (criteria) are treated in a specific way in the information column.

F

Dans ce Catalogue sont considérés les véhicules avec:

- Conduction à gauche (L.H.D.)
- Avec boîte de vitesses manuelle, 5 vitesses
- Sans air conditionné/climatisation
- Sans tableau de contrôle
- Sans vitesse de croisière
- Sans antibloqueo (ABS)

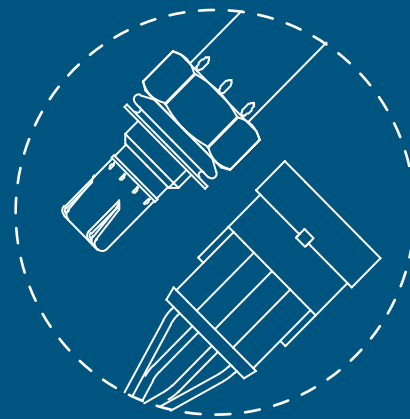
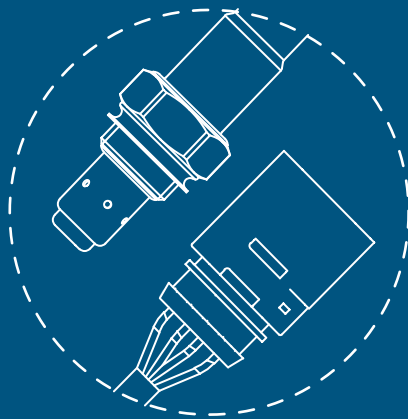
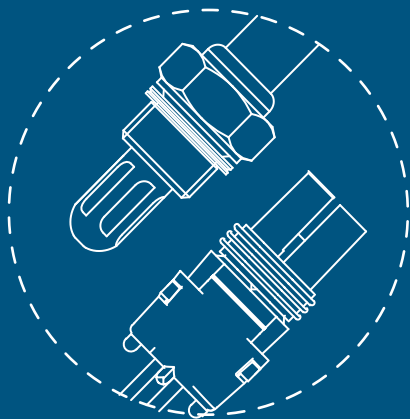
comme le véhicule standard (générique).

Le reste des véhicules avec d'autres caractéristiques (critères) sont abordés d'une façon spécifique dans la colonne d'information.



SONDAS LAMBDA / OXYGEN SENSORS / SONDES LAMBDA

FAE	L. mm	Nº Cables	Univ.	Type	FAE	L. mm	Nº Cables	Univ.	Type	FAE	L. mm	Nº Cables	Univ.	Type	FAE	L. mm	Nº Cables	Univ.	Type
75001	600	5	Zr Planar W/F	R	77172	320	4	Zr	77008 R	77266	570	4	Zr	77004 D	77384	660	4	Zr	77004 D
75002	950	5	Zr Planar W/F	R	77173	570	4	Zr	77008 R	77267	400	4	Zr	77004 R	77385	310	4	Zr	77004 R
75003	1500	5	Zr Planar W/F	R	77174	850	4	Zr	77008 R	77268	570	4	Zr	77004 R	77386	750	4	Zr	77004 R
75004	650	5	Zr Planar W/F	R	77175	1400	4	Zr	77008 R	77269	650	4	Zr	77004 R	77387	510	4	Zr	77008 R
75005	1200	5	Zr Planar W/F	R	77176	750	4	Zr	77008 R	77270	880	4	Zr	77004 R	77388	340	4	Zr	77004 R
75006	400	5	Zr Planar W/F	R	77177	620	4	Zr	77004 R	77271	1020	4	Zr	77008 R	77389	260	4	Zr	77004 R / D
75007	900	5	Zr Planar W/F	R	77178	600	4	Zr	77004 R	77272	350	4	Zr	77004 R / D	77390	330	3	Zr	77003 R
75008	1250	5	Zr Planar W/F	R	77179	450	4	Zr	77008 R / D	77273	500	4	Zr	77004 R / D	77391	350	4	Zr	77004 R
75009	750	5	Zr Planar W/F	R	77180	520	4	Ti	77013 R	77274	870	4	Zr	77004 R	77392	400	4	Zr Planar	77015 R
75010	1720	5	Zr Planar W/F	R	77181	780	3	Ti	77010 R	77275	1020	4	Zr	77004 R	77393	430	4	Zr	77004 D
75011	1750	5	Zr Planar W/F	R	77182	1000	3	Ti	77011 R	77276	1200	4	Zr	77009 R	77394	420	4	Zr	77008 D
75012	1550	5	Zr Planar W/F	R	77183	600	4	Ti	77013 R	77277	1020	4	Zr	77004 R	77395	280	4	Zr	77008 D
77100	530	1	Zr	77001 R	77184	820	4	Ti	77013 R	77278	650	4	Zr	77004 R	77396	650	4	Zr	77004 R / D
77101	360	1	Zr	77001 R	77185	650	4	Ti	77013 D	77279	570	4	Zr Planar	77015 D	77397	300	4	Zr	77004 R / D
77102	320	1	Zr	77001 R	77186	1400	4	Ti	77013 R	77280	670	4	Zr	77004 R	77400	1440	4	Zr Planar	77015 D
77103	230	1	Zr	77001 R	77187	400	4	Ti	77013 R	77281	600	4	Zr	77004 R	77401	1440	4	Zr Planar	77015 D
77104	400	2	Zr	77002 R	77188	520	4	Ti	77013 R	77282	400	4	Zr Planar	77015 R / D	77402	470	4	Zr Planar	77015 D
77105	500	3	Zr	77003 R	77189	740	4	Ti	77013 R / D	77283	570	4	Zr Planar	77015 R	77403	850	4	Zr Planar	77015 D
77106	650	3	Zr	77003 R	77190	1000	4	Ti	77013 R	77284	1300	4	Zr Planar	77015 R / D	77404	1000	4	Zr Planar	77015 D
77107	1000	3	Zr	77003 R	77191	350	3	Zr	77003 R	77288	420	4	Zr	77009 R	77405	750	4	Zr Planar	77015 D
77108	1250	3	Zr	77003 R	77192	1020	4	Zr	77004 R / D	77289	570	4	Zr	77004 R	77406	810	4	Zr Planar	77015 D
77109	1650	3	Zr	77003 R	77194	870	4	Zr	77008 R	77290	400	4	Zr	77004 R	77407	1440	4	Zr Planar	77015 D
77110	500	3	Zr	77003 R	77195	350	4	Zr	77009 R	77291	750	4	Zr	77009 R	77408	510	4	Zr Planar	77015 D
77111	690	3	Zr	77003 R	77200	650	4	Zr	77004 R / D	77292	470	4	Zr	77009 R	77409	320	4	Zr Planar	77015 D
77112	940	3	Zr	77003 R	77201	350	4	Zr Planar	77015 D	77296	270	4	Zr	77009 R	77410	550	4	Zr Planar	77015 R
77113	300	3	Zr	77006 R	77202	500	4	Zr Planar	77015 R	77300	340	4	Ti	77013 R	77411	550	4	Zr Planar	77015 D
77114	450	3	Zr	77003 R	77203	800	4	Zr Planar	77015 D	77301	1520	4	Zr	77008 R	77412	1850	4	Zr Planar	77015 D
77115	770	3	Zr	77003 R	77204	720	4	Zr Planar	77015 D	77302	670	4	Zr Planar	77015 R	77413	710	4	Zr Planar	77015 D
77116	300	3	Zr	77006 R	77205	700	4	Zr	77004 D	77303	500	4	Zr	77004 R / D	77414	1040	4	Zr Planar	77015 D
77117	450	3	Zr	77003 R	77206	400	4	Zr Planar	77015 D	77304	670	4	Zr	77004 R	77415	900	4	Zr Planar	77015 R
77118	610	3	Zr	77003 R	77207	450	4	Zr	77004 R	77305	420	4	Zr	77004 R	77416	870	4	Zr Planar	77015 D
77119	1000	3	Zr	77003 R	77208	300	4	Zr Planar	77015 R / D	77306	970	3	Zr	77003 R	77417	460	4	Zr Planar	77015 R
77120	1350	3	Zr	77003 R	77209	450	4	Zr Planar	77015 R	77307	1120	3	Zr	77003 R	77418	300	4	Zr Planar	77015 R
77121	300	3	Zr	77006 R	77210	1300	4	Zr	77008 R	77308	750	4	Zr Planar	77015 D	77419	600	4	Zr Planar	77015 D
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77125	1240	4	Zr	77008 R	77214	870	4	Zr	77004 R	77323	370	2	Zr	77002 R	77423	300	4	Zr Planar	77015 D
77126	550	4	Zr	77008 R	77215	300	4	Zr	77004 R	77324	500	2	Zr	77002 R	77424	300	4	Zr Planar	77015 R
77127	1540	4	Zr	77008 R	77216	400	4	Zr	77008 R	77326	470	4	Zr	77004 D	77425	540	4	Zr Planar	77015 R
77128	690	4	Zr	77008 R	77217	350	4	Zr	77004 R	77327	820	4	Zr	77004 D	77426	300	4	Zr Planar	77015 D
77129	250	4	Zr	77004 R	77218	450	4	Zr	77004 R	77328	670	4	Zr Planar	77015 R / D	77427	310	4	Zr Planar	77015 R / D
77130	1140	4	Zr	77008 R	77219	650	4	Zr	77004 R / D	77329	670	4	Zr	77004 D	77428	510	4	Zr Planar	77015 D
77131	620	4	Zr	77004 R	77220	800	4	Zr	77004 R / D	77330	370	4	Zr	77007 R	77429	420	4	Zr Planar	77015 D
77132	700	4	Zr	77004 R	77221	1200	4	Zr	77008 R	77331	470	4	Zr	77007 R	77431	800	4	Zr Planar	77015 D
77133	840	4	Zr	77004 R	77222	450	3	Zr	77003 R	77332	450	4	Zr Planar	77015 D	77432	400	4	Zr	77004 R
77134	1050	4	Zr	77004 R	77223	350	4	Zr Planar	77015 R / D	77333	650	4	Zr Planar	77015 D	77433	450	4	Zr	77009 D
77135	700	4	Zr	77008 R	77224	450	4	Zr Planar	77015 R / D	77334	750	4	Zr Planar	77015 R	77434	1250	4	Zr	77004 R
77136	770	4	Zr	77008 R	77225	650	4	Zr Planar	77015 D	77335	520	4	Zr	77008 R	77435	300	4	Zr	77004 D
77137	1000	4	Zr	77008 R	77226	1200	4	Zr Planar	77015 R / D	77336	300	4	Zr	77004 D	77436	800	4	Zr	77009 D
77138	500	4	Zr	77004 R	77227	2100	4	Zr Planar	77015 D	77337	1550	4	Zr	77008 R	77437	500	4	Zr	77004 R
77139	720	4	Zr	77004 R	77228	300	3	Zr	77003 R	77350	550	4	Ti	77013 R	77438	520	4	Zr	77009 R
77140	1100	4	Zr	77004 R	77229	650	3	Zr	77003 R	77352	400	4	Ti	77013 R	77439	520	4	Zr	77009 R
77141	700	4	Zr Planar	77015 R	77230	800	3	Zr	77003 R	77353	650	4	Ti	77013 R	77440	650	4	Zr	77009 D
77142	920	4	Zr Planar	77015 R	77231	1200	3	Zr	77003 R	77354	970	4	Ti	77013 R	77441	750	4	Zr Planar	77015 R / D
77143	1100	4	Zr Planar	77015 R / D	77232	500	4	Zr	77004 R	77355	250	4	Ti	77013 R					
77144	1200	4	Zr Planar	77015 R / D	77233	650	4	Zr Planar	77015 D	77356	900	4	Ti	77013 D					
77145	1470	4	Zr Planar	77015 D	77234	800	4	Zr Planar	77015 R	77357	400	4	Ti	77013 R					
77146	1700	4	Zr Planar	77015 D	77235	870	4	Zr Planar	77015 D	77358	530	3	Ti	77010 R					
77147	1700	4	Zr	77004 D	77236	1020	4	Zr Planar	77015 D	77359	1370	4	Ti	77013 D					
77148	550	4	Zr Planar	77015 R / D	77237	800	4	Zr	77004 R / D	77360	1050	4	Ti	77013 R					
77149	1400	4	Zr	77004 D	77238	1020	4	Zr	77004 D	77361	1100	4	Zr	77008 R					
77150	550	4	Zr	77004 D	77239	570	4	Zr	77004 R	77362	900	4	Zr Planar	77015 R					
77151	250	4	Zr	77009 D	77240	570	4	Zr Planar	77015 D	77363	1300	4	Zr Planar	77015 D					
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77153	560	4	Zr Planar	77015 R	77242	1500	4	Zr Planar	77015 D	77365	1800	4	Zr Planar	77015 D					
77154	570	4	Zr Planar	77015 R	77243	350	4	Zr	77004 R	77366	2400	4	Zr Planar	77015 D					
77155	350	4	Zr	77004 R / D	77244	400	4	Zr Planar	77015 R / D	77367	450	4	Zr	77008 R					
77156	630	4	Zr	77004 R	77245	650	4	Zr	77009 R	77368	350	4	Zr	77004 D					
77157	720	4	Zr	77004 D	77246	300	4	Zr	77004 D	77369	1300	4	Zr	77008 R					
77158	400	4	Zr	77004 R	77247	800	4	Zr	77004 R	77370	1300	3	Zr	77003 R					
77159	450	4	Zr	77008 R	77248	1300	4	Zr Planar	77015 D	77371	1100	4	Zr	77004 R					



PARTE ILLUSTRADA
ILLUSTRATED PART
PARTIE ILLUSTRÉE



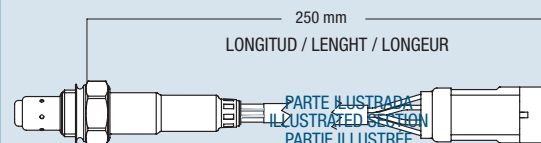
(A)	AUSTRIA	AUSTRIA	AUTRICHE
(ARG)	ARGENTINA	ARGENTINE	ARGENTINE
(AUS)	AUSTRALIA	AUSTRALIA	AUSTRALIE
(BR)	BRASIL	BRAZIL	BRESIL
(CH)	SUIZA	SWITZERLAND	SUISSE
(CHINA)	CHINA	CHINA	CHINE
(CND)	CANADÁ	CANADA	CANADA
(CS)	REPÚBLICA CHECA	CZECH REPUBLIC	RÉPUBLIQUE TCHÈQUE
(D)	ALEMANIA	GERMANY	ALLEMAGNE
(E)	ESPAÑA	SPAIN	ESPAGNE
(EU)	EUROPA	EUROPE	EUROPE
(F)	FRANCIA	FRANCE	FRANCE
(GB)	GRAN BRETAÑA	GREAT BRITAIN	GRANDE BRETAGNE
(GR)	GRECIA	GREECE	GRÈCE
(I)	ITALIA	ITALY	ITALIE
(IND)	INDIA	INDIA	INDE
(J)	JAPON	JAPAN	JAPON
(PL)	POLONIA	POLAND	POLOGNE
(RUS)	RUSIA	RUSSIA	RUSSIE
(S)	SUECIA	SWEDEN	SUÈDE
(TR)	TURQUIA	TURKEY	TURQUIE
(USA)	USA	USA	USA
(ZA)	SUDAFRICA	SOUTH AFRICA	AFRIQUE DU SUD
---	No disponible	Not available	Non disponible
... ->	Desde ...->	From to ...->	Depuis ... ->
-> ...	->... Hasta	-> ... Up to	->... Jusqu'à
-> N°	Hasta el número	Up to number	Jusqu'à numéro
N° ->	Desde el número	From to number	Depuis numéro
-> Ch. ->	Desde/Hasta Chasis	Up/From Chassis	Jusqu'à/Depuis Chassis
A.	Amperio	Ampere	Ampère
A.A	Aire acondicionado	Air conditioning	Air conditionné / climatisation
Adatt. Universal	Adaptable a Universal	Suitable to Universal	Remplace á Universelle
After the catalytic converter	Después del catalizador	After the catalytic converter	Après le catalyseur
Antipollution Standars	Norma antipolución	Antipollution Standars	Norme antipollution
Bus	Autobús	Bus	Autobus
Before catalytic converter	Antes del catalizador	Before catalytic converter	Depuis le catalyseur
Camión/Truck	Camión	Truck	Camion
Check Control	Tabla de controles	Check Control	Tableau de contrôle
Cil.	Cilindros	Cylinders	Cylindres
Com.	Comercial	Commercial	Commercial
Con/With	Con	With	Avec
Cont.	Continuación	Continued	Continuation / Suite
East Europe	Europa Este	East Europe	Europe de l'Est
Except.	Excepto	Except	Sauf
Fitted on the right side	Montado a la derecha	Fitted on the right side	Monté à droite
Fitted on the left side	Montado a la izquierda	Fitted on the left side	Monté à gauche
Front	Frontal	Front	Frontale
Front exhaust pipe	Tubo de escape delantero	Front exhaust pipe	Tube d'échappement Avant
i.e.	Inyección electrónica	Electronic Injection	Injection électronique
Leaded fuel	Gasolina con plomo	Leaded fuel	Essence avec plomb
L.H.D.	Conducción a la izquierda	Left hand drive	Conduire à gauche
Monopoint	Inyección Monopunto	Single-point Injection	Injection Monopoint
Motor	Motor	Engine	Moteur
Multipoint	Inyección Multipunto	Multi-point Injection	Injection Multipoint
On the exhaust manifold	En el colector de escape	On the exhaust manifold	Sur le collecteur d'échappement
Rear	Posterior	Rear	Postérieur
Replaces	Reemplaza	Replaces	Remplace
R.H.D.	Conducción a la derecha	Right hand drive	Conduire à droite
See	Ver	See	Voir
See also	Ver también	See also	Voir aussi
Sin/Without	Sin	Without	Sans
Solo/Only	Solo	Only	Seulement
Ti	Titania	Titania	Titane
Unleaded fuel	Gasolina sin plomo	Unleaded fuel	Essence sans plomb
V.	Voltios	Volts	Volts
With air conditioning	Con aire acondicionado	With air conditioning	Avec climatisation
With automatic gear	Cambio automático	With automatic gear	Avec boîte vitesse automatique
With electronic key	Con llave electrónica	With electronic key	Avec clé électronique
With manual gear	Con cambio manual	With manual gear	Avec boîte vitesse manuelle
Without catalytic converter	Sin catalizador	Without catalytic converter	Sans catalyseur
Zr	Circonio	Zirconio	Zirconium
4WD	4 Ruedas motrices	4 Wheel drive	Traction 4 roues



REF. FAE

Adaptable a / Suitable to / Remplace à

FABRICANTE	MAKER	CONSTRUCTEUR
Modelos	Años	Modèle
Modelos	Años	Modèle



REEMPLAZA / REPLACES / REMPLACE :

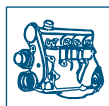
Códigos Originales / OEM P/Nrs. / Réf. d'origine

FIJACIÓN THREAD FIXATION	4 Zr	ESQUEMA SCHEME SCHEMA	CONEXIÓN CONNECTION CONNEXION
--------------------------------	---------	-----------------------------	-------------------------------------

SIMBOLOS - SYMBOLS - SYMBOLES



Aplicaciones por vehículos
Vehicle application
Applications pour véhicules



Motor
Engine
Moteur



Año
Year
Année



Información
Information
Information



OEM
Type

Sondas Lambda Específicas
Specific Oxygen Sensors
Sondes Lambda Spécifiques



Univ.
Type

Sondas Lambda Universales
Universal Oxygen Sensors
Sondes Lambda Universelles



O.E.M.
FAE

Cruce de Referencias
Cross References
Tableau des equivalences



Fijación y Rosca
Thread
Fixation et Fillet



Llave
Wrench
Clé



Zr

Circonio
Zirconia
Zirconium



Ti

Titanio
Titania
Titane



4 Zr
Planar

Tecnología Planar
Planar Technologie
Plane Technologie



D

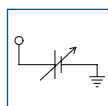
Sonda de Diagnosis -> Después de catalizador
Diagnostic Sensor -> After catalyst
Sonde de diagnostic -> Après catalyseur



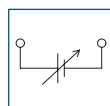
R

Sonda de Regulación -> Delante de catalizador
Control Sensor -> Before catalyst
Sonde de Régulation -> Avant de catalyseur

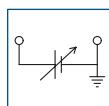
ESQUEMA ELÉCTRICO / ELECTRICAL SCHEME / SCHEMA ELECTRIQUE



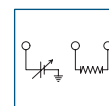
1 Cable.
1-wire.
1 fil.



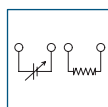
2 Cables. Aislado masa.
2-wire. Isolated ground.
2 fils. Isolé au masse.



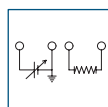
2 Cables. Con masa chasis.
2-wire. Case/body ground.
2 fils. Masse au chasis.



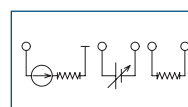
3 Cables.
3-wire.
3 fils.



4 Cables. Aislado masa.
4-wire. Isolated ground.
4 fils. Isolé au masse.



4 Cables. Con masa chasis.
4-wire. Case/body ground.
4 fils. Masse au chasis.



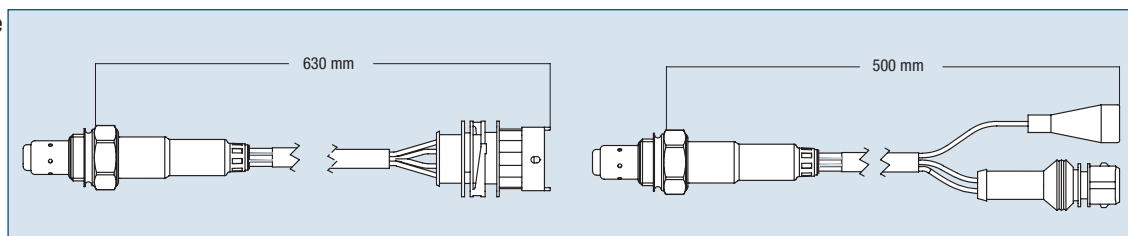
5 Cables.
5-wire.
5 fils.

LONGITUDES / LENGHT / LONGEURS

Longitud en mm. de cada cable
medido de la forma ilustrada:

Length in mm. of single lead
measured as shown:

Longeur en mm. de chaque fil
mesuré comme suit:



Para identificar una Sonda Lambda de un modelo específico, consultar Aplicaciones por Vehículos. Las piezas contenidas en este Catálogo, pueden estar sujetas a modificaciones dimensionales o de material, sin previo aviso. Todas las unidades de medida expresadas en este Catálogo son en milímetros. Los pares de apriete están en Newton por metro.

Refer to Vehicle Applications to trace the Oxygen sensor of a specific model. The parts shown in this Catalogue, are subject to modification in design or material without notice.

All measurement units started on this Catalogue are in millimeters. Torques are in Newton by meter.

Pour trouver un modele spécifique d'une Sonde Lambda, consulter les Applications par Vehicules. Les pièces contenues dans ce Catalogue, peuvent être modifiées en matériel ou exécution sans préavis. Toutes les unités de mesure indiquées sur ce Catalogue sont en millimetres. La couple de serrage sont en Newton par metre.



INDICE DE REFERENCIAS / INDEX OF REFERENCES / INDEX DES REFERENCES

FAE	Nº Cables	Univ.	Pags.	FAE	Nº Cables	Univ.	Pags.	FAE	Nº Cables	Univ.	Pags.	FAE	Nº Cables	Univ.	Pags.				
75001	5	Zr Planar W/F	91	77172	4	Zr	77008	108	77266	4	Zr	77004	122	77384	4	Zr	77004	136	
75002	5	Zr Planar W/F	91	77173	4	Zr	77008	108	77267	4	Zr	77004	122	77385	4	Zr	77004	136	
75003	5	Zr Planar W/F	91	77174	4	Zr	77008	108	77268	4	Zr	77004	122	77386	4	Zr	77004	136	
75004	5	Zr Planar W/F	91	77175	4	Zr	77008	108	77269	4	Zr	77004	122	77387	4	Zr	77008	136	
75005	5	Zr Planar W/F	91	77176	4	Zr	77008	108	77270	4	Zr	77004	122	77388	4	Zr	77004	136	
75006	5	Zr Planar W/F	91	77177	4	Zr	77004	108	77271	4	Zr	77008	122	77389	4	Zr	77004	136	
75007	5	Zr Planar W/F	92	77178	4	Zr	77004	109	77272	4	Zr	77004	123	77390	3	Zr	77003	137	
75008	5	Zr Planar W/F	92	77179	4	Zr	77008	109	77273	4	Zr	77004	123	77391	4	Zr	77004	137	
75009	5	Zr Planar W/F	92	77180	4	Ti	77013	109	77274	4	Zr	77004	123	77392	4	Zr Planar	77015	137	
75010	5	Zr Planar W/F	92	77181	3	Ti	77010	109	77275	4	Zr	77004	123	77393	4	Zr	77004	137	
75011	5	Zr Planar W/F	92	77182	3	Ti	77011	109	77276	4	Zr	77009	123	77394	4	Zr	77008	137	
75012	5	Zr Planar W/F	92	77183	4	Ti	77013	109	77277	4	Zr	77004	123	77395	4	Zr	77008	137	
77100	1	Zr	77001	96	77184	4	Ti	77013	110	77278	4	Zr	77004	124	77396	4	Zr	77004	138
77101	1	Zr	77001	96	77185	4	Ti	77013	110	77279	4	Zr Planar	77015	124	77397	4	Zr	77004	138
77102	1	Zr	77001	96	77186	4	Ti	77013	110	77280	4	Zr	77004	124	77400	4	Zr Planar	77015	138
77103	1	Zr	77001	96	77187	4	Ti	77013	110	77281	4	Zr	77004	124	77401	4	Zr Planar	77015	138
77104	2	Zr	77002	96	77188	4	Ti	77013	110	77282	4	Zr Planar	77015	124	77402	4	Zr Planar	77015	138
77105	3	Zr	77003	96	77189	4	Ti	77013	110	77283	4	Zr Planar	77015	124	77403	4	Zr Planar	77015	138
77106	3	Zr	77003	97	77190	4	Ti	77013	111	77284	4	Zr Planar	77015	125	77404	4	Zr Planar	77015	139
77107	3	Zr	77003	97	77191	3	Zr	77003	111	77288	4	Zr	77009	125	77405	4	Zr Planar	77015	139
77108	3	Zr	77003	97	77192	4	Zr	77004	111	77289	4	Zr	77004	125	77406	4	Zr Planar	77015	139
77109	3	Zr	77003	97	77194	4	Zr	77008	111	77290	4	Zr	77004	125	77407	4	Zr Planar	77015	139
77110	3	Zr	77003	97	77195	4	Zr	77009	111	77291	4	Zr	77009	125	77408	4	Zr Planar	77015	139
77111	3	Zr	77003	97	77200	4	Zr	77004	111	77292	4	Zr	77009	125	77409	4	Zr Planar	77015	139
77112	3	Zr	77003	98	77201	4	Zr Planar	77015	112	77296	4	Zr	77009	126	77410	4	Zr Planar	77015	140
77113	3	Zr	77006	98	77202	4	Zr Planar	77015	112	77300	4	Ti	77013	126	77411	4	Zr Planar	77015	140
77114	3	Zr	77003	98	77203	4	Zr Planar	77015	112	77301	4	Zr	77008	126	77412	4	Zr Planar	77015	140
77115	3	Zr	77003	98	77204	4	Zr Planar	77015	112	77302	4	Zr Planar	77015	126	77413	4	Zr Planar	77015	140
77116	3	Zr	77006	98	77205	4	Zr	77004	112	77303	4	Zr	77004	126	77414	4	Zr Planar	77015	140
77117	3	Zr	77003	98	77206	4	Zr Planar	77015	112	77304	4	Zr	77004	126	77415	4	Zr Planar	77015	140
77118	3	Zr	77003	99	77207	4	Zr	77004	113	77305	4	Zr	77004	127	77416	4	Zr Planar	77015	141
77119	3	Zr	77003	99	77208	4	Zr Planar	77015	113	77306	3	Zr	77003	127	77417	4	Zr Planar	77015	141
77120	3	Zr	77003	99	77209	4	Zr Planar	77015	113	77307	3	Zr	77003	127	77418	4	Zr Planar	77015	141
77121	3	Zr	77006	99	77210	4	Zr	77008	113	77308	4	Zr Planar	77015	127	77419	4	Zr Planar	77015	141
77122	3	Zr	77003	99	77211	4	Zr	77008	113	77309	4	Zr	77008	127	77420	4	Zr Planar	77015	141
77123	4	Zr	77008	99	77212	4	Zr	77004	113	77317	3	Zr	77003	127	77421	4	Zr Planar	77015	141
77124	4	Zr	77008	100	77213	4	Zr	77004	114	77318	4	Zr	77004	128	77422	4	Zr Planar	77015	142
77125	4	Zr	77008	100	77214	4	Zr	77004	114	77323	2	Zr	77002	128	77423	4	Zr Planar	77015	142
77126	4	Zr	77008	100	77215	4	Zr	77004	114	77324	2	Zr	77002	128	77424	4	Zr Planar	77015	142
77127	4	Zr	77008	100	77216	4	Zr	77008	114	77326	4	Zr	77004	128	77425	4	Zr Planar	77015	142
77128	4	Zr	77008	100	77217	4	Zr	77004	114	77327	4	Zr	77004	128	77426	4	Zr Planar	77015	142
77129	4	Zr	77004	100	77218	4	Zr	77004	114	77328	4	Zr Planar	77015	128	77427	4	Zr Planar	77015	142
77130	4	Zr	77008	101	77219	4	Zr	77004	115	77329	4	Zr	77004	129	77428	4	Zr Planar	77015	143
77131	4	Zr	77004	101	77220	4	Zr	77004	115	77330	4	Zr	77007	129	77429	4	Zr Planar	77015	143
77132	4	Zr	77004	101	77221	4	Zr	77008	115	77331	4	Zr	77007	129	77431	4	Zr Planar	77015	143
77133	4	Zr	77004	101	77222	3	Zr	77003	115	77332	4	Zr Planar	77015	129	77432	4	Zr	77004	143
77134	4	Zr	77004	101	77223	4	Zr Planar	77015	115	77333	4	Zr Planar	77015	129	77433	4	Zr	77009	143
77135	4	Zr	77008	101	77224	4	Zr Planar	77015	115	77334	4	Zr Planar	77015	129	77434	4	Zr	77004	143
77136	4	Zr	77008	102	77225	4	Zr Planar	77015	116	77335	4	Zr	77008	130	77435	4	Zr	77004	144
77137	4	Zr	77008	102	77226	4	Zr Planar	77015	116	77336	4	Zr	77004	130	77436	4	Zr	77009	144
77138	4	Zr	77004	102	77227	4	Zr Planar	77015	116	77337	4	Zr	77008	130	77437	4	Zr	77004	144
77139	4	Zr	77004	102	77228	3	Zr	77003	116	77350	4	Ti	77013	130	77438	4	Zr	77009	144
77140	4	Zr	77004	102	77229	3	Zr	77003	116	77352	4	Ti	77013	130	77439	4	Zr	77009	144
77141	4	Zr Planar	77015	102	77230	3	Zr	77003	116	77353	4	Ti	77013	130	77440	4	Zr	77009	144
77142	4	Zr Planar	77015	103	77231	3	Zr	77003	117	77354	4	Ti	77013	131	77441	4	Zr Planar	77015	144
77143	4	Zr Planar	77015	103	77232	4	Zr	77004	117	77355	4	Ti	77013	131					
77144	4	Zr Planar	77015	103	77233	4	Zr Planar	77015	117	77356	4	Ti	77013	131					
77145	4	Zr Planar	77015	103	77234	4	Zr Planar	77015	117	77357	4	Ti	77013	131					
77146	4	Zr Planar	77015	103	77235	4	Zr Planar	77015	117	77358	3	Ti	77010	131					
77147	4	Zr	77004	103	77236	4	Zr Planar	77015	117	77359	4	Ti	77013	131					
77148	4	Zr Planar	77015	104	77237	4	Zr	77004	118	77360	4	Ti	77013	132					
77149	4	Zr	77004	104	77238	4	Zr	77004	118	77361	4	Zr	77008	132					
77150	4	Zr	77004	104	77239	4	Zr	77004	118	77362	4	Zr Planar	77015	132					
77151	4	Zr	77009	104	77240	4	Zr Planar	77015	118	77363	4	Zr Planar	77015	132					
77152	4	Zr	77004	104	77241	4	Zr Planar	77015	118	77364	4	Zr	77004	132					
77153	4	Zr Planar	77015	104	77242	4	Zr Planar	77015	118	77365	4	Zr Planar	77015	132					
77154	4	Zr Planar	77015	105	77243	4	Zr	77004	119	77366	4	Zr Planar	77015	133					
77155	4	Zr	77004	105	77244	4	Zr Planar	77015	119	77367	4	Zr	77008	133					
77156	4	Zr	77004	105	77245	4	Zr	77009	119	77368	4	Zr	77004	133					
77157	4	Zr	77004	105	77246	4	Zr	77004	119	77369	4	Zr	77008	133					
77158	4	Zr	77004	105	77247	4	Zr	77004	119	77370	3	Zr	77003	133					
77159	4	Zr	77008	105	77248	4	Zr Planar	77015	119	77371	4	Zr	77004	133					
77160	4	Zr	77008	106	77249	4	Zr Planar	77015	120	77372	4	Zr	77004	134					
77161	4	Zr	77008	106	77250	4	Zr Planar	77015	120	77373	4	Zr	77009	134					
77162	4	Zr	77008	106	77251	4	Zr Planar	77015	120	77374	4	Zr	77009	134					



NEW 75001		Adatt. Universal -----			
AUDI		FORD		VOLKSWAGEN	
A2 1.6 FSI	2002-05	Galaxy 2.8 V6	2000 ->	Bora 1.6 FSI	2002-05
A3 1.6 FSI	2001 ->	SEAT		Caddy II, III, 1.4	1996 ->
TT 1.8 T, Roadster	1999 ->	Alhambra 2.8 V6, 4Motion	2000 ->	Golf IV 1.6 FSI, Variant	2002-05
BMW		Arosa 1.0, 1.4	1997-04	Golf V 1.4 16V, Plus	2003 ->
316 i, ti, Ci, Touring	2001-05	Cordoba 1.0, 1.4, Vario	1999-02	Golf V 1.4 FSI, 1.6 FSI	2003 ->
318 i, ti, Ci, Touring	2001-05	Ibiza III 1.0, 1.4	1999-02	Lupo 1.0, 1.4	1998-05
545 i, touring	2003 ->	Inca 1.4i	1996-04	Passat 4.0 W8 4Motion	2001-05
645 Ci	2004 ->	Leon 1.8 T Cupra R	2002 ->	Polo 1.0, 1.4, Variant	1999-01
735, 745, 760. i, Li	2001 ->	SKODA		Polo 1.4 FSI	2002 ->
X3 2.0 i	2005 ->	Fabia 1.0, 1.4, Combi	1999-02	Sharan 2.8 V6 24V	2000 ->
X5 4.4 i, 4.8 is	2004 ->	Fabia Praktik 1.4	2002 ->	Touareg 3.2 V6	2002 ->
Z4 2.0 i	2005 ->	Octavia 1.4, 1.4 16V	2000 ->	Touran 1.6 FSI	2003 ->

NEW 75002		Adatt. Universal -----			
AUDI		PORSCHE		VOLKSWAGEN	
A3 1.8, 1.8 T, Quattro	1996 ->	Cayenne Turbo 4.5, S	2002 ->	Bora 1.4 16V, 1.8 T, 2.3 V5	2000-05
A4 3.0, Avant, Quattro	2000-06	SEAT		Golf IV 1.4 16V, 1.8 T, 2.3 V5	1997-05
A6 3.0, Avant, Quattro	2001-06	Alhambra 1.8 T 20V, 2.0 i	1996 ->	Multivan V 2.0, 3.2 V6	2003 ->
TT 1.8 T, Quattro, Roadster	1999 ->	Cordoba 1.2	2002 ->	New Beetle 1.8 T, 2.3 V5	1999-05
BMW		Ibiza IV 1.2	2002 ->	Passat 4.0 W8 4Motion	2001-05
545 i	2003 ->	Leon 1.4 16V, 1.8 20V	2000 ->	Phaeton 4.2 V8, 6.0 W12	2002 ->
645 Ci	2004->	Toledo II 1.4 16V, 1.8 20V	1999-06	Polo 1.2	2001 ->
735, 745, 760. i, Li	2001 ->	SKODA		Sharan 1.8T 20V, 2.0, 2.8 V6	1996 ->
X5 4.4 i, 4.8 is	2004 ->	Fabia 1.2, Combi, Praktik	2003 ->	Touareg 3.2 V6, 4.2 V8, 5.0	2003 ->
MERCEDES BENZ		Octavia 1.4 16V, 1.8 T	1997 ->	Transporter IV 2.8 V6	2000-03
Clase C, E, Kompressor	2002 ->			Transporter V 2.0, 3.2 V6	2004 ->
CLC, CLK, SLK, Kompressor	2002 ->				

NEW 75003		Adatt. Universal -----			
AUDI		MERCEDES BENZ		VOLKSWAGEN	
A3 1.6, 1.8 T	1996 ->	SLK 200 Kompressor	2004 ->	Bora 1.4 16V, 1.6, 1.8 T, 2.0	1998-05
A4 1.8 T, Avant, Quattro	2000-04	PORSCHE		Bora 2.3 V5, 2.8 V6	2000-05
A4 2.0, Avant, Cabrio	2000-04	Cayenne S 4.5	2002 ->	Golf IV 1.4 16V, 1.6	1998-05
A4 2.0 FSI, Avant	2002-04	SEAT		Golf IV 1.8 T, 2.0, Variant	1998-05
A6 1.8 T, Avant, Quattro	1997-05	Ibiza IV 1.8 T FR, Cupra	2004 ->	Golf IV 2.3 V5, 2.8 V6	2000-05
A6 2.0, Avant	2001-05	Leon 1.4 16V, 1.8 20 V T	2000 ->	New Beetle 1.6, 1.8 T	1998 ->
A8 3.0, 3.7, 4.2	2002 ->	Toledo II 1.4 16V, 1.8 20 V T	1999-06	New Beetle 2.0, 2.3 V5	2000 ->
TT 1.8 T, Roadster	1999 ->	SKODA		Passat 1.8 T 20V, 2.0	2000-05
TT 3.2 VR6, Roadster	2003 ->	Octavia 1.4 16V, 1.6, Combi	1999 ->	Phaeton 4.2 V8, 6.0 W12	2002 ->
BMW		Octavia 1.8 T, 2.0, Combi	1999 ->	Polo 1.8 GTI	2005 ->
545 i, Touring	2003 ->	SuperB 1.8 T	2002 ->	Touareg 4.2 V8, 5.0 V10	2002-06
645 Ci, Cabrio	2004 ->			Transporter IV 2.8 V6	2000-03

NEW 75004		Adatt. Universal -----			
ALFA ROMEO		FORD		VOLVO	
156 2.0 JTS, Sportwagon	2002-05	Focus II 2.5 ST	2005 ->	C30 T5	2006 ->
166 2.0 T. Spark	2000 ->	Mondeo IV 2.5	2007 ->	C70 2.0, T, Cabrio, Coupe	1997-02
GT 2.0 JTS	2003 ->	S-Max 2.5 ST	2006 ->	C70 2.3 T-5, 2.5 T	1998-05
GTV 2.0 JTS	2003 ->	NISSAN		S40 II T5, AWD	2004 ->
Spider 2.0 JTS	2003-05	350 Z 3.5, Roadster	2003 ->	S70 2.0, 2.0 Turbo	1997-00
FERRARI		Murano 3.5 4x4	2005 ->	S70 2.3 T-5, 2.4 Turbo	1997-00
360 Modena F1	1999 ->	Pathfinder 4.0 4WD	2005 ->	S80 II 2.5 T	2006 ->
				V50 T5, T5 AWD	2004 ->
				V70 I 2.0 Turbo, 2.4 Turbo	1997-00
				V70 I 2.5 AWD, Turbo	1997-00
				V70 III 2.5 T	2007 ->

NEW 75005		Adatt. Universal -----	
VOLVO		VOLVO Cont.	
C70 2.0 T, Coupe, Cabrio	1997-05	V70 I 2.0 Turbo, 2.4 Turbo	1997-00
C70 2.3 T-5, Coupe, Cabrio	1997-05	V70 I 2.5 AWD, Turbo	1997-00
C70 2.5 T, Coupe, Cabrio	1998-05	V70 II 2.0 T, 2.3 T5	2000 ->
S60 2.0 T	2001 ->	V70 II 2.4 T, AWD, T5	2001 ->
S60 2.4 T, AWD	2000 ->	V70 II 2.5 T, AWD	2002 ->
S60 2.4 T5	2004 ->	XC 70 Cross Country 2.4 T	2000-02
S60 2.5 T, AWD	2004 ->	XC 70 Cross Country 2.5 T	2002 ->
S70 2.0, 2.0 Turbo	1997-00	XC 90 2.5 T, T6	2002 ->
S70 2.3 Turbo, 2.4 Turbo	1997-00		
S80 2.0, 2.0 T	1998-06		
S80 2.4 T, 2.5 T, AWD	2000-06		
S80 2.8 T6, 3.0, T6	2001-06		

NEW 75006		Adatt. Universal -----			
AUDI		KIA		VOLKSWAGEN	
A3 1.6 FSI, Sportback	2003 ->	Carens II 2.0 CRDi	2005 ->	EOS 1.6 FSI	2006 ->
HYUNDAI		Cee'd 1.6 CRDi	2006 ->	Golf V 1.4 FSI, 1.6 FSI	2003 ->
Accent 1.5 CRDi, GLS	2005 ->	Cee'd 2.0 CRDi	2007 ->	Golf V Plus 1.6 FSI	2005 ->
Getz 1.5 CRDi	2005 ->	Magentis 2.0 CRDi	2006 ->	Jetta III 1.6 FSI	2005 ->
Grandeur 2.2 CRDi	2006 ->	Picanto 1.1 CRDi	2005 ->	Passat 1.6 FSI, Variant	2005 ->
i30 2.0 CRDi, CW	2007 ->	Rio II 1.5 CRDi	2005 ->	Touran 1.6 FSI	2003 ->
Matrix 1.5 CRDi	2001 ->	Sportage 2.0 CRDi	2006 ->		
Santa Fe 2.2 CRDi, GLS	2006 ->	SKODA			
Sonata V 2.0 CRDi	2006 ->	Octavia 1.6 FSI, Combi	2004 ->		
Tucson 2.0 CRDi	2004 ->				

DISPONIBLE / AVAILABLE 600 mm 05 / 2010

Reemplaza/Suitable: Bosch 0258 007 068, 142, 111
BMW 11 787 512 975 VW 030 906 262 J

18x1,5 mm 5 Zr

DISPONIBLE / AVAILABLE 950 mm 05 / 2010

Reemplaza/Suitable: Bosch 0258 007 057, 242, 357
BMW 11 787 521 705 VW 06A 906 262 BH

18x1,5 mm 5 Zr

DISPONIBLE / AVAILABLE 1500 mm 05 / 2010

Reemplaza/Suitable: Bosch 0258 007 351, 243, 157
BMW 11 787 529 980 VW 06A 906 262 AN

18x1,5 mm 5 Zr

DISPONIBLE / AVAILABLE 650mm 05 / 2010

Reemplaza/Suitable: Bosch 0258 007 038, 185, 156
Volvo 9125547, 9470983

18x1,5 mm 5 Zr

DISPONIBLE / AVAILABLE 1200mm 05 / 2010

Reemplaza/Suitable: Bosch 0258 007 070, 137, 187
Volvo 8627750, 8670276

18x1,5 mm 5 Zr

DISPONIBLE / AVAILABLE 400mm 05 / 2010

Reemplaza/Suitable: Bosch 0258 007 211, 0281 004 044
Hyundai 39350-2A400 VW 03C 906 262 A

18x1,5 mm 5 Zr



NEW 75007		Adatt. Universal -----	
AUDI		SKODA	
A3 2.0 FSI, Sportback	2003 ->	Octavia 2.0 FSI, Combi	2004 ->
A6 S6 Quattro, Avant	2006 ->	SuperB 1.4 TSI	2008 ->
A8 S8 Quattro	2006 ->	VOLKSWAGEN	
Q7 3.6 FSI	2006 ->	EOS 2.0 FSI	2006 ->
SEAT		Golf V 2.0 FSI	2004 ->
Altea 2.0 FSI	2004 ->	Golf V Plus 1.4 TSI	2006 ->
Altea XL 2.0 FSI	2006 ->	Golf V Plus 2.0 FSI	2005 ->
Leon 2.0 FSI	2005 ->	Golf VI 1.4 TSI	2008 ->
Toledo III 2.0 FSI	2004 ->	Jetta III 2.0 FSI	2005 ->
		Passat 1.6 FSI, Variant	2005 ->
		Passat 2.0 FSI, Variant	2005 ->
		Passat 3.2 FSI, Variant	2005 ->
VOLKSWAGEN Cont.		Passat 3.6 R36, Variant	2007 ->
Passat CC 3.6 4Motion	2008 ->	Scirocco 2.0 TDI	2008 ->
Touareg 3.6 V6 FSI	2006 ->	Touareg 6.0 W12	2005 ->
Touran 1.4 FSI	2006 ->	Touran 2.0 FSI	2003 ->

DISPONIBLE / AVAILABLE 900mm **05 / 2010**

Reemplaza/Suitable: Bosch 0258 017 010, 053, 0178
VW 06F 906 262 H, 06A 906 262 DE

18x1,5 mm

5 Zr

NEW 75008		Adatt. Universal -----	
AUDI		VOLKSWAGEN	
A3 3.2 V6 Quattro	2003 ->	EOS 3.2 V6	2006 ->
A4 2.0 TFSI, Avant, Quattro	2004 ->	Golf V 3.2 R32	2006 ->
A4 Cabrio 2.0 TFSI 16V	2006 ->	Jetta III 2.5 FSI	2006 ->
A6 2.0 TFSI, Avant	2005 ->	New Beetle 1.6, 1.8 T	2000-05
TT 3.2 V6, Roadster	2006 ->	New Beetle 1.9 TDI 101 cv.	2001 ->
		New Beetle 2.5	2005 ->
		Passat 2.0 TDI	2003-05
		Passat Variant 2.0 TDI	2003-05
		Phaeton 6.0 W12 4Motion	2005 ->
		Touareg 5.0 V10 TDI	2002 ->
SKODA		SuperB 2.0 TDI	2005 ->

DISPONIBLE / AVAILABLE 1250mm **05 / 2010**

Reemplaza/Suitable: Bosch 0258 017 180, 030
VW 1K0 998 262 N, 03G 906 262

18x1,5 mm

5 Zr

NEW 75009		Adatt. Universal -----	
AUDI		SEAT	
A3 1.9 TDI	2003 ->	Altea 1.9 TDI, 2.0 TDI	2004 ->
A3 2.0 TDI, Sportback	2005 ->	Altea 2.0 TFSI	2006 ->
A3 2.0 TFSI, Sportback	2004 ->	Altea XL 1.9 TDI, 2.0 TDI	2006 ->
A3 3.2 V6, Quattro	2004 ->	Leon 1.9 TDI, 2.0 TDI	2005 ->
TT 2.0 TFSI, Roadster	2006 ->	Leon 2.0 TFSI	2006 ->
TT 3.2 V6 Quattro	2006 ->	Toledo III 1.9 TDI, 2.0 TDI	2004 ->
RENAULT		SKODA	
Megane II 1.9 dCi	2003 ->	Octavia 1.9 TDI, 2.0 TDI	2004 ->
Megane Coupe-Cabrio dCi	2003 ->	Octavia 2.0 RS, Combi	2006 ->
Scenic II 1.9 dCi	2003 ->		
SAAB			
9-3 2.8 Turbo V6	2005 ->		
VOLKSWAGEN		Caddy III 1.9 TDI	2004 ->
		EOS 2.0 TDI	2006 ->
		EOS 2.0 TFSI	2006 ->
		Golf V 1.9 TDI, 2.0 TDI, GTD	2003 ->
		Golf V 2.0 GTI, Variant	2004 ->
		Golf V Plus 1.9 TDI, 2.0 TDI	2005 ->
		Jetta III 1.9 TDI, 2.0 TDI	2005 ->
		Jetta III 2.0 TFSI	2005 ->
		Passat 2.0 TDI, Variant	2005 ->
		Passat 2.0 TFSI, Variant	2005 ->
		Touran 1.9 TDI	2003 ->
		Touran 2.0 TDI, TDI 16V	2005 ->

DISPONIBLE / AVAILABLE 750mm **05 / 2010**

Reemplaza/Suitable: Bosch 0258 017 044, 086
VW 06F 906 262 AC, 022 906 262 CG

18x1,5 mm

5 Zr

NEW 75010		Adatt. Universal -----	
AUDI		VOLKSWAGEN	
A8 6.0 W12, Quattro	2003 ->	Bora 2.3 V5, 4Motion	2000-05
Q7 4.2 FSI	2006 ->	Golf IV 2.3 V5, 4Motion	2000-05
		Golf IV 2.8 V6, 4Motion	1999-05
		Golf IV 3.2 R32, 4Motion	2002-05
		Golf IV Variant 2.3 V5	2000-05
		Golf IV Variant 2.8 V6	1999-05
		Passat 2.3 V5, 4Motion	2000-05
		Passat Variant 2.3 VR5	2000-05
		Phaeton 3.2 V6, 4Motion	2002 ->
		Touareg 4.2 V8 FSI	2006 ->

DISPONIBLE / AVAILABLE 1720 mm **05 / 2010**

Reemplaza/Suitable: Bosch 0258 007 361, 340
VW 06A 906 262 BQ, 1K0 998 262 M

18x1,5 mm

5 Zr

NEW 75011		Adatt. Universal -----	
AUDI		SEAT	
A4 RS4, Avant, Quattro	2005 ->	Alhambra 1.8 T 20V	1997 ->
A6 3.0, Avant, Quattro	2004-06	Alhambra 2.0 i	1996 ->
A8 4.2 FSI, Quattro	2006 ->	Cordoba 1.6, Vario	1999-02
A8 6.0 W12, Quattro	2001 ->	Ibiza III 1.6	1999-02
A8 S8, Quattro	2006 ->		
R8 4.2, Quattro	2007 ->		
VOLKSWAGEN		Lupo 1.4 FSI	2001-05
		Lupo 1.6 GTI	2000-05
		New Beetle 1.8 T	1999 ->
		Phaeton 6.0 W12	2002 ->
		Polo 1.6 16V GTI	1999-01
		Polo Classic 100 1.6, Variant	1996-01
		Sharan 1.8 T 20V	1997 ->
		Sharan 2.0	1995 ->

DISPONIBLE / AVAILABLE 1720mm **05 / 2010**

Reemplaza/Suitable: Bosch 0258 007 353, 363
VW 1K0 998 262 AA, F

18x1,5 mm

5 Zr

NEW 75012		Adatt. Universal -----	
BMW		BMW Cont.	
125i Cabrio, Coupe	2007 ->	523i, Touring	2005 ->
130i	2005 ->	525i, xi, Touring	2005 ->
135i Cabrio, Coupe	2008 ->	530i, xi, Touring	2005 ->
323i, Touring	2006-07	630i, Cabrio	2004 ->
325i, xi, Touring	2005 ->	730 i. Li	2005 ->
330i, xi, Touring	2005 ->	X3 2.5 si	2006 ->
335i, xi, Touring	2006 ->	X3 3.0 si	2006 ->
325 Cabrio, Coupe i, xi	2006 ->	X5 3.0 si	2007 ->
330 Cabrio, Coupe i, xi	2006 ->	Z4 2.5 i, si	2006 ->
335 Cabrio, Coupe i, xi	2006 ->	Z4 3.0 si, Coupe	2006 ->

DISPONIBLE / AVAILABLE 1550mm **05 / 2010**

Reemplaza/Suitable: Bosch 0258 017 098, 510
BMW 11 787 558 055

18x1,5 mm

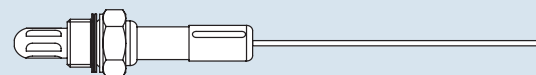
5 Zr



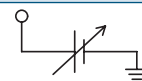
77001

UNIVERSAL

1 Cable
1-wire
1 fil



1
Zr



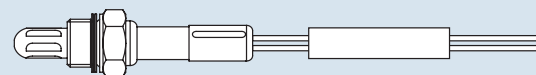
Calentador
Heater
Rechauffeur

-
ohm

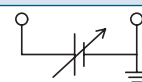
77002

UNIVERSAL

2 Cables
2-wire
2 fils



2
Zr



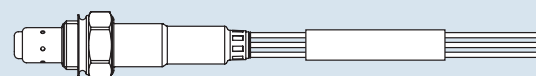
Calentador
Heater
Rechauffeur

-
ohm

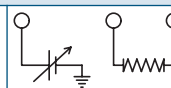
77003

UNIVERSAL

3 Cables. Con masa chasis.
3-wire. Case/body ground.
3 fils. Masse au chassis.



3
Zr



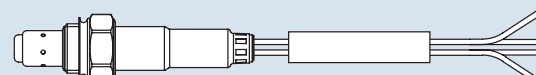
Calentador
Heater
Rechauffeur

4
ohm

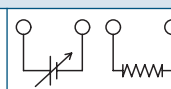
77004

UNIVERSAL

4 Cables. Aislado masa.
4-wire. Isolated ground.
4 fils. Isolée au masse.



4
Zr



Calentador
Heater
Rechauffeur

4
ohm

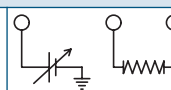
77006

UNIVERSAL

3 Cables. Con masa chasis.
3-wire. Case/body ground.
3 fils. Masse au chassis.



3
Zr



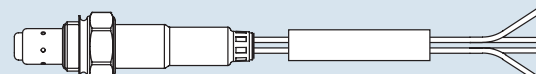
Calentador
Heater
Rechauffeur

7
ohm

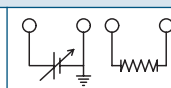
77007

UNIVERSAL

4 Cables. Con masa chasis.
4-wire. Case/body ground.
4 fils. Masse au chassis.



4
Zr



Calentador
Heater
Rechauffeur

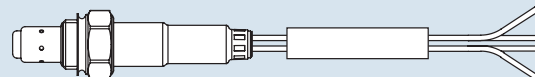
7
ohm



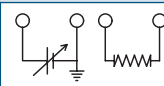
77008

UNIVERSAL

4 Cables. Con masa chasis.
 4-wire. Case/body ground.
 4 fils. Masse au chassis.



18x1,5 mm

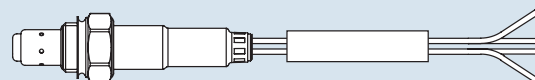
4
Zr

 Calentador
 Heater
 Rechauffeur

4
ohm

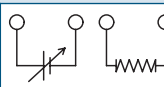
77009

UNIVERSAL

4 Cables. Aislado masa.
 4-wire. Isolated ground.
 4 fils. Isolée au masse.



18x1,5 mm

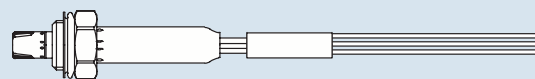
4
Zr

 Calentador
 Heater
 Rechauffeur

7
ohm

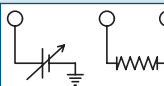
77010

UNIVERSAL

3 Cables. Con masa chasis.
 3-wire. Case/body ground.
 3 fils. Masse au chassis.

NISSAN
ROVER


12x1,25 mm

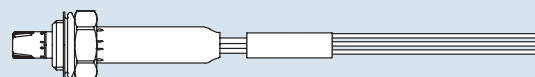
3
Ti

 Calentador
 Heater
 Rechauffeur

6,5
ohm

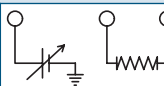
77011

UNIVERSAL

3 Cables. Con masa chasis.
 3-wire. Case/body ground.
 3 fils. Masse au chassis.

ALFA ROMEO
SAAB
VOLVO


18x1,5 mm

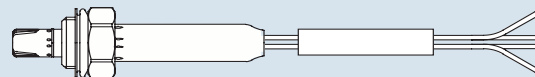
3
Ti

 Calentador
 Heater
 Rechauffeur

6,5
ohm

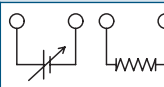
77013

UNIVERSAL

4 Cables. Aislado masa.
 4-wire. Isolated ground.
 4 fils. Isolée au masse.

BMW
FORD
GENERAL MOTORS
JAGUAR
ROVER
VOLVO


18x1,5 mm

4
Ti

 Calentador
 Heater
 Rechauffeur

4,9
ohm

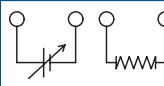
NEW 77015

UNIVERSAL

4 Cables. Aislado masa.
 4-wire. Isolated ground.
 4 fils. Isolée au masse.

BMW
FORD
GENERAL MOTORS
JAGUAR
ROVER
VOLVO


18x1,5 mm

4
Zr

 Calentador
 Heater
 Rechauffeur

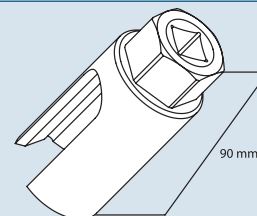
Planar



77020

UNIVERSAL

Llave
Wrench
Clé



22 mm

77021

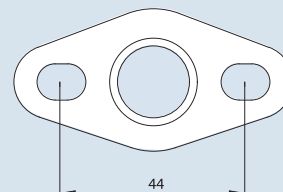
UNIVERSAL

Brida Ø 44.
Flange Ø 44.
Flangia Ø 44.

CHREVOLET

GENERAL MOTORS

TOYOTA



18x1,5 mm

77050

EXPOSITOR SONDAS LAMBDA UNIVERSALES DE CIRCONIO

El Expositor completo **Ref. FAE 77050**, está compuesto por 12 unidades, desglosadas con las siguientes Referencias:

- Ref. FAE 77001 :	2 unidades.	1 Cable	
- Ref. FAE 77002 :	1 unidad.	2 Cables	
- Ref. FAE 77004 :	4 unidades.	4 Cables. Aislado masa.	Calentador 4 ohm.
- Ref. FAE 77006 :	3 unidades.	3 Cables. Con masa chasis.	Calentador 7 ohm.
- Ref. FAE 77008 :	2 unidades.	4 Cables. Con masa chasis.	Calentador 4 ohm.



ZIRCONIA UNIVERSAL OXYGEN SENSORS EXHIBITOR

The complete exhibitor part number **FAE 77050** is composed by 12 pcs as follows:

- p/n. FAE 77001 :	2 pcs.	1-wire.	
- p/n. FAE 77002 :	1 pc.	2-wire	
- p/n. FAE 77004 :	4 pcs.	4-wire. Isolated ground.	Heater 4 ohm.
- p/n. FAE 77006 :	3 pcs.	3-wire. Case/body ground.	Heater 7 ohm.
- p/n. FAE 77008 :	2 pcs.	4-wire. Case/body ground.	Heater 4 ohm.

EXPOSEUR SONDAS LAMBDA UNIVERSELLES DE ZIRCONIUM

L'exposeur complet **Référence FAE 77050** est composé par 12 pièces comme il suit:

- Réf. FAE 77001 :	2 pièces.	1 fil.	
- Réf. FAE 77002 :	1 pièce.	2 fils.	
- Réf. FAE 77004 :	4 pièces.	4 fils. Isolée au masse.	Rechauffeur 4 ohm.
- Réf. FAE 77006 :	3 pièces.	3 fils. Masse au chassis.	Rechauffeur 7 ohm.
- Réf. FAE 77008 :	2 pièces.	4 fils. Masse au chassis.	Rechauffeur 4 ohm.





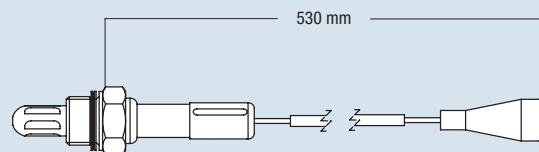
77100

Adatt. Universal 77001

AUDI	
80 1.8 Quattro, Sport	1987-92
JAGUAR	
XJ12 5.3 HE	1981-90
XJ6 4.0	1985-92
XJS 5.3 HE	1981-87
LANCIA	
Delta 1.6 ie, GT	1986-92
Prisma 1.5 ie, 1.6 ie	1986-89

RENAULT	
Espace 2.2i	1991-96
Fuego 2.2, 2.2 Turbo	1982-85
R-18 2.2	1983-86
R-25 2.2, 2.7, 2.9	1984-92
SAAB	
99 2.0 Turbo	1977-87

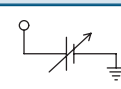
VOLKSWAGEN	
Caddy 1.8 (JH)	1985-92
Golf II 1.3i	1985-86
Golf II 1.6, 1.8	1983-92
Golf II 1.8i	1984-88
Jetta 1.6, 1.8, 1.8i	1985-92
Passat 1.6i, 1.8i	1989-92
Passat Van, Variant	1989-92
YUGO	
Florida 1.3i	1989-93
Yugo 1.3, 60, 65, EFI	1989-90



Reemplaza/Suitable: Bosch 0258 001 051
NTK OZA401-E2, OZA401-E50, OZA401-E51



1
Zr



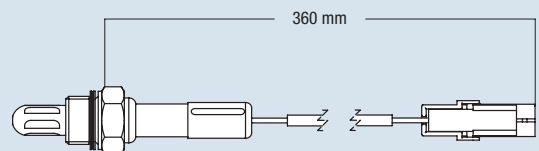
77101

Adatt. Universal 77001

CHEVROLET	
DAEWOO	
Aranos 1.5i 16V, 1.8i, 2.0i	1995-97
Espero 1.5i 16V, 1.8i, 2.0i	1995-97
Lanos 1.3i, 1.5i, 1.6i 16V	1997 ->
Leganza 2.0i 16V, 2.2i 16V	1997 ->
Nexia 1.5i, 1.5i 16V	1995-97
Nubira 1.6i 16V, 2.0i 16V	1998 ->
ISUZU	
JEEP	
HYUNDAI	
Accent	1994-97
Lantra II 1.5 12v	1997-98

OPEL	
Astra 1.4i, 1.6i, 1.8i, Van	1991-98
Campo 2.3	1992-96
Combo 1.4i, 1.6i GL	1991-96
Corsa 1.2i, 1.4i, 1.6i	1993-98
Corsa 1.4i 16V, 1.6i 16V	1994-00
Corsa Combo 1.4i	1994-99
Kadett 1.4i, 1.6i, Van	1986-92
Tigra 1.4i 16V, 1.6i 16V	1994-00
Vectra 1.6i, 1.8i	1988-95
Vectra 1.6i 16V	1995-00
SUZUKI	
Swift II	1984-96
Vitara 1.6 16v	1190-98

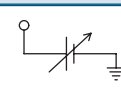
PONTIAC	
VAUXHALL	
Astra G 1.6	1998-00
SUBARU	
Justy II 1.3	1995-93



Reemplaza/Suitable: Bosch 0258 002 014
NTK OZA401-E6, 1882



1
Zr

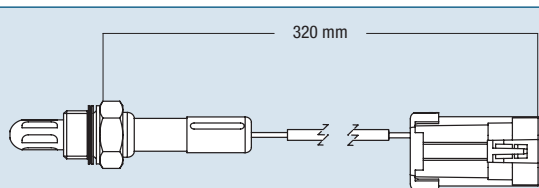


77102

Adatt. Universal 77001

HOLDEN	
Barina SB 1.6i	1994-95

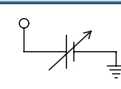
OPEL	
Astra F 1.6i 16V	1994-98
Astra F Classic 1.6i 16V	1998-02
Corsa B 1.4i 16V	1994-00
Corsa B 1.6 GSi 16V	1993-00
Corsa B 1.6i 16V	1994-00
Tigra 1.4 16V	1994-00
Tigra 1.4i 16V	1997-00
Tigra 1.6 16V	1994-98



Reemplaza/Suitable: G.M. 25163613
Opel 855332, 855314, 855321



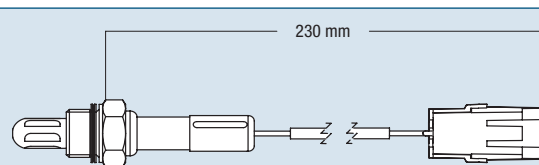
1
Zr



77103

Adatt. Universal 77001

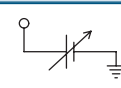
RENAULT	
Clio 1.2i (E7F-704)	1990-95
Clio 1.4i (E7J-716)	1990-98
Express 1.4 (E7J)	1991-98
R-19 1.4e (E7J)	1992-95
R-19 Chamade 1.4e	1992-95



Reemplaza/Suitable: Renault 7700 861 016



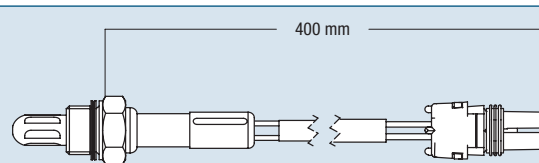
1
Zr



77104

Adatt. Universal 77002

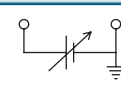
RENAULT	
Clio 1.2i (C3G)	1994-96
Express 1.2i (C3G-710)	1991-98
Twingo 1.2i (C3G-700)	1993-96
Twingo Van 1.2i	1993-96



Reemplaza/Suitable: Renault 7700 860 246
NTK OZA428-E1, 1807



2
Zr



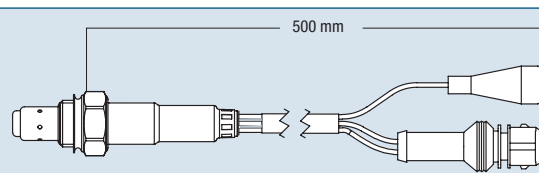
77105

Adatt. Universal 77003

AUDI	
A6 2.6i (ABC)	1994-97
A8 2.8i, Quattro	1994-96
Cabriolet 2.6i, 2.8i	1993-97
FIAT	
Coupe 2.0i 16V Turbo	1994-96

LANCIA	
Dedra 2.0 ie Turbo	1991-94
Delta 2.0 Turbo	1993-96
Delta HPE 2.0 ie 16V	1996-99
Delta HPE-HF 2.0i 16V	1993-96
PEUGEOT	
505 2.0i (XN6)	1985-87
505 2.2i, GTi, Turbo	1984-93

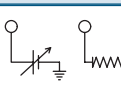
RENAULT	
Alpine 2.5i Turbo	1987-92
Espace 2.0i	1992-96
Espace 2.8i	1992-96
YUGO	
Florida 1.3i	1991-93
Yugo 1.3i, Cabrio, 65, EFI	1990-93



Reemplaza/Suitable: Bosch 0258 003 164, 0258 003 508, 510
NTK OZA446-E11, OZA446-E12, 1898, 1805



3
Zr

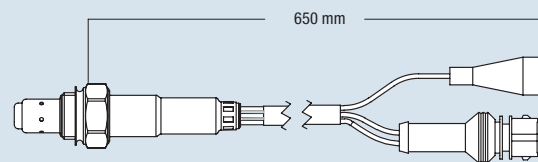




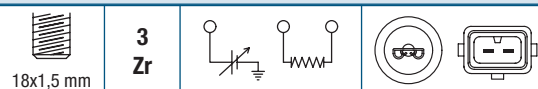
77106

Adatt. Universal 77003

ALFA ROMEO	FIAT	SAAB
155 2.0i Turbo 1992-96	Croma 2.0 ie, Turbo 1990-96	900 2.0 8V, 2.0 16V 1985-92
155 2.5 TD 1993-97	Panda 1.0 ie, 4x4 1987-91	VOLVO
FERRARI	Tempra 1.8 ie, 2.0 ie 1990-96	240 2.3 S.W. (B230F) 1984-88
Mondial 8 3.2 1986-88	Tipo 1.8 ie GT 1992-93	360 2.0 (B200F) 1986-90
Testarossa 4.9 1986-91	Tipo 2.0 ie, DGT, 16V 1990-93	740 2.0, S.W. (B200F) 1989-91
308 GTBi, GTSi. 3.0 1983-85	UNO 45 1.0 ie Van 1992-96	740 2.3, S.W. (B230F) 1988-94
328 GTB, GTS. 3.2 1985-89	LANCIA	
	Delta 1.6 ie Turbo 1986-92	
	Delta Integrale 2.0 Turbo 1987-94	
	Thema 2.0 ie 8V 1986-94	
	Y10 1.0 Fire ie, 4WD 1987-92	



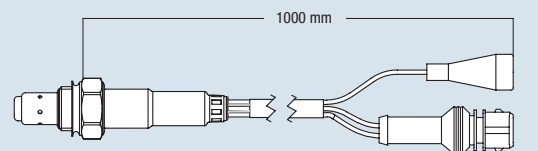
Reemplaza/Suitable: Bosch 0258 003 009, 0258 003 396, 281
NTK OZA446-E1, OZA446-E50, OZA448-E16



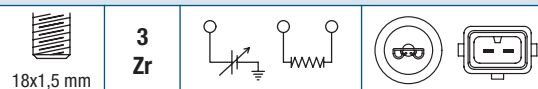
77107

Adatt. Universal 77003

AUDI	HYUNDAI	LANCIA
A6 2.0i (ACE, AAE) 1994-96	S-Coupe 1.5i, Turbo 1991-93	Dedra 1.6 ie, 1.8 ie, 2.0 ie 1989-94
Cabriolet 2.0i E, 2.0i 16V 1993-98	INNOCENTI	Delta 1.4 ie, 2.0 ie 16V 1993-96
Coupe 2.0, 2.2, 2.3 1992-96	Elba 1.4i, 1.5i, 1.6i 1992-97	Thema 2.0 16V, 2.9, 3.0 1988-92
80 2.0, 16V, 2.2, Quattro 1991-96	Mille Clip 1.4 1995-97	Y10 1.1, 1.3 ie 1989-95
100 2.0, 16V, Quattro 1991-94	JAGUAR	SEAT
FIAT	Sovereign 2.9, 3.2, 3.6. Cat. 1986-90	Ibiza. Malaga. 1.5 Injection 1987-93
Coupe 2.0i 16V 1994-96	Series XJ6 1986-94	VOLKSWAGEN
Fiorino 1.4 ie, 1.6 ie 1993-95	Series XJ12 1990-94	Golf II 1.8i, GTI, 16V 1984-91
Panda 1000 4x4, Van 1991-98	Series XJS 1986-88	Jetta 1.8i, GT, GTX, 16V 1984-91
Tempra. Tipo 1990-95		Passat 1.8i, 2.0i, Variant 1989-92
Uno 1989-94		



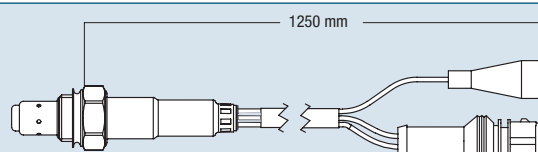
Reemplaza/Suitable: Bosch 0258 003 061, 0258 003 234, 019
NTK OZA446-E2, OZA446-E4, 1877, 1855



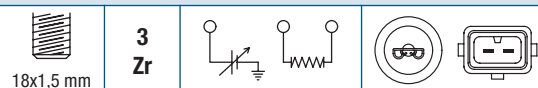
77108

Adatt. Universal 77003

ALFA ROMEO	AUDI	SAAB
75 1.6 ie 1987-92	DAIMER	SEAT
75 1.8 ie 1989-92	FERRAI	SKODA
75 2.0i Twin Spark 1987-92	FIAT	VOLKSWAGEN
75 2.5i V6 1986-92	HYUNDAI	VOLVO
75 3.0i V6, ES Coupe 1987-92	JAGUAR	
164 2.0i Turbo V6 1988-92	LANCIA	
164 2.0i Twin Spark 1988-92		
164 3.0i, Sport, Super 1987-92		
164 3.0i Q.V., Lusso 1990-93		
164 Super 2.0 Turbo 1992-98		
GTV 2.0i Turbo 1995-97		
Spider 2.0i 1990-92		



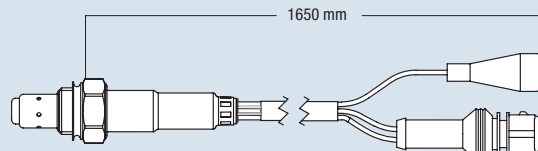
Reemplaza/Suitable: Bosch 0258 003 101, 0258 003 249, 554
NTK OZA446-E5, OZA446-E16, 1859



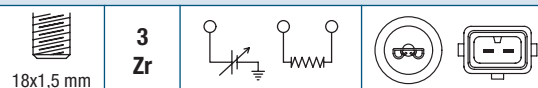
77109

Adatt. Universal 77003

ALFA ROMEO	VOLVO	VOLVO Cont.
33 1.3 ie 1991-95	240 2.0i Cat. 1991-93	780 2.8i Cat. 1987-91
33 1.5 ie 1990-95	240 2.3i Cat. 1988-93	940 2.0i Cat. 1992-93
33 1.7 ie 1987-95	440 1.6 Injection Cat. 1993-96	940 2.3i, 2.3i 16V 1990-93
33 1.7 Station Wagon 1987-90	440 1.7 Injection, Turbo 1988-96	960 2.8i Cat. 1990-91
	440 2.0 Injection Cat. 1992-96	
	460 1.7 Injection, Turbo 1991-96	
	460 2.0 Injection Cat. 1992-96	
	480 ES 1.7, Turbo. Cat. 1991-96	
	480 2.0 Injection Cat. 1992-96	
	740 2.3i, 2.3i 16V 1984-92	
	760 2.8i Cat. 1986-91	



Reemplaza/Suitable: Bosch 0258 003 034, 0258 003 060, 027
NTK OZA446-E49, 0291

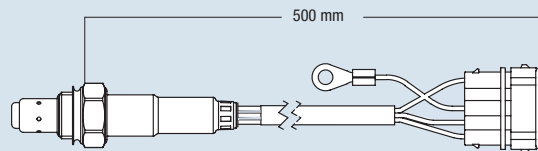


77110

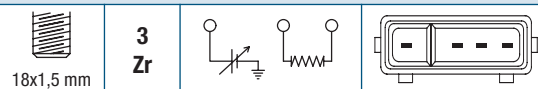
Adatt. Universal 77003

SEAT	VOLKSWAGEN
Ibiza 1.8i, SXE. (ADZ) 1993-99	Golf III 1.8i Ch->1HS120000 1992-97
	Golf III 1.8i (AAM, ABS) 1992-97
	Golf III Cabrio 1.8i 1993-98
	Golf III Variant 1.8i 1993-99
	Passat 1.8i (AAM) 1992-96
	Passat 1.8i (ABS) 1988-96
	Passat Variant 1.8i 1988-97
	Polo 1.3i Cat. (AAV) 1987-94
	Polo Coupe 1.3i Cat. 1987-94

Modelos sin Catalizador.
Modelos con Cambio Automático.
Models without Catalytic converter.
Models with automatic gear.



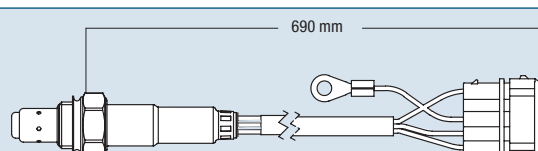
Reemplaza/Suitable: Bosch 0258 003 247, 0258 003 331, 273
NTK OZA445-E2, 1810



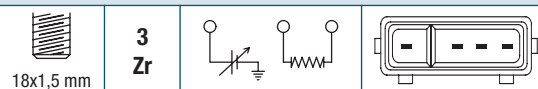
77111

Adatt. Universal 77003

VOLKSWAGEN
Corrado 1.8 G60 1988-93
Golf II 1.8 GTI 1990-93
Passat 1.8i 1989-93
Passat 2.0i 1989-96
Passat 2.0i 16V 1989-93
Passat Variant 1.8i 1989-93
Passat Variant 2.0i 1989-96
Passat Variant 2.0i 16V 1989-93

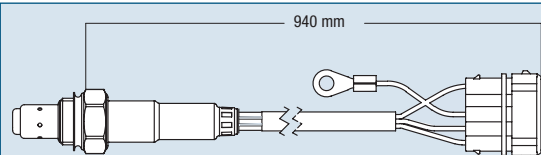


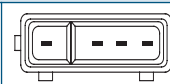
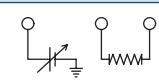
Reemplaza/Suitable: Bosch 0258 003 165, 169, 181, 207
NTK OZA446-E42, OZA 446-E52, 0226, 0150



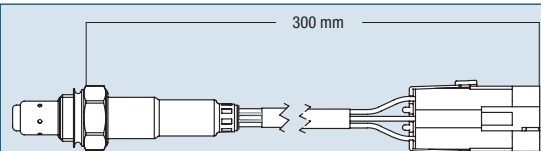

77112
Adatt. Universal 77003
VOLKSWAGEN

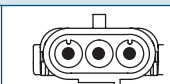
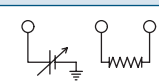
Golf II 1.3i	1989-92
Jetta 1.3i CL	1989-92
Polo 1.05i	1990-94
Polo 1.3i	1990-94
Polo 1.3i G40	1990-94
Polo Van 1.05i	1992-94


Reemplaza/Suitable: Bosch 0258 003 114
NTK OZA445-E4, 1850

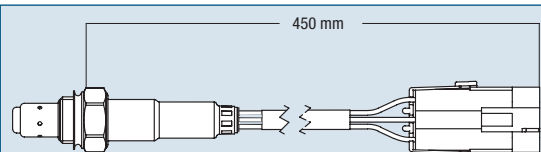
3
Zr

77113
Adatt. Universal 77006
RENAULT

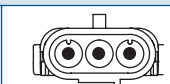
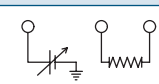
Clio 1.2i (E7F)	1993-98
Clio 1.4i (E7J)	1990-98
Clio Van 1.2i	1994-97
Express 1.4i	1991-98
Kangoo 1.4i	1997-98
R-19 1.4e, Chamade. (E7J)	1992-95


Reemplaza/Suitable: Renault 7700 864 987, 7700 872 820
NTK OZA55-R3, OZA311-R1, OZA236-R2

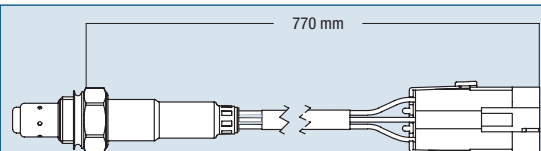
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77114
Adatt. Universal 77003
RENAULT

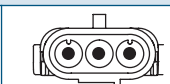
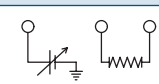
Clio 1.0i (D7D)	1999 ->
Clio 1.2i (D7F-720)	1996 ->
Clio Van 1.2i (D7F)	1998 ->
Kangoo 1.0i (D7D)	1998 ->
Kangoo 1.2i (D7F)	1998 ->
Kangoo Express 1.0i, 1.2i	1998 ->
Twingo 1.0i (D7D)	2000 ->
Twingo 1.2i (D7F)	1996-99

 Motores/Engines/Moteurs:
D7F-720, D7F-722

Reemplaza/Suitable: Bosch 0258 003 715
NTK OZA446-E57, 0472

3
Zr

77115
Adatt. Universal 77003
RENAULT

Kangoo 1.2i	1998 ->
Kangoo Express 1.2i	1998 ->
Kangoo Rapid 1.2i RLA	1998 ->

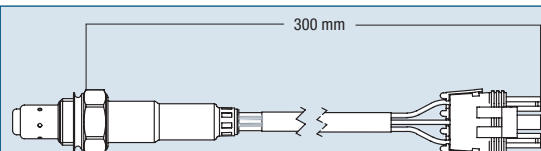
 Motores/Engines/Moteurs:
D7F-710.

Reemplaza/Suitable: Renault 77 00 101 345
Bosch 0258 003 892

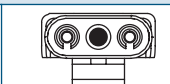
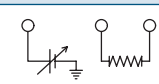
3
Zr

77116
Adatt. Universal 77006
RENAULT

Clio 1.4i (E7J-757)	1996-98
Laguna 1.8i (F3P)	1993-01
Laguna 2.0i (F3R)	1995-01
Laguna Break, Estate	1995-98
Laguna Grandtour 1.8i RT	1995-98
Megane 1.4i, 1.6i	1995-99
Megane Break 1.6i	1999-99
Megane Cabrio 1.6i	1997-99
Megane Classic 1.4i	1997-99
Megane Classic 1.6i	1996-99
Megane Coach 1.6i	1996-99

RENAULT Cont.

Safrane 2.0, 2.0 12V	1992-96
Safrane 2.2, 2.2 12V	1992-96
Safrane 3.0i (Z7X)	1992-96
Scenic 1.4i	1996-99
Scenic 1.6i	1996-99
Trafic 2.2 (J7T-600)	1994-96
Twingo 1.2i	1995-96

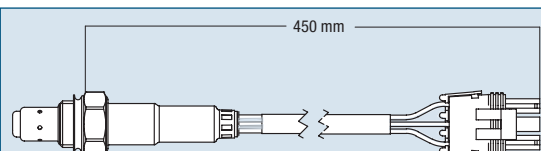

Reemplaza/Suitable: Renault 77 00 854 506, 867 295, 870 318
NTK OZA55-R1, OZA55-R4, OZA236-R1

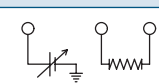
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Zr

77117
Adatt. Universal 77003
RENAULT

Alpine A610 3.0i Turbo	1991-95
Clio 1.2i (E7F-700,706)	1990-96
Clio 1.4i (E7J)	1990-94
Clio 1.8i (F3P)	1990-98
Clio 1.8i 16V (F7P)	1991-96
Clio 2.0i Williams	1990-96
Espace 2.0i (J7R-768)	1993-96
Espace 2.2i (J7T-772)	1993-96
Espace 2.8i (Z7W)	1994-96
Express 1.4i Cat.	1992-96
R-19 1.2i Cat.	1992-97

RENAULT Cont.

R-19 1.4i Cat.	1990-97
R-19 1.7i, Cabrio. (F3N)	1988-92
R-21 2.0i Cat.	1990-94
R-21 2.0i Turbo	1989-94
R-21 2.2i, Nevada	1993-94
R-21 Fastback, Nevada	1990-94
R-25 2.0i Cat.	1989-92


Reemplaza/Suitable: Bosch 0258 003 086, 0258 003 189
NTK OZA446-E8, OZA55-R2, 1827

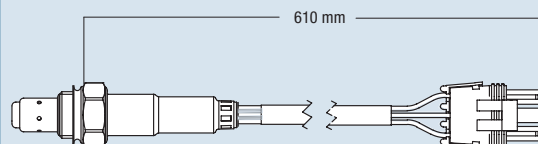
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77118

Adatt. Universal 77003

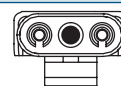
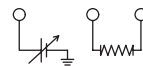
OPEL		
Frontera 2.0i, Sport (X20SE)	1992-98	
Frontera 2.2i 16V (X22XE)	1995-98	
Omega B 2.5i 24V (X25XE)	1994-00	
Omega 2.6i 24V	2000-02	
Omega 3.0i 24V (X30XE)	1994-01	
Omega 3.2i 24V	2001-02	
Sintra 3.0i 24V (X30XE)	1996-99	
Vectra 2.5i 24V V6	1995-00	
Vectra Wagon 2.5i V6	1996-00	



Reemplaza/Suitable: Bosch 0258 003 447, 003 448, 003 765
NTK OZA446-E40, 0193



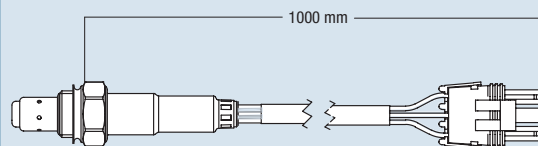
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Zr



77119

Adatt. Universal 77003

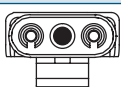
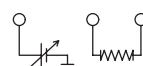
OPEL		OPEL Cont.		TATA	
Ascona C 1.8i Cat.	1982-86	Monza 3.0i	1985-86	Estate 2.0i 16V	1995 ->
Ascona C 2.0i	1986-88	Omega 2.4i, Wagon	1988-94	Sierra 2.0i 16V	1995 ->
Astra 2.0i	1993-94	Omega 2.6i	1989-92	VAUXHALL	
Astra 2.0i 16V GSI	1991-95	Omega 3.0i	1987-94		
Calibra 2.0i	1989-96	Omega 3.0i 24V	1988-94		
Calibra 2.0i 16V, 4x4	1989-96	Senator B 3.0i	1985-93		
Calibra 2.5i 24V V6	1993-98	Senator B 3.0i 24V	1989-93		
Corsa 1.6 GSI	1990-93	Senator B 3.6i	1989-93		
Frontera 2.4i 4x4	1992-98	Sintra 2.2i 16V	1996-99		
Kadett E 1.8i, GSI	1987-91	Vectra 2.0i	1988-95		
Kadett E 2.0i	1986-91	Vectra 2.5i 24V V6	1992-95		
Kadett E 2.0i GSI 16V	1988-92				



Reemplaza/Suitable: Bosch 0258 003 082, 003 139, 003 300
NTK OZA446-E6, 1861



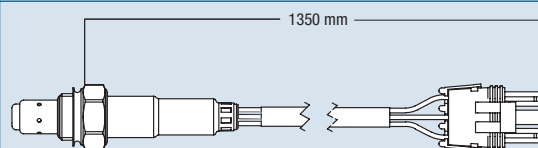
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77120

Adatt. Universal 77003

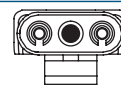
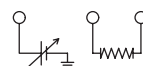
HONDA		OPEL		VAUXHALL	
Accord VII 3.0i V6 24V	1998 ->	Calibra 2.0i Turbo 4x4	1991-94		
Accord Coupe 3.0i V6	1998 ->	Frontera 2.0i 4x4	1991-95	VOLKSWAGEN COMM.	
		Omega 2.0i	1986-94	California Coach 2.0	1990-93
		Omega 2.6i	1989-92	California Coach 2.5	1990-93
		Omega 3.0i	1987-94	Eurovan 2.5	1996-96
		Vectra 2.0i 16V Turbo 4x4	1992-94		



Reemplaza/Suitable: Bosch 0258 003 021, 003 141, 003 243
NTK OZA446-E3, 1866



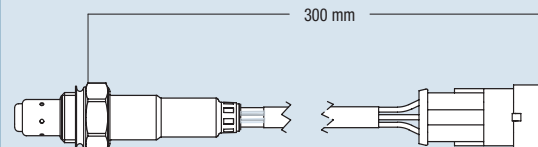
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77121

Adatt. Universal 77006

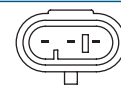
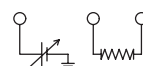
RENAULT		
Clio 1.4i (E7J)	1998-05	
Clio 1.6i (K7M)	1998-05	
Kangoo 1.4i (E7J)	1997 ->	
Kangoo Rapid 1.4i	1997 ->	
Kangoo Express 1.4i	1998 ->	



Reemplaza/Suitable: Renault 77 00 273 715
NTK OZA311-R2, 0126



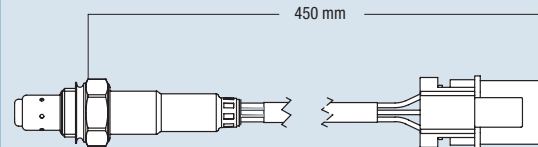
3
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77122

Adatt. Universal 77003

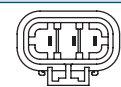
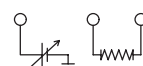
NISSAN		
Almera 1.4i 16V	1995-00	
Almera 1.6i 16V	1995-00	
Almera 2.0i GTi	1996-00	
Micra 1.0i 16V	1992-00	
Micra 1.3i 16V	1992-00	
Primera 1.6i	1993-96	
Primera Wagon 1.6i 16V	1993-98	
Primera Wagon 2.0i 16V	1994-98	
Sunny 1.4i 16V	1992-95	
Sunny 1.6i 16V, 4x4	1992-95	
100 NX 1.6i 16V	1992-94	
200 SX 1.8i, 2.0i	1994-00	



Reemplaza/Suitable: Bosch 0258 003 256, 0258 003 312, 852
NTK OZA446-E45, 0155



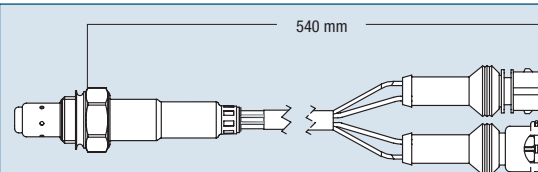
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77123

Adatt. Universal 77008

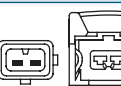
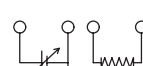
VOLVO		LANCIA	
850 2.0i 20V	1991-96	Y10 1.1 ie	1989-92
850 2.4i 24V	1991-96	Y10 1.1 ie 4WD	1989-92



Reemplaza/Suitable: Bosch 0258 003 120
VOLVO 3531075-4



4
Zr

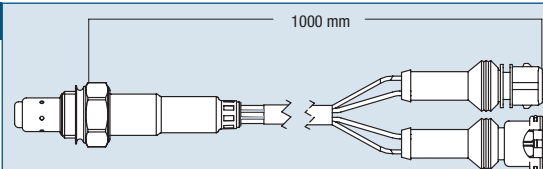




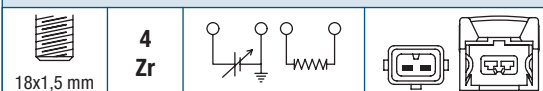
77124

Adatt. Universal 77008

FIAT		FIAT Cont.		LANCIA	
Cinquecento 900i	1992-94	Tempra 1.4 ie	1995-96	Dedra 1.6 ie	1993-94
Croma 2.0 ie	1991-96	Tempra 1.6 ie S.W.	1993-96	Delta 1.4 ie	1996-99
Croma 2.0i 16V	1992-96	Tempra 1.8 ie, S.W.	1993-96	Delta 1.6 ie	1993-96
Panda 900	1991-99	Tempra 2.0 ie S.W.	1993-96	Delta 1.8 ie	1993-99
Panda 1000 ie, Van	1991-99	Tipo 1.6 ie, S	1993-95	Thema 2.0, 2.0 Turbo	1992-94
Panda 1100 ie, Van	1991-99	Tipo 1.8 ie, SX	1993-95	Thema 2.0 ie 16V	1992-94
Punto 55 1.1i SPI	1993-96	Tipo 2.0 ie SLX, 16V	1993-95	Y10 1.1 ie, 4WD, Select	1993-95
Punto 60 1.2, 1.2i, SX	1993-99				
Punto 75 1.2i MPI	1993-96	FERRARI			
Punto Cabrio 1.2i	1994-98	348 TB, TS	1990-95		
Punto Turbo GT 1.4i MPI	1993-99	512 TR	1992-94		



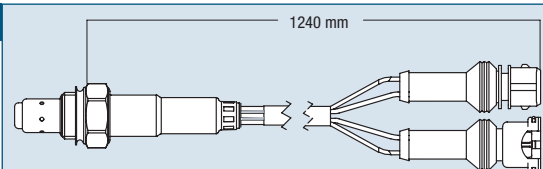
Reemplaza/Suitable: Bosch 0258 003 222, 0258 003 578
NTK OZA448-E, OZA527-E4, 218



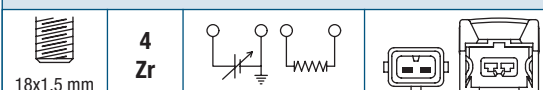
77125

Adatt. Universal 77008

ALFA ROMEO		FIAT		LANCIA	
155 1.7i Twin Spark	1993-96	Croma 2.5 ie	1993-96	Thema 3.0 ie	1992-94
155 1.8i Twin Spark	1992-96				
155 2.0i 16V	1993-95				
155 2.0i Twin Spark	1993-95				
155 2.5i V6	1992-95				
164 2.0i Twin Spark	1992-98				
164 3.0i, Lusso	1992-98				
164 Super 2.0i Twin Spark	1992-98				
164 Super 3.0i 12V, 24V	1992-98				



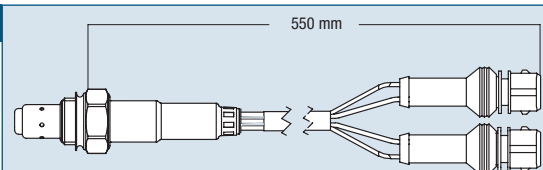
Reemplaza/Suitable: Bosch 0258 003 301
NTK OZA448-E5, OZA527-E5, 253



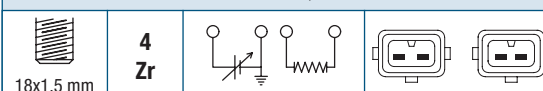
77126

Adatt. Universal 77008

CITROEN		PEUGEOT	
AX 1.4i, 1.4i Cat. ->N6629	1991-95	106 1.0i (TU9M)	1992-95
AZ 1.4 GTi ->N6629	1991-95	106 1.1i (TU1M)	1991-95
Xantia 1.6i ->N6679	1993-95	106 1.3i (TU2J2)	1993-95
Xantia 1.8i, 1.8i Cat., Break	1993-95	106 1.4i, 1.4i Cat.	1991-95
Xantia 2.0i, 2.0i Cat., Break	1993-95	106 1.4i XSi (TU3J)	1991-95
ZX 1.4i (TU3MZ)	1991-95	106 1.6i (TU5J2)	1994-95
		106 1.6i (TU5JP)	1993-95
		306 1.1i	1993-95
		306 1.4i	1993-95
		306 1.6i	1993-95



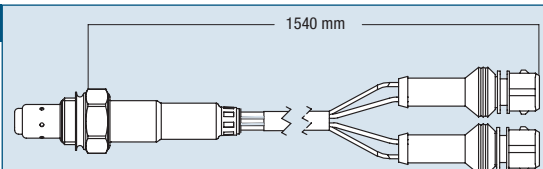
Reemplaza/Suitable: Bosch 0258 003 239
NTK OZA527-E2, OZA527-E12



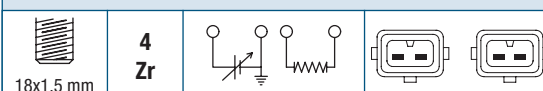
77127

Adatt. Universal 77008

CITROEN		CITROEN Cont.		PEUGEOT	
AX 1.0i, 1.0i Cat.	1992-95	ZX 1.8i Cat. ->N.6748	1992-95	Boxer 2.0i ->Ch.15267330	1994-95
AX 1.1i Cat. N.5293->6629	1991-95	ZX 1.9i Cat. ->N.6748	1991-95	306 1.8i Cat.	1993-95
AX 1.4i Cat. N.5293->6629	1991-95	ZX 2.0i, 2.0i Cat. ->N.6748	1992-95	306 2.0i, 2.0i Cat.	1993-95
C15E 1.1i Cat. N.5657-6743	1992-96	ZX 2.0i 16V ->N.6748	1992-95	306 2.0i 16V	1993-95
C15E 1.4i Cat. N.5657-6743	1992-96			405 1.4i Cat.	1992-95
Jumper 2.0i ->Ch.1526733	1994-95			405 1.6i Cat.	1992-95
Xantia 2.0i 16V, VSX, Break	1993-95	Ducato 10 2.0 ie	1994-96	405 1.8i Cat.	1992-95
XM 2.0i, Break	1991-94	Ducato 14 2.0 ie	1994-96	405 2.0i, 2.0i Cat.	1992-95
XM 2.0i Turbo, Break	1992-94	Ducato 18 2.0 ie	1994-96	405 2.0i MI16	1993-95
ZX 1.1i Cat. ->N.6808	1992-95	Ducato ->Ch.5267331	1994-96	605 2.0i, 2.0i Cat.	1991-94
ZX 1.4i Cat. ->N.6748	1992-95			605 2.0i Turbo	1992-94
ZX 1.6i Cat. ->N.6748	1992-95				



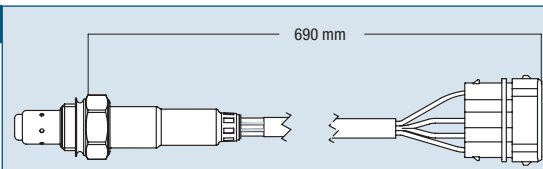
Reemplaza/Suitable: Bosch 0258 003 203, 0258 003 391
NTK OZA527-E3



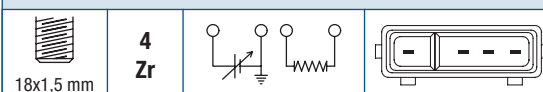
77128

Adatt. Universal 77008

SEAT		SKODA		VOLKSWAGEN	
Cordoba 1.4i (ABD)	1993-96	Favorit 1.3i (135i)	1994-95	Caddy 1.6i (AEE)	1996-97
Cordoba 1.6i (ABU)	1993-96	Favorit 1.3i (136i)	1993-95	Corrado 2.0i ->Ch.50-S	1993-95
Ibiza 1.0i (AER)	1996-99	Felicia 135, 136. (MPI)	1996-97	Corrado 2.9i VR6	1991-95
Ibiza 1.05i (AAU)	1993-96	Felicia 1.6i (AEE)	1995-97	Golf III 1.4i, Variant (ABD)	1991-95
Ibiza 1.3i (AAV)	1993-96	Pick up 135, 136. (MPI)	1996-97	Golf III 1.6i (ABU)	1992-94
Ibiza 1.4i (AEX)	1994-99	Pick up 1.6i (AEE)	1995 ->	Golf III 2.0i, Cabrio, Variant	1991-94
Ibiza 1.6i (ABU)	1993-94			Golf III 2.8i VR6	1992-94
Ibiza 2.0i (2E)	1993-96			Passat 2.0i 16V	1993-96
Toledo 2.0i	1994-96			Passat 2.8i	1989-96
Toledo 2.0i 16v	1994-95			Passat Variant 2.0i 16V	1993-97
				Passat Variant 2.8i	1989-97
				Vento 1.4i (ABD)	1992-95



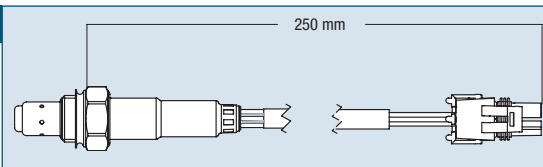
Reemplaza/Suitable: Bosch 0258 003 265, 003 439, 003 666, 267
NTK OZA572-E1, OZA572-E13, OZA527-E14



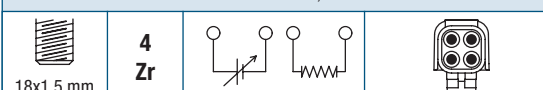
77129

Adatt. Universal 77004

RENAULT	
Espace 2.0i (F3R)	1996-00
Laguna 1.8i (F3P)	1995-98
Laguna 2.0i (F3R)	1993-95
Laguna Break, Grandtour	1995-98
Megane 2.0i (F3R)	1996-99
Megane Cabrio 2.0i	1996 ->
Megane Cabrio 2.0i 16V	1996 ->
Megane Classic 2.0i	1996 ->
Megane Coach 2.0i	1996 ->
Megane Coach 2.0i 16V	1996 ->
Scenic 2.0i (F3R)	1996-99



Reemplaza/Suitable: Bosch 0258 003 644
NTK OZA448-E43, 0282

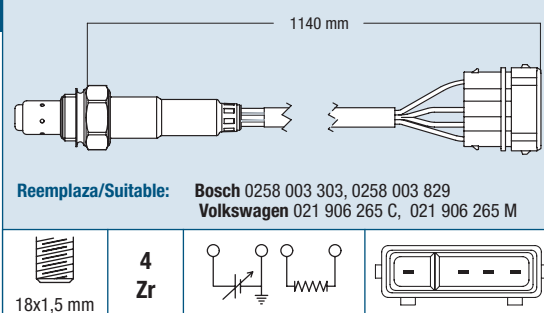




77130

Adatt. Universal 77008

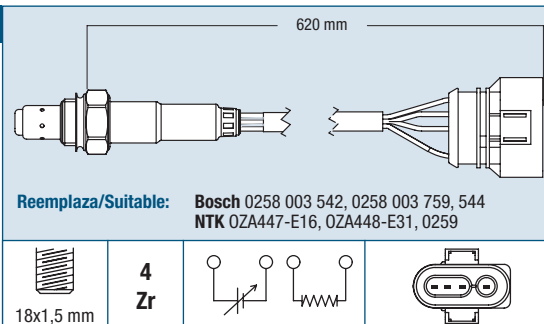
VOLKSWAGEN		CHRYSLER	
Corrado 2.9 VR6	1991-95	Jeep Cherokee 4.0i	1988 ->
Golf III 1.4i (ABD)	1991-95	Jeep Grand Cherokee	1991-99
Golf III 2.0i (2E)	1991-94		
Golf III 2.0i 16V (ABF)	1992-97		
Golf III 2.8i VR6 (AAA)	1992-96		
Passat 2.0i, GL, Syncro	1993-96		
Passat 2.8i (AAA)	1992-96		
Passat Variant 2.0i, Syncro	1993-96		
Passat Variant 2.8i	1992-93		
Vento 2.8 VRG	1992-98		



77131

Adatt. Universal 77004

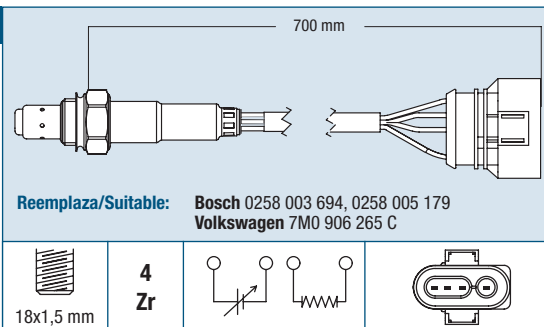
AUDI		SEAT		VOLKSWAGEN	
A4 2.4, Avant, Quattro	1997-00	Cordoba 1.6i, SX, Sport	1999-02	Caddy 1.4i (AEX)	1996-98
A6 1.8 (ADR)	1996-97	Cordoba Vario 1.6i	1999-00	Caddy 1.6i (AEE)	1996-98
A6 2.4i 30V	1997-98	Ibiza 1.4i (AEX)	1996-97	Golf III 1.4i (ABD)	1995-97
A6 2.8i 30V	1997-98	Ibiza 1.4i 16V (AFH)	1996-99	Golf III 1.6i (AEA, AEE)	1994-97
A6 Avant, Quattro	1998-98	Ibiza 1.6i, SXE (AEE, 1F)	1996-99	Golf III 1.8i, CL (AAM)	1994-97
A8 2.8i 30V, Quattro	1995-98	Ibiza 1.6i (ALM)	1999-02	Passat 2.8i V6, Syncro	1996-00
		Ibiza 1.8i, SXE	1996-99	Passat Variant 2.8i	1996-00
				Polo 1.0i	1996-99
				Polo Variant 1.4i, 1.6i	1997-99



77132

Adatt. Universal 77004

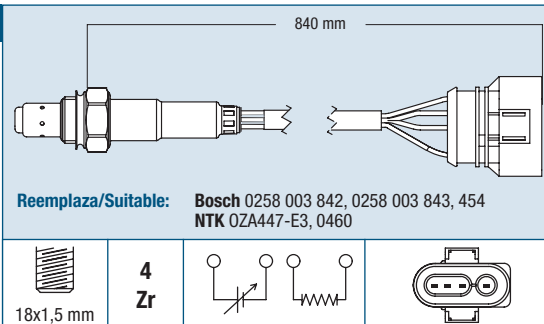
AUDI		FORD		VOLKSWAGEN	
A4 2.4i 30V	1998-98	Galaxy 2.8i V6, 4x4 (AAA)	1996-00	Passat 2.8i 30V	1999 ->
A4 2.8i 30V	1998-98	Galaxy 2.8i V6 (AMY)	1998-00	Passat Variant 2.8i 30V	1999 ->
A4 Avant, Quattro	1998-98			Sharan 2.8i VR6 (AAA)	1997-00
A6 Avant, Quattro	1998-98			Sharan 2.8i VR6 (AMY)	1998-00
A6 Avant Quattro 30V	1998-98				
A6 2.7i 30V, Quattro	1998-98				
A8 2.8i 30V, Quattro	1998-98				
S4 2.7i 30V	1997-98				
S4 Avant, Quattro. 30V	1997-98				



77133

Adatt. Universal 77004

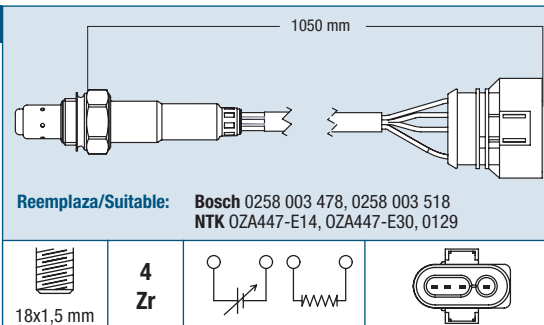
SEAT		VOLKSWAGEN	
Ibiza 1.0i (AER)	1996-99	Caddy 1.4i (AEX, AKV)	1996-01
Ibiza 1.4i (AEX)	1996-99	Golf III 2.8i VR6 (AAA)	1995-97
Inca	1995-99	Passat 2.8i VR6 (AAA)	1993-96
Ch. 6K-V-165001 ->		Passat Variant 2.8i VR6	1993-97
		Polo 1.4i (AEX)	1995-97
		Polo Classic 1.4i	1996-01
		Polo Variant 1.4i	1997-01
		Sharan 2.8i VR6, Syncro	1996-00
		Transporter 2.8i VR6 (AES)	1996-00



77134

Adatt. Universal 77004

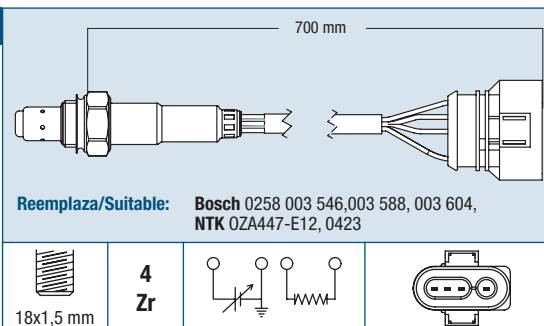
AUDI		VOLKSWAGEN	
A3 1.8i 20V, Quattro	1996-00	Passat 1.6i	1997-00
A4 1.6i, Avant	1999-00	Passat 1.8i 20V	1997-00
A6 1.8i 20V, Avant	1998-00	Passat 2.0i	1997-00
Cabriolet 1.8i 20V	1997-00	Passat Variant	1997-00
		Polo 1.0i	1994-97
		Polo 1.3i	1994-97
		Polo 1.4i	1995-97
		Polo 1.4i 16V	1996-99
		Polo 1.6i	1994-99



77135

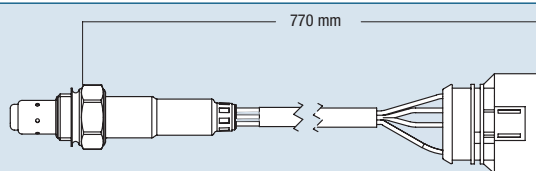
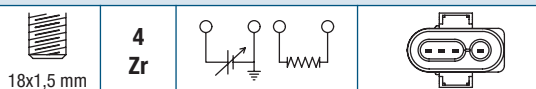
Adatt. Universal 77008

SEAT		VOLKSWAGEN		VOLKSWAGEN	
Ibiza 1.6 GTI (AFT)	1996-99	Corrado 2.0i Ch.50-S->	1993-95	Vento 1.6, 2.0	1194-98
Toledo 1.6i, 1.8i	1993-99	Corrado 2.9i VR6 (ABV)	1993-95		
		Golf III 1.6i	1996-97		
		Golf III 2.0i, GL	1994-97		
		Golf III 2.8i VR6 (AAA)	1994-96		
		Golf III Cabrio 1.6i, 2.0i	1994-98		
		Golf III Variant 1.6i, 2.0i	1996-99		
		Passat 1.6i, Variant	1994-96		
		Passat 2.0i, Syncro, Variant	1993-96		
		Polo Variant 1.6i (AFT)	1997-01		
		Transporter 2.0i (AAC)	1990-03		
		Transporter 2.5i, Syncro	1992-03		

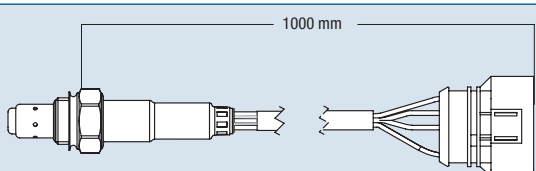
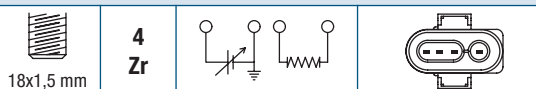



77136
Adatt. Universal 77008

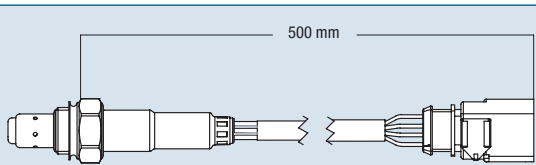
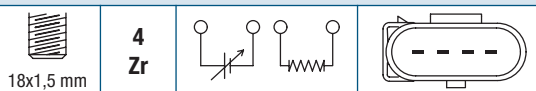
SEAT		VOLKSWAGEN	
Ibiza 2.0i 16V GTI (ABF)	1996-99	Corrado 2.0i 16v	1991-95
Cordoba 2.0i 16v	1996-99	Golf III 2.0i 16V	1994-97
Toledo 2.0i 16v	1993-99	Golf III Ch. 1H-S-120->	1994-97
		Passat 2.0i 16V	1994-96
		Passat Variant 2.0i 16V	1994-97
		Passat Ch. 3A-S-075001->	1994-97


Reemplaza/Suitable: Bosch 0258 003 584
Volkswagen 021 906 265 K, 037 906 265 S

77137
Adatt. Universal 77008

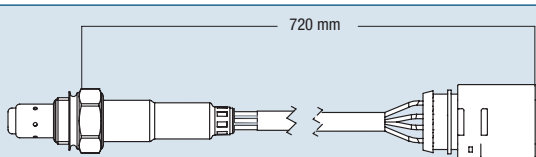
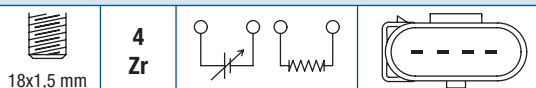
SEAT		VOLKSWAGEN		VOLKSWAGEN Cont.	
Alhambra 2.0i	1996-99	Golf III 1.6i (AFT)	1995-96	Sharan 2.0i Ch.7M-T-036->	1996-00
Cordoba 1.6i, 2.0i	1996-99	Golf III 2.0i, Syncro	1994-97	Transporter 2.5i, Syncro	1996-03
Ibiza 1.6 GTI (AFT)	1996-99	Golf III 2.8i VR6, Syncro	1994-96	Vento 1.6i (AFT)	1995-96
Ibiza 2.0i (AGG)	1994-96	Golf III Cabrio 1.6i, 2.0i	1994-96	Vento 2.0i (ADY)	1994-96
Toledo 1.6i, 2.0i	1996-99	Golf III Variant 1.6i, 2.0i	1994-97	Vento 2.8i VR6	1994-95
		Passat 2.0i, Syncro	1990-96		
		Passat 2.8i VR6 (AAA)	1991-96		
		Passat Van 2.0i CL	1993-96		
		Passat Variant 2.0i, Syncro	1991-97		
		Passat Variant 2.8i VR6	1991-97		
		Polo 1.6i, Classic, Variant	1995-01		


Reemplaza/Suitable: Bosch 0258 003 548, 003 549
NTK OZA572-E11, OZA447-E20

77138
Adatt. Universal 77004

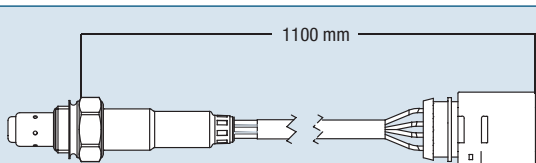
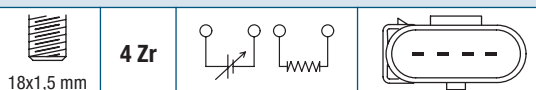
AUDI		SKODA		VOLKSWAGEN	
A3 1.6i (AEH, AKL)	1996-00	Octavia 1.6 (AEH, AEE)	1996-00	Bora 1.6i (AEH)	1998-05
		Octavia 1.6i (AEE)	2000 ->	Bora Variant 1.6i (AEH, AKL)	1998-05
		Octavia Kombi 1.6 (AEH)	1998 ->	Golf IV 1.6i (AKL)	1997-00
		Octavia Kombi 1.6i (AEE)	2000 ->	Golf IV Variant 1.6i	1999-00
				Lupo 1.4i 16V (AHW)	1998-05
				Polo 1.6i 16V	1998-99


Reemplaza/Suitable: Bosch 0258 005 079, 0258 005 219
NTK OZA447-E17

77139
Adatt. Universal 77004

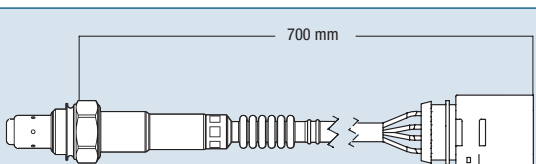
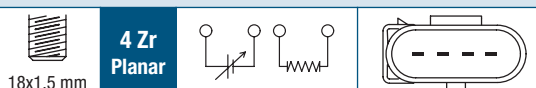
AUDI		SKODA		VOLKSWAGEN	
A3 1.6i (AEH)	1996-00	Octavia 1.6i (AEE)	1996-00	Bora 1.8i 20V, Variant	1998-00
A3 1.8i 20V, Quattro	1996-00	Octavia 1.6i, Kombi. (AEH)	1997 ->	Bora 1.8i Turbo, Variant	1999-00
		Octavia 1.8i, Kombi. (AGN)	1997 ->	Bora 2.3i VR5, Variant	1998-05
		Octavia 1.8i 20V (AGU)	1998-00	Golf IV 1.4i 16V (AHW)	1997-05
		Octavia Kombi 1.8 T	1998-00	Golf IV 1.8i 20V, Turbo	1997-00
				Golf IV 2.3i V5	1997-05
				Lupo 1.0i	1998-05
				Lupo 1.4i 16V	1998-05
				Polo 1.0i	1996-99
				Polo 1.4i, Comfort	1995-99
				Polo 1.4i 16V	1996-01
				Polo 1.6i 16V	1998-99


Reemplaza/Suitable: Bosch 0258 003 846, 005 081, 115, 143
NTK OZA447-E32, OZA447-E18, 0471

77140
Adatt. Universal 77004

SKODA		VOLKSWAGEN	
SuperB 2.0i (AZM)	2002 ->	Golf IV 1.8i 4Motion (AGN)	1998-05
		Golf IV Variant 1.8i 20V	1999-05
		Passat 1.6i (ANA)	1996-00
		Passat 1.6i (ALZ)	2000-05
		Passat 2.0i, 4Motion (AZM)	2000-05
		Passat Variant 1.6i	1997-05
		Passat Variant 2.0i	2000-05
		Polo 100 1.4i 16V (AFH)	1996-99
		Polo 75 1.6i (AHS, AEE)	1994-99


Reemplaza/Suitable: Bosch 0258 005 123
NTK OZA516-AU1

77141
Adatt. Universal 77015

SEAT		SKODA		VOLKSWAGEN	
Arosa 1.0i (ALD)	1997-00	Octavia 1.8 T, Break, 4x4	1997 ->	Bora 2.0i, Variant. (AZH)	2000-05
Arosa 1.4i (AKK)	1997-00	Octavia Kombi 2.0i (AZH)	1999 ->	Golf IV 2.0i, Variant, 4Motion	2000-05
Leon 1.8i 20V T (APP)	2000 ->	Octavia RS 1.8 T	2001 ->	Lupo 1.0i (ALD)	1998 ->
				Polo 1.0i (ALD)	1999-01
				Polo 1.4i (AKK)	1999-01

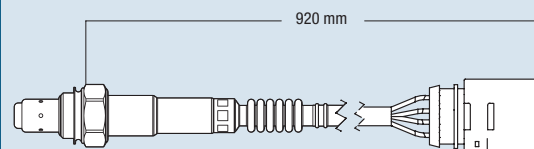

Reemplaza/Suitable: Bosch 0258 006 249, 0258 006 334, 422
NTK OZA659-EE40, 1627




77142

Adatt. Universal 77015

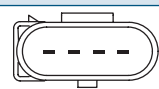
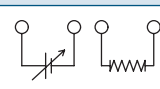
AUDI		SEAT		VOLKSWAGEN	
A3 1.8i 20V, Quattro	1998-01	Cordoba SX 1.8i 20V	1999-02	Bora 2.3 V5, Variant	2000-05
TT Cabriolet (AJQ)	2000-01	Ibiza 1.8i 20V, Cupra	1999-02	Golf IV 2.3i V5 (AQN)	2000-05
TT Coupe 1.8 T (AJQ)	1998-01	Leon 1.8 20v T4	1999 ->	New Beetle 2.0i (AQY)	1998 ->
TT Roaster (AJQ)	1999-01	Toledo II 2.3 v5	2001-06	New Beetle 2.0i (AEG)	1998 ->
				New Beetle 2.3 V5	2000 ->



Reemplaza/Suitable: Bosch 0258 006 039, 0258 006 452, 213
VW 022 906 262 S, 06A 906 265 N



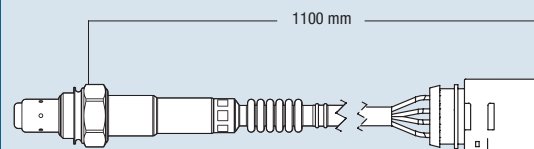
4 Zr
Planar



77143

Adatt. Universal 77015

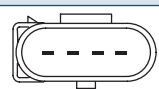
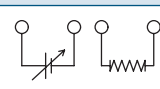
AUDI		SKODA		VOLKSWAGEN	
A3 1.6i (AEH,AKL)	1996-00	Octavia 1.6i (AEH, AKL)	1997 ->	Bora 1.6i, Estate. (AKL)	1998-05
SEAT		Octavia 1.6i Kombi (AEH)	1998 ->	Bora 2.0i (APK, AQY)	1998-05
Cordoba SX 1.8i 20V	1999 ->	Octavia 2.0i (AEG,AQY,APK)	1999 ->	Bora Variant 1.6i	1998-05
Ibiza 1.8i 20V, Cupra	1999-02	Octavia 2.0i Kombi	1999 ->	Bora Variant 2.0i	1999-05
Leon 1.6i (AKL)	1999 ->			Golf IV 1.6i, Variant	1997-00
Toledo 1.6i (AEH, AKL)	1999-00			Golf IV 2.0i (APK, AQY)	1998-05
				Golf IV 2.0i Variant	1999-05
				Jetta III 2.0i	2005 ->
				Nuevo Beetle 2.0	1998 ->
				Sharan 2.0	1997 ->



Reemplaza/Suitable: Bosch 0258 006 163, 0258 006 245, 261
VW 06A 906 262 AC, AK, 6 KO 906 262 B



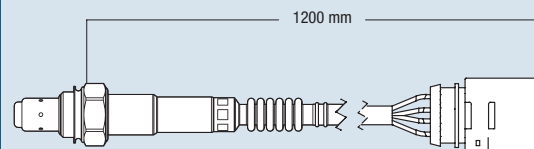
4 Zr
Planar



77144

Adatt. Universal 77015

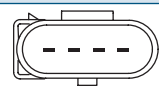
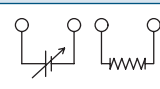
AUDI		VOLKSWAGEN	
A4 1.8i	1995-00	Golf IV 1.6i (AEH, AKL)	1997-00
A4 1.8i 20V	1995-00	Golf IV Variant 1.6i	1999-00
A4 1.8i T	1995-00	New Beetle 2.0i (BER)	2003 ->
A4 Avant	1996-01	Passat 1.8i 20V	1996-00
A4 Quattro 1.8i	1995-00	Passat 2.0i	1996-00
A4 Quattro 1.8i 20V	1995-01	Passat Variant 1.8i 20V	1997-00
A6 Avant Quattro 1.8i	1998-05	Passat Variant 2.0i	1997-00
A6 Quattro 1.8i 20V	1998-05		



Reemplaza/Suitable: Bosch 0258 006 261, 0258 006 307, 582
VW 058 906 265 B, 06A 906 262 AK



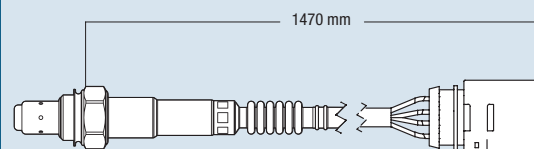
4 Zr
Planar



77145

Adatt. Universal 77015

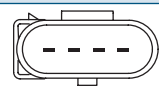
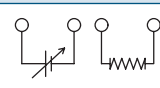
SEAT		VOLKSWAGEN	
Cordoba 1.0i Stella (ANV)	1999-02	Bora V5, V6	2000-05
Cordoba 1.4i (ANW)	1999-02	Golf IV V5, V6	1999-05
Cordoba 1.6i (APF)	1999-02	New Beetle RSI	2000 ->
Cordoba Vario 1.4i	1999 ->	Polo 60 1.4i (ANW,AUD)	1996-01
Cordoba Vario 1.6i	1999 ->	Polo 100 1.6i (APF,AUR)	1996-01
Ibiza 1.0i (AUC)	1999-02	Polo Variant 1.4i	1997-01
Ibiza 1.4i (ANW, AUD)	1999-02	Polo Variant 1.6i	1997-01
Ibiza 1.6i (APF)	1999-02		
Inca 1.4i	1995-99		



Reemplaza/Suitable: Bosch 0258 006 239
VW 06A 906 262 AQ, 06A 906 262 B



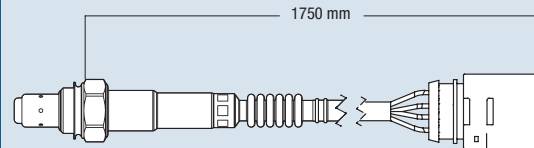
4 Zr
Planar



77146

Adatt. Universal 77015

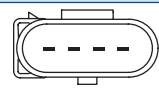
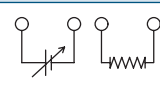
SEAT		VOLKSWAGEN	
Arosa 1.0, 1.0i. (AUC,ANV)	1997-02	Lupo 1.0i (ANV,AUC)	1998-02
Arosa 1.4, 1.4i (AUD)	1997-02	Lupo 1.4i (AUD)	2000-02
		Polo 1.0i (AUC)	1999-01
		Polo 1.4i (AKP,AUD)	1999-01
		Polo 1.6i 16V GTI	1999-01



Reemplaza/Suitable: Bosch 0258 006 219, 0258 006 221
NTK OZA659-EE16, OZA659-EE20



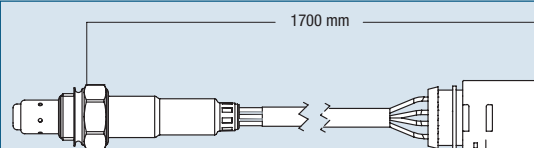
4 Zr
Planar



77147

Adatt. Universal 77004

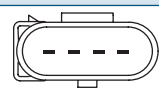
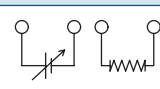
SEAT		VOLKSWAGEN	
Arosa 1.4i 16V (AQQ)	1998 ->	Lupo 1.4i 16V (AUA,BBY)	1998-05
Cordoba 1.4 16V	2002 ->	Lupo 1.4i 16V (AUB,AQQ)	1999-05
Ibiza 1.4 16V	2002 ->	Polo 1.4i 16V (AUA)	1999-01
		Polo 1.4i 16V (AUB)	1999-01



Reemplaza/Suitable: VW 030 906 262 C, 036 906 262 M
NTK OZA510-V1, OZA510-V2, OZA510-V7

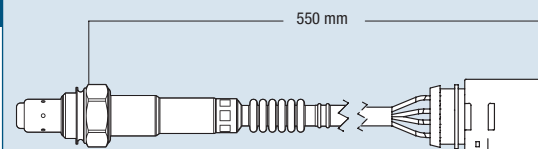


4 Zr

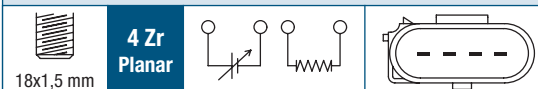


77148

AUDI		SKODA		VOLKSWAGEN	
A3 S3 Quattro 1.8i 20V	1998 ->	Fabia 1.0, 1.0i. (AQV,ATY)	2000 ->	Bora 1.4i 16V, Estate	1998-05
SEAT		Fabia 1.4, 1.4i. (AQW,ATZ)	2000 ->	Bora 1.6i (AVU)	1999-05
Cordoba 1.0i Stella	1999-02	Fabia 2.0i, Kombi	2000 ->	Bora 2.0i	1998-05
Cordoba 1.0i 16V (AVZ)	2000-02	Octavia 1.4i, Kombi (AXP)	2000 ->	Bora Variant 1.4i 16V	1999-05
Cordoba 1.4i, Vario	1999-02	Octavia 1.6i, Kombi. (AVU)	2001 ->	Bora Variant 1.6i	1999-05
Cordoba 1.6i, Vario	1999-02	Octavia 1.8 T, Kombi (ARZ)	1997 ->	Bora Variant 2.0i	1999-05
Cordoba SX 1.6i Sport	1999-02	Octavia Kombi 2.0i	1999 ->	Golf IV 1.4i	2000-05
Ibiza 1.0i	1999-02			Golf IV 1.4i 16V, Variant	1999-05
Ibiza 1.4i, 1.6i	1999-02			Golf IV 1.8i	1999-05
Leon 1.8i 20V, T	1999 ->			Golf IV 2.0i	1999-05
Toledo 1.8i 20V	1999-06			Polo 1.4i, Variant	1996-01
				Polo 1.6i, Variant	1996-01

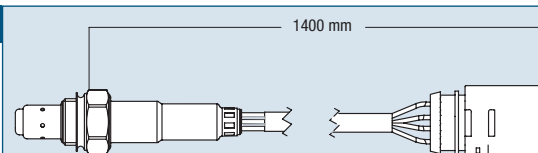


Reemplaza/Suitable: Bosch 0258 006 229, 0258 006 255, 237
NTK OZA659-EE14, OZA659-EE18, OZA659-EE19

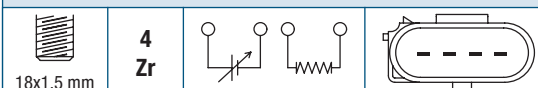


77149

SEAT		VOLKSWAGEN	
Cordoba 1.4i 16V (APE)	1999-02	Caddy II 1.4 16V	2000-04
Cordoba SX 1.4i 16V (AQQ)	2000-02	Polo 75 1.4i 16V	1999-01
Cordoba Vario 1.4i 16V	1999-02	Polo Variant 1.4i 16V	1999-01
Ibiza 1.4i 16V (APE)	2000-02		
Ibiza 1.4i 16V (AQQ)	1999-02		
Inca 1.4 16V	2000-02		

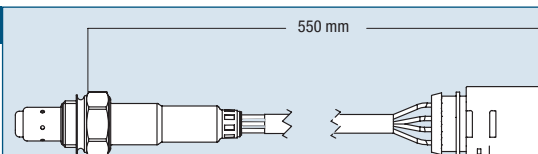


Reemplaza/Suitable: **Seat-VW 6K0 906 262 A**
NTK OZA510-V3, 0413

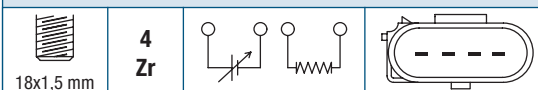


77150

VOLKSWAGEN		SEAT	
Bora 1.6i	1999-05	Leon 1.6 16V	2000 ->
Bora 1.6i 16V	1999-05	Toledo II 1.6 16V	2000-06
Bora Variant 1.6i	1999-05		
Bora Variant 1.6i 16V	1999-05		
Golf IV 1.6i	2000-05		
Golf IV 1.6i 16V	2000-05		
Golf Variant 1.6i 16V	2000-05		

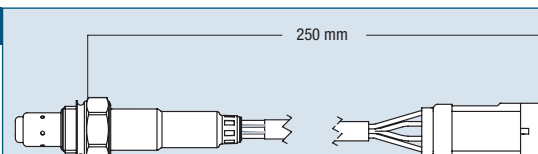


Reemplaza/Suitable: **Seat-VW 6K0 906 262 F**
NTK 0ZA510-V4. 0424

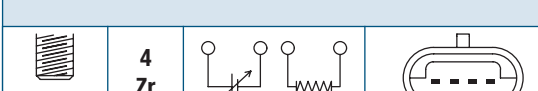


77151

RENAULT		DACIA	
Clio 1.4i (E7J)	1999-02	Logan 1.4, 1.6	2004 ->
Clio 1.4i RTE	1999-02	Logan 1.6 161V	2006 ->
Clio 1.6i (K7J)	2000-02	Logan MCV	2007 ->
Kangoo 1.4i (E7J)	1998-02	Sandero 1.4, 1.6	2008 ->
Kangoo 1.6i (K7J)	2000 ->		
Kangoo Express 1.4i, 1.6i	1998-02		
Megane 1.4e (E7J)	1996-02		
Megane Break 1.4i	1999-02		
Megane Classic 1.4e	1996-02		

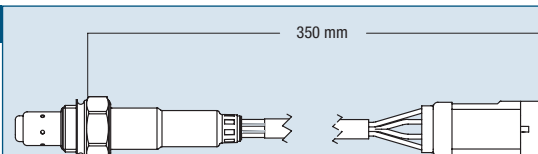


Reemplaza/Suitable: Renault 7700 103 504, 7700 109 844

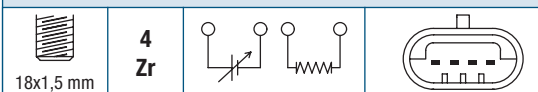


77152

RENAULT	
Clio 1.6i (K7J700)	1999 ->
Kangoo 1.6i (K7J)	2000 ->
Laguna 1.6i 16V	1998-01
Laguna 1.8i 16V	1998-01
Laguna Break, Grandtour	1998-01
Laguna Estate 1.6i 16V	1998-01
Laguna Estate 1.8i 16V	1998-01
Megane Cabrio 1.6i 16V	1997-01
Megane Classic 1.6i 16V	1997-01
Megane Classic 2.0i 16V	1999 ->
Scenic 2.0i 16V	2000-03

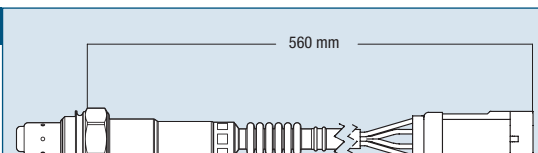


Reemplaza/Suitable: **Bosch** 0258 005 134
Renault 7700 107 438, 7700 274 190

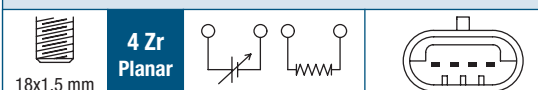


77153

OPEL		RENAULT		RENAULT Cont.	
Vivaro Autobus 2.0i 16V	2001 ->	Clio 1.4i 16V (K4J) 726	1999 ->	Megane 1.6i (K4M)	1997-01
Vivaro Furgon 2.0i 16V	2001 ->	Clio 1.6i (K4M)	2000 ->	Megane 1.6i 16V (K4M)	1999 ->
NISSAN		Clio 1.6i 16V (K4M)	1998 ->	Megane 1.8i 16V (F4P)	1999 ->
Kubistar 1.2	2003 ->	Clio 2.0i 16V (F4R)	2000 ->	Megane 2.0i 16V (F4R)	1999 ->
Kubistar 1.6 16V	2003 ->	Espace 2.0i 16V	1998 ->	Modus 1.6	2004 ->
Primastar	2003 ->	Kangoo 1.2i, Express (D7F) 726	1998 ->	Scenic 1.4i 16V (K4J)	1999 ->
		Kangoo 1.6i 16V (K4M)	2000 ->	Scenic 1.6i 16V (K4M)	1999 ->
		Laguna 1.6i 16V (K4M)	1997 ->	Scenic 1.8i 16V (F4P)	2001 ->
		Laguna 1.8i 16V (F4P)	1998 ->	Scenic 2.0i 16V (F4R)	2000 ->
		Laguna Break, Grandtour	1997 ->	Traffic 2.0	2001 ->
		Laguna 2.0i 16V (F4R)	1999 ->	Twingo 1.2i (D7F)	1998 ->



Reemplaza/Suitable: Bosch 0258 006 046
NTK OZA277-R2, OZA659-EE6, 0468



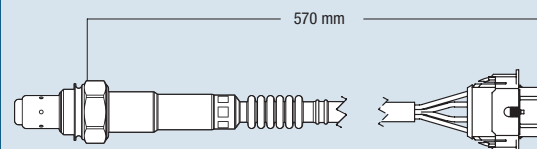


77154

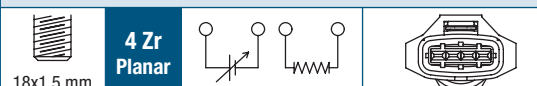
Adatt. Universal 77015

OPEL	OPEL Cont.	
Aglia 1.0i 12V (Z10XE)	2000 ->	2000-03
Astra 1.2i 16V (Z12XE)	2000-03	2001-03
Astra 6 1.4	2003-05	2004 ->
Astra H 1.2, 1.4	2004 ->	
Astra Coupe 2.0 Turbo	2000-01	
Astra Wagon 1.2i 16V	2000-03	
Combo 1.2i 16V	2000-03	
Combo 1.4	2004 ->	
Corsa C 1.2i 16V (Z12XE)	2000-0	
Corsa C 1.2	2004 ->	
Corsa Van 1.2i 16V	2000-03	
Meriva 1.4	2004 ->	

VAUXHALL



Reemplaza/Suitable: Bosch 0258 006 171, 0258 006 387
Opel 855355, 855385

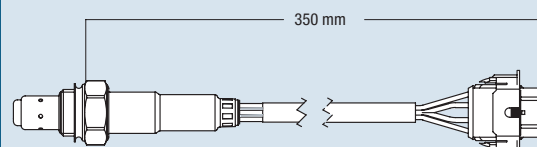


77155

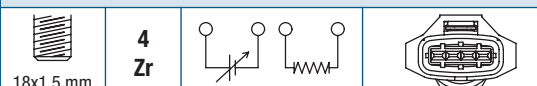
Adatt. Universal 77004

OPEL	
Astra 1.6i (Z16SE)	2000 ->
Astra Break 1.6i	2000 ->
Astra Van 1.6i	2000 ->
Astra G 1.4 16V	1998-05
Combo 1.6	2001 ->
Combo 1.6i (Z16SE)	2000 ->
Corsa C 1.4	2000 ->
Meriva 1.6, 1.6 16V	2003 ->
Vectra C 1.6 16V	2004 ->
Zafira 1.6 16V	1999-05

VAUXHALL



Reemplaza/Suitable: Bosch 0258 005 225
Opel 855366

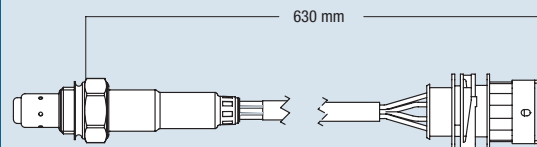


77156

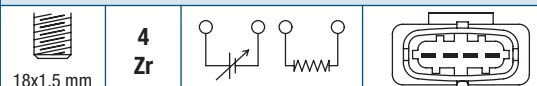
Adatt. Universal 77004

OPEL	
Astra 1.2i 16V, Break	1998-00
Astra 1.4i 16V, Break	1998-05
Astra 1.6i 16V, Break	1998-05
Astra Cabrio 1.6i 16V	2001-05
Astra Van 1.2i 16V	1998-00
Astra Van 1.4i 16V	2000-05
Corsa 1.0i 12V (X10XE)	1997-00
Corsa 1.2i 16V (X12XE)	1998-00
Corsa 1.4i 16V (Z14XE)	2000 ->
Tigra 1.6 16V	1999-05
Zafira 1.6i 16V (Z16XE)	1999-05

VAUXHALL



Reemplaza/Suitable: Bosch 0258 005 007, 0258 005 256
NTK OZA447-E26, 0405

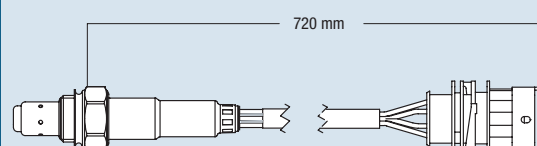


77157

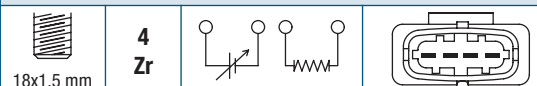
Adatt. Universal 77004

OPEL	
Astra 1.6i 16V (Z16XE)	1998-05
Astra Break 1.6i 16V	1998-05
Astra Cabrio 1.6i 16V	2001-05
Corsa 1.4i 16V (Z14XE)	2000 ->
Vectra 1.6i 16V (Z16XE)	1995-02
Vectra Break 1.6i 16V	1996-02
Zafira 1.6i 16V	1999-05

VAUXHALL



Reemplaza/Suitable: Bosch 0258 005 235
Opel 855353, 855360

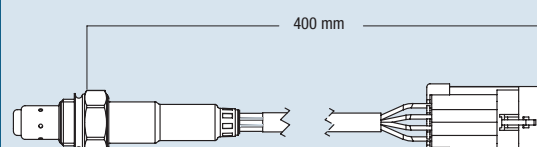


77158

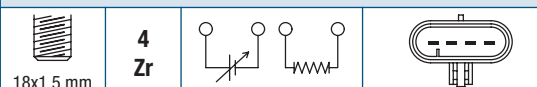
Adatt. Universal 77004

OPEL	
Astra 1.4i 16V (X14XE)	1998-02
Astra 1.6i 16V (X16XEL)	1998-02
Astra Break 1.4i 16V	1998-02
Astra Break 1.6i 16V	1998-02
Astra Van 1.4i 16V	1998-00
Vectra 1.6i 16V (X16XEL)	1995-02
Vectra Break 1.6i 16V	1996-02
Zafira 1.6i 16V (X16XEL)	1999-02

VAUXHALL



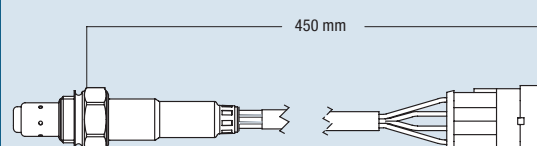
Reemplaza/Suitable: Bosch 0258 005 055
NTK OZA448-E49, 0404



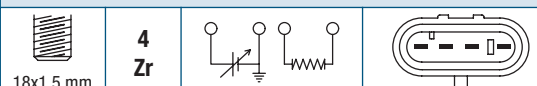
77159

Adatt. Universal 77008

FIAT	LANCIA	
Brava 1.4i 12V	1995-01	Y 1.2 16V 1997-03
Bravo 1.4i 12V	1995-01	
Cinquecento 1.1i	1994-98	
Marea 1.4i 12V	1996-99	
Marea Weekend 1.4i	1996-01	
Palio 75 1.2i	1998-02	
Palio Weekend 1.2i	1997-02	
Punto 85 1.2i 16V	1996-99	
Punto Cabrio 1.2i 16V	1999-02	
Seicento 1.1i, Van	1998-02	
Siena 1.2i	1999-02	
Strada 1.2i Trekking	1999-02	

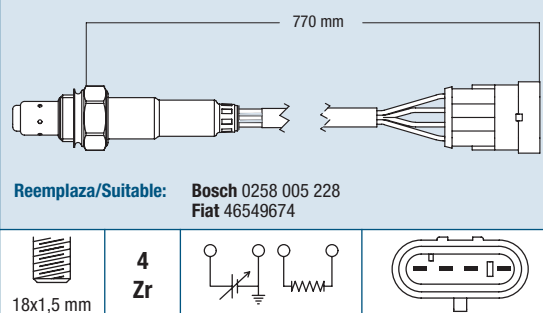


Reemplaza/Suitable: Bosch 0258 003 805, 0258 005 125
NTK OZA527-E19



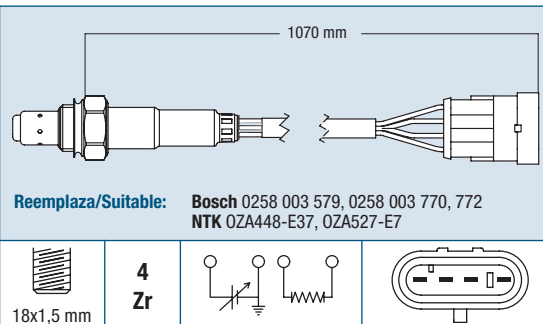

77160
Adatt. Universal 77008

FIAT	
Palio 1.4 Cat	1996 ->
Siena 1.4 Cat	1996 ->


Reemplaza/Suitable: Bosch 0258 005 228
Fiat 46549674

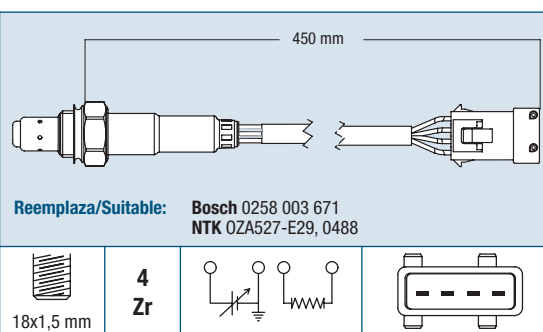
77161
Adatt. Universal 77008

ALFA ROMEO	FIAT Cont.	INNOCENTI
145, 146	Croma 2.0 ie	Elba 1.4i, 1.6i
155 1.6i, 1.8i, 2.0i 16V	Fiorino 1.4 ie, 1.6 ie	LANCIA
164 Super 3.0i 24V	Marea 2.0i	Dedra 1.8 ie
GTV 2.0i 16V	Marea 100 16V 1.6i	Delta 1.4 ie, 1.6 ie, 1.8 ie
Spider 2.0i 16V	Palio 1.6i 16V	Kappa 2.0i
FIAT	Panda 1000 ie, 1100 ie, Van	Kappa 2.0i 20V, 2.4i 20V
Brava 1.6i 16V SX, 100	Punto	Kappa 2.0i Turbo
Bravo 2.0i 20V, HGT	Seicento 900i	Y 1.1i
Cinquecento 900i, S, SX	Tempra	Y 1.2i
Coupe 2.0i 16V	Tipo	Y 1.4i 12V
Coupe 2.0i 20V	UNO Mondo 1.0 ie	Y10 1.1 ie


Reemplaza/Suitable: Bosch 0258 003 579, 0258 003 770, 772
NTK OZA448-E37, OZA527-E7

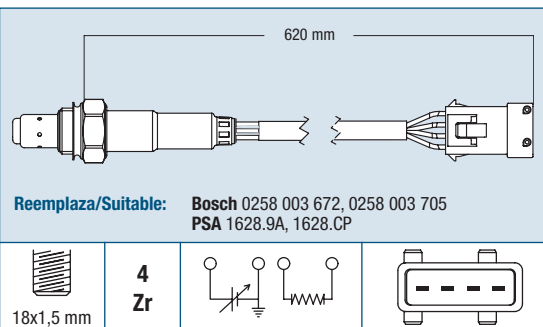
77162
Adatt. Universal 77008

CITROEN	PEUGEOT
Berlingo 1.4i (TU3JP)	106 1.0i (TU9M)
Saxo 1.1i, X, SX, (TU1M)	106 1.1i (TU1M)
Saxo 1.4i, VTS, (TU3JP)	106 1.3i (TU2J2)
Saxo 1.6i, VTL, VTR, (NFZ)	106 1.4i, 1.4 XSI
XSara 1.4i N° 7729->	106 1.6i, 1.6i Cat.
XSara 1.6i N° 7729->	206 1.1i (TU1JP)
XSara Break 1.4i, 1.6i	206 1.4i (TU3JP)
XSara Coupe 1.4i, 1.6i	Partner 1.4i (TU3JP)
ZX 1.1i N° 7245 ->	Ranch 1.4i (TU3JP)
ZX 1.4i, Break	


Reemplaza/Suitable: Bosch 0258 003 671
NTK OZA527-E29, 0488

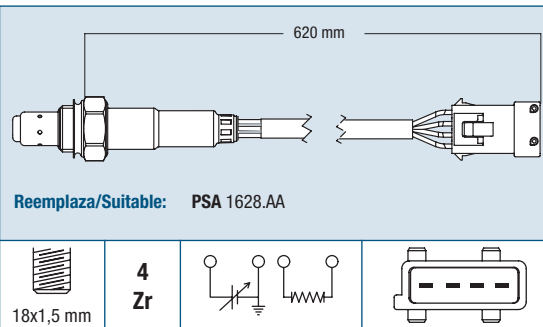
77163
Adatt. Universal 77008

CITROEN	PEUGEOT
Saxo 1.4i VTS (CEE2000)	106 1.6i 16V (Depol 15-04)
XSara 1.4i -> N° 7228	206 1.4 (2A/C)
XSara 1.6i -> N° 7228	306 1.8i, ST, (XU7JP)
XSara Break 1.4i, 1.6i	306 2.0i 16V (Depol 15-04)
XSara Coupe 1.4i, 1.6i	306 Break 1.8i, 2.0i
	306 Cabrio 1.8i, 2.0i
	406 3.0i 24V (Depol 15-04)
	406 Break 3.0i V6 24V
	406 Coupe 3.0i V6 24V
	605 3.0 V6


Reemplaza/Suitable: Bosch 0258 003 672, 0258 003 705
PSA 1628.9A, 1628.CP

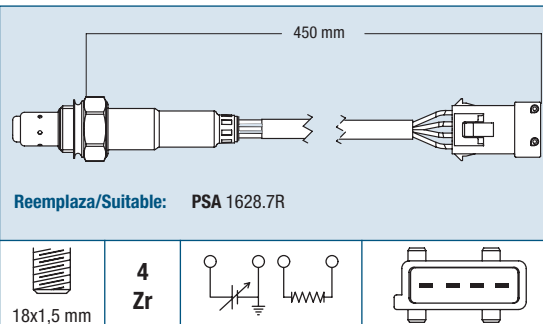
77164
Adatt. Universal 77008

CITROEN	PEUGEOT
Berlingo 1.8i (LFX)	306 1.8i 16V N°7875->
Xantia 1.8i, Break, (XU7JP)	306 Break 1.8i 16V
Xantia 1.8i 16V N°7251->	306 Cabrio 1.8i 16V
Xantia 1.8i 16V (CEE95)	Partner 1.8i (XU7JB)
XSara 1.8i, Break, (XU7JP)	Ranch 1.8i (XU7JB)
XSara 1.8i 16V, Break	
XSara Coupe 1.8i, 1.8i 16V	


Reemplaza/Suitable: PSA 1628.AA

77165
Adatt. Universal 77008

CITROEN	PEUGEOT
Berlingo 1.4i N°7875->	106 1.1i (Depol CEE95)
Saxo 1.4i, VTS, 7728->	106 1.4i N°7725->
XSara 1.4i N°7707->	206 1.1i (CEE95 L3)
XSara 1.4i Break, Coupe	206 1.4i (CEE95 L3)
	306 1.4i, SL, Break
	406 1.8i, Break, (XU7JB)
	406 1.8i 16V N°7330->
	Partner 1.4i N°7875->
	Ranch 1.4i (TU3JP)

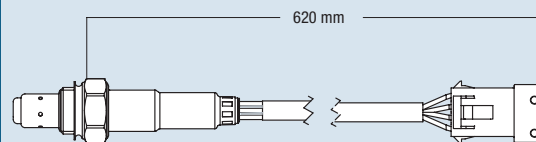

Reemplaza/Suitable: PSA 1628.7R



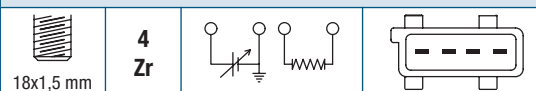
77166

Adatt. Universal 77008

CITROEN		PEUGEOT	
Saxo 1.6i 16V (TU5JP)	1996-99	106 1.6i 16V ->N°8364	1996-00
Xantia 1.6i (XU5JP)	1993-00	306 1.8i 16V ->N°7874	1997-00
Xantia 1.8i N°06780->	1993-98	306 2.0i 16V (RFV)	1997-00
Xantia 1.8i 16V ->N°07250	1995-98	306 Break 1.8i, 2.0i	1997-00
Xantia 2.0i (XU10J2C)	1993-97	306 Cabrio 1.8i, 2.0i	1997-00
Xantia 2.0i Turbo	1995-98	406 1.6i ->N°7083	1995-99
Xantia Break 1.8i, 2.0i	1995-98	406 1.8i (XU7JP)	1995-00
XSara 2.0i 16V, Break	1998-00	406 1.8i 16V ->N°7083	1995-99
		406 2.0i Turbo	1995-99
		406 Break 1.8i, 1.8i 16V	1996-00



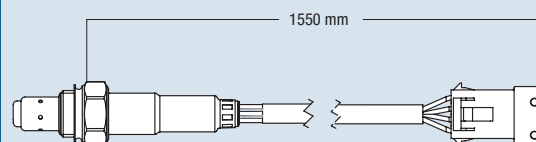
Reemplaza/Suitable: Bosch 0258 003 717, 0258 003 668
NTK OZA527-E16



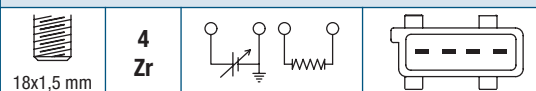
77167

Adatt. Universal 77008

CITROEN		FIAT		PEUGEOT	
Evasion 1.8i (XU7JP)	1996-02	Ducato 10 2.0 ie (R5B)	1994-02	605 2.0 Turbo	1991-99
Evasion 2.0i (XU10J2C)	1994-02	Ducato 14 2.0 ie (RFW)	1994-02	806 1.8i	1996-02
Evasion 2.0i 16V	1998-00	Ducato 18 2.0 ie (RFW)	1994-02	806 2.0i	1994-99
Evasion 2.0i Turbo	1994-02	Scudo 1.6 ie	1995-02	806 2.0i 16V	1998-02
Jumper 2.0i	1994-02	Ulysse 1.8i	1996-02	806 2.0i Turbo	1994-02
Jumpy 1.6i	1995-00	Ulysse 2.0i	1994-02	Boxer 2.0i, 4x4	1994-02
Xantia 2.0i 16V, Break	1995-00	Ulysse 2.0i Turbo	1994-00	Expert 1.6i (SPI)	1996-02
XM 2.0i 16V, Break	1994-00	Ulysse 2.1 TD ->N°8301	1996-99		
XM 2.0i Turbo, Break	1994-00				



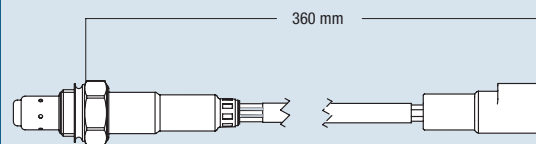
Reemplaza/Suitable: Bosch 0258 003 360, 0258 003 719
NTK OZA448-E56, 0481



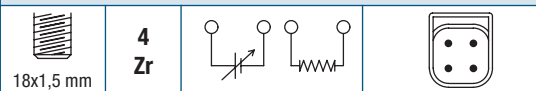
77168

Adatt. Universal 77004

FORD		FORD Cont.	
Cougar 2.5 V6 24V	1998-00	Granada 2.9i 24V	1992-98
Courier 1.3i	1995-98	KA 1.3i	1996-98
Escort 1.3i, Turnier	1991-98	Mondeo 1.6i 16V	1993-96
Escort 1.4i, Cabrio, Turnier	1991-98	Mondeo 1.8i 16V	1993-96
Escort 1.8i 16V	1995-98	Mondeo 2.0i 16V	1993-96
Fiesta 1.1i	1989-96	Orion 1.3i	1991-93
Fiesta 1.3i, HCS	1991-96	Orion 1.4i	1991-93
Fiesta 1.4i	1989-96	Orion 1.6i	1991-93
Fiesta 1.6i	1992-96	Scorpio 2.4i	1992-98
Fiesta 1.6i XR2i	1989-96	Scorpio 2.9i, 4x4	1992-98
Granada 2.4i	1992-98	Scorpio 2.9i 24V	1992-98
Granada 2.9i, 4x4	1992-98	Sierra 2.9i, XR 4x4	1992-93



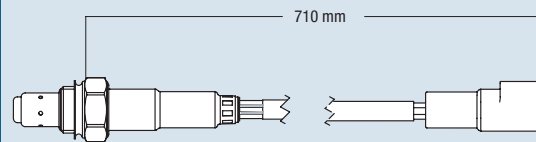
Reemplaza/Suitable: Bosch 0258 003 291, 307, 339, 342, 713, 714
NTK OZA89-D2, OZA216-D2, OZA33-D5



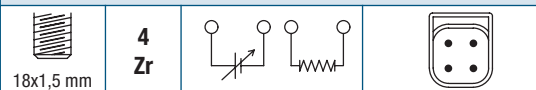
77169

Adatt. Universal 77004

FORD		FORD Cont.	
Escort 1.3 (J6A)	1996-98	Mondeo 2.0i, Touran	1996-98
Escort 1.4, Nomade	1990-95	Orion 1.6	1991-93
Escort 1.6	1992-95	Orion 1.8	1991-93
Escort 1.8	1992-95	Scorpio 2.0i	1989-94
Fiesta 1.1 (G6A)	1993-95	Scorpio 2.4i	1992-95
Fiesta 1.3 Cat. (J6B)	1993-95	Scorpio 2.9i, 4x4	1992-95
Fiesta 1.4 (F6E)	1993-95	Scorpio 2.9i 24V	1995-98
Fiesta 1.6, 1.6 XR2i	1992-96	Sierra 2.9i, XR 4x4	1992-93
Granada 2.4i	1992-95	Transit 2.0i EFI	1992-94
Granada 2.9i, 4x4	1992-95	Transit 2.9i (BRT)	1992-96
Granada 2.9i 24V	1992-95		



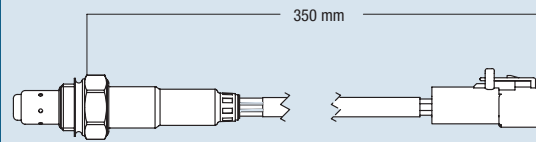
Reemplaza/Suitable: Bosch 0258 003 121, 292 343, 485, 423
NTK OZA216-D3, OZA448-E48, OZA448-42



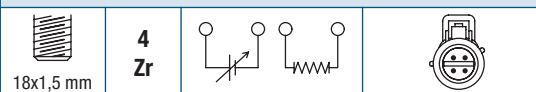
77170

Adatt. Universal 77004

FORD		JAGUAR		MAZDA	
Mondeo 1.8i 16V	2000 ->	S-Type V6	1999-05	Tribute 3.0i	2000 ->
Mondeo 2.0i 16V	2000 ->	S-Type V8	1999-08	Tribute 4x4 3.0i	2000 ->
Mondeo 2.5i 16V	2000 ->				
Maverick 3.0i V6 24V	2001-06				
Windstar 3.0i (USA)	1995 ->				



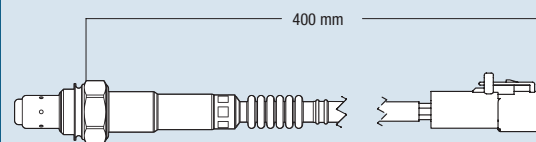
Reemplaza/Suitable: Ford 1123897, 1S7F-9F472-AB, 3006892
Mazda AJ0418861B



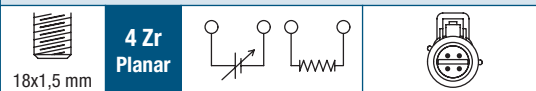
77171

Adatt. Universal 77015

FORD		FORD (USA)	
Transit 2.3i 16V	2001-06	Explorer 4.0i V6	1998-00
Transit Bus 2.3i (E5FA)	2001-06		
Transit Connect 2.3i	2002-06		
Tourneo 2.3i 16V	2002 ->		



Reemplaza/Suitable: Bosch 0258 006 165
Ford 3040432, XL3Z-9F472-BA

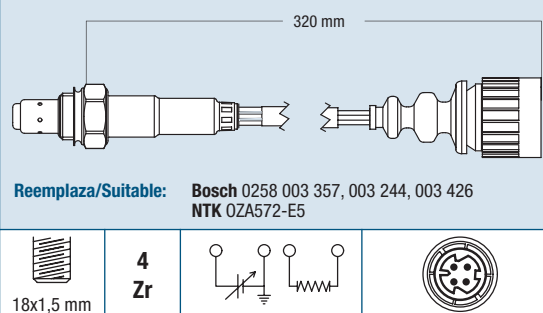




77172

Adatt. Universal 77008

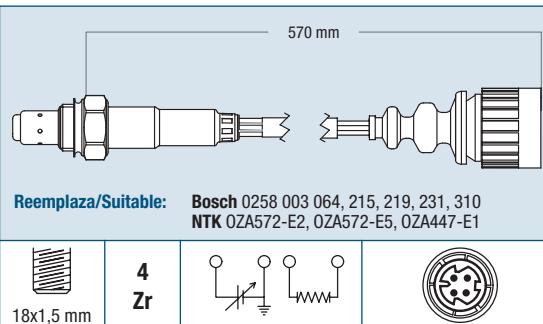
BMW		BMW Cont.	
318i Compact 1.8i 16V	1994-96	730i, il. V8 (M60)	1992-94
318i Coupe 1.8i 16V	1991-95	740i, il. V8 (M60)	1992-94
318 is 1.8i 16V	1990-94	840i 4.0i V8	1992-97
318is Coupe 1.8i 16V	1990-95	M3 3.0i 24V, Coupe	1992-95
318ti Compact 1.8i 16V	1994-95		
320i 2.0i 24V	1990-95		
320i Coupe 2.0i 24V	1991-95		
325i Cabrio 2.5i 24V	1993-95		
530i 3.0i 32V, Touring	1992-94		
540 i V8	1993-97		



77173

Adatt. Universal 77008

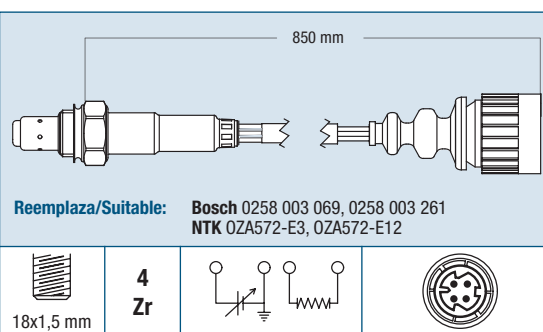
BMW		BMW Cont.	
316i, 316i Cat. (M40)	1990-93	325i Coupe 2.5i 24V	1990-95
316i, Compact, Coupe (M43)	1993-95	325iX 2.5, Touring	1988-93
318i Cat (M40)	1991-93	750 i, il. V12 (M70)	1987-94
318i, Cabrio, Touring (M43)	1993-95	850 i, Ci. V12 (M70)	1990-94
320i, 320i Cat. (M20)	1987-91	850i CSI V12 (M70)	1993-96
320i 2.0i 24V, Touring	1990-95	Z1 2.5	1988-91
320i Cabrio, Coupe	1991-95		
325i 2.0, Touring	1988-93		
325i 2.5i 24V	1990-94		
325i Cabrio 2.5i 24V	1993-95		



77174

Adatt. Universal 77008

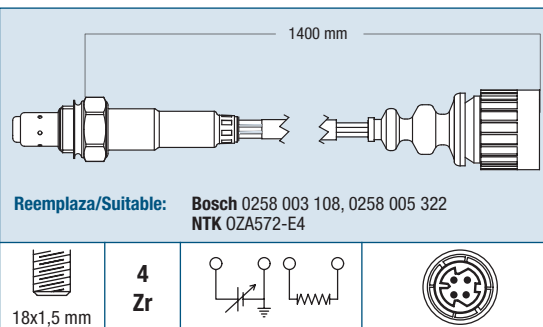
BMW		BMW Cont.	
316i (E30)	1988-90	325i Cabrio, Coupe	1992-98
316i Compact (E36)	1994-95	518i 1.8i	1993-95
316i Coupe (E30, E36)	1993-95	518i Touring 1.8i	1993-97
316i Touring (E30)	1991-95	530i Touring	1992-94
318i (E30)	1987-91	540i Touring	1993-94
318i Cabrio 1.8i	1990-93	730i V8	1992-94
318i Touring (E30)	1989-95	750i	1987-94
318 IS (E30)	1989-90	840 ci	1993-97
320i Cat. (E30)	1987-93	850 ci	1990-94
325 E (E30)	1985-87	M3 3.0i Cabrio, Coupe	1992-95
325i	1985-90	Z1 2.5i	1988-91



77175

Adatt. Universal 77008

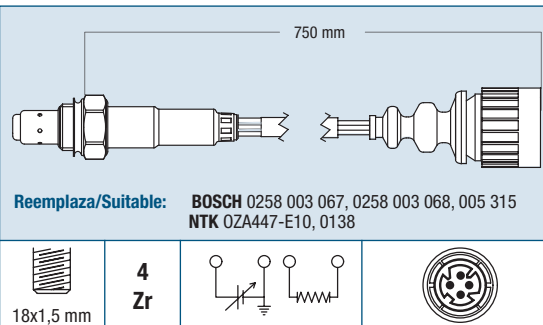
BMW	
520i 2.0i 24V (M50)	1990-95
520i Touring 2.0i 24V	1990-92
525i 2.5i 24V (M50)	1991-95
525i Touring 2.5i 24V	1990-96
525 i X, Touring	1992-97



77176

Adatt. Universal 77008

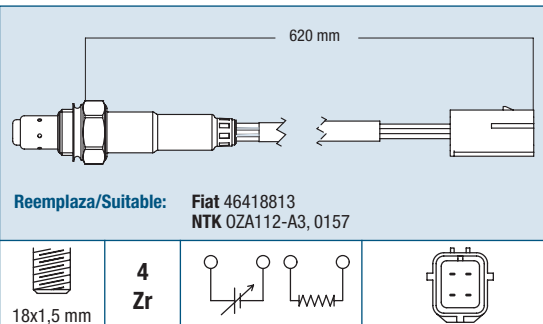
BMW	
520 i	1988-91
525 i	1988-91
850 CSI	1993-96



77177

Adatt. Universal 77004

FIAT		LANCIA	
Brava 1.8i 16V ELX	1999-01	Dedra 1.8 ie 16V LE	1996-99
Brava 115 1.8i 16V	1998-01	Dedra 1.8i GT 16V	1996-99
Bravo 1.8i 16V	1997-01	Dedra 2.0 ie 16V	1994-99
Coupe 1.8i 16V	1996-98	Dedra SW 1.8i 16V	1996-99
Marea 1.8i	1996-99	Dedra SW 1.0i 16V	1994-99
Marea 115 1.8i 16V	1999 ->	Delta 1.8 ie 16V	1996-99
Marea Weekend 1.8i 16V	1996 ->	Delta HPE 1.8 ie 16V	1996-99

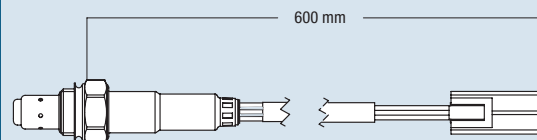




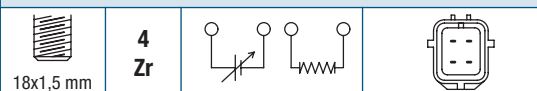
77178

Adatt. Universal 77004

HYUNDAI	
Accent 1.3, 1.3i 12V	1997-00
Accent 1.5i 16V, GT	1997-99
Coupe 2.0i 16V	1996-02
Elantra 1.8i 16V	1995-00
Elantra Wagon 1.8i 16V	1995-00
Excel 1.5i 16V	1996-99
Lantra 1.5i 12V	1996-00
Lantra 1.8i 16V, SW	1995-00
Lantra Wagon 1.5 12V	1997 ->
Lantra Wagon 1.8i 16V	1996-00



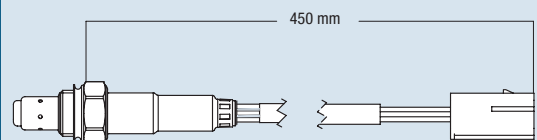
Reemplaza/Suitable: Hyundai 39210-22291, 329210-23036



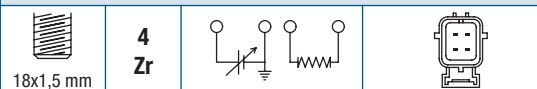
77179

Adatt. Universal 77008

LAND ROVER		ROVER		ROVER Cont.	
Freelander 1.8, 1.8i, 16V	1997-98	214 1.4i	1996-00	Coupe 1.8i 16V	1996-00
MG	TF 120.135.160. ZR 105.120.160	214 1.4i GSI, SI	1989-95	Tourer 1.6i 16V	1996-98
		216 1.6i SI	1996-00		
		218 1.8i 16V	1995-00		
		220 2.0i 16V, GTI	1993-95		
		414 1.4i 16V	1995 ->		
		416 1.6i 16V	1995-00		
		420 2.0i 16V, GTI	1992-96		
		820 2.0i 16V	1992-99		
		825 2.5 V6	1996-99		
		Cabriolet 1.6i 16V	1996-99		



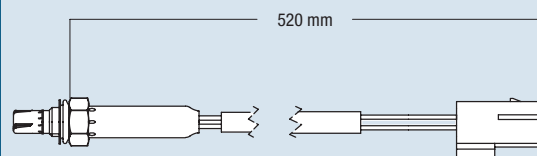
Reemplaza/Suitable: Bosch 0258 003 229
NTK OZA527-E9, OZA222-RV1



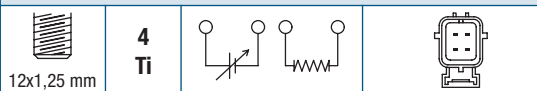
77180

Adatt. Universal 77013

LAND ROVER	
Discpvery 3.9 V8	1994-98
Range Rover II 4.0 V8	1994-98
Range Rover II 4.6 V8	1994-98
Range Rover II 4.6 HSE	1994-98



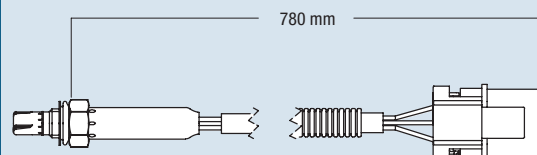
Reemplaza/Suitable: Land Rover ERR 1834
NTK OTD3J-5A3, 0024



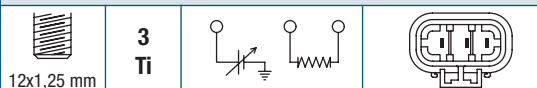
77181

Adatt. Universal 77010

NISSAN	
100 NX 2.0 6Ti	1991-94
Maxima 3.0i	1988-94
Primera 2.0i 16V	1990-96
Primera 2.0i GT	1990-96
Primera Wagon 2.0i 16V	1994-98
Sunny 2.0i 6 Ti 16V	1990-95



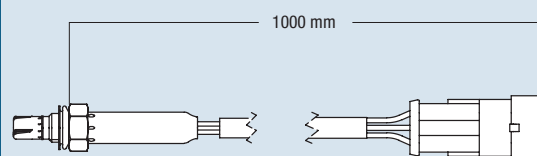
Reemplaza/Suitable: Nissan 22690-64J01
NTK OTD2F-3K1, 1907



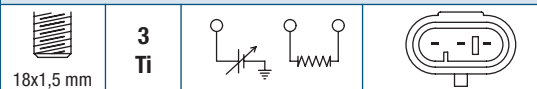
77182

Adatt. Universal 77011

ALFA ROMEO	
145 1.4 ie	1994-97
146 1.4 ie	1994-97



Reemplaza/Suitable: Alfa Romeo 60605374
NTK OTA6F-3A1, 1928

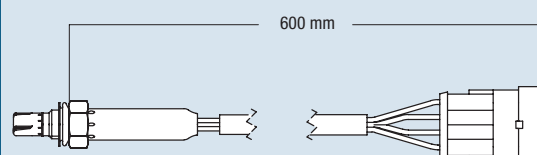


Motor/Engine/Moteur:
AR33501.

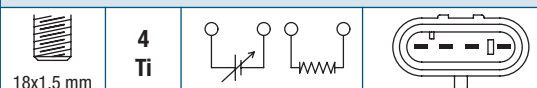
77183

Adatt. Universal 77013

OPEL		VAUXHALL	
Astra 2.0i 16V	1999-05		
Omega 2.0i 16V	1999-05		
Vectra 2.0i 16V	1999-05		



Reemplaza/Suitable: G.M. 90530586, 855342
NTK OTA7N-5A1, 1920



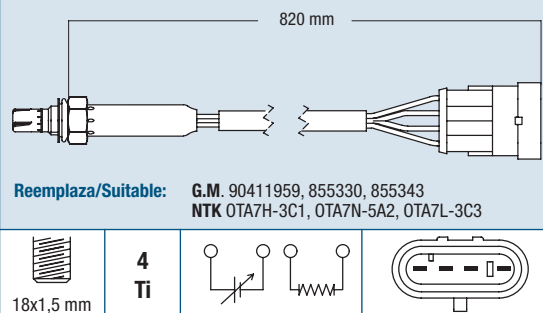
Motores / Engines / Moteurs:
X20XEV.



77184

Adatt. Universal 77013

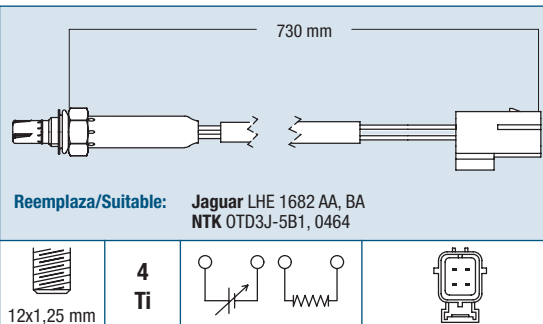
OPEL	
Astra 1.8i 16V (C18XE, XEV)	1992-00
Astra 1.8i 16V (C18XEL)	1995-00
Astra 1.8i 16V (X18XE)	1999-00
Astra 2.0i 16V (X20XEV)	1995-02
Calibra 2.0i 16V (X20XEV)	1994-97
Vectra 1.8i 16V (X18XE)	1995-96
Vectra 1.8i 16V (X18XE)	1999-00
Vectra 2.0i 16V (X20XEV)	1993-99
Zafira 1.8 16V	1999-00

VAUXHALL


77185

Adatt. Universal 77013

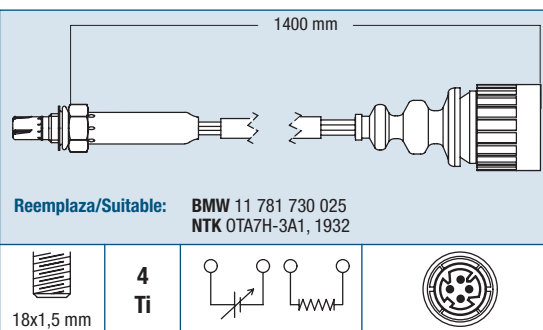
JAGUAR	
Double Six 6.0i V12	1994-97
Six 4.0i, LWB	1994-97
Sovereign 3.2, LWB	1994-98
Sovereign 4.0, LWB	1994-98
XJ6 3.2i	1994-97
XJ6 4.0i	1994-96
XJR 4.0i	1994 ->
XJS 4.0i, Convertible	1994-97
XJ Sport 3.2, 4.0i	1994 ->



77186

Adatt. Universal 77013

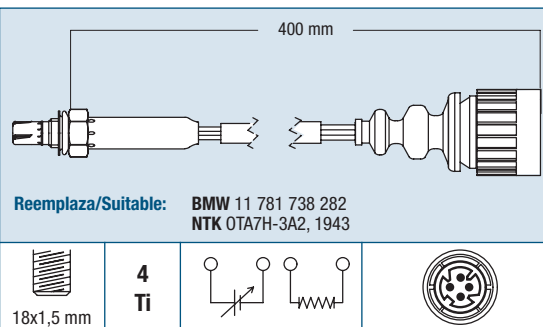
BMW	
520i (E34)	1992-95
520i Touring	1991-97



77187

Adatt. Universal 77013

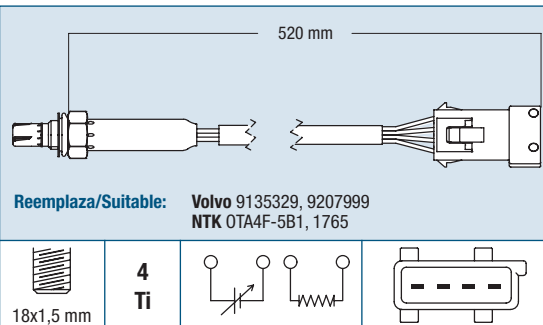
BMW	
320i (E36)	1992-94
320i Coupe	1992-99
320i Cabrio	1993-99



77188

Adatt. Universal 77013

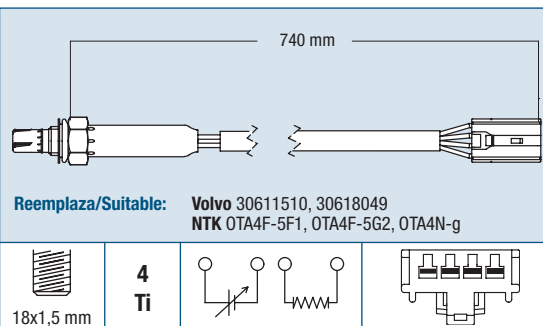
VOLVO	
850 2.0i LS	1994-99
850 2.5i LS	1993-99
850 (LW) 2.0	1994-96
850 (LW) 2.5	1994-96
S70 2.5	1997-00
V70 2.5	1997-00
V70 2.5 Bifuel	1998-99



77189

Adatt. Universal 77013

VOLVO	
S40 1.6	1999-01
S40 1.8	1999-01
S40 2.0	1999-01
V40 1.6	1999-01
V40 1.8	1999-01
V40 2.0	1997-00

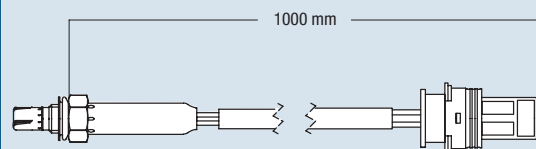




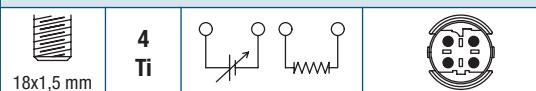
77190

Adatt. Universal 77013

BMW	
320i (E36)	1994-00
323i (E36)	1995-00
328i (E36)	1995-00
520i (E39)	1996-00
523i (E39)	1995-00
528i (E39)	1995-00
728i (E38)	1995-00
M3 3.2i 24V	1995-99



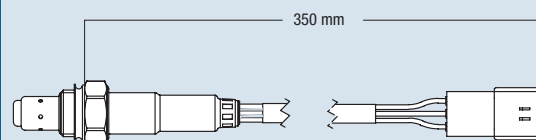
Reemplaza/Suitable: NTK OTA7H-5A1
Siemens 5WK9 0231



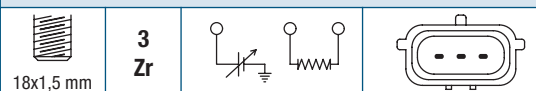
77191

Adatt. Universal 77003

HYUNDAI		KIA	
Accent 1.3i 12V (G4EH)	1997-99	Sportage 2.0i 16V	1994-98
Accent 1.5i 12V (G4EK)	1997-99	MAZDA	
Accent 1.5i 16V	1997-99	121 1.3 16V	1990-99
Excel 1.3i 12V (G4EH)	1997-99		
Excel 1.5i 12V (G4EK)	1997-99		
Excel 1.5i 16V GT (G4ER)	1997-99		
Lantra 1.5i 12V	1997-00		
Lantra Stationwagon 1.5i	1997-00		
Pony 1.3i 12V (G4EH)	1997-99		
Pony 1.5i 12V (G4EK)	1997-99		



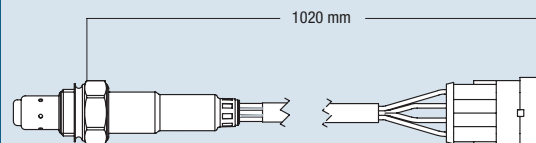
Reemplaza/Suitable: Hyundai 39210-22018, 39210-22019



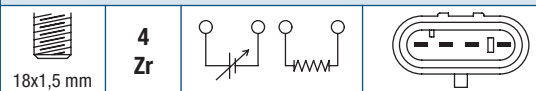
77192

Adatt. Universal 77004

FIAT		LANCIA	
Brava 1.6i 16V	2000-01	Debra 1.8 6T 16V	1996-99
Bravo 1.6i 16V	2000-01	Delta 1.8 ie 16V GT	1998-00
Coupe 1.8i 16V	1998-00	Delta HPE 1.8 ie 16V	1999 ->
Marea 1.6i 16V, Weekend	2000 ->	Lybra 1.6i 16V	1999 ->
Multipla 100 1.6i 16V	1998-00	Lybra 1.8i 16V	1999 ->
Multipla 1.6i 16V Bipower	1999 ->	Lybra SW 1.6i 16V	1999 ->
Palio 75 1.2i	1998-01	Lybra SW 1.8i 16V	1996-99
Palio 100 1.6i 16V, Weekend	1998-01		
Punto 75 1.2i	1998-99		
Punto 1.8i 16V	1999 ->		
Siena 1.2i EL (ZA)	1998 ->		
Siena 100 1.6i 16V, HL	1999 ->		



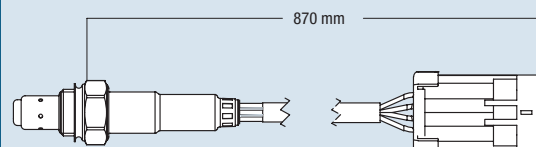
Reemplaza/Suitable: Bosch 0258 005 191
NTK OZA334-A2, OZA532-A1, OZA532-A7



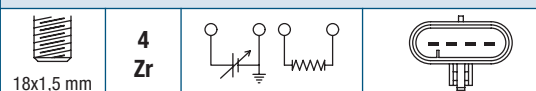
77194

Adatt. Universal 77008

FIAT		LANCIA		DAEWOO	
Punto 90 1.6i	1994-97	Dedra 1.6 ie Cat.	1994-99	Nubira 2.0 16V	2000 ->
Punto Cabrio 90 1.6i	1994-97	Dedra SW 1.6 ie	1994-99		
Punto 1.6 ie ELX	1994-97				
Tempra 1.6 ie	1994-96				
Tempra SW 1.6 ie	1994-96				



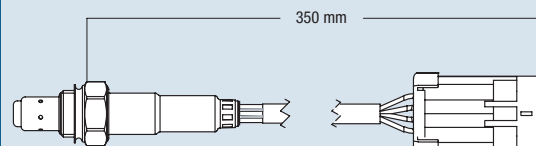
Reemplaza/Suitable: Fiat 46408190, 46422649



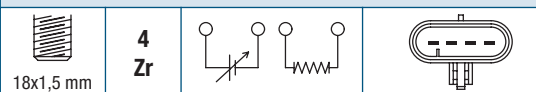
77195

Adatt. Universal 77009

DAEWOO		OPEL	
Leganza 2.2 16V	1999-02	Frontera 2.2i 16V, Wagon	1998 ->
Matiz 0.8 (F8CV)	1998 ->	Frontera 3.2i 24V, Wagon	1998-00
		Monterey 3.5i V6 24V	1998-99



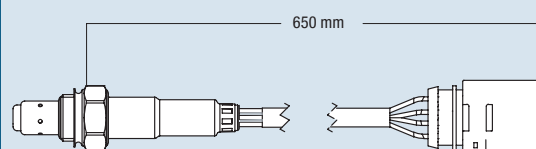
Reemplaza/Suitable: NTK OZA341-W2
Daewoo 96507986; Opel 855348



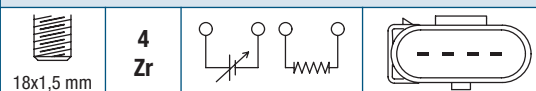
77200

Adatt. Universal 77004

AUDI		SKODA		VOLKSWAGEN	
A3 1.8i Ch.8L-V-106586->	1996 ->	Fabia 1.2i (AWY)	2002 ->	Fox 1.2	2005 ->
A3 1.8i Quattro (AGN)	1998 ->	Fabia 1.4i 16V (AUA,AUB)	1999 ->	Fox 1.4	2005 ->
SEAT		Fabia Kombi 1.4i 16V	2000 ->	Polo 1.2i (AWY)	2002 ->
Cordoba 1.4 16V	2002 ->	Patrik 1.4	2007 ->	Polo 1.4i (BBZ)	2003 ->
Ibiza IV 1.4 16V	2002 ->	Roomster .4	2006 ->	Polo 1.4i 16V (AUB)	2001-02
Ibiza V 1.4, SportCoupe	2008 ->			Polo 1.4i 16V (AUZ,BBY)	2002 ->



Reemplaza/Suitable: Bosch 0258 005 236
NTK OZA510-55, OZA510-V5

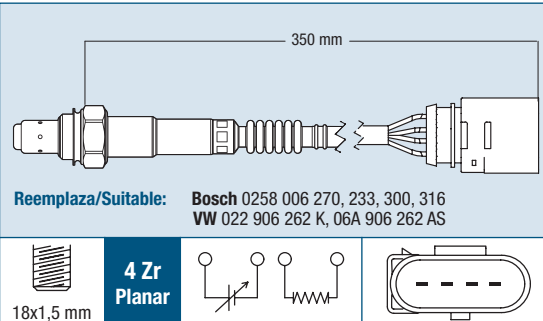




77201

Adatt. Universal 77015

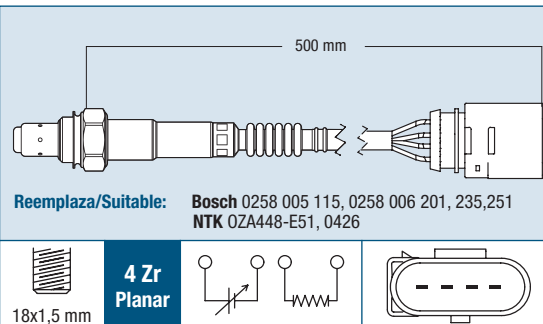
AUDI	1996 ->	SKODA	1999-02	VOLKSWAGEN	2001-05
A3 1.6i	1996 ->	Fabia 1.0i, Kombi. (ARV)	2000 ->	Bora 2.3 V5 4Motion	1999-05
A3 S3 Quattro ->8L-Y200	1999 ->	Fabia 1.4i, Kombi. (AME)	2000-02	Bora 2.8 V6 4Motion	1997-05
TT 1.8 T Quattro, Roadster	1998 ->	Fabia 1.4i (AZE)		Golf IV 1.6i	2000-05
SEAT				Golf IV 2.3 V5 4Motion	1999-05
Arosa 1.4i 16V	1998 ->			Golf IV 2.8 V6 4Motion	1999 ->
Cordoba 1.6	2003 ->			Lupo 1.4i 16V	2000 ->
Ibiza IV 1.6	2003 ->			New Beetle RSI	1998-99
Leon 2.8 Cupra	2001 ->			Polo 1.6i 16V	2002 ->
				Polo 1.6i (BAH)	



77202

Adatt. Universal 77015

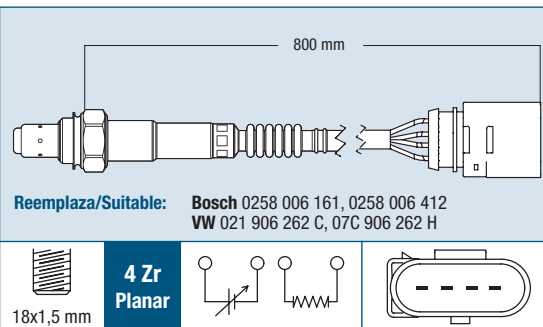
AUDI	1999 ->	SEAT	1997-04	VOLKSWAGEN	2000 ->
A3 S3 Quattro ->8LY200	1999 ->	Arosa 1.0	1997-04	Lupo 1.6 GTI (AVY)	1998-05
TT 1.8 T Quattro	1998 ->	SKODA		Lupo 1.0	1996-99
TT Roadster 1.8 T Quattro	1999 ->	Octavia 1.4i (AMD)	1999 ->	Polo 50 1.0	



77203

Adatt. Universal 77015

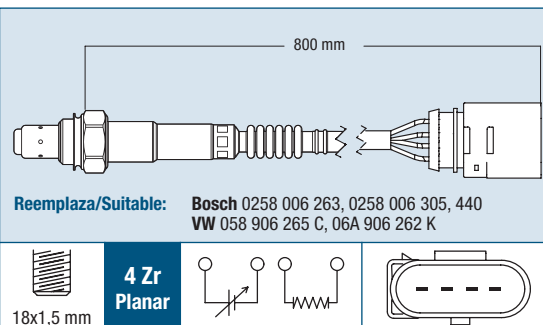
AUDI	1997-00	SEAT	1997 ->	VOLKSWAGEN	2000-05
A3 1.8 T	1997-00	Alhambra 1.8i T 20V	1997 ->	Bora 1.8 T S.W.	2000-01
A4 3.0, Quattro	2000-04	Alhambra 2.0i (ATM)	1996 ->	Bora 2.3 V5 (AQN)	2000-01
A4 2.4, Avant	1999-00	SKODA		Bora 2.3 V5 4Motion	2000-05
TT 1.8 T, Roadster	1999-00	Octavia 1.8 T (ARX)	1997 ->	Bora Variant 2.3 V5	1997-05
PORSCHE		Octavia 1.8 T 4x4	2001 ->	Golf IV 1.8 T (AUM)	2001-05
Cayenne	2002-07	Octavia Kombi 1.8 T (AUM)	1998 ->	Golf IV 1.8 T GTI (AUQ)	2000-05
		Octavia RS 1.8 T (AUQ)	2001 ->	Golf IV Variant 1.8 T	1999 ->
				New Beetle 1.8T	2002 ->
				Phaeton 6.0	



77204

Adatt. Universal 77015

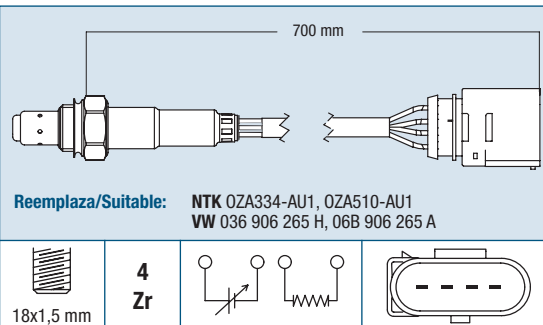
AUDI	1995-00	SKODA	2001 ->	VOLKSWAGEN	1998-05
A4 1.8 T (ANB, AWT)	1995-00	Octavia Kombi 2.0	2001 ->	Bora 1.6i (APF)	1998-05
A4 1.8 T (AMB, AVJ)	2000-02	SuperB 1.8 T (AWT)	2002 ->	Bora Variant 1.6i	1997-00
A4 1.8 T (BEX)	2002-04			Golf IV 1.6i (APF)	1997-00
A4 1.8 T Quattro	1995-02			Golf IV Variant 1.6i	1999-00
A4 2.0 (ALT)	2000-04			New Beetle 1.6i	1996-00
A4 2.0 FSI	2002-04			Passat 1.8 T (ANB), Variant	2001-05
A4 Avant 1.8 T, Quattro	1996-02			Passat 1.8 T (AWM)	2000-05
A4 Avant 2.0, FSI	2001-04			Passat 1.8 T 20V (AWT)	2002-05
A6 1.8 T Quattro	1997-04			Passat 2.0i (ALT), Variant	
A6 Avant 1.8 T Quattro	1998-04				



77205

Adatt. Universal 77004

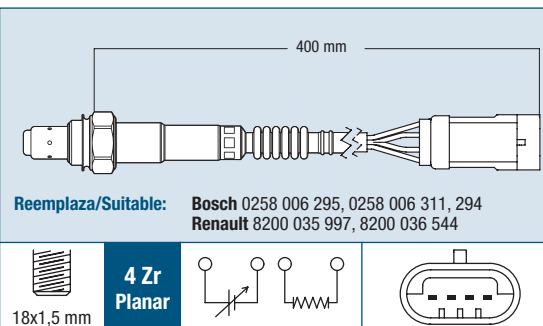
AUDI	2000-05	SKODA	2002 ->	VOLKSWAGEN	1997-00
A2 1.4i (AUA)	2000-05	Super B 2.0i (AZM)	2002 ->	Golf IV 1.4i 16V (AXP)	1999-00
A4 1.6	1995-00			Golf IV Variant 1.4i 16V	1996-00
				Passat 1.6i, Variant. (ANA)	2000-05
				Passat 1.6i, Variant. (ALZ)	2000-05
				Passat 2.0i, Variant. (AZM)	2001-05
				Passat 2.0i 4Motion, Variant	



77206

Adatt. Universal 77015

RENAULT	2002-03	RENAULT Cont.	1997-02
Avantime 2.0i 16V Turbo	2002-03	Megane 1.6i (K4M)	2000 ->
Clio 1.4i 16V (K4J)	1999 ->	Megane 1.6i 16V (K4M)	1999-02
Clio 1.6i 16V (K4M)	1998 ->	Megane 1.8i 16V (F4P)	1999 ->
Clio 2.0i 16V (F4R)	2001 ->	Megane 2.0i 16V (F4R)	1999 ->
Espace 2.0i 16V (F4R)	1998-02	Megane Cabrio, Coupe	1999 ->
Espace 2.0i, Turbo	2002 ->	Megane Break, Coach	1999 ->
Kangoo 1.6i, 4x4, Express	2001 ->	Scenic 1.4i 16V (K4J)	1999-03
Laguna 1.6i 16V (K4M)	2001 ->	Scenic 1.6i 16V (K4M)	1999-03
Laguna 1.8i 16V (F4P)	2001 ->	Scenic 1.8i 16V (F4P)	2001-03
Laguna 2.0i 16V (F4R)	2001 ->	Scenic 2.0i 16V (F4R)	2001 ->
Megane 1.4i 16V (K4J)	1999 ->	Vel Satis 2.0i 16V, Turbo	2002 ->

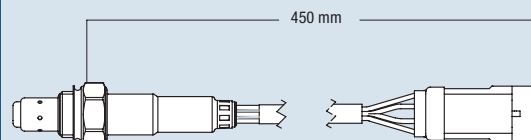




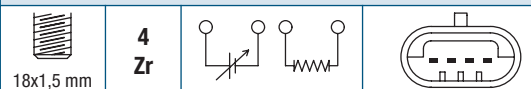
77207

Adatt. Universal 77004

DACIA	NISSAN	RENAULT
Logan 1.4, 1.6	Kubistar 1.2 16V	Clio 1.0i 16V (D4D)
Logan MCV 1.4, 1.6		Clio 1.2i 16V (D4F)
Sandero 1.4, 1.6		Clio 1.6i 16V (K4M)
		Kangoo 1.0i 16V (D4D)
		Kangoo 1.2i 16V (D4F)
		Kangoo Express (D4D,D4F)
		Modus 1.2
		Twingo 1.0i 16V (D4D)
		Twingo 1.2i (D7F)
		Twingo 1.2i 16V (D4F)



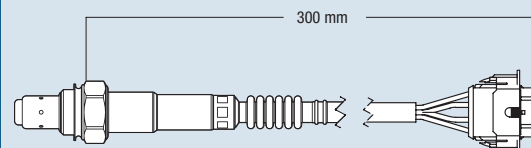
Reemplaza/Suitable: Bosch 0258 005 136
NTK OZA448-E50, OZA507-R2, 0480, 0415



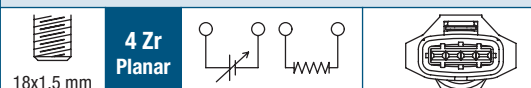
77208

Adatt. Universal 77015

OPEL	OPEL Cont.	VAUXHALL
Agila 1.0i 12V (Z10XE)	Signum 3.2 V6	
Astra 1.2i 16V (Z12XE)	Vectra 3.2 V6	
Astra H 1.2, 1.4		
Combo 1.2i 16V		
Corsa C 1.0i 12V (Z10XE)		
Corsa C 1.2i 16V (Z12XE)		
Corsa D 1.2, 1.4		
Corsa Van 1.2i 16V Meriva		
1.4 16V		
Tigra 1.4, 1.6		
Omega B 2.6i V6, 3.2		



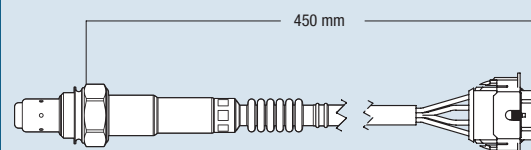
Reemplaza/Suitable: Bosch 0258 006 172, 0258 006 386
Opel 855351, 855386



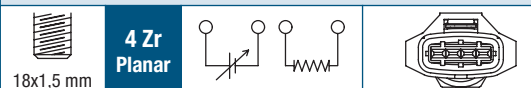
77209

Adatt. Universal 77015

OPEL	OPEL Cont.	VAUXHALL
Astra G 1.8 16V	Vectra Wagon 2.6i V6	
Astra H 1.8, GTC	Vectra C 1.8, 1.8 16V	
Combo 1.0i 12V	Zafira 1.8 16V	
Corsa C 1.0		
Corsa C 1.0i 12V (Z10XE)	SAAB 9-3 1.8i	
Meriva 1.8		
Omega B 2.2 16V		
Signum 1.8		
Tigra 1.8 Twin Top		
Vectra B 2.6i V6 (Y26SE)		



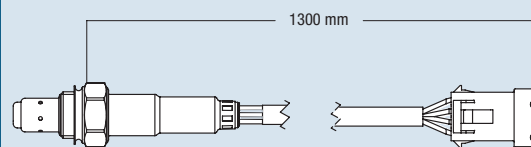
Reemplaza/Suitable: Bosch 0258 006 170, 0258 006 347
Opel 855359, 855387



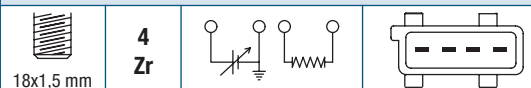
77210

Adatt. Universal 77008

CITROEN	PEUGEOT
AX 1.0i (TU9M)	306 2.0i 16V
AX 1.1i (TU1M)	405 1.6i, 1.8i, 1.9i
AX 1.4i (TU3M)	405 2.0i, 2.0i Mi16
AX 1.4 GTi (TU3FJ2)	405 2.0i T16
XSara 1.8i Aut., Coupe	406 2.0i 16V, Break
XSara 2.0i 16V, Coupe	406 Coupe 2.0i 16V
ZX 1.1i (TU1M+)	
ZX 1.4i (TU3MZ)	
ZX 1.6i, Break. (XU5JP)	
ZX 1.8i, 1.8i 16V, Break	
ZX 2.0i, 2.0i 16V	



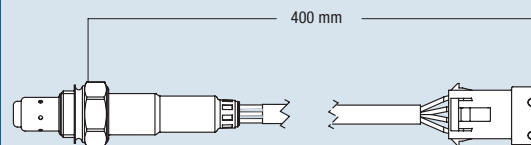
Reemplaza/Suitable: Bosch 0258 003 669, 0258 003 718
NTK OZA527-E17, 0445



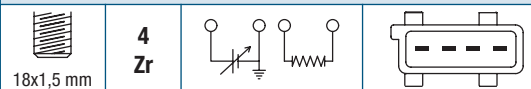
77211

Adatt. Universal 77008

CITROEN	PEUGEOT
Berlingo 1.1i (TU1M)	106 Depol CEE 95
Berlingo 1.4i ->N°7874	106 1.0i (TU9M)
C15 1.1i, 1.4i	106 1.1i (TU1M)
Saxo 1.0i, X (TU9M)	106 1.4i N°7725->
Saxo 1.1i, X, SX (TU1M)	106 1.6i (TU5JP,TU5J2)
Saxo 1.4i, VTS ->N°7727	306 1.4i, SL, Break
Saxo 1.6i, VTL, VTR	306 1.6i, SR, Break
XSara 1.4i, Break. ->7706	306 Cabrio 1.6i (TU5JP)
XSara 1.6i, Break. ->7706	406 1.6i N°7084->
XSara Coupe 1.4i, 1.6i	406 1.8i, Break. N°7084->
ZX 1.1i N°7245->	406 1.8i 16V, Break
ZX 1.4i, Break (CEE95)	Partner 1.1i, 1.4i, Ranch



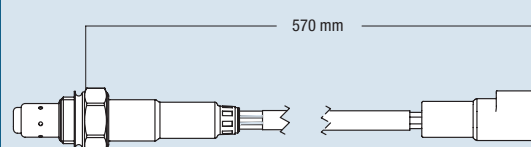
Reemplaza/Suitable: Bosch 0258 003 716
NTK OZA448-E57, OZA527-E15



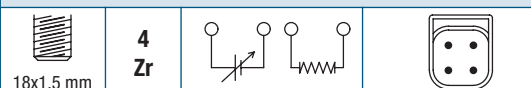
77212

Adatt. Universal 77004

FORD
Escort 1.6i 16V (L1E)
Escort 1.6i 16V 4x4
Escort 1.8i 16V (RKC)
Escort Cabrio XR3i 1.6i
Escort Cabrio XR3i 1.8i
Escort Nomade 1.6i 16V
Escort Nomade 1.8i 16V

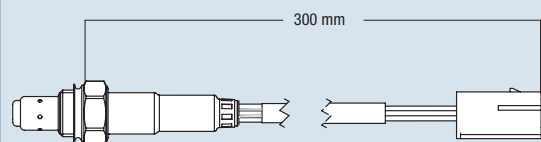


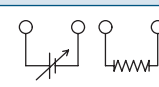
Reemplaza/Suitable: Bosch 0258 003 800
Ford 1013145



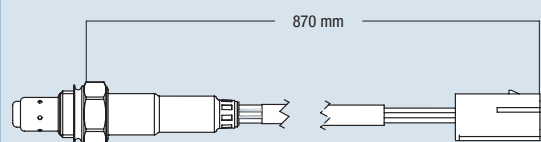

77213
Adatt. Universal 77004

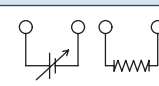
FIAT		KIA	
Barchetta 1.8i 16V	1995-98	Rio 1.3, SW	2000-05
Barchetta (183A1000)	1995-98	Rio 1.5i	2000-05
		Rio Station Wagon 1.5	2000-05


Reemplaza/Suitable: Fiat 46407316
NTK OZA112-A2, OZA517-K1, 0225

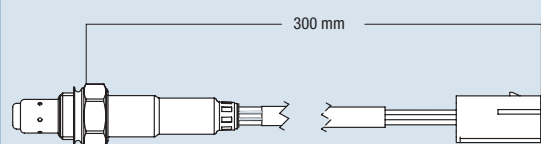
4
Zr

77214
Adatt. Universal 77004

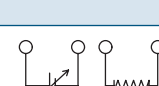
FIAT		LANCIA	
Brava 1.6i 16V (182A4)	1996-99	Dedra 1.6 16V	1996-99
Brava 1.6i 16V (182A6)	1995-01	Delta 1.6 ie (182A6)	1996-99
Bravo 1.6i 16V (178A8)	1998-01	Delta 1.6 ie 16V (182A4)	1996-99
Bravo 1.6i 16V (182A4)	1996-01		
Bravo 1.6i 16V (182A6)	1995-01		
Marea 100 1.6i 16V	1996-98		
Marea 1.6i 16V Bipower	1997-99		
Marea Weekend 1.6i 16V	1996-99		


Reemplaza/Suitable: Fiat 7751308
NTK OZA112-A1, 0146

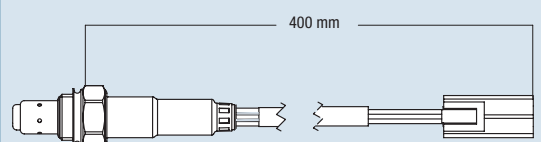
4
Zr

77215
Adatt. Universal 77004

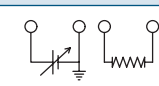
HYUNDAI		HYUNDAI Cont.	
Accent 1.3i, 1.3i 12V (S)	1997-00	Lantra 1.5i 12V, Wagon	1997-00
Accent 1.5i 12V (S)	1997-00	Lantra 1.6i, Wagon	1997-99
Coupe 1.6i 16V	1997-02	Lantra 1.8i 16V, Wagon	1996-00
Coupe 2.0i 16V	1997-99	Lantra 2.0i 16V, Wagon	1996-00
Elantra 1.6i 16V, Wagon	1997-00	Pony 1.3i 12V	1994-99
Elantra 1.8i 16V, Wagon	1997-00	Pony 1.5i 12V (S)	1997-99
Elantra 2.0i 16V	1997-00	Tiburon 1.6i 16V	1999 ->
Excel 1.3i 12V (S)	1997-99	Tiburon 2.0i 16V	1999 ->
Excel 1.5i 12V (S)	1997-99		


Reemplaza/Suitable: Hyundai 39210-23026, 39210-23211

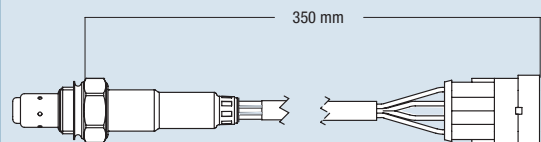
4
Zr

77216
Adatt. Universal 77008

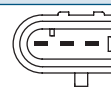
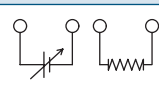
LAND ROVER		ROVER	
Discovery 2.0 16V	1993-98	111 1.1i (K8)	1990-98
Freelander 1.8, 1.8i, 16V	1998-07	114 GTA, S, L. (14K2A)	1990-98
		114 GTi 16V (14K4C)	1990-91
		214 1.4i (14K2D)	1993-95
		214 GSi, Si. (14K4F)	1992-95
		220 Turbo (20T4G)	1993-95
		414 GSi, Si, Cat.	1993-95
		420 2.0i 16V	1995-00
		420 2.0i Turbo	1993-95
		620 2.0i 16V Turbo	1993-99
		820 16V Turbo (RS)	1992-99


Reemplaza/Suitable: Bosch 0258 003 193
NTK OZA527-E8

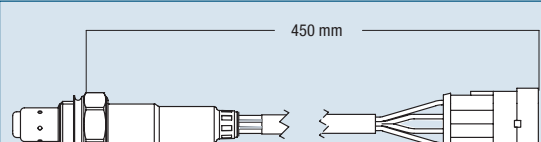
4
Zr

77217
Adatt. Universal 77004

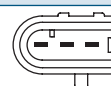
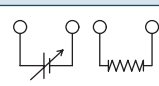
FIAT		LANCIA	
Barchetta 1.8i 16V (183A1)	1998 ->	Lybra 1.8i 16V	1999 ->
Barchetta 1.8i 16V (188A6)	1995 ->	Lybra SW 1.8i 16V	1999 ->
Panda 1100 ie, 4x4	2001-03		
Panda 1.1i (187A1000)	2003 ->		
Panda 1.2i (188A4000)	2003 ->		
Punto 1.8i HGT	1999 ->		
Punto 1.8i 16V	2003 ->		
Seicento 1.1i	1999 ->		
Stilo 1.8i 16V	2001 ->		
Stilo MultiWagon 1.8i 16V	2003 ->		


Reemplaza/Suitable: Fiat 46529385, 46760867, 55184545
NTK OZA334-A3, OZA532-A3, OZA532-A3

4
Zr

77218
Adatt. Universal 77004

FIAT		LANCIA	
Doblo 1.6i 16V, Cargo	2001 ->	Lybra 1.6i 16V	1999 ->
Palio 1.2i (178E2)	1998 ->	Lybra SW 1.6i 16V	1999 ->
Palio 1.5i (178E5022)	2001 ->		
Palio 1.6i 16V (IND, TR)	2001 ->		
Palio Weekend 1.6i 16V	2001 ->		
Siena 1.5 (178E5022)	2002 ->		
Siena 1.6i 16V	2002 ->		
Strada 1.2	1999 ->		


Reemplaza/Suitable: NTK OZA112-A6, OZA534-R2, OZA534-A2
FIAT 46481457, 46786046, 46737471

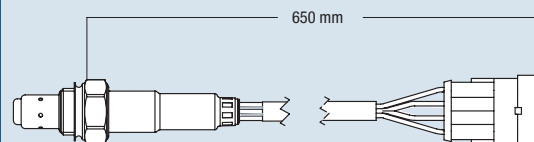
4
Zr




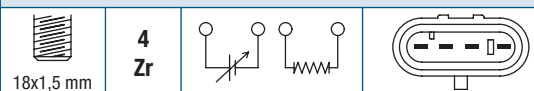
77219

Adatt. Universal 77004

FIAT		LANCIA	
Brava 1.6i 16V 4690686->	1996-01	Dedra 1.6i 16V 3297145->	1996-01
Brava 1.6i 16V (182B6)	2000-01	Dedra SW 1.6i 16V	1996-99
Bravo 1.6i 16V (182A4)	1996-01	Delta 1.6 ie	1996-99
Bravo 1.6i 16V (182B6)	2000-01	Delta 1.6 ie 16V	1999->
Marea 1.6i 16V 0176690->	1996->	Lybra 1.6i 16V	1999->
Marea 1.6i 16V (182B6)	2000->	Lybra SW 1.6i 16V	
Marea Weekend 1.6i 16V	1996->		
Multipla 1.6i 16V, Bipower	2001->		
Palio 1.6i 16V	1999-01		
Palio Weekend 1.6i 16V	1996-01		
Siena 1.6i 16V (PL, TR)	1999-01		
Stilo 1.8 16V	2003->		



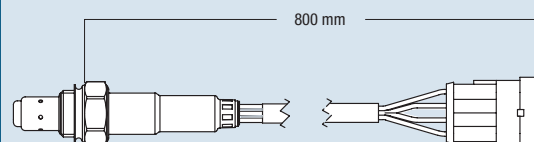
Reemplaza/Suitable: Fiat 46521170, 46774531
NTK OZA334-A1, OZA532-A2, OZA534-A1



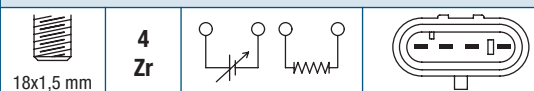
77220

Adatt. Universal 77004

FIAT	
Palio 1.2 (178C4066)	2001->
Palio 1.4 (178B2)	1996->
Palio 1.6i 16V (178B3)	1996-99
Palio 1.6i 16V Sport	2001->
Palio Weekend 1.2i	1996-01
Palio Weekend 1.6i 16V	1998->
Siena 1.2i (178B5)	1998->
Siena 1.4i (178B2)	1996->
Siena 1.6i 16V (182B6)	2002->
Siena 100 1.6i 16V (PL)	1997-99



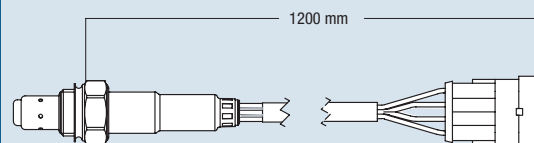
Reemplaza/Suitable: NTK OZA112-A7, OZA532-A9, OZA112-A4
FIAT 46447841, 46555846, 46823880



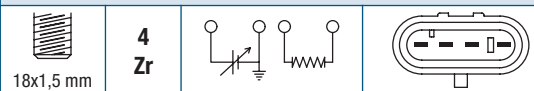
77221

Adatt. Universal 77008

ALFA ROMEO		FIAT		LANCIA	
146 2.0i 16V T.S.	1996-01	Croma 2500 V6	1993-96	Kappa 3.0i V6 24V	1994-01
156 1.6i 16V T.S.	1997-05			Kappa Coupe 3.0i 24V	1997-00
156 Sportwagon 1.6i 16V	2000-05			Kappa SW 3.0i 24V	1996-01
164 2.0i T.S.	1996-99				
164 3.0i V6	1996-98				
GTV 2.0i 16V T.S.	1995-98				
GTV 3.0i V6 24V	1996-00				
Spider 2.0i 16V T.S.	1995-98				
Spider 3.0i V6	1995-05				



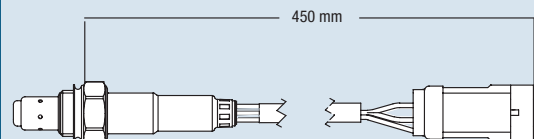
Reemplaza/Suitable: Bosch 0258 003 390
Fiat 46408449, 46455518



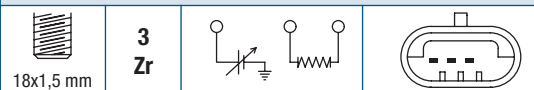
77222

Adatt. Universal 77003

RENAULT	
Clio 1.6i (K4M)	1999-02
Kangoo 1.6i (K4M)	2001-03
Kangoo Express 1.6i	2001-03
Megane 1.6i (K4M)	2000-02
Megane 1.6i 16V (K4M706)	1999-02
Megane 1.6i 16V (K4M730)	1997-01
Megane 2.0i 16V (F4R)	2000-03
Megane Classic 1.6i 16V	1999-02
Megane Coach 1.6i 16V	1999-02
Scenic 1.6i 16V (K4M)	1999-02



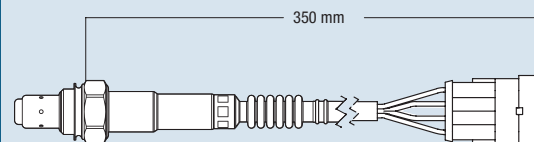
Reemplaza/Suitable: Renault 8200 024 503



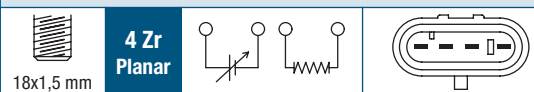
77223

Adatt. Universal 77015

ALFA ROMEO		FIAT Cont.		FIAT Cont.	
147 1.6i 16V TS Eco	2001->	Idea 1.4i 16V	2004->	Stilo 2.4i 20V	2001->
147 3.2 GTA	2003->	Grande Punto 1.2, 1.4	2005->	Yesilon 1.2, 1.4	2003->
166 6T, 6TV	2000->	Linea 1.4	2007->		
Mito 1.4	2008->	Marea 1.2i 16V	1998->	LANCIA	
Spider 3.2 V6	2003-05	Marea 1.8i 16V 2018321->	1996->	Delta III 1.4	2008->
		Palio 1.2i, SL, S.W.	2001->	Musa 1.4	2004->
		Palio 1.2i 16V, S.W.	2001->		
		Panda 1.4	2006->		
		Punto 1.2i 16V	1999->		
		Punto 1.4i 16V	2003->		
		Siena 1.2i SL	2002->		
		Siena 1.2i 16V	2002->		



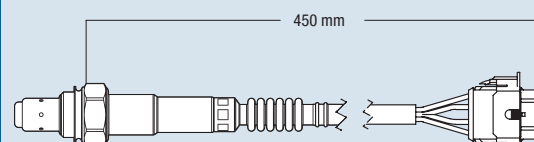
Reemplaza/Suitable: Bosch 0258 006 206
NTK OZA341-A1, OZA659-EE3, 1798



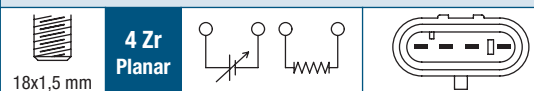
77224

Adatt. Universal 77015

ALFA ROMEO		FIAT		LANCIA	
147 1.6i 16V T.S.	2001->	Doblo 1.6i 16V	2001->	Lybra 2.0 20V	2000->
147 2.0i 16V T.S.	2001->	Doblo Cargo 1.6i 16V	2001->	Thesis 2.4	2002->
156 1.6, 1.8, 2.0 16V	1997-05	Stilo 1.6i 16V	2001->		
156 SportWagon	2000-05	Panda 1.4	2006->		
166 2.0i Twin Spark	2000->				
GT 1.8 TS	2003->				
Spider 2.0 16V	2001-05				



Reemplaza/Suitable: Bosch 0258 006 376
Fiat 46762182




77225
Adatt. Universal 77015
ALFA ROMEO

147 1.6i 16V T.S. Eco
156 2.0 JTS S.W.
156 2.5 V6 24V
166 2.0i Twin Spark
GT 2.0i JTS
GTV 3.0 V6 24V
Mito 1.4 TB
Spider 2.0 ITS

2001 ->
2002-05
1997-00
2003 ->
2003 ->
1997-00
2008 ->
2003-05

FIAT

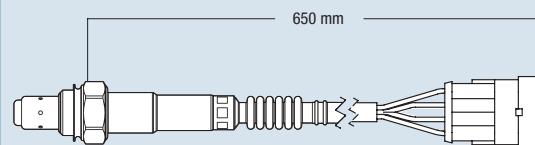
Bravo 1.4 T-Set
Bravo 2.0i HGT 20V
Coupe 2.0i 20V
Grande Punto 1.4
Linea 1.4 T-Set
Marea 2.0i 20V
Siena 1.6i 16V
Stilo 1.6i 16V

2007 ->
1998-01
1998-00
2007 ->
2007 ->
1999-01
2002 ->
2001 ->

LANCIA

Delta III 1.4
Kappa 2.0i 20V 2087519->
Kappa 2.4i 20V 7002899->
Lybra 2.0i 20V

2008 ->
1996-01
1998-01
1999-00

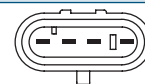
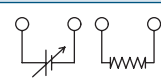


Reemplaza/Suitable: Bosch 0258 006 193, 0258 006 375
Fiat 46750243, 60814851



18x1,5 mm

4 Zr
Planar


77226
Adatt. Universal 77015
ALFA ROMEO

145 1.4 ie 16V 3174687->
145 1.6 ie 16V 3174687->
145 1.7 ie 16V
145 2.0i 16V Quadrifoglio
146 1.4 ie 16V 3174687->
146 1.6 ie 16V 3174687->
146 1.7 ie 16V TS
146 2.0i 16V Quadrifoglio
156 1.6i 16V TS 23373->
156 1.8i 16V TS
156 2.0i 16V TS

1997-01
1997-01
1998-01
1998-01
1997-01
1997-01
1998-01
1998-01
2000-05
1997-00
1997-00

ALFA ROMEO Cont.

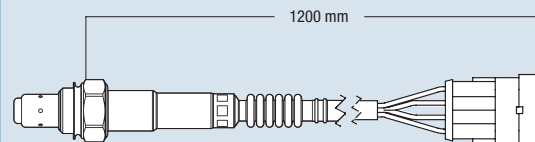
156 2.5 V6 24V
166 2.0i V6
166 2.5i V6 24V
166 3.0i V6 24V
GTV 1.8i 16V
GTV 2.0i 16V TS
GTV 3.0i V6 24V
Spider 1.8i 16V
Spider 2.0i 16V TS

1997-00
1998 ->
1998-00
1998-00
1998 ->
1998-00
1997-00
1998-05
1998-00

FIAT

Doblo 1.2i
Doblo 1.6i 16V
Doblo Cargo 1.2i
Doblo Cargo 1.6i 16V
Kappa 3.0i 24V 7002899->

2001-04
2002-04
2001-04
2002-04
1994-01

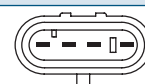
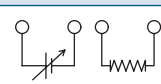


Reemplaza/Suitable: Bosch 0258 006 190, 0258 006 191
Fiat 46750241, 46447510



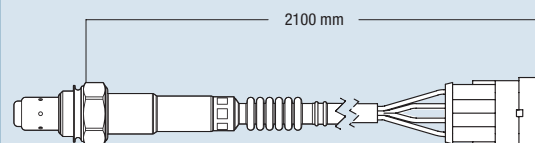
18x1,5 mm

4 Zr
Planar


77227
Adatt. Universal 77015
ALFA ROMEO

147 1.6i 16V TS
147 2.0i 16V TS
147 3.2 GTA
156 2.5i V6 24V
156 3.2 GTA
156 Sport Wagon 2.5 V6
156 Sport Wagon 3.2 GTA
GT 3.2 V6 24V
GTV 3.0 V6 24V
GTV 3.2 V6 24V
Spider 3.0 V6
Spider 3.2 V6 24V

2001 ->
2001 ->
2003 ->
2000-05
2000-05
2000-05
2002-05
2004 ->
2000 ->
2003 ->
2000-05
2003-05

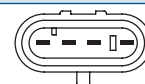
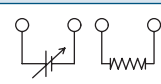


Reemplaza/Suitable: Bosch 0258 006 388, 0258 006 424
Alfa Romeo 46760863, 46805749



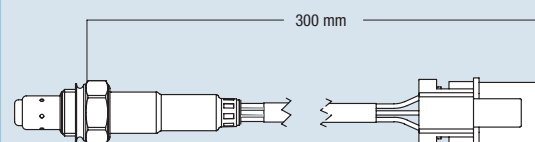
18x1,5 mm

4 Zr
Planar


77228
Adatt. Universal 77003
NISSAN

Primera 2.0i 16V (P11)
Primera Hatchback 2.0i
Primera Wagon 2.0i (MPI)
Primera Wagon 2.0i 16V

1996-99
1996-99
1998-99
1996-98

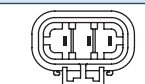
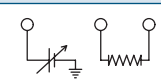


Reemplaza/Suitable: Bosch 0258 003 624, 0258 003 482, 827
Nissan 22690-3J410, 22690-97N00



18x1,5 mm

3 Zr


77229
Adatt. Universal 77003
FORD

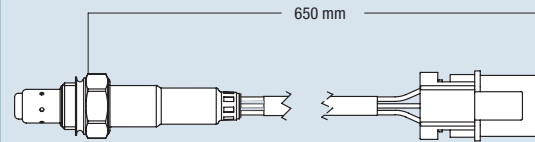
Maverick 2.4i (KA24)

1996-98

NISSAN

Primera 2.0 GT
Primera 2.0i EGI Cat.
Primera 2.0i (SR20DE)
Serena 2.0i 16V
Terrano II 2.4i, 4WD
300 ZX 3.0i Turbo

1990-95
1990-95
1995-96
1993-98
1996-02
1990-95

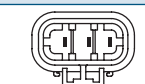
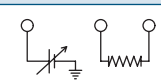


Reemplaza/Suitable: Bosch 0258 003 634, 0258 003 742, 473, 832
Nissan 22690-QJ000, 22690-7F000



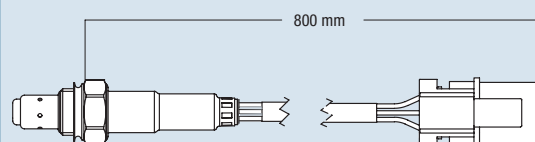
18x1,5 mm

3 Zr


77230
Adatt. Universal 77003
NISSAN

Serena 1.6i 16V
Vanette Cargo 1.6i

1993-98
1995-01

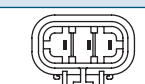
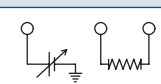


Reemplaza/Suitable: Bosch 0258 003 283
Nissan 22690-40U05, 22690-4L000



18x1,5 mm

3 Zr

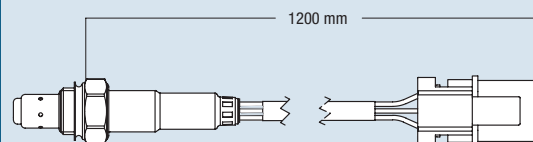




77231

Adatt. Universal 77003

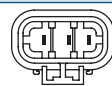
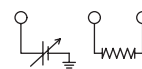
FORD		NISSAN	
Maverick 2.4i (KA24E)	1993-96	Terrano II 2.4i 12V	1993-96
Maverick 2.4i (KA24)	1996-98	Terrano 2.4i, 4WD. (KA24E)	1996-02



Reemplaza/Suitable: Bosch 0258 003 286, 0258 003 897
Nissan 22690-oF410, 22690-7F005



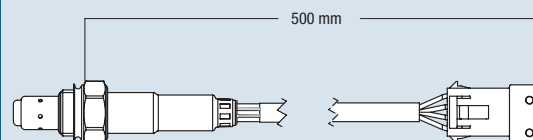
3
Zr



77232

Adatt. Universal 77004

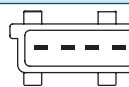
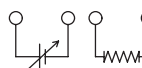
SAAB		VOLVO	
900 2.5i V6 24V (CDN,USA)	1996-98	850 2.0, 2.3, 2.5	1996-97
900 Cabrio 2.5i V6 24V	1996-98	850 Wagon	1996-97
900 Coupe 2.5i V6 24V	1996-98	C70 2.0, 2.3, 2.5	1997-99
9000 3.0i V6 24V (CDN,USA)	1996-98	C70 Cabrio, Coupe	1997-02
9000 3.0i V6 CD, CDE	1996-98	S70 2.0, 2.3, 2.4, 2.5	1997-98
9000 3.0i V6 CS, CSE	1996-98	S70 Turbo	1997-98
9-3 1.8t, Cabrio, Wagon	2002 ->	XC70 2.4 TXC	1997-02
9-3 2.0i T, Cabrio, Wagon	2002 ->	V70 2.0, 2.3, 2.4, 2.5	1997-98
		V70 Wagon	1997-00



Reemplaza/Suitable: Bosch 0258 003 654, 593, 746, 0258 005 097
NTK OZA660-EE11, OZA575-GM1, 5697



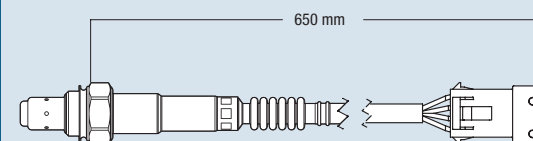
4
Zr



77233

Adatt. Universal 77015

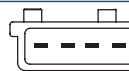
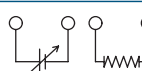
VOLVO		VOLVO Cont.		VOLVO Cont.	
C70 Cabrio 2.0 T	1999-02	S70 2.0 20 V, Turbo	1999-00	V70 Wagon ->Ch.651216	1999-00
C70 Cabrio 2.3 20V T	2003-05	S70 2.3 T5, Turbo	1999-00	V70 2.0 20V	1999-00
C70 Cabrio 2.5 T	1999-02	S70 2.4 Turbo	1999-00	V70 2.0 20V Turbo	1999-00
C70 Cabrio 2.5 Turbo	2000-02	S70 2.5 turbo	1999-00	V70 2.0 Turbo, AWD	1999-00
C70 Coupe 2.0 T	1999-02	S80 2.8 T6	2003-06	V70 2.3 T5, AWD	1999-00
C70 Coupe 2.3 T5	1999-02	S80 2.9	2003-06	V70 2.3 Turbo	1999-00
C70 Coupe 2.5 T	1999-02	S80 3.0, 3.0 T6	2003-06	V70 2.4 Turbo	1999-00
C70 Coupe 2.5 Turbo	1999-02			V70 2.5 Turbo, AWD	1999-00
				XC70 2.4 TXC	1997-02



Reemplaza/Suitable: Bosch 0258 006 197, 0258 006 523, 522
Volvo 30637521, 8631668, 9458189



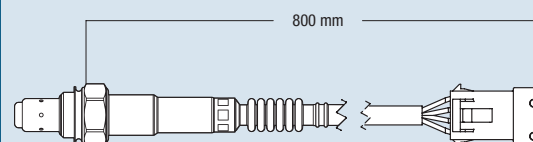
4 Zr
Planar



77234

Adatt. Universal 77015

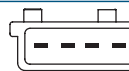
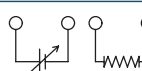
SAAB		VOLVO		VOLVO Cont.	
9-3 2.0i 16V (B205E)	2000-02	S60 2.0 T	2001 ->	V70 2.0 T	2001 ->
9-3 2.0i 16V (B205L)	2000-03	S60 2.3 T	2000 ->	V70 2.3 T5	2000 ->
9-3 2.0 i 16V (B205R)	2000-03	S60 2.4 T, AWD	2001 ->	V70 2.3 Turbo AWD	2001 ->
9-3 2.3i 16V (B235R)	2000-03	S60 2.5 T, AWD	2002 ->	V70 2.4 T, AWD	2000 ->
9-5 2.0 T Ch. Y304001->	1997 ->	S80 2.0, 2.0 T	1998-06	V70 2.5 T, AWD	2002 ->
9-5 2.3 T Ch. Y304001->	1997 ->	S80 2.3 T	2001-06	XC70 2.3 T XC	2001 ->
9-5 2.3 Turbo	1999 ->	S80 2.4 T	2000-06	XC70 2.4 T XC	2000-02
9-5 3.0 T V6	1998 ->			XC70 2.5 T XC	2002 ->



Reemplaza/Suitable: Bosch 0258 006 199, 0258 006 446
Saab 45 70 909 - Volvo 9186934-7



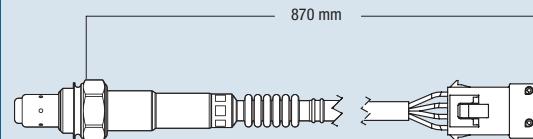
4 Zr
Planar



77235

Adatt. Universal 77015

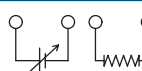
SAAB	
9-3 2.0i 16V (B205E)	2000-03
9-3 2.0i 16V (B205L)	2000-03
9-3 2.0 i 16V (B205R)	2000-03
9-3 2.3i 16V (B235R)	2000-03
9-5 2.0 T (B205E)	1997 ->
9-5 2.3 T (B235E)	1997 ->
9-5 2.3 Turbo	1999 ->



Reemplaza/Suitable: Bosch 0258 006 175
Saab 45 70 917



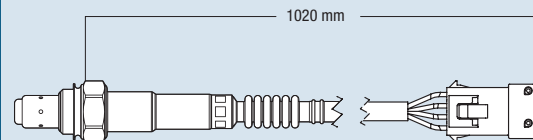
4 Zr
Planar



77236

Adatt. Universal 77015

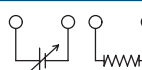
VOLVO	
S80 2.0 (B5204 T4)	1989-99
S80 2.0 T	1999-06
S80 2.8 T6	2001-02
S80 2.9 (B6294S)	1999-02
S80 2.9 (B6304S3)	1998-02
S80 3.0	2001-02
S80 3.0 T6	2001-02



Reemplaza/Suitable: Bosch 0258 006 200, 0258 006 447
Volvo 8670130, 9470571-2

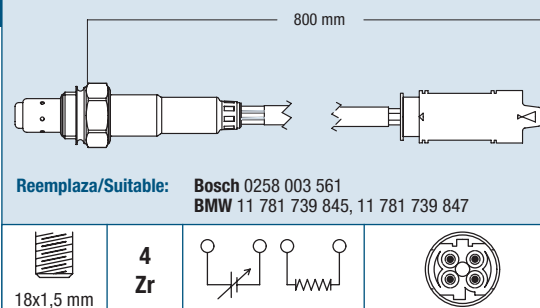


4 Zr
Planar

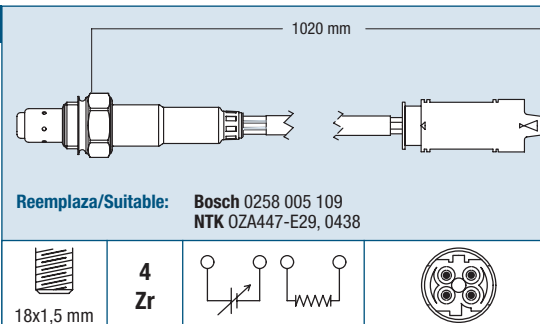



77237
Adatt. Universal 77004

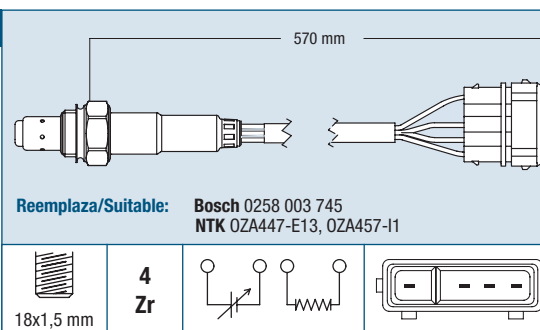
BMW	BMW Cont.	
316i (M43)	1998-05	330i, Touring
316i Compact	1998-00	330 Ci Coupe
316 Ci Coupe (M43)	2000-05	750 i, il (M73)
318i, Touring. (M43)	1998-01	X 5 4.4i (M62)
318 Ci Coupe (M43)	1999-01	X 5 4.6 is
320i, Touring. (M52)	1998-00	Z 3 2.0i (M52)
320i, Touring. (M54)	2000 ->	Z 3 2.8i (M52)
323i, Ci Coupe. (M52)	1998-00	Z 3 3.0i
328i, Touring. (M52)	1998-00	
328 Ci Coupe (M52)	1999-00	


77238
Adatt. Universal 77004

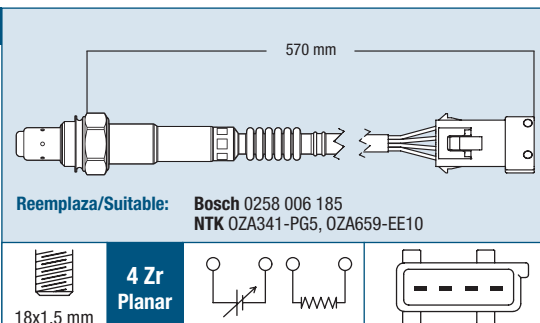
BMW	BMW Cont.	BMW Cont.	
320i, Touring, Ci. (M52)	1998-00	520i, Touring	1996-03
320i, Touring (M54)	2000-05	523i, Touring (M52)	1996-00
320 Ci Cabrio, Coupe	1999-05	525i, Touring	2000-03
323i, Ci, Cabrio, Coupe	1998-00	528i, Touring (M52)	1996-00
325i, xi, Touring (M54)	2000-05	530i, Touring	2003-03
325 Ci Cabrio, Coupe	2000-05	728 i, il (M52)	1995-01
325 ti Compact (M54)	2001-05	730 i, il	2003 ->
328i, Ci Coupe, Touring	1998-00	740i, 750i	2005 ->
330i, xi, Touring	2000-05	X3 2.0i	2005 ->
330 Ci Cabrio, Coupe	2000-05	X 3 3.0i	2004 ->
		X 5 3.0i	2000 ->


77239
Adatt. Universal 77004

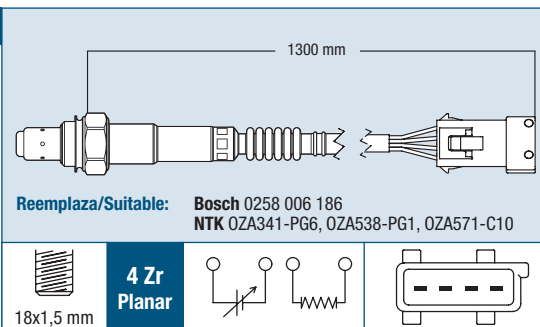
SKODA	VOLKSWAGEN	
Favorit 1.3 Pick-up	1992-97	Caddy Pick-up 1.6i (AEE)
Felicia 1.3i (AMG, AMH)	1994-01	
Felicia 1.6i LX (AEE)	1995-01	
Felicia Fun 1.6 (AEE)	1997 ->	
Felicia Kombi 1.3 LX	1995-98	
Felicia Kombi 1.3i, LXI	1995-01	
Felicia Kombi 1.6i GLX	1995-01	
Felicia Pick-up 1.3i	1996-01	


77240
Adatt. Universal 77015

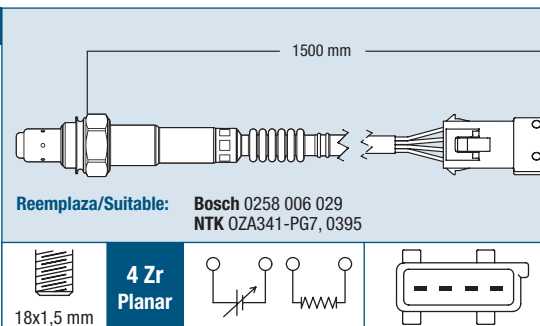
CITROEN	CITROEN Cont.	PEUGEOT Cont.	
Berlingo 1.1i	1996 ->	306 1.4 SL, Break	1994-02
Berlingo 1.4i	1996 ->	306 1.6i, Break, Cabrio	2000-02
Berlingo 1.6i 16V	2000 ->	307 1.4i	2000 ->
C2 1.6, 1.6 VTS	2003 ->	307 1.6i, 307 SW 1.6i	2000 ->
C 3 1.1i	2002 ->	406 3.0i V6, Break, Coupe	2000-04
C 3 1.4i, Pluriel	2002 ->	407 3.0 V6	2004 ->
C 3 1.6i 16V, Pluriel	2002 ->	607 3.0i V6 24V	1996 ->
C4 1.6 16V	2005 ->	807 3.0 V6	2002 ->
C 5 3.0i V6, Break	2001-04	Partner 1.1i, 1.4i	1996 ->
Saxo 1.1i X, SX (CEE2000)	1996-03	Partner 1.6i 16V	2001 ->
Saxo 1.4i VTS (CEE2000)	1996-03		
Saxo 1.6i VTS (CEE2000)	1996-03		


77241
Adatt. Universal 77015

CITROEN	FIAT	PEUGEOT	
C 5 1.8 16V ->N° 08854	2001-04	206 2.0i 16V (CEE2000)	1999 ->
C 5 2.0 16V ->N° 08854	2001-04	206 CC 2.0i 16V	2000 ->
C 5 2.0 HPI ->N° 08907	2001-04	306 1.8i 16V, Break	1997 ->
C 5 3.0 V6	2004 ->	306 Cabrio 1.8i 16V	2000 ->
C 5 Break 16V	2001-04	406 1.8i 16V, Break	2000 ->
Jumper 2.0i	2002 ->	406 2.0 16V HPI	2001 ->
		406 2.2i, Break	2000 ->
		Boxer 2.0	2002 ->


77242
Adatt. Universal 77015

CITROEN	FIAT	PEUGEOT	
C4 2.0 16V	2004 ->	206 1.4i (Depol IFL4)	1998 ->
Evasion 2.0i 16V	1998-00	307 2.0i 16V	2000 ->
Xantia 1.8i 16V, Break	1998-03	307 SW 2.0i 16V	2002 ->
XSara 2.0i 16V	2000-05	406 1.8i 16V, Break	1996-00
XSara Break 2.0i 16V	2000-05	406 2.0i 16V, Break	1999-04
XSara Coupe 2.0i 16V	2000-05	406 Coupe 2.0i 16V	1999-04
XSara Picasso 1.8i 16V	2000-05	607 2.0i 16V	2000 ->
		607 2.2i 16V	2000 ->
		806 2.0i 16V	1998-00





77243

Adatt. Universal 77004

BMW	BMW Cont.	BMW Cont.	BMW Cont.
316i, Compact	1998-05	330i, xi, Touring	2000 ->
316i, Ci Coupe, (M43)	2000-05	330 Ci Cabrio, Coupe	2000 ->
318i, Ci Coupe, touring	1998-01	520i, Touring	1998-03
318 is, Coupe, ti Compact	1995-00	523i, Touring (M52)	1998-00
320i, Touring, Ci, (M52)	1998-00	525i, Touring	2000-04
320i, Touring (M54)	2000-05	528i, Touring (M52)	1998-00
320 Ci Cabrio, Coupe	1999 ->	530i, Touring	2000-04
323i, Ci, Cabrio, Coupe	1998-00	535i, 540i, Touring (M62)	1996-03
325i, xi, Touring (M54)	2000-05	728 i, il (M52)	1995-01
325 Ci Cabrio, Coupe	2000-05	730 i, il	2003 ->
325 ti Compact (M54)	2001-05	735 i, il (M62)	1996-01
328i, Ci Coupe, Touring	1998-00	740 i, il (M60, M62)	1994-01
		750 i, il (M73)	1995-01
		840 Ci (M62)	1996-99
		850 Ci (M73)	1994-99
		F650 GS, F650 GS	2001-03
		X 3 3.0i	2004 ->
		X 5 3.0i, 4.4i, 4.6 is	2000 ->
		Z 3 1.9i (M43, M44)	1995-03
		Z 3 2.0i, 2.2i	1999-03
		Z 3 2.8i, Coupe (M52)	1998-00
		Z 3 3.0i, Coupe	2000-03
		Z 4 2.2i, 2.5i, 3.0i	2003 ->
		Z 8 4.9i (S38)	2000-03

350 mm

Reemplaza/Suitable: Bosch 0258 003 477, 0258 003 559, 802 NTK OZA447-E27, OZA447-E28, 0427

18x1,5 mm

4 Zr

77244

Adatt. Universal 77015

FORD	FORD Cont.	FORD Cont.
Escort 1.4 Van (TR, ZA)	1995-00	Puma 1.7i 16V
Escort 1.4 Cabrio (F4B)	1995-00	Scorpio 2.0i, Wagon
Fiesta 1.25i 16V	1995-98	Scorpio 2.0i 16V (N3A)
Fiesta 1.4i 16V	1996-98	Scorpio 2.3i 16V (Y5A)
Fiesta 1.4i 16V CTX	1998-02	Scorpio Wagon 16V
Fiesta 1.8i 16V (RDB)	1992-95	Transit 2.0i, Tourneo
Fiesta XR2i 16V (RQC)	1992-95	
Galaxy 2.0i	1996-00	
Galaxy 2.3i 16V	1997 ->	
Puma 1.4i 16V	1997-00	

400 mm

Reemplaza/Suitable: NTK OZA33-D5 Ford 1010006, 6543626, 7318042

18x1,5 mm

4 Zr Planar

77245

Adatt. Universal 77009

FORD	FORD Cont.	FORD Cont.
Escort 1.6i 16V (L1E)	1992-98	Escort Wagon 1.6i 16V
Escort 1.6i 16V 4x4	1995-98	Escort Wagon 1.8i 16V
Escort 1.8i 16V (RDA, RQB)	1992-95	Escort XR3i (RDA, RQB)
Escort 1.8i 16V (RKC)	1996-99	Fiesta 1.6i 16V (L1G)
Escort Cabrio 1.6i 16V	1993-95	Orion 1.6i 16V (L1E)
Escort Cabrio 1.8i 16V	1992-95	Orion 1.8i 16V (RDA, RQB)
Escort Cabrio XR3i	1992-95	
Escort Classic 1.6i 16V	1998-00	
Escort Nomade 1.6i 16V	1999-00	
Escort RS 2000, 4x4	1991-98	

650 mm

Reemplaza/Suitable: Ford 6628848, 6847908, 93AB-9F472-AA NTK OZA33-D8

18x1,5 mm

4 Zr

77246

Adatt. Universal 77004

OPEL	OPEL Cont.	VAUXHALL
Astra 1.8i 16V	2000 ->	Vectra 1.8i 16V
Astra Cabrio 1.8 16V	2001 ->	Vectra Familiar 1.8 16V
Astra Coupe 1.8 16V	2000 ->	Zafira 1.8i 16V
Astra Familiar 1.8 16V	2000 ->	
Corsa C 1.8i 16	2000 ->	Motor / Engine / Moteur:
Meriva 1.8	2003 ->	Z18XE.
Omega B 2.2i 16V	1999 ->	SAAB
Signum 1.8	2003 ->	9-3 1.8i
Tigra Twintop 1.8	2004 ->	2004 ->

300 mm

Reemplaza/Suitable: NTK OZA334-SZ4, 0418 Opel 855361, 855389

18x1,5 mm

4 Zr

77247

Adatt. Universal 77004

OPEL	OPEL Cont.	VAUXHALL
Astra 1.8i 16V	2000 ->	Vectra 1.8i 16V
Astra Cabrio 1.8 16V	2001 ->	Vectra Familiar 1.8 16V
Astra Coupe 1.8 16V	2000 ->	Zafira 1.8i 16V
Astra Familiar 1.8 16V	2000 ->	
Corsa C 1.8i 16	2000 ->	Motor / Engine / Moteur:
Meriva 1.8	2003 ->	Z18XE.
Omega B 2.2i 16V	1999 ->	SAAB
Signum 1.8	2003 ->	9-3 1.8i
Tigra Twintop 1.8	2004 ->	2004 ->

800 mm

Reemplaza/Suitable: NTK OZA334-SZ1, 0485 Opel 855356

18x1,5 mm

4 Zr

77248

Adatt. Universal 77015

OPEL	VAUXHALL
Astra 2.2i 16V	2001-05
Astra Cabrio 2.2 16V	2001-05
Astra Coupe 2.2 16V	2000-05
Astra Familiar 2.2 16V	2001-05
Speedster 2.2	2000 ->
Vectra 2.2i 16V	2000-02
Vectra Familiar 2.2 16V	2000-03
Zafira 2.2i 16V	2000-05

1300 mm

Reemplaza/Suitable: NTK OZA531-GM2, 1863 Opel 855371, 855372

18x1,5 mm

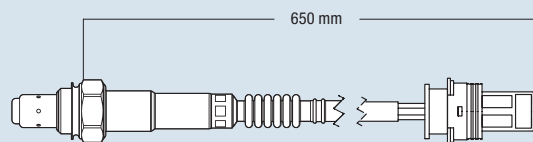
4 Zr Planar



77249

Adatt. Universal 77015

MERCEDES BENZ		MERCEDES Cont.	
C 180, Kompressor, Coupe	2000 ->	E 200 Kompressor	2003 ->
C 200, Kompressor	2002 ->	E 240 (M112.911)	1997-00
C 200 CGI, Coupe	2002 ->	E 240 (M112.914)	2000-02
C 230 Kompressor, Coupe	2002 ->	E 240 4Matic	2003 ->
C 240, 4Matic	2002 ->	E 280, 4Matic	1997-02
C 320, 4Matic, Coupe	2000 ->	E 320, 4Matic	1997 ->
CLK 180 Kompressor	2002 ->	E 430, 4Matic	1997-02
CLK 200 Kompressor	2002 ->	E 500, 4Matic	2003 ->
CLK 230 Kompressor	2000-02	E 55 AMG, T	1997-02
CLK Cabrio 200 CGI	2003 ->		
CLK Cabrio 230	2000 ->		

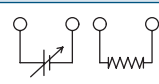


Reemplaza/Suitable: Bosch 0258 006 268, 353, 359, 384, 475
MB 001 540 8517, 001 540 4717



18x1,5 mm

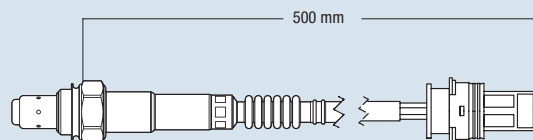
4 Zr
Planar



77250

Adatt. Universal 77015

MERCEDES BENZ		MERCEDES Cont.		MERCEDES Cont.	
C 180, Coupe, Wagon	2000-02	CLK 320, Cabrio	2002 ->	S 350, 4Matic	2002-05
C 240, 4Matic	2000 ->	CLK 500, Cabrio	2002 ->	S 430, 4Matic	1998-05
C 32 AMG, Kompressor	2001 ->	CLK 55 AMG, Cabrio	2002 ->	S 500, 4Matic	1998-05
C 320, 4Matic	2002 ->	Clase E N° B173368 ->	1997-02	S 55 AMG, Kompressor	1999-05
CL 500	1999 ->	Clase E N° X044900 ->	1997-02	S 600	2000-05
CL 600	1999 ->	E 200 Kompressor	2000-02	SL 350	2003 ->
CL 55 AMG, Kompressor	2000 ->	S Coupe CL 500	1999-05	SL 500	2001 ->
CLK 200 Kompressor, Cabrio	2000-02	S Coupe CL 55 AMG	2000-05	SL 55 AMG	2001 ->
CLK 230 Kompressor, Cabrio	2000-02	S Coupe CL 600	1999-05	SLK 32 AMG Kompressor	2001 ->
CLK 240, Cabrio	2002 ->	S 280	1998-05	SLK 230 Kompressor	2000 ->
CLK 270 CDI	2002 ->	S 320	1998-05	SLK 320	2000 ->

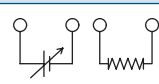


Reemplaza/Suitable: Bosch 0258 006 167, 0258 006 181, 274, 438
MB 001 540 0617, 001 540 5117



18x1,5 mm

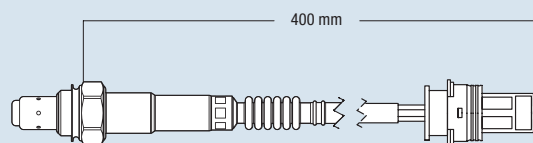
4 Zr
Planar



77251

Adatt. Universal 77015

MERCEDES BENZ		MERCEDES Cont.		MERCEDES Cont.	
A 140	1997-04	E 240, 4Matic	2002-03	S 430	1998-05
A 160	1997-04	E 320, 4Matic	2002-03	S 500	1998-05
A 190	1999-04	E 500, 4Matic	2002-03	S 55 AMG, Kompressor	1999-05
A 210	2002-04	E 55 AMG, Kompressor	2002 ->	S 600	2002-05
C 200 Kompressor	2000-02	ML 320	1998-02	S Coupe CL 500	1999-05
Coupe C200 Kompressor	2001-02	ML 350	2002 ->	S Coupe CL 55 AMG	2000-05
Coupe C230 Kompressor	2001-02	ML 430	1998 ->	S Coupe CL 600	2002-05
CL 500 N° A008071->	1999 ->	ML 500	2001 ->	SLK 200 Kompressor	2000 ->
CL 55 AMG, Kompressor	2000 ->	S 280	1998-05	SLK 230 Kompressor	2000 ->
CL 600	2002 ->	S 320	1998-05	SLK 32 AMG Kompressor	2001 ->
Clase E N° B173368->	1997-02	S 430	1998-05	SLK 320	2000 ->

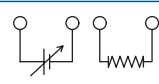


Reemplaza/Suitable: Bosch 0258 006 125, 0258 006 272, 276, 473
MB 001 540 6017, 002 540 0117



18x1,5 mm

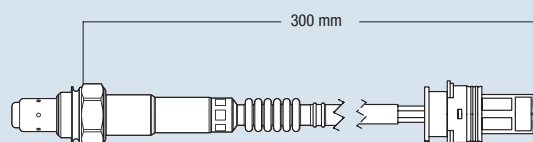
4 Zr
Planar



77252

Adatt. Universal 77015

MERCEDES BENZ		MERCEDES Cont.		SMART	
A 140	1997-04	ML 320	1998-02		
A 160	1997-04	ML 350	2002 ->	City Coupe 0.6	1998 ->
A 190	1999-04	ML 430	1998 ->		
A 210	2002-04	ML 500	2001 ->		
C 180, Wagon	2000-02	S 600	2000 ->		
Coupe C 180	2001-02	S Coupe CL 600	1999 ->		
CL 600	1999 ->	SLK 200 Kompressor	2000 ->		
CLK 200 Kompressor	2000-02	SLK 230 Kompressor	2000 ->		
CLK 230 Kompressor	2000-02	SLK 32 AMG Kompressor	2001 ->		
CLK Cabrio Kompressor	2000 ->	SLK 320	2000 ->		
G 55 AMG	2001 ->	Sprinter	2001-06		
		Vaneo 1.6i, 1.9i	2002 ->		

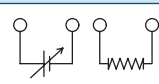


Reemplaza/Suitable: Bosch 0258 006 123, 0258 006 330, 331, 436
MB 001 540 3717, 001 540 5617



18x1,5 mm

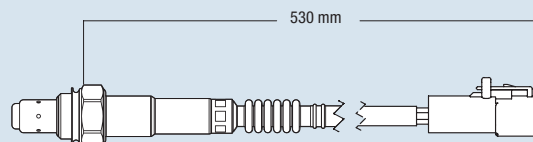
4 Zr
Planar



77253

Adatt. Universal 77015

FORD		FORD Cont.		MAZDA	
Cougar 2.0i 16V	1998 ->	Fusion 1.4	2002 ->	121 1.3i	1996 ->
Fiesta 1.25i 16V	1998-00	Fusion 1.4 TDCi	2002 ->		
Fiesta 1.3i, Van	1998-02	Fusion 1.6	2002 ->		
Fiesta 1.4i 16V	2001-02	Galaxy 2.3i 16V	1997 ->		
Fiesta 1.6i 16V, Sport	2000-02	KA 1.3i	1996 ->		
Focus 1.4 EFI, 1.6 EFI	1998-04	Mondeo 1.6i, 1.8i, 2.0i	1998-00		
Focus 1.4i 16V	1998-04	Mondeo 1.6i 16V	1998-00		
Focus 1.6i 16V	1998-04	Puma 1.7 16V	2000 ->		
Focus 1.8i 16V	1998-04	Tourneo 1.8i 16V	2002 ->		
Focus 2.0i 16V	1998-04	Transit 1.8i 16V	2002 ->		

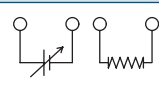


Reemplaza/Suitable: Bosch 0258 006 155, 0258 006 484
Ford 1053108, 1088851, 1143514



18x1,5 mm

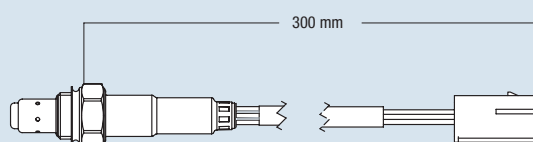
4 Zr
Planar



77254

Adatt. Universal 77009

FIAT		MAZDA	
UNO 1.0 ie	1989-94	626 1.8i (FP)	1992-97
		626 2.0i, 4WD. (FS)	1992-97
		626 2.5i 24V	1992-97
		626 Coupe 2.0 i 16V	1994-97
		MPV 3.0i V6	1996-99
		MX6 2.0i	1992 ->
		MX6 2.5i 24V	1992 ->
		Xedos 6 2.0i V6	1992-94

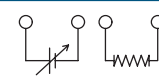


Reemplaza/Suitable: Motorcraft DY-672, DY-790
NTK OZA114-A1, OZA253-F6, OZA74-F3



18x1,5 mm

4
Zr

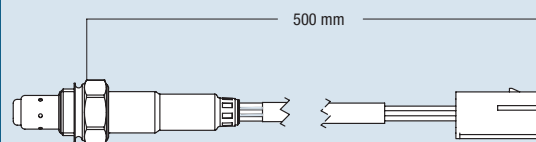




77255

Adatt. Universal 77009

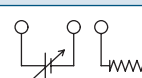
CHEVROLET		FORD		MAZDA	
Aveo 1.4	2006 ->	Probe 2.5i V6 24V	1995-97	626 2.5i 24V	1992-97
Kalos 1.2, 1.4	2005 ->			MX6 2.5 24V	1992 ->
Lacetti 1.4, 1.6	2005 ->			MX6 2.5i 24V	1994 ->
Matiz	2005 ->			Xedos 6 1.6i 16V	1994 ->
Nubira 1.6	2005 ->			Xedos 6 2.0i V6	1992-94



Reemplaza/Suitable: Bosch 0258 005 708
NTK OZA253-F1, OZA253-F4, OZA253-F21



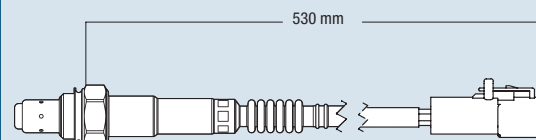
4
Zr



77256

Adatt. Universal 77015

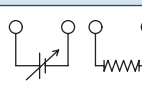
FORD		FORD Cont.		VOLVO	
C-Max 1.6	2007-01	Tourneo 1.8i 16V	2002 ->	C30 1.6	2006 ->
Cougar 2.0i 16V	1998-01	Transit 1.8i 16V	2002 ->	S40 II 1.6	2005 ->
Cougar 2.5i V6 24V	1998-04			V50 1.6	2005 ->
Focus 1.4i 16V, Break	2000-04				
Focus 1.4 EFI	2000-04				
Focus 1.6 EFI	2000-04				
Focus 1.6 16V	1999-00				
Focus 1.8i 16V, Break	1999 ->				
Focus RS, ST170	2002 ->				
Focus II 1.4, 1.6	2005 ->				
KA 1.3i	1996 ->				
Mondeo III 1.8 SCI	2003-07				



Reemplaza/Suitable: Ford 1035595, 1094175, 1108640
Bosch 0258 006 055 - NTK OZA381-D3



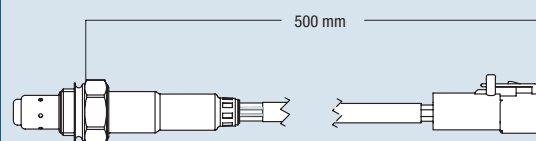
4 Zr
Planar



77260

Adatt. Universal 77004

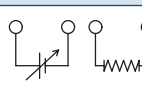
FORD		MAZDA	
Cougar 2.5 V6 24V	1998-01	Tribute 2.0i, 4x4	2000 ->
Explorer 4.0 V6 (USA)	1998 ->	Tribute 3.0i, 4x4	2000 ->
Focus ST170	2003-04		
Maverick 2.0 16V	2001 ->		
Maverick 3.0 V6 24V	2001 ->		
Mondeo II 2.5 24V	1996-00		
Mondeo II 2.5 ST 200	1999-00		



Reemplaza/Suitable: Ford 4140960, YL84-9F472-AE
Mazda AJ03 18 861 C



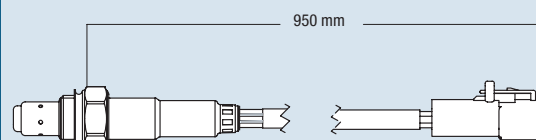
4
Zr



77262

Adatt. Universal 77009

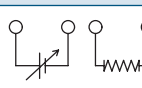
FORD	
Mondeo III 1.8 16v	2000 ->
Mondeo III 1.8 16V (CHBA)	2000 ->
Mondeo III 2.0 16V	2000 ->
Mondeo III 3.0 V6	2004 ->
Mondeo III Wagon 1.8 16V	2000 ->
Mondeo III Wagon 2.0 16V	2000 ->



Reemplaza/Suitable: Ford 1147420, 1128538
Ford 1S7F-9G444-BB



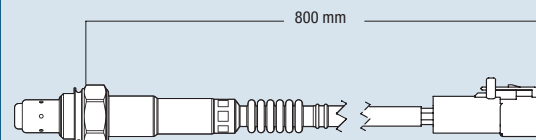
4
Zr



77263

Adatt. Universal 77015

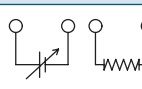
FORD		MAZDA	
Fiesta IV 1.6 16V	2000-02	Tribute 2.0i, 4x4 (USA)	2000 ->
Fiesta IV 1.6 Sport (L1T)	2000-02		
Focus C-Max 1.6 TI	2004-07		
Focus II 1.6 TI	2004-08		
Puma 1.6 16V	2000 ->		
Galaxy 2.3 16V	1997 ->		
Maverick 2.0 16V	2001 ->		



Reemplaza/Suitable: Bosch 0258 006 187
Ford 1112475, YM2A-9G444-AB



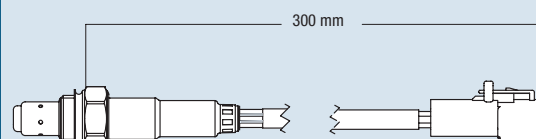
4 Zr
Planar



77264

Adatt. Universal 77009

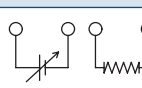
FORD	
Fiesta IV 1.6 16V (L1V)	2000-02
Fiesta IV 1.6 Sport (L1V)	2000-02
Fiesta V 1.3 (A9JA)	2001 ->
Fiesta V 1.3 (BAJA)	2001 ->
Fiesta V 1.4 16V	2002 ->
Fiesta V 1.6 16V	2002 ->
Fusion 1.25	2004 ->
Fusion 1.4, 1.6	2002 ->
Ka 1.3i, 1.6i	2003 ->
Street Ka 1.6i	2003-05



Reemplaza/Suitable: Ford 1148070
Ford 2S6A-9G444-BA

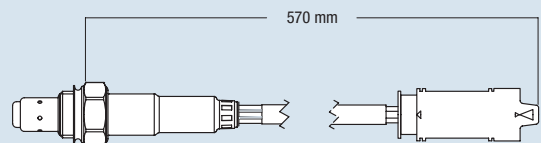


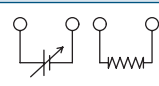
4
Zr



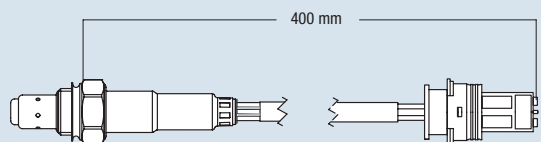

77266
Adatt. Universal 77004

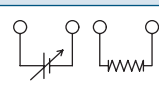
BMW		BMW Cont.	
523i, Touring (M52)	1996-00	M5 (S38)	1998-03
528i, Touring (M52)	1996-00	Z3 1.9 (M43)	1998-03
535i (M62)	1996-01	Z3 2.0 (M52)	1999-03
540i, Touring (M62)	1996-00	Z3 2.8 (M52)	1997-00
735i, il (M62)	1996-01	Z3 3.0	2000-03
740i, il (M62)	1996-01	Z3 Coupe M 3.2	2001-03
750 i, il (M73)	1995-01	Z3 M 3.2	2001-03


Reemplaza/Suitable: Bosch 0258 003 752
BMW 11 781 742 051, 743 996

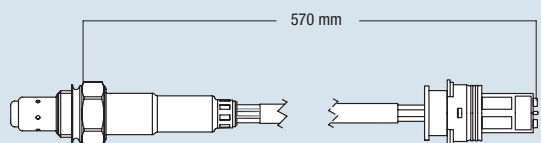
4
Zr

77267
Adatt. Universal 77004

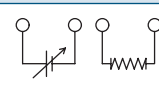
BMW	
316i (M43)	1993-98
316i Compact (M43)	1994-00
316i Coupe (M43)	1993-99
316i Touring (M43)	1996-99
316g Compact (M43)	1995-00
318i (M43)	1993-98
318i Cabriolet (M43)	1994-99
318i Touring (M43)	1995-99
730i, il (M60)	1994-01
740i, il (M60)	1994-01
840i (M60)	1993-96
Z3 1.8 (M43)	1996-98


Reemplaza/Suitable: Bosch 0258 003 522, 0258 003 453
NTK OZA572-E6, 1777

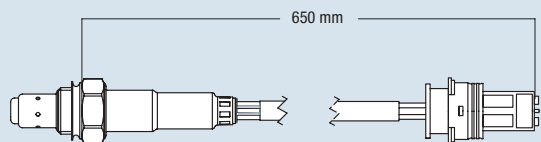
4
Zr

77268
Adatt. Universal 77004

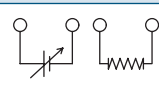
BMW	
316i (M43)	1993-98
316i Compact (M43)	1994-00
316i Coupe (M43)	1993-99
316i Touring (M43)	1996-99
316g Compact (M43)	1995-00
318i (M43)	1993-98
318i Cabriolet (M43)	1994-99
318i Touring (M43)	1995-99
730i, il (M60)	1994-01
740i, il (M60)	1994-01
Z3 1.8 (M43)	1996-98


Reemplaza/Suitable: Bosch 0258 003 810
NTK OZA572-E14, 0408

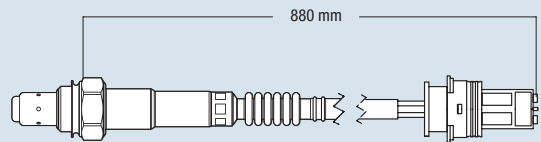
4
Zr

77269
Adatt. Universal 77004

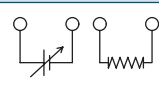
MERCEDES BENZ		MERCEDES Cont.		PUCH	
E 240 (M112)	1997-00	S 400 (M119)	1993-98	G 320 (M104)	1994-97
E 280 (M104)	1996-97	S 500 (M119)	1993-98	G 500 (M113)	1998-00
E 280, 4-Matic (M112)	1997-02	S Coupe 420, 500	1995-99	SSANGYONG	
E 320 (M104)	1995-97	SL 280 (M112)	1998-01	Korando 2.0	
E 320, 4-Matic (M112)	1997-02	SL 320 (M112)	1998-01		
E 420 (M119)	1996-97	SL 500 (M113)	1998-01		
E 430, 4-Matic (M113)	1997-02				
E 50 AMG (M119)	1996-97				
E 55 AMG, 4-Matic (M113)	1997-02				
G 320 GE Cabrio	1994-97				
G 36 AMG	1995-97				


Reemplaza/Suitable: Bosch 0258 003 597, 599, 709, 798, 862
NTK OZA447-E22, OZA447-E21

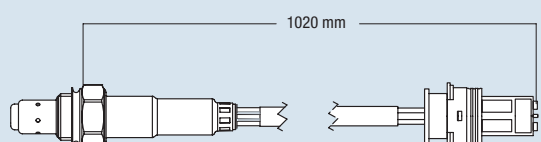
4
Zr

77270
Adatt. Universal 77015

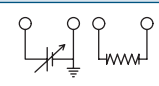
MERCEDES BENZ	
C 180 (M111)	1993-00
C 180 T (M111)	1996-00
C 200 (M111)	1994-00
C 200 T (M111)	1996-00
C 220 (M111)	1993-00


Reemplaza/Suitable: Bosch 0258 003 513, 637, 0258 006 318
NTK OZA448-E28, OZA527-E13

4 Zr
Planar

77271
Adatt. Universal 77008

MERCEDES BENZ		MERCEDES Cont.		VOLKSWAGEN	
C 200 Kompressor	1995-00	Sprinter 214 (M111)	1995-06	LT 28-35	1996-03
C 230 Kompressor	1995-00	Sprinter 314 (M111)	1995-06	LT 28-46	1996-03
V 200 (M111)	1997-00	Sprinter 414 (M111)	1996-06		
V 230 (M111)	1996-00	Vito 113 2.0	1996-03		
		Vito 114 2.3	1997-03		


Reemplaza/Suitable: Bosch 0258 003 515
Mercedes 000 540 5817, 000 540 6517

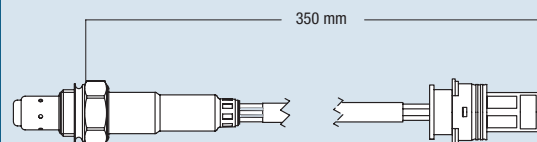
4
Zr




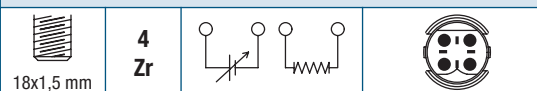
77272

Adatt. Universal 77004

MERCEDES BENZ		MERCEDES Cont.		MERCEDES Cont.	
C 280 (M104)	1993-00	ML 320 (M112)	1998-02	SL 200 (M111)	1993-98
C 36 AMG (M104)	1994-00	ML 430 (M113)	1998-02	SL 230 (M111)	1993-99
CL 500 (M113)	1999-02	ML 55 AMG (M113)	2000-02	SL 280 (M112)	1998-01
E 240 (M112)	1997-00	S Coupe CL 500	1999-02	SL 500, AMG, V8	1992-01
E 280, 4-Matic (M112)	1996-02	S 280 (M112)	1998-02	SL 600 (M120)	1998-01
E 320, 4-Matic (M112)	1997-02	S 320 (M112)	1998-02	SLK 200, Kompressor	1996-00
E 430, 4-Matic (M113)	1997-02	S 400 (M119)	1993-98	SLK 230 Kompressor	1996-00
E 55 AMG (M113)	1997-02	S 430 (M113)	1998-02		
		S 500 (M113)	1999-02		
		S 500 (M119)	1993-98		
		S 600 (M120)	1993-99		



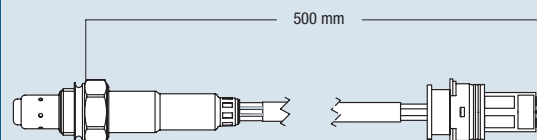
Reemplaza/Suitable: Bosch 0258 003 782, 580, 638, 855
NTK OZA448-E54, 0459



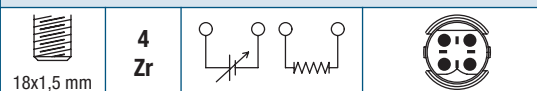
77273

Adatt. Universal 77004

MERCEDES BENZ		MERCEDES Cont.		MERCEDES COMM.	
CL 500 (M113)	1999-02	S 320 (M112)	1999-02	Sprinter 214	1995-00
E 200, Kompressor	1995-02	S 420 (M119)	1993-98	Sprinter 314	1995-02
E 240 (M112)	1997-00	S 430 (M113)	1998-02	Sprinter 414	1996-00
E 280, 4-Matic (M112)	1997-02	S 500 (M113)	1993-98		
E 320, 4-Matic (M112)	1997-02	S 500 (M119)	1998-02		
E 430, 4-Matic (M113)	1997-02	SL 200 (M111)	1993-98		
E 55 AMG (M113)	1997-02	SL 230 (M111)	1993-98		
S 300 (M104)	1991-98	SL 280 (M112)	1998-01		
S 400 (M119)	1993-98	SL 320 (M112)	1998-01		
S 500 (M119)	1993-98	SL 500 (M113)	1998-01		
S Coupe (M119)	1995-99				
S 280 (M112)	1998-02				



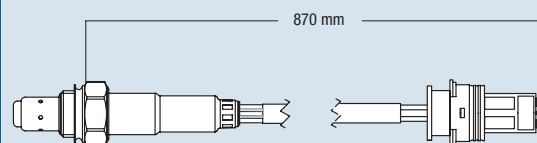
Reemplaza/Suitable: Bosch 0258 003 582, 0258 003 642, 893
Mercedes 000 540 6217, 000 540 7217



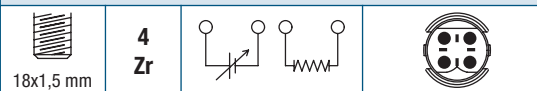
77274

Adatt. Universal 77004

BMW		MERCEDES		MERCEDES Cont.	
M3 Cabriolet 3.2	2001 ->	C 240 (M112)	1997-01	ML 230 (M111)	1998-05
M3 Coupe 3.2	2000 ->	C 280 (M112)	1997-01	ML 270 CDI (OM612)	2000-05
M3 Coupe CSL	2003 ->	C 43 AMG (M113)	1997-01	Sprinter 214 (M111)	1995-02
Z3 Coupe 3.2	1998-01	CLK 320 (M112)	1997-02	Sprinter 314 (M111)	1995-02
Z3 M 3.2	1997-01	CLK 430 (M113)	1998-02	Sprinter 414 (M111)	1996-02
		CLK Cabriolet	1998-02	SLK 200, Kompressor	1996-00
		E 240 (M112)	1997-00	SLK 230, Kompressor	1996-00
		E 280, 4-Matic (M112)	1997-02	V 200 (M111)	1996-00
		E 320, 4-Matic (M112)	1997-02	V 230 (M111)	1996-00
		E 430, 4-Matic (M113)	1997-02	V 280 (M104)	1997-00
		E 55 AMG (M113)	1997-02	Vito 113 2.0	1996-02
				Vito 114 2.3	1996-02



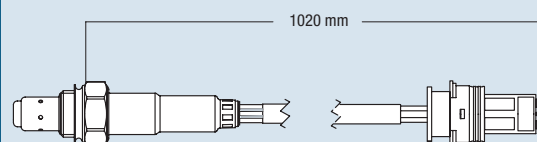
Reemplaza/Suitable: Bosch 0258 005 088, 0258 003 640, 771
NTK OZA447-E34, 0482



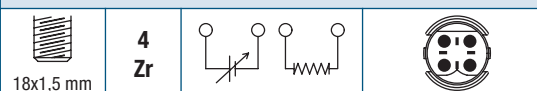
77275

Adatt. Universal 77004

MERCEDES BENZ			
C 180 (M111)	1993-00		
C 180 T (M111)	1996-00		
C 200, Kompressor	1994-00		
C 200 T (M111)	1996-00		
C 230, Kompressor	1995-00		
C 230 T (M111)	1996-01		
CLK 200, Kompressor	1997-02		
CLK 230, Kompressor	1997-00		
CLK Cabriolet 200	1998-00		
CLK Cabriolet 230	1998-00		



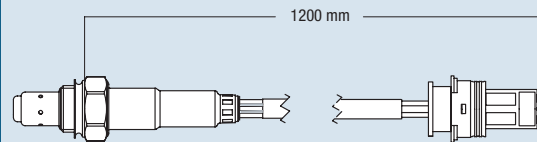
Reemplaza/Suitable: Bosch 0258 003 870
NTK OZA448-E45



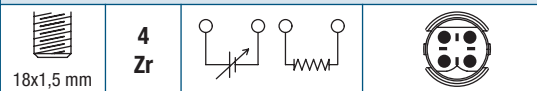
77276

Adatt. Universal 77009

BMW		MERCEDES BENZ	
M3 Cabriolet 3.2	1996-99	C 180 (M111)	1993-00
M3 Coupe 3.2	1996-99	C 180 T (M111)	1996-00
M3 3.2 (S50)	1995-98	C 200, Kompressor	1994-00
		C 200 T (M111)	1996-00
		C 230, Kompressor	1995-00
		C 230 T (M111)	1996-00
		CLK 200, Kompressor	1997-02
		CLK 230, Kompressor	1997-00
		CLK Cabriolet 200	1998-00
		CLK Cabriolet 230	1998-00



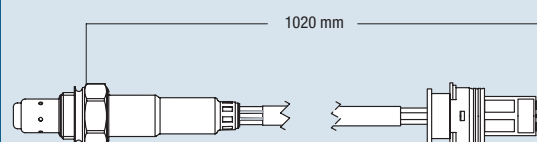
Reemplaza/Suitable: Bosch 0258 003 748, 0258 005 001, 083
NTK OZA448-E29, 0182



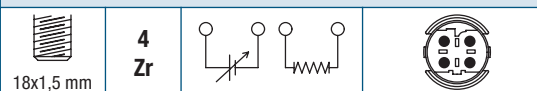
77277

Adatt. Universal 77004

BMW		BMW Cont.	
320i, Touring (M52)	2000-05	520i, Touring (M52)	1996-00
320 Ci Cabriolet, Coupe	2000 ->	523i, Touring (M52)	1996-00
323i (M52)	1998-00	528i, Touring (M52)	1996-00
323 Ci Cabriolet, Coupe	1999-00	728i, il (M52)	1995-01
325i, Touring (256S5)	2000-05	M3 3.2 (M52)	1995-99
325 Ci Cabriolet, Coupe	2000 ->	M3 3.2 Cabriolet, Coupe	1996-99
325 ti Compact	2001-05	Z3 2.0 (M52)	1999-03
328i, Touring (M52)	1998-00	Z3 2.2 (M54)	2000-03
328 Ci Coupe	1999-00	Z3 2.8 (M52)	1997-00
330i, Touring (306S3)	2000-05	Z3 3.0 (306S3)	2000-03
330 Ci Cabriolet, Coupe	2000 ->	Z4 2.2i, 2.5i, 3.0i	2003 ->

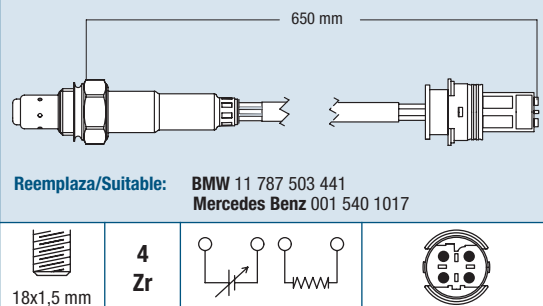


Reemplaza/Suitable: Bosch 0258 003 749, 0258 005 139, 177
NTK OZA660-EE17, 5713

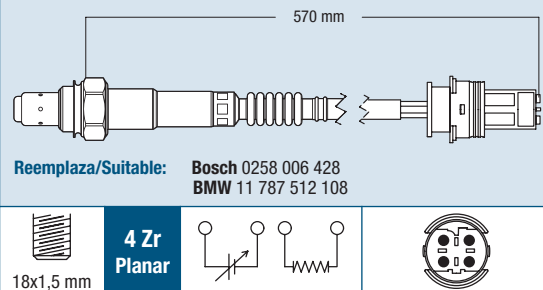



77278
Adatt. Universal 77004

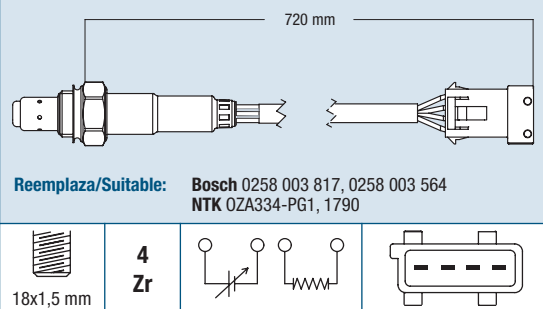
BMW		MERCEDES BENZ	
320 Ci Cabriolet, Coupe	2000-05	C 240. C240 T. (M112)	1997-00
325 Ci Cabriolet, Coupe	2000-05	C 280. C280 T. (M112)	1997-01
325i Touring, ti Compact	2000-05	C 43 AMG (M113)	1997-00
330 Ci Cabriolet, Coupe	2000-05	CLK 320 (M112)	1997-02
330i, touring (306S3)	2000-05	CLK 430 (M113)	1998-02
520i, Touring (M54)	2000 ->	CLK 55 AMG (M113)	1999-02
525i, Touring (256S5)	2000 ->	CLK Cabriolet 320	1998-02
530i, Touring (306S3)	2000 ->	CLK Cabriolet 430	1998-02
730 i, il	2003 ->		
X3 2.5i, 3.0i	2004 ->		
Z3 2.2, 3.0	2000-03		
Z4 2.2i, 2.5i, 3.0i	2003 ->		


77279
Adatt. Universal 77015

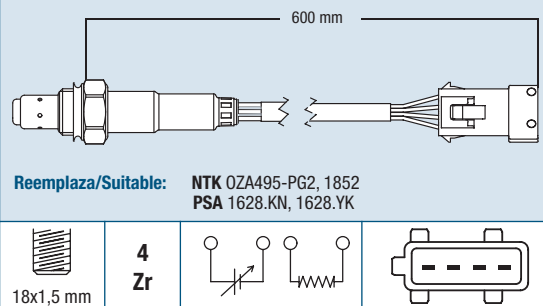
BMW	
116i, 118i, 120i	2007 ->
316 Ci Coupe (N40)	2001 ->
316i (N40)	2002 ->
316 ti Compact (N40)	2002 ->
318i, Touring	2007 ->
320i, Coupe, Touring	2007 ->
523i, 525i, 530i	2005 ->
525xi, 530xi	2005 ->
630i, 630i Cabrio	2004 ->
730i, Li	2005 ->


77280
Adatt. Universal 77004

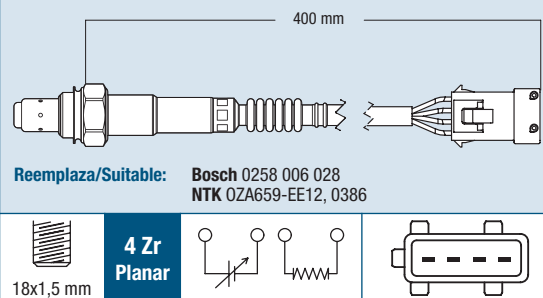
CITROEN		PEUGEOT		SAAB	
Saxo 1.6 VTS (NFX)	1996-00	106 II 1.6 16V	1996-00	9-3 2.0 Turbo, SE	1998-02
		911 (993)	1995-97	9-3 2.0i 16V Turbo	1999-02
		911 (996)	1997-05	9-3 Cabriolet 2.0 Turbo	1998-03
				9-5 2.0 t	1997 ->
				9-5 2.3 t	1997 ->
				9-5 2.3 Turbo	1999-01
				9-5 3.0 V6	1998 ->


77281
Adatt. Universal 77004

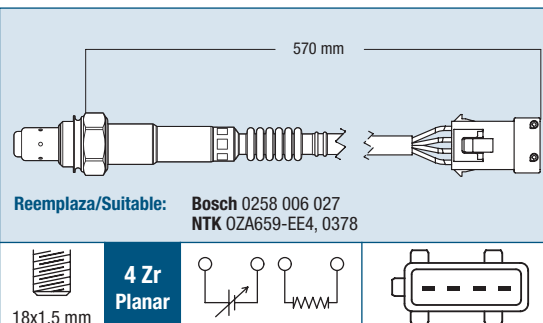
CITROEN		PEUGEOT	
Berlingo 1.4 i	1996 ->	106 II 1.4 i	2000 ->
C2 1.4	2003 ->	206 1.4 i	1998 ->
C3 1.4 i Bivalent	2002-05	206 SW 1.4	2002 ->
C3 Pluriel 1.4	2003 ->	306 1.4 SL, Break	2000-02
C4 1.6 16V, Coupe	2005 ->	307 1.4	2000 ->
C5 1.8 16V, Break	2001-04	406 1.8 16V, Break	2000-04
Saxo 1.1 X, SX	1996-03	1007 1.4	2005 ->
Saxo 1.4 VTS	1999-03	Partner 1.4	2000 ->
XSara 1.4 i, Break, Coupe	2000-05	Partner 1.4 Bifuel	2003 ->
XSara 1.6 16V, Break, Coupe	2000-05		
XSara Picasso 1.8 16V	2000-05		


77282
Adatt. Universal 77015

CITROEN		FIAT		PEUGEOT Cont.	
Berlingo 1.4i	1996-02	Scudo 2.0i 16V	2000 ->	306 1.4 SL, 1.6 SR	1994-00
C5 3.0 V6	2001-04	Ulysse 2.0i 16V	2000-02	306 Cabrio 1.6	1996-00
C8 2.0, 2.2	2002 ->			406 1.8 16V	1995-00
Evasion 2.0 16V	2000-02	Prisma 3.0 V6	2002 ->	406 3.0 V6, Coupe	2000-04
Jumpy 2.0 16V	2000-02	Thema 3.0 V6	2002 ->	607 3.0 V6 24V	2000 ->
Saxo 1.4 VTS	1996-00	Zeta 2.0 16V	2000-02	806 2.0 16V	2000-02
Saxo 1.6 VTL, VTR	1996-00			807 2.0, 2.2	2002 ->
Xantia 1.8i 16V	1998-02	106 II 1.0i, 1.1i	1996-02	Expert 2.0	1996-00
XSara 1.4i, 1.6i	1997-02	106 II 1.4i, 1.6i	1996-02	Partner 1.4i	1996-00
XSara Coupe 1.4i, 1.6i	1997-02	206 1.4i, 1.6i	1998-00	Ranch 1.4i	1996-00
XSara Picasso 1.6i	2000-05	207 1.6 16V	2006 ->		


77283
Adatt. Universal 77015

CITROEN		CITROEN Cont.		PEUGEOT	
Berlingo 1.1i	1996-02	XSara Coupe 16V	2000-05	206. 206 CC. 206 SW	1998 ->
Berlingo 1.6i 16V	2000-02	XSara Picasso 16V	2001 ->	306 1.6i, Break, Cabrio, SW	2000-02
C3 1.1i	2002 ->			306 1.8 16V, Break, Cabrio	1997-02
C3 1.6i 16V	2002 ->	Ducato 2.0i	2002 ->	307 1.6i, SW	2000 ->
C5 2.0 16V, Break	2001-04	Ulysse 3.0 V6	2002 ->	406 2.0i 16V, Break, Coupe	1999-04
C5 3.0 V6, Break	2001-04			406 3.0 V6, Break, Coupe	2000-04
C5 2.0 16V	2001-04	Phedra 3.0 V6	2002 ->	607 3.0 V6 24V	2000 ->
C5 1.8 16V	2004 ->			Partner 1.1i, 1.6i 16V	1996-02
Jumper 2.0i	2002-03				
Saxo 1.1i X, SX	1996-02			Avantime 3.0i 24V	2001 ->
Saxo 1.4, 1.6. VTS	1996-02			Clio II V6 Sport	2000-02
XSara 1.6i 16V, 2.0i 16V	2000-05			Laguna 3.0 V6 24V	2001 ->

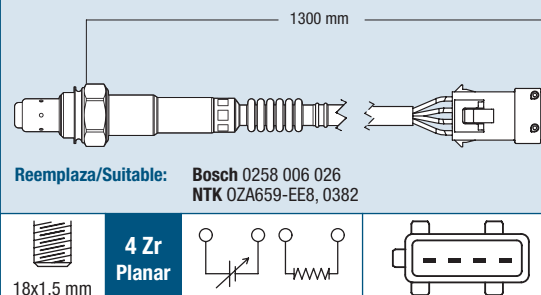




77284

Adatt. Universal 77015

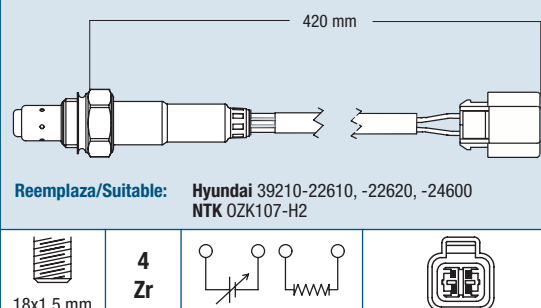
CITROEN		FIAT		PEUGEOT	
Berlingo 1.4i	1996-00	Ulysse 2.0i 16V	1998-00	306 1.4 SL, Break	1994-00
Evasion 2.0i 16V	1998-00	LANCIA		306 1.6 SR, Break, Cabrio	1994-00
XSara 1.4i	1997-00	Zeta 2.0 16V	1998-00	307 2.0, SW	2000 ->
XSara 2.0i 16V	1997-00			406 2.0i 16V, Coupe	1999-00
XSara Break 1.4i	1997-00			406 2.2, SW	2000 ->
XSara Coupe 1.4i	1998-00			407 2.0, 2.2	2004 ->
XSara Coupe 2.0i 16V	1998-00			407 SW 2.0, 2.2	2004 ->
				607 2.0i 16V	2000 ->
				607 2.2i 16V	2000 ->
				806 2.0i 16V	1998-00
				Partner 1.4i	1996-00
				Ranch 1.4i	1996-00



77288

Adatt. Universal 77009

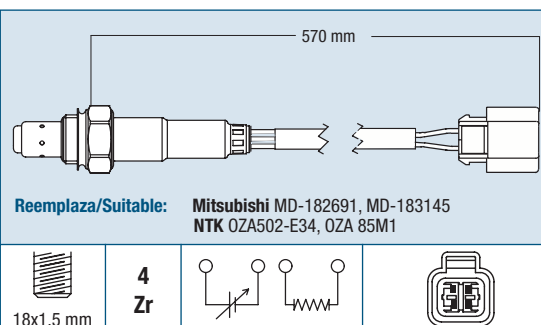
HYUNDAI		HYUNDAI Cont.		KIA	
Accent 1.3 75 cv.	2000 ->	Trajet 2.0	2004 ->	Carens II 2.0	2004 ->
Accent 1.3 86 cv.	2000 ->	Tucson 2.0	2004 ->	Cerato 1.6, 2.0	2004 ->
Accent 1.5 i 12V	1999 ->			Rio II 1.4 16V	2005 ->
Accent 1.5 i 16V	1999 ->			Rio II 1.6 16V	2005 ->
Coupé 1.6 16V	2002 ->			Sportage 2.0 16V	2004 ->
Elantra 1.6	2000 ->				
Excel 1.5 72 cv.	1992-95				
Excel 1.5 i	1989-95				
Getz 1.3, 1.6	2002 ->				
Matrix 1.6	2001 ->				
Pony 1.5 72 cv.	1992-95				
Pony 1.5 i	1989-95				



77289

Adatt. Universal 77004

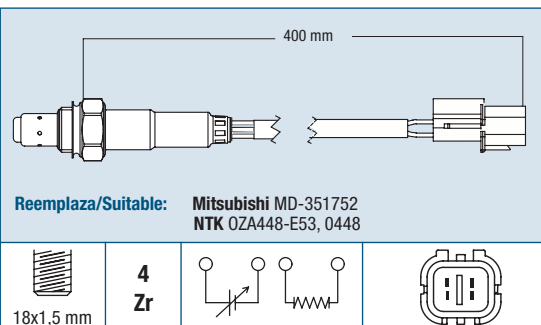
MITSUBISHI		MITSUBISHI Cont.		PROTON	
Colt IV 1.3 GLi 12V	1992-96	Space Wagon 2.4 GDI, 4x4	1998 ->		
Colt IV 1.6 GLXi 16V	1992-96				
Colt IV 1.8 GTi 16V	1992-96				
Eclipse II 2000 16V	1995-99				
Galant V 1.8 GLSi	1993-96				
Galant V 2.0 GLSi	1993-96				
Lancer IV 1.3 12V	1992-94				
Lancer IV 1.6 GLi 16V, 4x4	1989-94				
Lancer IV 1.8 GTi 16V	1989-93				
Space Runner 2.0i	1999 ->				
Space Runner 2.4 GDI	1999 ->				
Space Wagon 2.0 GLXi	1992-98				



77290

Adatt. Universal 77004

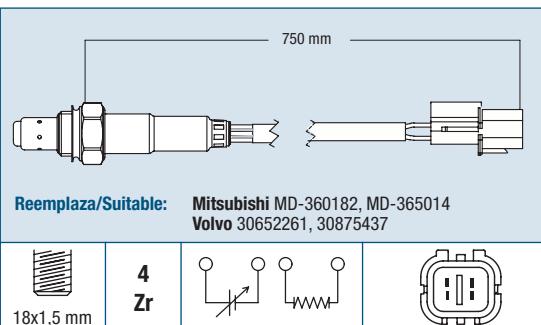
MITSUBISHI		VOLVO	
Carisma 1.8i 16V 6Di	1997-99	S40 1.8i	1998-03
Carisma 1.8 6Di	2000-06	S40 SW 1.8i	1998-03
Space Star 1.8 6Di	1998 ->		



77291

Adatt. Universal 77009

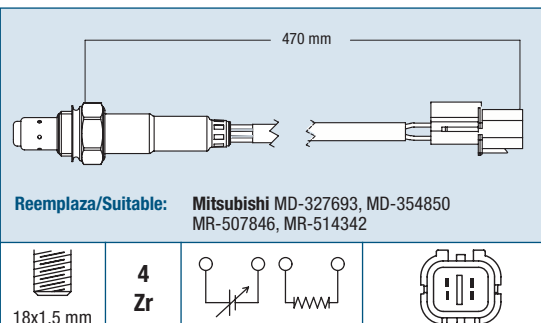
MITSUBISHI		VOLVO	
Carisma 1.6 (4G92)	1997-00	S40 1.8i (B4184)	2001-03
Space Star 1.3 16V	1998 ->	V40 1.8i (B4184)	2001-03



77292

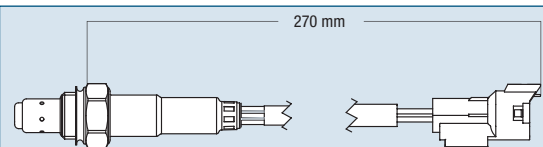
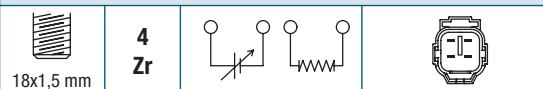
Adatt. Universal 77009

MITSUBISHI	
Colt V 1300	2000 ->
Colt V 1600 GLX	1996-00
Galant VI 2.5 V6 24V	1996-00
Lancer VI 1.3 12V 75 cv.	1996 ->
Lancer VI 1.3 GL, GLX. 75 cv	1996 ->

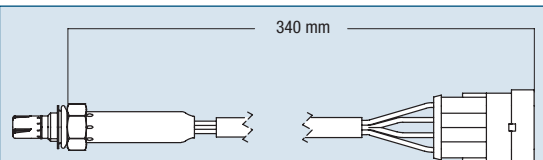
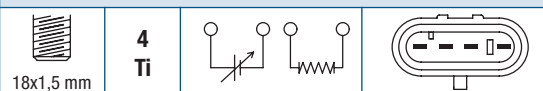



77296
Adatt. Universal 77009

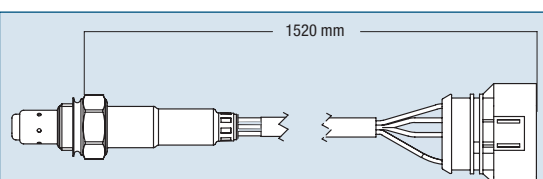
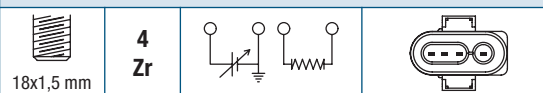
SUZUKI	
Grand Vitara 1.6 (G16B)	2000 ->
Grand Vitara 2.0 (J20A)	2000 ->
Jimny 1.6 16V	2001 ->
Jimny 1.3 16V 4WD	2001 ->


Reemplaza/Suitable: Suzuki 18213-65D30, 18213-65D31, 18213-65D50

77300
Adatt. Universal 77013

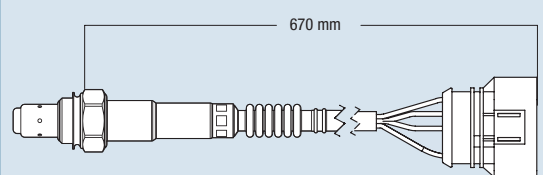
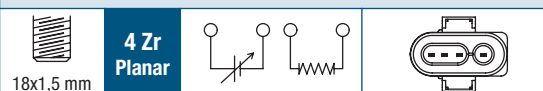
OPEL		VAUXHALL	
Omega B 2.0 16V	1995-99	Omega B 2.0 16V	1995-99
Omega B SW 2.0 16V	1995-99	Omega B SW 2.0 16V	1995-99

 Motor/Engine/Moteur:
X20XEV 136 cv.

Reemplaza/Suitable: Opel 855331, NTK OTA7L-3C4, OTA7H-3C2, 0420, 0431

77301
Adatt. Universal 77008

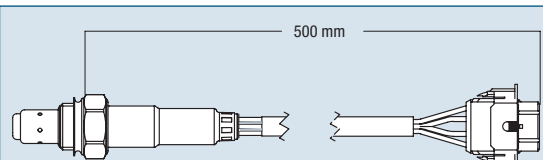
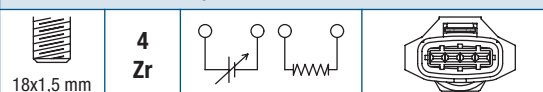
SEAT		VOLKSWAGEN	
Alhambra 2.0 i	1996 ->	Sharan 2.0 i	1995 ->

 -> Ch. 7H-T-03685
Motor/Engine/Moteur:
ADY 115 cv.

Reemplaza/Suitable: Bosch 0258 003 632, NTK OZA572-E10, 0275

77302
Adatt. Universal 77015

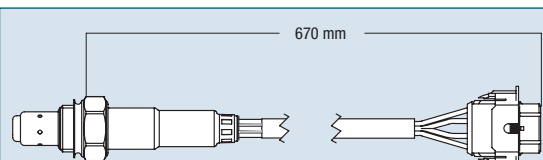
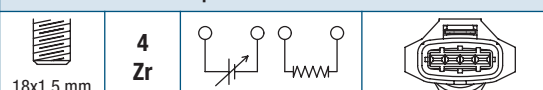
AUDI		SKODA		VOLKSWAGEN	
A4 2.4, Avant, Quattro	1998-01	SuperB 2.8 V6	2002 ->	Passat 2.8 V6	1999-00
A4 2.8 Avant, Quattro	1998-01			Passat 2.8 V6 Syncro	1999-00
A4 S4 Quattro, Avant	1997-01			Passat 2.8 4Motion	2000-05
A4 Avant RS4 Quattro	2000-01			Passat Variant 2.8i 30V	1999-05
A6 2.4, Avant, Quattro	1998-01				
A6 2.7 T, Quattro, Avant	1999-01				
A6 2.8, Quattro, Avant	1998-01				
A6 4.2 Quattro, Avant	1998-01				
A6 S6 Quattro, Avant	1999-02				
A8 2.8, Quattro	1998-02				
Allroad 2.7 T Quattro	2000-01				


Reemplaza/Suitable: Bosch 0258 005 660, 0258 006 287, NTK OZA659-EE36, 1620

77303
Adatt. Universal 77004

ALFA ROMEO		OPEL		VAUXHALL	
159 1.8 MPI	2007 ->	Astra H 1.8	2006 ->	Omega B 2.2 16V	1999-03
		Omega B 2.2 16V	1999-03	Omega B SW 2.2 16V	1999-03
FIAT		Omega B SW 2.2 16V	1999-03		
Croma 1.8 16V	2005 ->	Signum 1.8	2005 ->		
		Vectra C 1.8	2006 ->		
		Zafira 1.8	2005 ->		

 Motor/Engine/Moteur:
Y22XEV, Z22XE. 144 cv.

Reemplaza/Suitable: NTK OZA334-SZ3, 0407, Opel 855358

77304
Adatt. Universal 77004

OPEL		VAUXHALL	
Astra G 1.8 16V	2000 ->	Astra G 1.8 16V	2000 ->
Astra G Cabrio 1.8 16V	2001 ->	Astra G Cabrio 1.8 16V	2001 ->
Astra G Coupe 1.8 16V	2001 ->	Astra G Coupe 1.8 16V	2001 ->
Omega B 2.2 16V	1999-03	Omega B 2.2 16V	1999-03
Omega B SW 2.2 16V	1999-03	Omega B SW 2.2 16V	1999-03
Vectra B 1.8 i 16V	2000-03	Vectra B 1.8 i 16V	2000-03
Zafira 1.8 16V	2000 ->	Zafira 1.8 16V	2000 ->

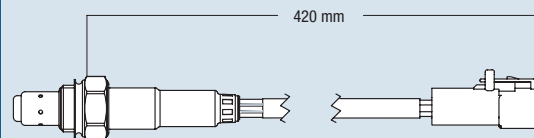
 Modelos con cambio Automático.
Models with automatic gear or Auto-
matic Transmission.
Modèles avec boîte vitesse automa-
tique.

Reemplaza/Suitable: NTK OZA334-SZ2, 0496, Opel 855357




77305

Adatt. Universal 77004

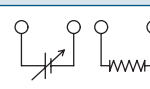
FORD		FORD (USA)		VOLKSWAGEN BRASIL	
Fiesta IV 1.25i 16V	2000-02	Explorer 4.0i V6	1995 ->	Logus 1.6 (CFI)	1994-96
Fiesta V 1.3 60 cv.	2002 ->	MAZDA		Logus 1.8 (CFI)	1994-96
Fiesta V 1.3 69 cv.	2002 ->	121 III 1.25	1996 ->	Logus 2.0i (Digital)	1994-96
				Pointer 1.8 (CFI)	1994-96
				Pointer 2.0i (Digital)	1994-96



Reemplaza/Suitable: Bosch 0258 003 388
NTK OZA488-SZ1



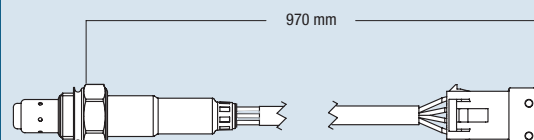
4
Zr



77306

Adatt. Universal 77003

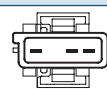
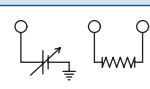
VOLVO	
940 2.0 Turbo	1996-97
940 2.3 Turbo	1993-94
940 II 2.0 Turbo	1996-98
940 II 2.3 ti	1995-96
940 II 2.3 ti Turbo	1995-96
940 II 2.3 Turbo	1994-96
940 II SW 2.0 Turbo	1996-96
940 II SW 2.3 ti	1995-96
940 II SW 2.3 Turbo	1994-96
940 Kombi 2.3 Turbo	1993-94



Reemplaza/Suitable: Bosch 0258 003 381
Volvo 9135794-7



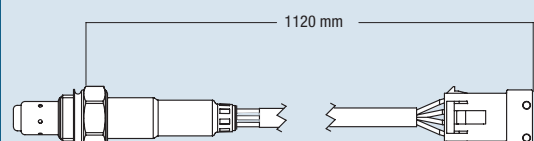
3
Zr



77307

Adatt. Universal 77003

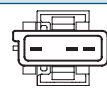
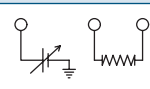
SAAB		SAAB Cont.	
900 II 2.0 -16 Turbo	1993-98	9000 2.3 -16 CD	1991-98
900 II 2.0 i	1994-98	9000 2.3 -16 CD Turbo	1993-95
900 II 2.3 -16	1993-98	9000 2.3 -16 CDE	1993-98
900 II Cabrio 2.0 -16 Turbo	1994-98	9000 2.3 -16 Turbo	1990-93
900 II Cabrio 2.0 i	1994-98	9-3 2.0 i	1998-00
900 II Cabrio 2.3 -16	1994-98	9-3 2.0 Turbo	1999-02
900 II Coupe 2.0 -16 Turbo	1994-98	9-3 2.3 i	1998-00
900 II Coupe 2.0 i	1993-98	9-3 2.3 Turbo	1999-02
900 II Coupe 2.3 -16	1994-98	9-3 Cabriolet 2.0 i	1998-00
9000 2.0 -16 CD	1994-98	9-3 Cabriolet 2.0 Turbo	1999-02
9000 2.0 -16 Turbo	1988-93	9-3 Cabriolet 2.3 i	1998-00
9000 2.0 -16 Turbo CD	1994-98	9-3 Cabriolet 2.3 Turbo	1999-02



Reemplaza/Suitable: Bosch 0258 003 337
NTK OZA446-E58, 483



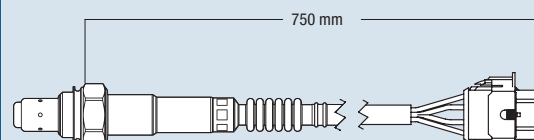
3
Zr



77308

Adatt. Universal 77015

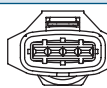
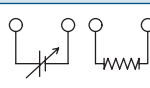
OPEL		PORSCHE		VAUXHALL	
Agila 1.2 16V	2000-04	911 3.6 GT	2006 ->	Agila 1.2 16V	2000-04
Agila 1.2 16V Twinport	2004 ->	Boxter 2.7	2004-06	Omega 2.6 V6. Automatic	2000-03
Omega B 2.6 V6. Automatic	2000-03	Boxter S	2006 ->	Omega 3.2 V6. Automatic	2001-03
Omega B 3.2 V6. Automatic	2001-03	Cayman	2006 ->	Omega SW 2.6 V6	2000-03
Omega B SW 2.6 V6	2000-03			Omega SW 3.2 V6	2001-03
Omega B SW 3.2 V6	2001-03			Vectra 2.5 i GSI	1998-99
Vectra B 2.6i V6	2000-02			Vectra 2.5i V6	1996-00
Vectra B SW 2.6i V6	2000-02			Vectra 2.6i V6	2000-01
				Vectra SW 2.5 i GSI	1998-99
				Vectra SW 2.5i V6	1996-00
				Vectra SW 2.6i V6	2000-01



Reemplaza/Suitable: Bosch 0258 006 176, 0258 006 346, 502
Opel 855362, 855388, 855411



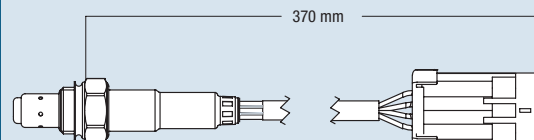
4
Zr
Planar



77309

Adatt. Universal 77008

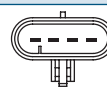
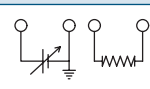
DAEWOO		HOLDEN		OPEL	
Lanos 1.4	1997-03			Frontera B 2.2i 136 cv.	1999 ->
Lanos 1.5	1997-03			Frontera B 3.2i (Y32NE)	1999 ->
Lanos 1.6 16V	1997-03				
Leganza 2.0 16V	1998-02				
Leganza 2.2 16V	1999-02				
Matiz 0.8. ->Ch.040244	1998-05				
Tacuma 2.0	2000-05				



Reemplaza/Suitable: Bosch 0258 005 703
Opel 855346, 855379



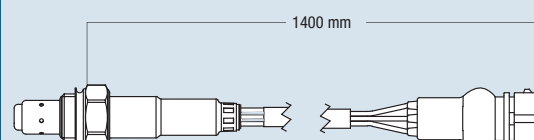
4
Zr



77317

Adatt. Universal 77003

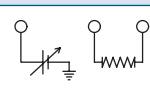
SUZUKI		VOLKSWAGEN		VW Cont.	
X-90 1.6i 16V, 4x4	1995 ->	Corrado 1.8 G60	1988-89	Passat 1.8 112 cv.	1988-90
		Golf II 1.3	1983-87	Passat 1.8 107 cv.	1988-90
		Golf II 1.3 Cat.	1986-92	Passat Variant 1.8	1988-90
		Golf II 1.8 GTI, Syncro	1987-91	Polo 1.3 Cat.	1987-90
		Golf II 1.8 GTI Cat.	1987-91	Polo Classic 1.3 Cat.	1987-90
		Jetta II 1.3	1984-85	Polo Coupe 1.3 Cat.	1987-90
		Jetta II 1.3 Cat.	1987-91	Polo 1.3 G40 Coupe	1987-90
		Jetta II 1.8	1987-91		
		Jetta II 1.8 Syncro	1988-91		
		Kaefer 1600 i (Mexico)	1992-95		
		LT 28-35 2.4 i	1989-96		
		LT 40-55 2.4 i	1993-96		



Reemplaza/Suitable: Bosch 0258 003 973, 0258 003 979, 936
NTK OZA445-E3, OZA446-E15, 1848



3
Zr

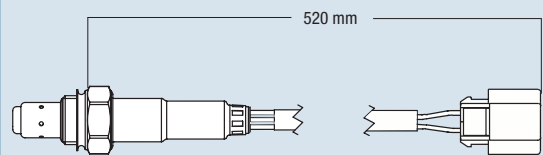




77318

Adatt. Universal 77004

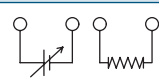
LAND ROVER	
Freelander 2.5 V6	2001 ->
-> Ch.3A999999	
Range Rover 3.9	1994-02
Range Rover 4.0	1998-02
Range Rover 4.6 218 cv	1998-02
Range Rover 4.6 224 cv.	1994-02
Ch. XA410482 ->	



Reemplaza/Suitable: Bosch 0258 005 184
Land Rover MHK100940



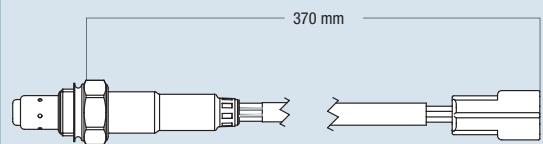
4
Zr



77323

Adatt. Universal 77002

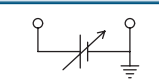
DAEWOO		MAZDA	
Nubira 1.6 16V (A16DMS)	2001 ->	E2000 2.0i 12V (FEY9)	1997-99
Nubira Wagon 1.6 16V	2001 ->	E2000 2.0i 4x4 (FEY9)	1997-99
		E2000 2.0i 4x4 (FEJM)	1990-97



Reemplaza/Suitable: Daewoo 96253546 Mazda FEJK-18-861
NTK OZA72-F1, OZA478-W1



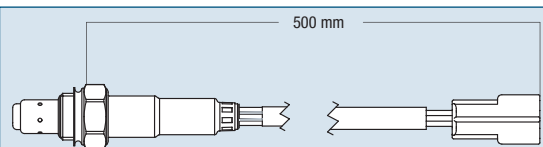
2
Zr



77324

Adatt. Universal 77002

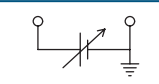
DAEWOO		MAZDA	
Rezzo 1.8 (A18DMS)	2000 ->	E2000 2.0i 12V (FERW)	1999 ->
Rezzo 1.8 (F18D2)	2000 ->		
Tacuma 1.8 (F18S2)	2000 ->		



Reemplaza/Suitable: Daewoo 96276380 Mazda F82A-18-861 A
NTK OZA428-F1, OZA478-W2



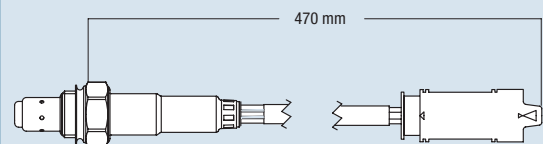
2
Zr



77326

Adatt. Universal 77004

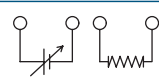
BMW		BMW Cont.	
316 i (E46)	2002-04	645 Ci Cabrio (E64)	2004-05
316 i Touring (E46)	2002-04	645 Ci Coupe (E63)	2004-05
316 ti Compact (E46)	2001-04	735 i, Li (E65, E66)	2003-05
318 i (E46)	2001-04	745 i, Li (E65, E66)	2003-05
318 i Touring (E46)	2001-04	X5 4.4 i (E53)	2004 ->
318 Ci Cabrio (E46) 143 cv.	2001-04	X5 4.8 is (E53)	2004 ->
318 Ci Cabrio (E46) 150cv.	2005 ->		
318 Ci Coupe (E46)	2001-04		
318 ti Compact (E46)	2001-04		
545 i (E60)	2003-05		
545 i Touring (E61)	2004-05		



Reemplaza/Suitable: BMW 11 787 506 539, 11 787 512 002,
7 506 539, 7 512 002



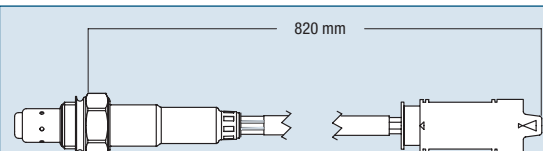
4
Zr



77327

Adatt. Universal 77004

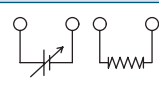
BMW	
316 i (E46) 1596 cc.	2002-04
316 i (E46) 1796 cc.	2002-04
316 i Touring (E46)	2002-04
316 Ci Coupe (E46)	2002-04
316 ti Compact (E46)	2001-04
318 i (E46)	2001-04
318 i Touring (E46)	2001-04
318 Ci Cabrio (E46) 143 cv.	2001-04
318 Ci Cabrio (E46) 150cv.	2005 ->
318 Ci Coupe (E46)	2001-04
318 ti Compact (E46)	2001-04



Reemplaza/Suitable: Bosch 0258 005 270
BMW 11 787 506 531, 7 506 531



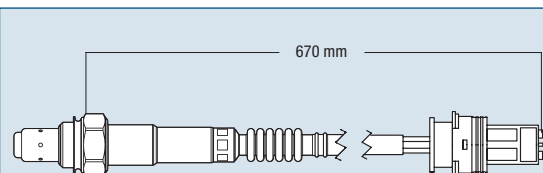
4
Zr



77328

Adatt. Universal 77015

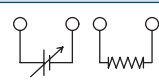
MERCEDES BENZ	
C 180 (W203)	2000-02
C 180 Coupe (CL203)	2001-02
C 180 T (S203)	2001-02
C 240 T (S202)	2000-01
C 43 AMG (S202)	1997-01
CLK 320 (C208)	1997-02
CLK 430 (C208)	1998-02
CLK 55 AMG (C208)	1999-02
CLK Cabrio 320 (C208)	1998-02
CLK Cabrio 430 (C208)	1998-02
CLK Cabrio 55 AMG (C208)	2000-02



Reemplaza/Suitable: Bosch 0258 006 324, 0258 006 325
Mercedes 001 540 73 17



4 Zr
Planar

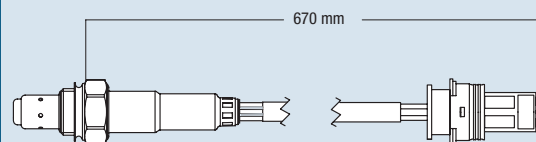




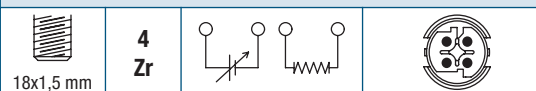
77329

Adatt. Universal 77004

MERCEDES BENZ	
C 240 (W202)	1997-00
C 240 T (S202)	1997-00
C 280 (W202)	1997-00
C 280 T (S202)	1997-01
C 43 AMG (W202)	1997-00
C 43 AMG (S202)	1997-01
CLK 320 (C208)	1997-02
CLK 430 (C208)	1998-02
CLK 55 AMG (C208)	1999-02
CLK Cabrio 320 (A208)	1998-02
CLK Cabrio 430 (A208)	1998-02



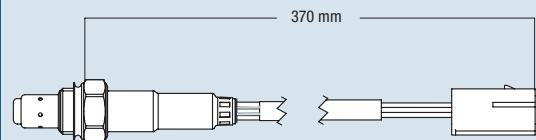
Reemplaza/Suitable: Mercedes 001 540 11 17



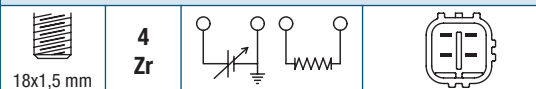
77330

Adatt. Universal 77007

TOYOTA	
Carina E 1.6 (AT190)	1994-97
Carina E 1.6 16V 116 cv.	1995-97
Carina E 1.6 GLi 107 cv.	1992-97
Carina E Sportwagon 1.6 i	1995-97
Carina E Sportwagon 1.6 GLi	1993-97



Reemplaza/Suitable: NTK OZA573-E1, OZA384-E33, 0286
Toyota 89465-20300

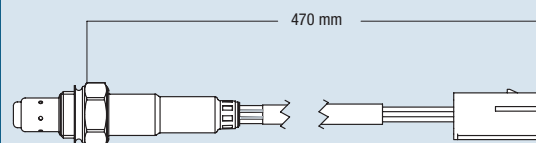


Motor/Engine/Moteur:
4A-FE.

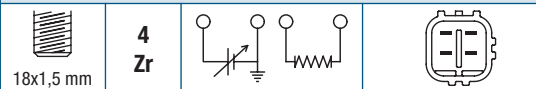
77331

Adatt. Universal 77007

TOYOTA		TOYOTA Cont.	
Camry 2.2	1991-96	Hi-Ace III 2.4, 2.4 4WD	1992-95
Camry Station Wagon 2.2	1992-96	Hi-Ace III Wagon 2.4, 4WD	1992-95
Carina E 1.6 GLi (AT190)	1992-92	Land Cruiser 2.4	1990-96
Carina E 1.6 16V 116 cv.	1994-97	MR2 2.0 16V	1991-93
Carina E 2.0 i	1993-97	Previa 2.4, 4WD	1990-94
Carina E 2.0 GLi	1992-97		
Carina E 2.0 GTi 16V	1994-97		
Carina E Sportwagon 1.6 GLi	1992-92		
Celica 1.8i 16V	1993-96		
Celica Cabrio 2.0 GTi	1991-94		
Celica Coupe 1.6 STi	1991-94		
Celica Coupe 2.0 GTi	1991-94		



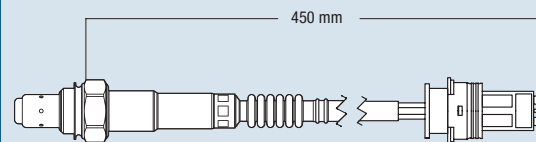
Reemplaza/Suitable: NTK OZA384-E32, OZA384-E39
Toyota 89465-29545, 89428-29495



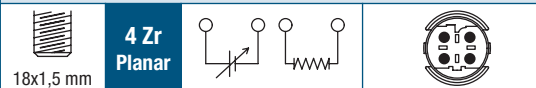
77332

Adatt. Universal 77015

MERCEDES BENZ		MERCEDES BENZ Cont.	
C 240. C 240 4-Matic	2000-05	E 55 AMG	2002-05
C 32 AMG Kompressor	2001-04	ML 55 4-Matic	2001-05
C 320. C 320 4-Matic	2000-05	SL 500	2001-05
C 55 AMG	2004 ->	SL 55 AMG	2005 ->
CLK 240	2002 ->		
CLK 320	2002 ->		
CLK 500	2002 ->		
CLK 55 AMG	2002 ->		
E 240. E 240 4-Matic	2002-05		
E 320. E 320 4-Matic	2002-05		
E 500. E 500 4-Matic	2002-05		



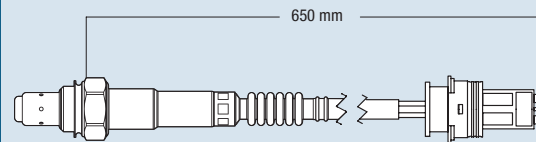
Reemplaza/Suitable: Bosch 0258 006 183, 0258 006 184, 328
MB 001 540 4617, 001 540 7617



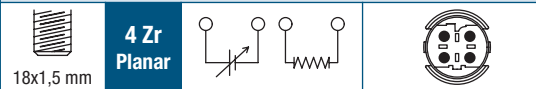
77333

Adatt. Universal 77015

MERCEDES BENZ	
C 240 T	2000-01
C 280 T	1997-01
C 43 AMG	1997-01
CLK 320	1997-02
CLK 430	1998-02
CLK 55 AMG	1999-02
SL 350	2003-05
SLK 55 AMG	2004 ->



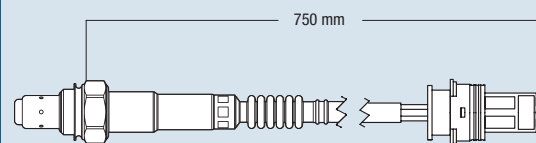
Reemplaza/Suitable: Bosch 0258 006 322, 0258 006 420
MB 001 540 7517, 001 540 9217



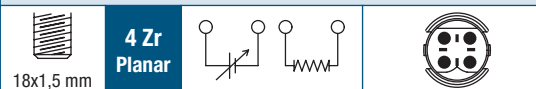
77334

Adatt. Universal 77015

MERCEDES BENZ	
C 240. C 240 4-Matic	2000-05
C 32 AMG	2001-04
C 320. C 320 4-Matic	2000-05
CLK 240	2002 ->
CLK 320	2002 ->
CLK 500	2002 ->
CLK 55 AMG	2002 ->
E 200 Kompressor	2002-06
E 200 T Kompressor	2003-06

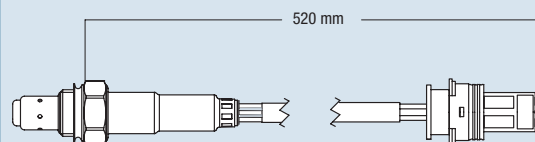


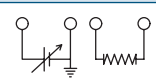
Reemplaza/Suitable: Bosch 0258 006 179, 0258 006 456
MB 001 540 0717, 002 540 0817




77335
Adatt. Universal 77008
MERCEDES BENZ

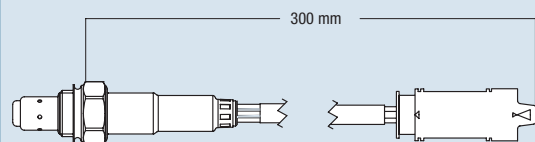
300 SE 2.8	1996-98
300 SE, SEL	1996-98
E 320	1995-97
E 320 T	1996-97
S 280	1996-98
S 320	1996-98
SL 280	1993-01
SL 320	1993-01

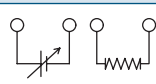

Reemplaza/Suitable: Bosch 0258 003 571, 0258 003 784
MB 000 540 5717, 000 540 8217

4
Zr

77336
Adatt. Universal 77004

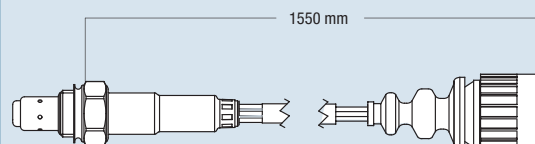
BMW	
545i	2003 ->
545i Touring	2004 ->
645 Ci	2004 ->
645 Ci Cabriolet	2004 ->
735 i, Li	2001 ->
745 i, Li	2001 ->
760 i, Li	2003-06

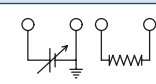
ROLLS ROYCE	
Phantom 6.75	2003-06


Reemplaza/Suitable: BMW 11 787 512 567

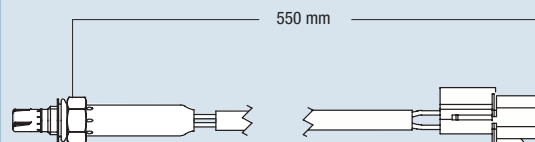
4
Zr

77337
Adatt. Universal 77008

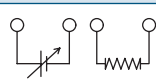
BMW	
530 i	1988-90
535 i	1988-93
M5 3.6, 3.6 Cat.	1988-92
M5 3.8	1992-95
M5 Touring 3.8	1994-95
635 CSi	1988-89
730 i, iL	1984-94
735 i, iL	1987-92


Reemplaza/Suitable: Bosch 0258 005 313, 0258 003 052
NTK OZA527-E27, 0466

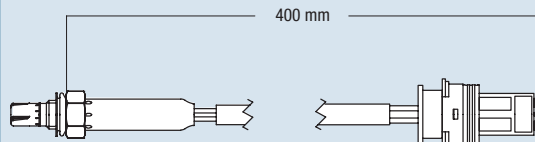
4
Zr

77350
Adatt. Universal 77013

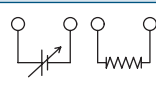
LAND ROVER	
Range Rover II 4.6	1996-02


Reemplaza/Suitable: Land Rover AMR 6244
NTK OTD3J-5C1, 0475

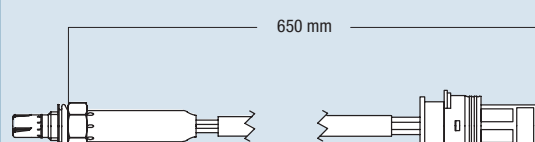
4
Ti

77352
Adatt. Universal 77013

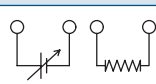
BMW	
323 Compact ti (E36)	1999-00
Z3 2.8	1997-98
Z3 Cabrio 2.8	1997-98
Z3 Coupe 2.8	1997-98


Reemplaza/Suitable: BMW 11 781 433 071, 11 781 433 071
NTK OTA7N-5D1, 1974

4
Ti

77353
Adatt. Universal 77013

BMW	
Z3 Coupe M 3.2	1998-01
Z3 M 3.2 Cabrio	1997-01


Reemplaza/Suitable: NTK OTA7N-5D2
BMW 11 781 406 981, 1975

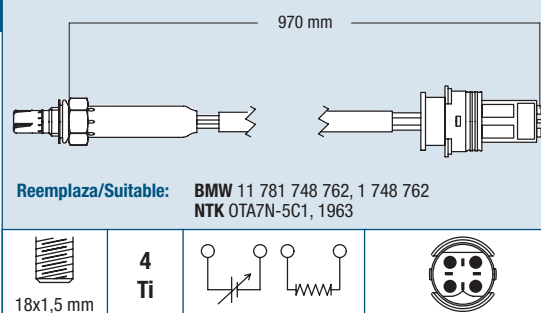
4
Ti




77354

Adatt. Universal 77013

BMW	
320 i (E36)	1994-95
323 i 2.5 (E36)	1995-95
328 i (E36)	1994-95
320 i Cabrio (E36)	1994-95
323 i Cabrio 2.5 (E36)	1995-95
328 i Cabrio (E36)	1994-95
320 i Coupe (E36)	1994-95
323 i Coupe 2.5 (E36)	1995-95
328 i Coupe (E36)	1994-95
320 i Touring (E36)	1994-95
328 i Touring (E36)	1994-95



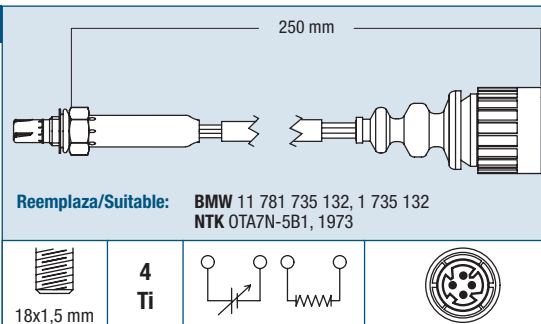
77355

Adatt. Universal 77013

BMW	
320 i (E36)	1992-95
320 i Cabrio (E36)	1992-95
320 i Coupe (E36)	1993-95

Motor/Engine/Moteur:
M50B20 150 cv.

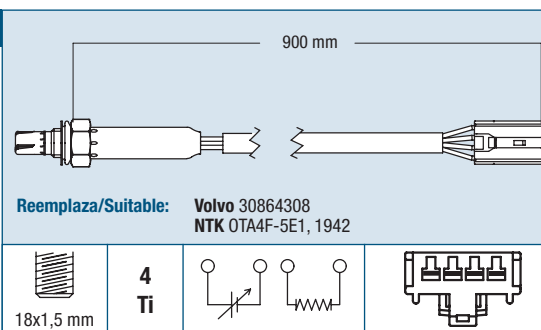
Modelos con cambio Automático.
Models with automatic gear or Auto-
matic Transmission.
Modèles avec boîte vitesse automa-
tique.



77356

Adatt. Universal 77013

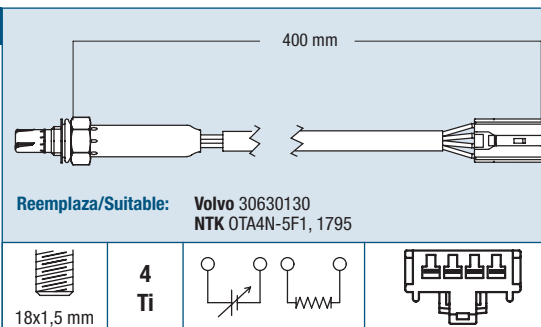
VOLVO	
S40 1.9 T4 (B4194T)	1997-00
S40 2.0 T (B4020T)	1997-00
V40 1.9 T4 (B4194T)	1997-00
V40 2.0 T (B4020T)	1997-00



77357

Adatt. Universal 77013

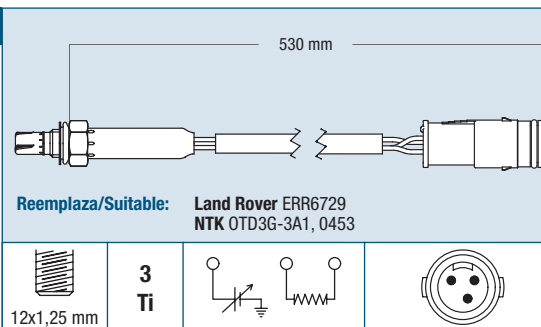
VOLVO	
S40 1.6 (B4164S2)	2000-03
S40 1.8	2000-03
S40 2.0 (B4204S)	2000-03
V40 1.6 (B4164S2)	2000-03
V40 1.8	2000-03
V40 2.0 (B4204S)	2000-03



77358

Adatt. Universal 77010

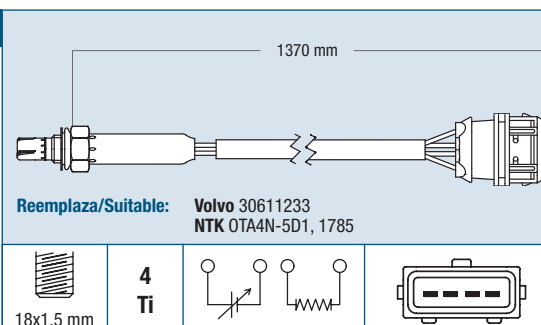
LAND ROVER		ROVER	
Range Rover 3.5	1987-90	820 SI	1989-91
Range Rover 3.9 Cat.	1989-94	820 SI Fastback	1989-91
Range Rover 4.3 Vogue LSE	1992-94		



77359

Adatt. Universal 77013

VOLVO	
S40 2.0 T (VS)	1997-00
V40 2.0 T4 (VW)	2000 ->

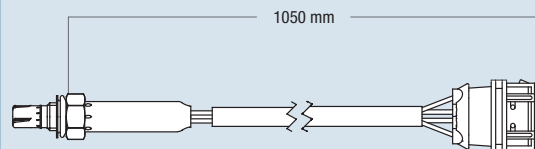




77360

Adatt. Universal 77013

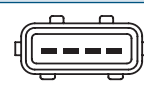
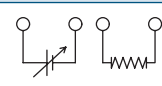
VOLVO	
S40 1.9 T4 (VS)	1997-00
S40 2.0 T (VS)	1997-00
V40 1.9 T4 (VW)	1997-00
V40 2.0 T (VW)	1997-00



Reemplaza/Suitable: Volvo 30617337
NTK OTA4F-5C2, 1948



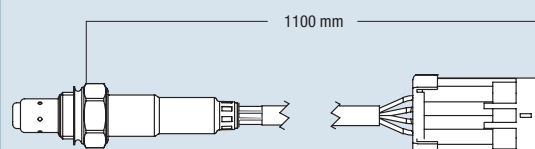
4
Ti



77361

Adatt. Universal 77008

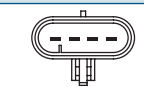
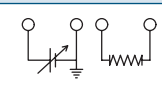
ALFA ROMEO	
145 1.6 ie	1994-96
146 1.6 ie	1994-96



Reemplaza/Suitable: Alfa Romeo 46434552



4
Zr

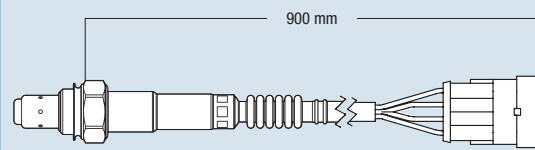


Motores/Engines/Moteurs:
AR33201.

77362

Adatt. Universal 77015

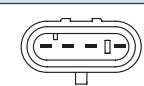
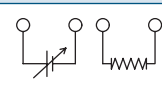
ALFA ROMEO		LANCIA	
147 3.2 GTA	2003 ->	Thesis 3.0 V6	2002 ->
156 2.5 V6	2000 ->	Thesis 3.2 V6	2003 ->
156 3.2 GTA	2002 ->		
166 2.5 V6	2000 ->		
166 3.0, 3.2 V6	2000 ->		
GT 3.2 GTA	2003 ->		
GTV 3.0, 3.2 V6	2000 ->		
Spider 3.0, 3.2 V6	2000 ->		



Reemplaza/Suitable: Bosch 0258 006 389
Alfa Romeo 46764207, 60816696



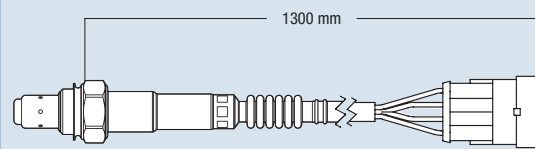
4 Zr
Planar



77363

Adatt. Universal 77015

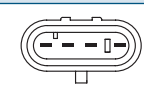
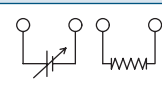
LANCIA	
Thesis 3.0 V6	2002 ->
Thesis 3.2 V6	2003 ->



Reemplaza/Suitable: Bosch 0258 006 426
Fiat 46805753, 46805754



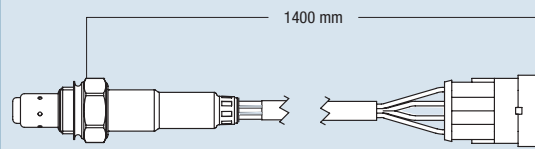
4 Zr
Planar



77364

Adatt. Universal 77004

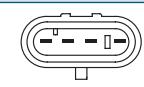
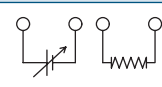
FIAT	
Punto 1.8 130 HGT	1999 ->



Reemplaza/Suitable: Fiat 46811313
NTK OZA532-A4, 1786



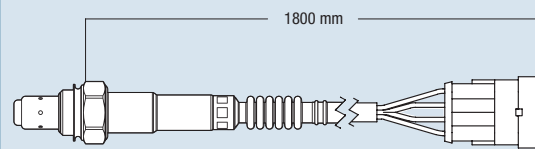
4
Zr



77365

Adatt. Universal 77015

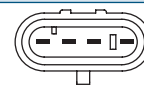
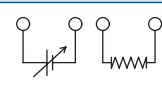
ALFA ROMEO	
166 2.0 T.S.	2000 ->
166 2.5 V6	2000 ->
166 3.0 V6	2000 ->
166 3.2 V6	2003 ->



Reemplaza/Suitable: Bosch 0258 006 377, 0258 006 425
Alfa Romeo 46750248, 46805751



4 Zr
Planar

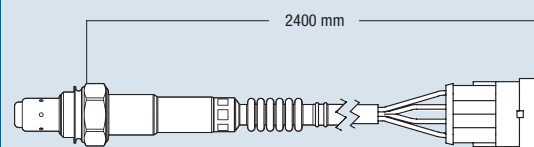




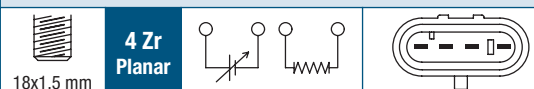
NEW 77366

Adatt. Universal 77015

ALFA ROMEO		
147 3.2 GTA	2003 ->	
156 2.5 V6 24V, SW	2002-05	
156 3.2 GTA, SW	2002-05	
166 2.5 V6 24V	2002 ->	
166 3.0 V6 24V	2002 ->	
166 3.2 V6 24V	2003 ->	
GT 3.2 GTA	2003 ->	
GTV 3.0 V6 24V	2002 ->	
GTV 3.2 V6 24V	2003 ->	
Spider 3.2 V6 24V	2003-05	



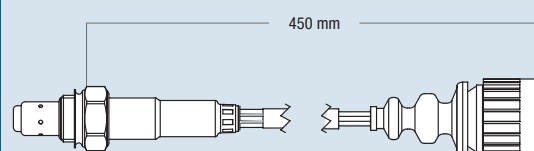
Reemplaza/Suitable: Bosch 0258 006 391
Alfa Romeo 46805750



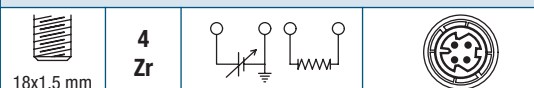
77367

Adatt. Universal 77008

BMW		
530 i V8	1992-95	
530 i Touring V8	1992-97	
540 i V8	1992-95	
540 i Touring V8	1993-97	
730 i, iL V8	1992-94	



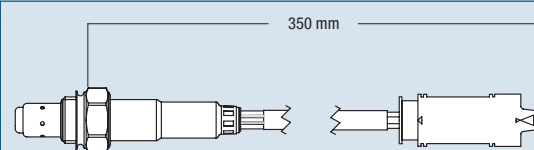
Reemplaza/Suitable: Bosch 0258 005 324
BMW 11 781 747 579, 11 781 741 666



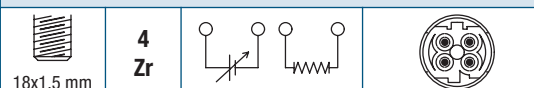
77368

Adatt. Universal 77004

BMW		
535 i	1996-03	
540 i, Touring	1996-03	
M5	1998-03	
735 i, iL	1996-01	
740 i, iL	1996-01	
750 i, iL	1995-01	
840 Ci	1996-99	
850 Ci	1994-99	
Z3 2.0	1999-03	
Z3 2.8	1997-00	
Z3 3.0	2000-03	
Z8 4.9	2000-03	



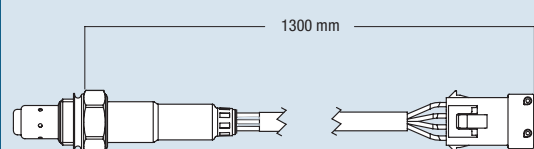
Reemplaza/Suitable: Bosch 0258 003 475
BMW 11 781 742 052



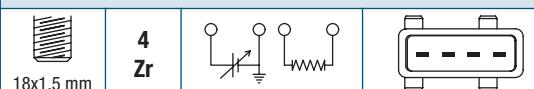
77369

Adatt. Universal 77008

CITROEN		PEUGEOT	
XSara 1.8 i Aut.	1997-00	406 2.0 16V	1996-04
XSara Break 1.8 i Aut.	1997-00	406 Break 2.0 16V	1996-04
XSara Coupe 1.8 i	1998-00	406 Coupe 2.0 16V	1997-04



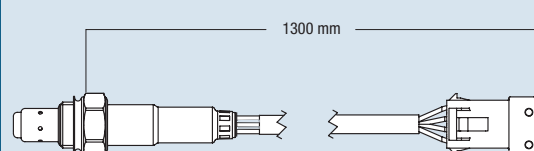
Reemplaza/Suitable: Bosch 0258 003 673
PSA 1628.8C



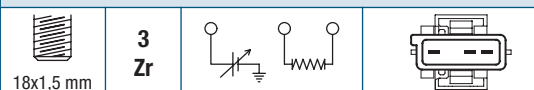
77370

Adatt. Universal 77003

SAAB		
9000 2.0 -16	1989-93	
9000 2.0 -16 Turbo	1988-93	
9000 2.0 -16 Turbo CD	1988-93	
9000 2.3 -16 CD	1989-98	
9000 2.3 -16 CD Turbo	1990-98	
9000 2.3 -16 Turbo	1990-93	



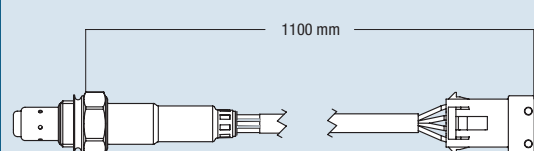
Reemplaza/Suitable: Bosch 0258 003 245, 0258 005 334
Saab 91 32 564



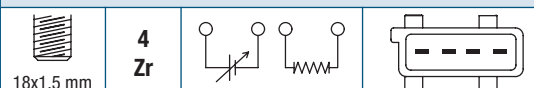
77371

Adatt. Universal 77004

SAAB		SAAB Cont.	
900 II 2.0 -16 Turbo	1993-98	9-3 2.0 Turbo, SE	1998-02
900 II 2.0 i	1994-98	9-3 2.0i 16V Turbo	1999 ->
900 II 2.3 -16	1993-98	9-3 Cabriolet 2.0 Turbo	1998-03
900 II Cabrio 2.0 -16 Turbo	1993-98	9-5 2.0 t	1997 ->
900 II Cabriolet 2.0 i	1994-98	9-5 2.3 t	1997 ->
900 II Cabriolet 2.3 -16	1994-98	9-5 2.3 Turbo	1999-01
900 II Coupe 2.0 -16 Turbo	1994-98		
900 II Coupe 2.0 i	1994-98		
900 II Coupe 2.3 -16	1994-98		

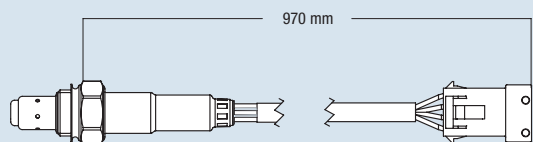
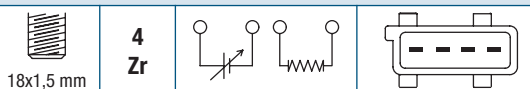


Reemplaza/Suitable: Bosch 0258 003 662
Saab 46 60 445, 91 46 952, 46 60 494

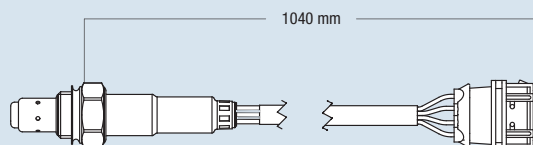
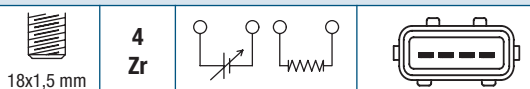



77372
Adatt. Universal 77004
PORSCHE

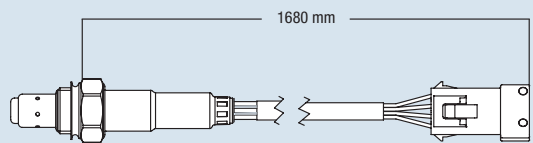
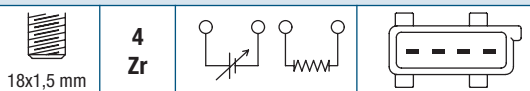
911 3.6 Carrera	1993-97
911 3.6 Carrera 4	1994-97
911 3.8 Carrera RS	1995-97
911 3.8 Carrera RS 4	1995-97
911 Cabrio 3.6 Carrera	1994-97
911 Cabrio 3.6 Carrera 4	1994-97
911 Cabrio 3.8 Carrera RS	1995-97
911 Cabrio 3.8 Carrera RS 4	1995-97
911 Targa 3.6 Carrera	1995-97
911 Targa 3.7 Carrera	1996-97


Reemplaza/Suitable: Bosch 0258 003 369
Porsche 993 606 126 01, 993 606 126 00

77373
Adatt. Universal 77009
VOLVO

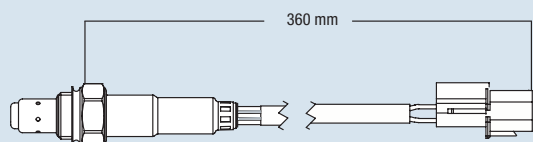
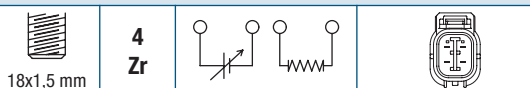
S40 1.6	1995-99
S40 1.8	1995-99
S40 2.0 136 cv.	1995-03
S40 2.0 140 cv.	1995-99
V40 1.6	1995-99
V40 1.8	1995-99
V40 2.0 136 cv.	1995-03
V40 2.0 140 cv.	1995-99


Reemplaza/Suitable: Volvo 30814907
NTK OZA83-VN1, 0124

77374
Adatt. Universal 77009
VOLVO

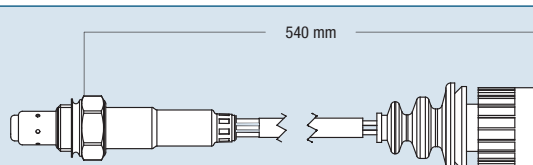
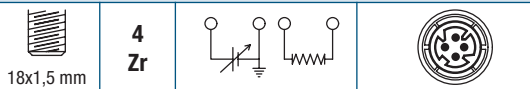
960 II 2.4	1995-97
960 II 2.5	1994-96
960 II 2.5 24V	1995-97
960 II 2.9	1994-97
S90 2.4	1997-98
S90 2.5 24V	1997-98
S90 2.9	1997-98
S90 2.9 24V	1997-98
V90 2.5 24V	1997-98
V90 2.9	1997-98
V90 2.9 24V	1997-98


Reemplaza/Suitable: Bosch 0258 005 098
Volvo 1271955-5, 9125581, 9135622

77375
Adatt. Universal 77004
HONDA

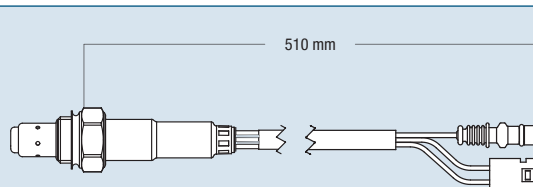
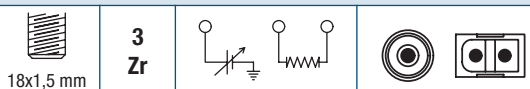
Accord IV 2.2i 16V	1991-93
Accord IV Coupe 2.0i 16V	1992-93
Civic IV Coupe 1.5i LSI	1994-95
Civic IV 1.4 i	1994-97
Civic IV 1.6 i	1994-97
Civic V 1.4 16V	1997-01
Civic V 1.6 16V	1997-01


Reemplaza/Suitable: Honda 36351-P06-A12, 36351-P06-A11
NTK OZA660-EE18, 5714

77376
Adatt. Universal 77008
BMW

M3 3.0	1994-95
M3 Coupe 3.0 286 cv.	1992-95
M3 Coupe 3.0 295 cv.	1995-95
M3 Cabriolet 3.0	1994-95


Reemplaza/Suitable: BMW 11 781 401 276

77377
Adatt. Universal 77003
MERCEDES BENZ

190 E 2.0	1983-93
190 E 2.3	1986-93
230 CE	1987-92
230 E	1984-93
260 E	1985-92
Kombi 200 TE	1988-92
Kombi 230 TE	1985-92

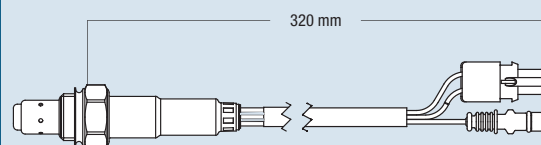

Reemplaza/Suitable: Bosch 0258 003 156
NTK OZA446-E7, 1872




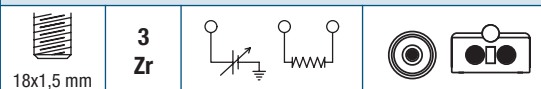
77378

Adatt. Universal 77006

MERCEDES BENZ	
190 2.0	1984-90
190 E 1.8	1990-93
190 E 2.0	1983-93
190 E 2.3	1986-93
190 E 2.3 16V	1985-88
190 E 2.5 16V	1988-93
190 E 2.6	1986-93
190 E Evolution II 2.5	1990-93



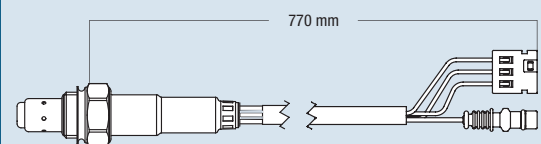
Reemplaza/Suitable: Bosch 0258 003 134
NTK OZA446-E13, 1826



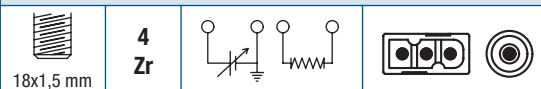
77379

Adatt. Universal 77009

MERCEDES BENZ	
E 200. E 200 T	1993-96
E 200 Cabrio	1993-98
E 200 Coupe	1993-97
E 220. E 220 T	1993-96
E 220 Cabrio	1993-98
E 220 Coupe	1993-97
Coupe 220 CE	1992-93
Kombi 200 TE	1992-93
Kombi 220 TE	1992-93



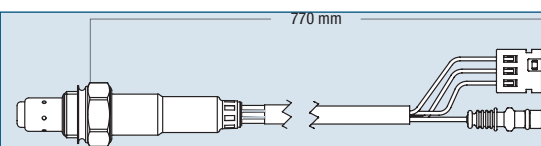
Reemplaza/Suitable: Bosch 0258 003 320, 0258 003 322
NTK OZA527-E10



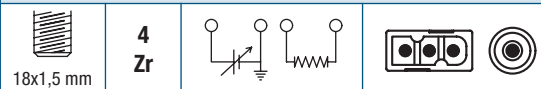
77380

Adatt. Universal 77008

MERCEDES BENZ	
320 E	1992-93
E 280 T	1993-96
E 320	1993-95
E 320 Cabrio	1993-98
E 320 Coupe	1993-97
E 320 T	1993-96
E 36 AMG Coupe	1993-97
E 36 AMG Cabriolet	1994-98
E 36 T AMG	1994-96
Coupe 320 CE	1992-93
Kombi 280 TE	1992-93
Kombi 320 TE	1992-93



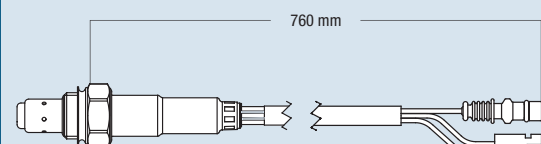
Reemplaza/Suitable: Bosch 0258 003 314
NTK OZA527-E25, 0444



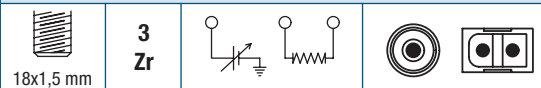
77381

Adatt. Universal 77003

MERCEDES BENZ		MERCEDES BENZ Cont.	
190 E 2.3	1986-93	300 SL	1985-89
190 E 2.3 -16	1984-88	E 300 TE-24 AMG	1993-96
200	1986-90	Kombi 200 T	1985-90
200 E	1988-92	Kombi 230 TE	1985-92
230 CE Coupe	1987-92	Kombi 260 TE FGST	1985-92
230 E	1985-93	Kombi 300 TE	1986-92
260 E, 4-Matic	1985-92	Kombi 300 TE-24	1989-92
300 CE-24 Cabriolet	1992-93		
300 CE Coupe	1987-93		
300 CE-24 Coupe	1989-92		
300 E, 300 E 4-Matic	1985-93		
300 E-24	1988-92		



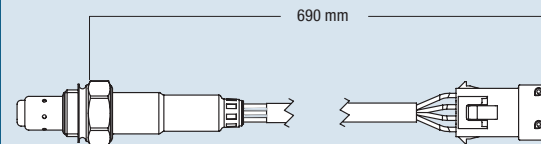
Reemplaza/Suitable: Bosch 0258 003 146, 0258 003 925
NTK OZA446-E14, 1837



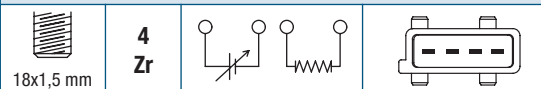
77382

Adatt. Universal 77004

PORSCHE	
911 3.4 Carrera	1997-01
911 3.4 Carrera 4	1997-01
911 Cabrio 3.4 Carrera	1998-01
911 Cabrio 3.4 Carrera 4	1998-01



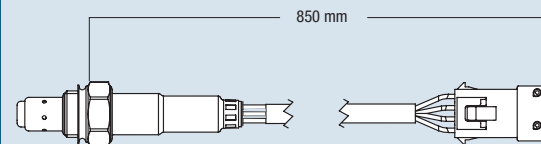
Reemplaza/Suitable: Porsche 993 606 118 01, 993 606 117 00
993 606 118 00



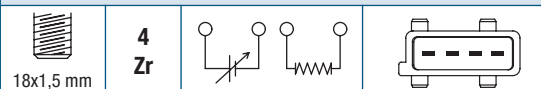
77383

Adatt. Universal 77004

PORSCHE		SAAB	
911 3.6 Turbo 4	1995-97	9-3 2.0 i	1998-02
911 3.6 Turbo GT2	1995-97	9-3 2.0 SE Turbo	1998-02
911 3.6 Turbo GT2 4	1995-97	9-3 2.0 Turbo	1998-02
		9-3 2.3 i	1998-02
		9-3 2.3 Turbo	1998-02
		9-3 Cabriolet 2.0 i	1998-03
		9-3 Cabriolet 2.0 SE Turbo	1998-03
		9-3 Cabriolet 2.0 Turbo	1998-03
		9-3 Cabriolet 2.3 i	1998-03
		9-3 Cabriolet 2.3 Turbo	1998-03
		9-5 3.0 V6t	1998 -->

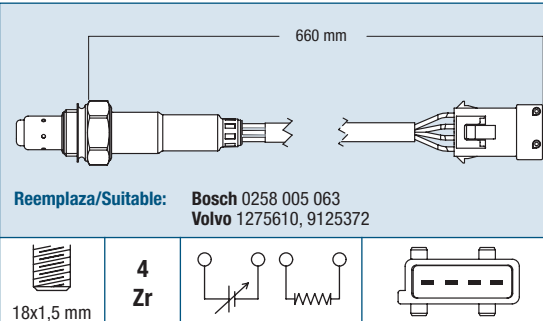


Reemplaza/Suitable: Porsche 993 606 127 01, 993 606 127 00
Saab 4660502, 46 60 163, 46 62 367

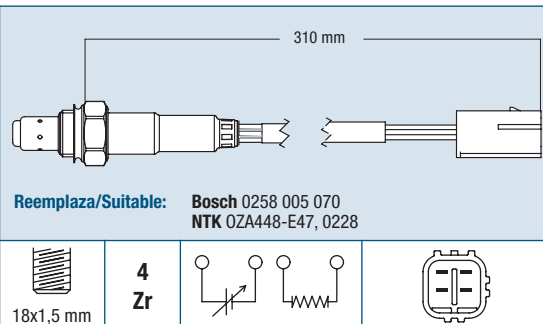



77384
Adatt. Universal 77004

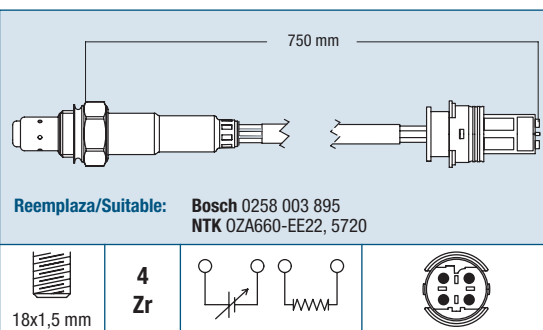
VOLVO		VOLVO Cont.	
850 2.5 AWD	1996-96	V70 2.0 Turbo AWD	1997-00
C70 Coupe 2.0	1997-02	V70 2.3 T AWD	1997-00
C70 Coupe 2.0 T	1997-02	V70 2.3 T-5	1997-00
C70 Coupe 2.3 T-5	1997-02	V70 2.3 T-5 AWD	1997-00
C70 Coupe 2.5 T	1997-02	V70 2.3 Turbo	1997-00
S70 2.0	1997-00	V70 2.4 Turbo	1997-00
S70 2.0 Turbo	1997-00	V70 2.5 Turbo AWD	1997-00
S70 2.3 T-5	1997-00		
S70 2.3 Turbo	1997-00		
S70 2.4 Turbo	1997-00		
V70 2.0	1997-00		
V70 2.0 Turbo	1997-00		


77385
Adatt. Universal 77004

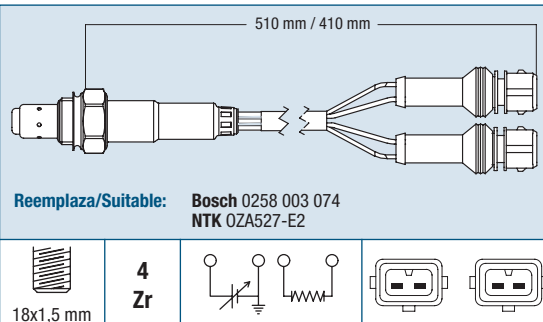
TOYOTA	
Avensis 1.6 101 cv.	1997-00
Avensis 1.6 110 cv.	1997-00
Avensis Station Wagon 1.6	1997-00
Carina E 1.6	1993-97
Carina E 1.6 16V	1995-97
Carina E 1.6 GLI	1992-97
Carina E Sportwagon 1.6 GLI	1993-97
Carina E Sportwagon 1.6 i	1995-97


77386
Adatt. Universal 77004

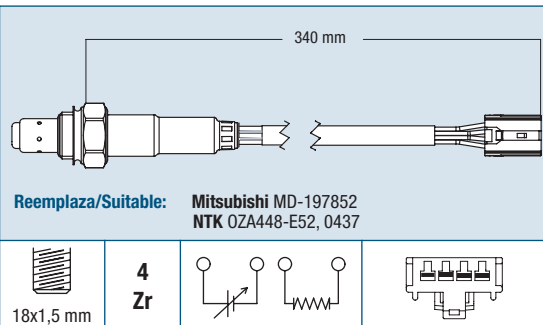
BMW	
Z3 Coupe M 3.2	1998-01
Z3 M 3.2	1997-01


77387
Adatt. Universal 77008

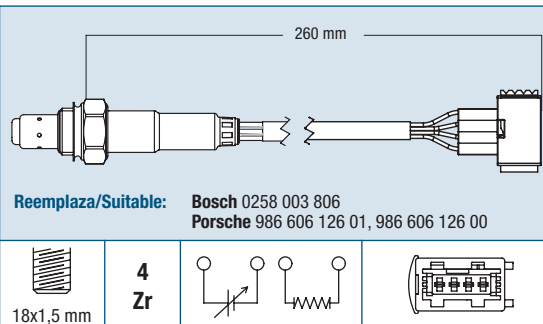
PEUGEOT	
205 1.0	1987-98
205 1.1	1989-98
205 1.4	1988-98
205 1.6 Aut.	1990-98
205 1.9 GTI	1987-98
309 1.1	1990-93
309 1.4	1989-93
309 1.6	1989-93
309 1.9 GTI	1989-93
309 1.9 GTI 16V	1990-93
405 1.9, 1.9 4x4	1988-92
405 1.9 Sport MI-16	1988-92


77388
Adatt. Universal 77004

MITSUBISHI	
Carisma 1.6 90 cv.	1995-06
Carisma 1.6 95 cv.	1999-06
Carisma 1.6 99 cv.	1997-06
Carisma 1.8 116 cv.	1995-06
Carisma 1.8 16V 140 cv.	1995-06


77389
Adatt. Universal 77004

PORSCHE	
Boxster 2.5	1996-99
Boxster 2.7	1999-02
Boxster S 3.2	1999-02

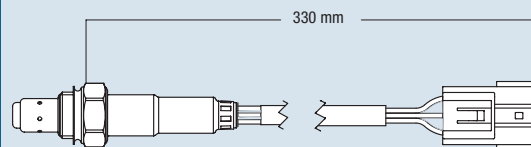




77390

Adatt. Universal 77003

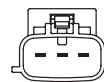
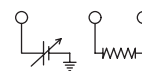
NISSAN		
Almera II (N16) 1.5	2000 ->	
Almera II (N16) 1.8	2000 ->	
Almera Tino (V10) 1.8	2000 ->	
Primera (P11) 1.6 16V	2000-02	
Primera (P11) 1.8 16V	1999-02	
Primera (P11) 2.0 16V	1999-02	
Primera Traveller 1.6 16V	1999-01	
Primera Traveller 1.8 16V	1999-01	



Reemplaza/Suitable: Nissan 22690-9F601



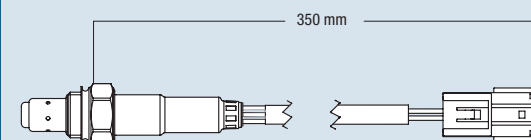
3
Zr



77391

Adatt. Universal 77004

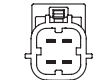
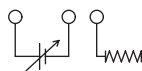
NISSAN		
Micra (K11) 1.0i 16V	2000-03	
Micra (K11) 1.4i 16V	2000-03	



Reemplaza/Suitable: Nissan 22690-1F701
NTK OZA448-E58



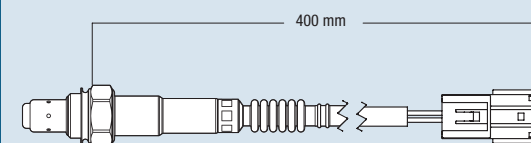
4
Zr



77392

Adatt. Universal 77015

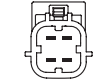
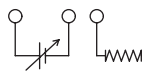
TOYOTA		
Almera II (N16) 1.5	2003 ->	
Almera II (N16) 1.8	2003 ->	
Almera Tino (V10) 1.8	2000 ->	
Micra (K12) 1.0 16V	2003 ->	
Micra (K12) 1.2 16V	2003 ->	
Micra (K12) 1.4 16V	2003 ->	
Primera (P12) 1.6	2002 ->	
Primera (P12) 1.8	2002 ->	
Primera (WP12) 1.8	2002 ->	



Reemplaza/Suitable: Bosch 0258 006 462
Nissan 22690-AX000, 22690-AU000



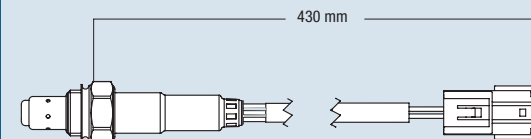
4 Zr
Planar



77393

Adatt. Universal 77004

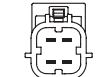
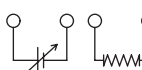
NISSAN		
Micra (K11) 1.0i 16V	2000-03	
Micra (K11) 1.4i 16V	2000-03	



Reemplaza/Suitable: Nissan 226A0-1F701



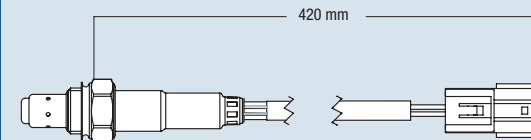
4
Zr



77394

Adatt. Universal 77008

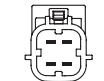
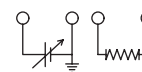
NISSAN		
Almera II (N16) 1.8	2000 ->	
Primera (P11) 1.6 16V	2000-02	
Primera (P11) 1.8 16V	1999-02	
Primera (P11) 2.0 16V	1999-02	
Primera Traveller 1.6 16V	1999-01	
Primera Traveller 1.8 16V	1999-01	



Reemplaza/Suitable: Nissan 226A0-7J601



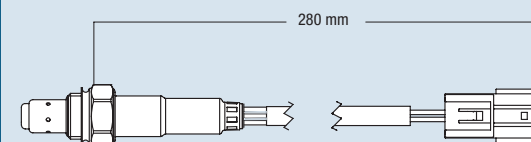
4
Zr



77395

Adatt. Universal 77008

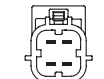
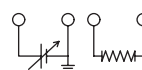
NISSAN		
Micra (K12) 1.0 16V	2003 ->	
Micra (K12) 1.2 16V 65 cv.	2003 ->	
Micra (K12) 1.2 16V 80 cv.	2003 ->	
Micra (K12) 1.4 16V	2003 ->	



Reemplaza/Suitable: Nissan 226A0-AX000

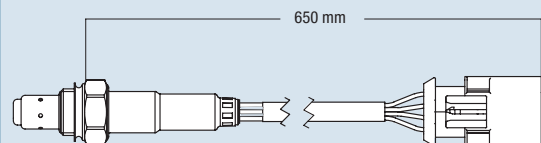


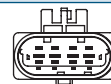
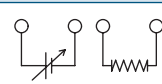
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Zr



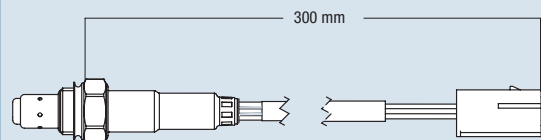

NEW 77396
Adatt. Universal 77004

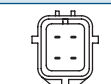
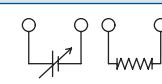
MINI	
Cooper (116 cv.)	2001 ->
Cooper (120 cv.)	2006 ->
Cooper S (163 cv.)	2002 ->
Cooper S (170 cv.)	2004 ->
Cooper S (174 cv.)	2006 ->
One	2001 ->
Works	2003 ->
Descapotable	2004 ->


Reemplaza/Suitable: BMW/Mini 11 780 872 674
NTK

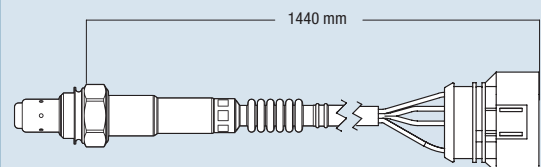
4
Zr

NEW 77397
Adatt. Universal 77004

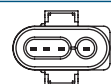
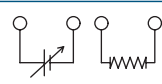
NISSAN	
Micra 1.2 16V 65 cv.	2003 ->
Micra 1.2 16V 80 cv.	2003 ->
Micra 160 SR	2005 ->
Micra C+C 1.6 160 SR	2005 ->
Note 1.6	2006 ->
Tiida 1.6	2007 ->


Reemplaza/Suitable: Nissan 22690-ED000
NTK OZA603-N2

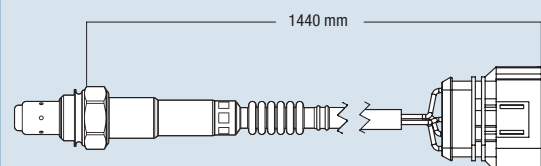
4
Zr

NEW 77400
Adatt. Universal 77015

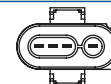
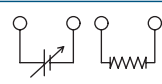
AUDI		SKODA		VOLKSWAGEN	
A4 2.4, Quattro, Avant	1998-00	SuperB 2.8 V6	2002 ->	Passat 2.8 4Motion	2000-02
A4 2.8, Quattro, Avant	1998-00			Passat Variant 2.8 4Motion	2000-02
A4 S4 Quattro, RS4	1998-00				
A6 2.4, Quattro, Avant	2000-01				
A6 2.8 Quattro, Avant	2000-01				
A6 RS6, Avant	2000-01				
Allroad 2.7 T Quattro	2000-01				


Reemplaza/Suitable: Bosch 0 258 006 312
NGK OZA659-EE46

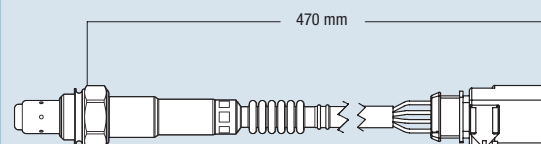
4 Zr
Planar

NEW 77401
Adatt. Universal 77015

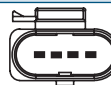
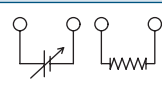
AUDI		SKODA		VOLKSWAGEN	
A4 2.4, Quattro, Avant	1998-00	SuperB 2.8 V6	2002 ->	Passat 2.8 4Motion	2000-02
A4 2.8, Quattro, Avant	1998-00			Passat Variant 2.8 4Motion	2000-02
A4 S4 Quattro, RS4	1998-00				
A6 2.4, Quattro, Avant	2000-01				
A6 2.8 Quattro, Avant	2000-01				
A6 RS6, Avant	2000-01				
Allroad 2.7 T Quattro	2000-01				


Reemplaza/Suitable: Bosch 0 258 006 314
NGK OZA659-EE47

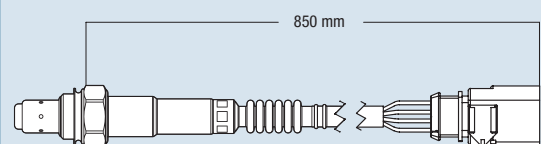
4 Zr
Planar

NEW 77402
Adatt. Universal 77015

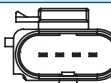
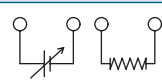
AUDI		SKODA		VOLKSWAGEN	
A3 1.6 FSI	2005-07	Octavia 1.4	2004 ->	Caddy III 1.4	2004-06
A3 Sportback 1.6 FSI	2005-07	Octavia 1.6 FSI	2004 ->	EOS 1.6 FSI	2006 ->
		Octavia Combi 1.6 FSI	2004 ->	Golf V 1.4 16V	2003-06
				Golf V 1.6 FSI	2005 ->
				Golf V Plus 1.4 16V	2005-06
				Golf V Plus 1.6 FSI	2005-09
				Jeta III 1.6 FSI	2005-08
				Touran 1.6 FSI	2005-07


Reemplaza/Suitable: Bosch 0 258 006 593
VW 036 906 262 P

4 Zr
Planar

NEW 77403
Adatt. Universal 77015

AUDI		SEAT		VOLKSWAGEN	
A3 2.0 FSI	2003-06	Altea 2.0 FSI	2004-06	EOS 2.0 FSI	2006 ->
A3 Sportback 2.0 FSI	2004-06	Leon 2.0 FSI	2005-06	Golf V 2.0 FSI	2004-06
		Toledo III 2.0 FSI	2004-06	Golf V Plus 2.0 FSI	2005-06
				Jeta III 2.0 FSI	2005-06
				Touran 2.0 FSI	2003 ->


Reemplaza/Suitable: Bosch 0 258 006 738
VW 06F 906 262 M,06F 906 262 S

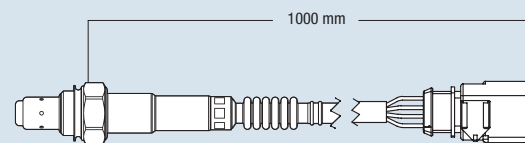
4 Zr
Planar




NEW 77404

Adatt. Universal 77015

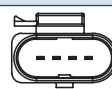
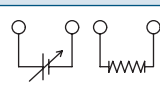
AUDI	SEAT	VOLKSWAGEN
A3 2.0 FSI	Altea 2.0 FSI	EOS 2.0 FSI
A3 Sportback 2.0 FSI	Leon 2.0 FSI	Golf V 2.0 FSI
	Toledo III 2.0 FSI	Golf V Plus 2.0 FSI
	SKODA	Jeta III 2.0 FSI
	Octavia 2.0 FSI	Touran 2.0 FSI
	Octavia Combi 2.0 FSI	



Reemplaza/Suitable: Bosch 0 258 006 553
VW 06F 906 262 D



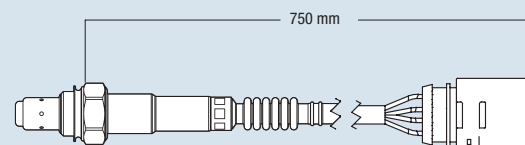
4 Zr
Planar



NEW 77405

Adatt. Universal 77015

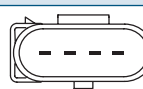
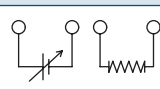
AUDI	SEAT	VOLKSWAGEN
A3 1.8 T Quattro	Leon 1.8 20V T4	Bora 2.0 4Motion
A3 S3 Quattro	Leon 1.8 T Cupra R	Bora Variant 2.0 4Motion
TT 1.8 T Quattro	SKODA	Golf IV 2.0 4Motion
TT Roadster 1.8 T Quattro	Octavia 1.8 T 4x4	Golf IV Variant 2.0 4Motion
	Octavia Combi 1.8 T	
	Octavia Combi 2.0 4x4	



Reemplaza/Suitable: Bosch 0 258 006 334
VW 06A 906 262 BB



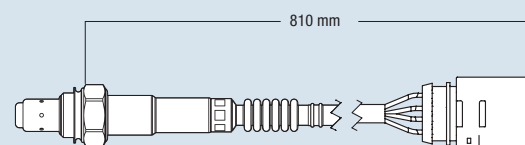
4 Zr
Planar



NEW 77406

Adatt. Universal 77015

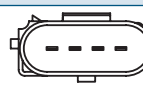
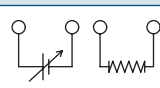
AUDI
A4 2.4
A4 3.0, Quattro
A4 Avant 2.4
A4 Avant 3.0, Quattro
A4 Cabrio 2.4
A8 3.0



Reemplaza/Suitable: Bosch 0 258 006 363
VW 06C 906 265 A



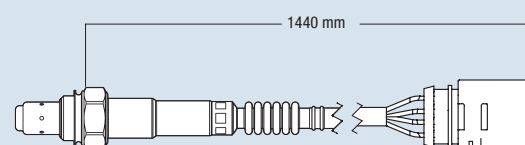
4 Zr
Planar



NEW 77407

Adatt. Universal 77015

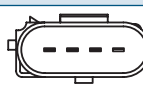
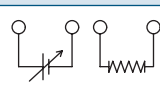
AUDI	AUDI Cont.
A4 3.0, Quattro	A6 Avant 2.4, Quattro
A4 S4 Quattro	A6 Avant 3.0, Quattro
A4 (8EC) 3.0 Quattro	Allroad 2.7 T Quattro
A4 (8EC) S4 Quattro	Allroad 4.2 V8 Quattro
A4 Avant 3.0, Quattro	
A4 Avant S4 Quattro	
A4 Avant (8ED) 3.0 Quattro	
A4 Avant (8ED) S4 Quattro	
A4 Cabrio 3.0, Quattro	
A4 Cabrio S4 Quattro	
A6 2.4, Quattro	
A6 3.0, Quattro	



Reemplaza/Suitable: Bosch 0 258 006 442
VW 078 906 265 AA



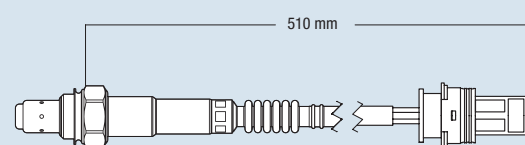
4 Zr
Planar



NEW 77408

Adatt. Universal 77015

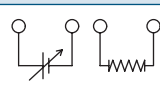
BMW
523 i, Touring
525 i, Touring
525 xi, Touring
530 i, Touring
530 xi, Touring
630 i
630 i Cabriolet
730 i, Li



Reemplaza/Suitable: Bosch 0 258 006 790
BMW 11787 545 224



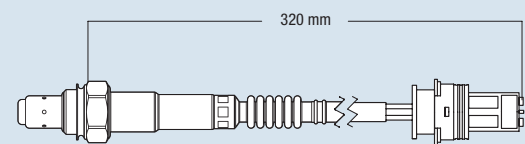
4 Zr
Planar



NEW 77409

Adatt. Universal 77015

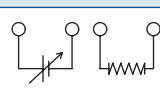
BMW	ROLLS ROYCE
540 i	Phantom 6.75
550 i, Touring	
650 i, Cabriolet	
740 i, Li	
750 i, Li	
760 i, Li	
M3, Cabriolet, Coupe	
X5 4.8 i	



Reemplaza/Suitable: Bosch 0 258 006 793
BMW 11787 539 125



4 Zr
Planar

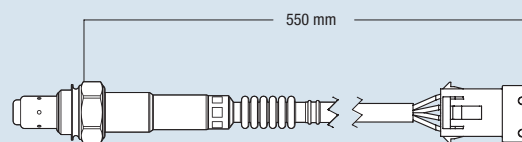




NEW 77410

Adatt. Universal 77015

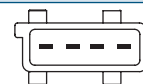
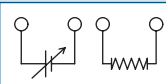
PORSCHE		
911 (996) 3.6 Carrera	2001-04	
911 (996) 3.6 Carrera 4	2001-04	
911 (996) 3.6 GT3	2003-05	
911 (997) 3.6 Carrera	2004-05	
911 (997) 3.8 Carrera S	2004-05	
911 Cabrio 3.6 Carrera	2001-05	
911 Cabrio 3.6 Carrera 4	2001-05	
911 Cabrio 3.8 Carrera S	2004-05	
911 Targa 3.6	2001-04	



Reemplaza/Suitable: Bosch 0 258 006 433
Porsche 996 606 168 01



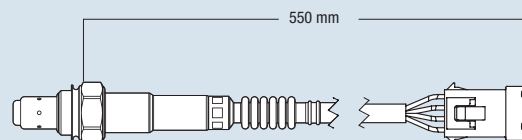
18x1,5 mm

4 Zr
Planar

NEW 77411

Adatt. Universal 77015

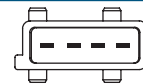
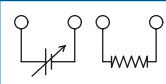
PORSCHE		
911 (996) 3.6 Carrera	2001-04	
911 (996) 3.6 Carrera 4	2001-04	
911 (996) 3.6 GT3	2003-05	
911 (997) 3.6 Carrera	2004-05	
911 (997) 3.8 Carrera S	2004-05	
911 Cabrio 3.6 Carrera	2001-05	
911 Cabrio 3.6 Carrera 4	2001-05	
911 Cabrio 3.8 Carrera S	2004-05	
911 Targa 3.6	2001-04	



Reemplaza/Suitable: Bosch 0 258 006 435
Porsche 996 606 116 01, 996 606 178 00



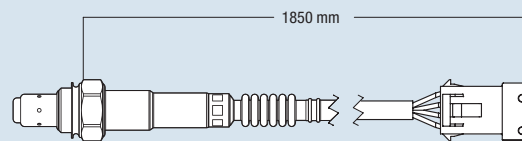
18x1,5 mm

4 Zr
Planar

NEW 77412

Adatt. Universal 77015

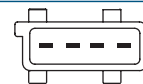
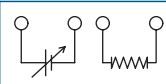
CITROËN		PEUGEOT	
C5 1.8 16V	2004 ->	407 1.8, 2.0	2004 ->
C5 2.0 16V	2001-04	407 2.2	2004 ->
C5 Break 1.8 16V	2004 ->	407 SW 1.8, 2.0	2004 ->
C5 Break 2.0 16V	2001-04	407 SW 2.2	2004 ->



Reemplaza/Suitable: Bosch 0 258 006 431
PSA 1628 VN



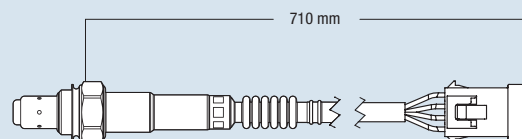
18x1,5 mm

4 Zr
Planar

NEW 77413

Adatt. Universal 77015

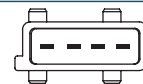
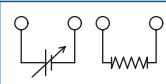
SAAB		VOLVO	
9-3 2.0 t (175 cv.)	2003 ->	S80 2.8 T6	1998-06
9-3 2.0 T (210 cv.)	2003 ->	S80 3.0 T6	2001-06
9-3 Cabrio 2.0	2003 ->	XC 90 T6	2002-06



Reemplaza/Suitable: Bosch 0 258 006 541
NGK OZA583 GM2



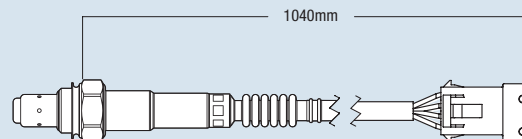
18x1,5 mm

4 Zr
Planar

NEW 77414

Adatt. Universal 77015

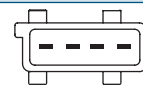
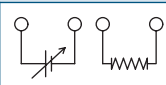
VOLVO		
S60 2.5 T	2004 ->	
S60 2.5 T AWD	2004 ->	
S60 R 2.5 T AWD	2003-04	
V70 II 2.5 T	2004 ->	
V70 II 2.5 T AWD	2002-04	
V70 II R 2.5 T AWD	2003-04	
XC 70 Cross Country 2.5 T	2002-04	
XC 70 2.5 T XC AWD	2002-04	
XC 90 2.5 T	2002-04	



Reemplaza/Suitable: Bosch 0 258 006 488
Volvo 8670167



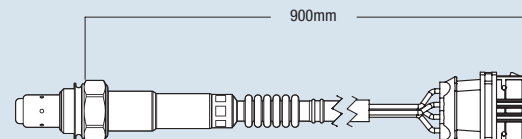
18x1,5 mm

4 Zr
Planar

NEW 77415

Adatt. Universal 77015

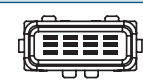
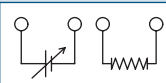
VOLVO		
S40 I 2.0 T (165 cv.)	2000-01	
S40 I 2.0 T (163 cv.)	2001-03	
S40 I 2.0 T4	2000-03	
V40 2.0 T (165 cv.)	2000-01	
V40 2.0 T (163 cv.)	2001-04	
V40 2.0 T4	2000-04	



Reemplaza/Suitable: Bosch 0 258 006 381
Volvo 30616821



18x1,5 mm

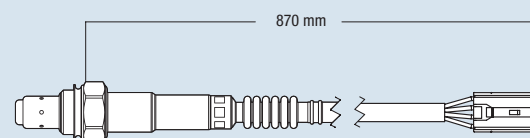
4 Zr
Planar



NEW 77416

Adatt. Universal 77015

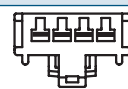
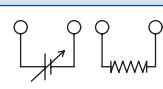
VOLVO	
S40 I 2.0 T (165 cv.)	2000-01
S40 I 2.0 T (163 cv.)	2001-03
S40 I 2.0 T4	2000-03
V40 2.0 T (165 cv.)	2000-01
V40 2.0 T (163 cv.)	2001-04
V40 2.0 T4	2000-04



Reemplaza/Suitable: Bosch 0 258 006 380
Volvo 30617127, 30620773



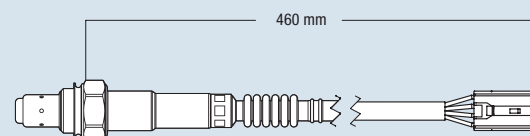
4 Zr
Planar



NEW 77417

Adatt. Universal 77015

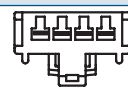
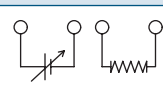
MITSUBISHI		SMART	
Colt VI 1.1	2004 ->	Forfour 1.1 (64 cv.)	2005-07
Colt VI 1.3	2004 ->	Forfour 1.1 (75 cv.)	2004-07
Colt VI 1.5	2004 ->	Forfour 1.3	2004-07
Colt VI 1.5 CZT	2005 ->	Forfour 1.5 (109 cv.)	2004-07
		Forfour 1.5 (122 cv.)	2004-07
		Forfour 1.5 Brabus	2005-07



Reemplaza/Suitable: Bosch 0 258 006 566
MB MR985039, 135 542 0218



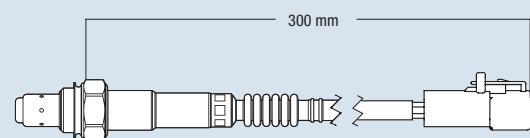
4 Zr
Planar



NEW 77418

Adatt. Universal 77015

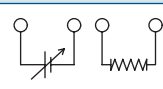
FORD	
Focus II 1.6 Ti	2004 ->
Focus II Sedan 1.6 Ti	2005 ->
Focus II Turnier 1.6 Ti	2004 ->
Focus C-Max 1.6 Ti	2004-07



Reemplaza/Suitable: Bosch 0 258 006 603
Ford 1327547, 3M519 F472 CB



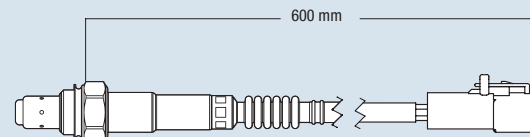
4 Zr
Planar



NEW 77419

Adatt. Universal 77015

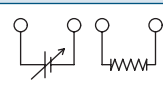
FORD	
Focus II 1.6 Ti	2004 ->
Focus II Sedan 1.6 Ti	2005 ->
Focus II Turnier 1.6 Ti	2004 ->
Focus C-Max 1.6 Ti	2004-07



Reemplaza/Suitable: Bosch 0 258 006 571
Ford 1325748, 1326415, 1327549



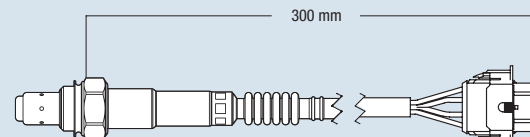
4 Zr
Planar



NEW 77420

Adatt. Universal 77015

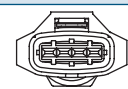
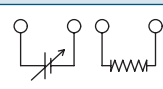
OPEL		VAUXHALL	
Astra H 1.4	2004 ->		
Astra H GTC 1.4	2005 ->		
Combo 1.4 16V	2005 ->		
Combo Tour 1.4	2004 ->		
Corsa C 1.2 Twinport	2004-06		
Corsa C Van 1.2	2005-06		
Corsa D 1.2	2006 ->		
Corsa D 1.4	2006 ->		
Meriva 1.4 16V Twinport	2004 ->		
Tigra Twintop 1.4	2004 ->		



Reemplaza/Suitable: Bosch 0 258 006 499
Opel 855 405



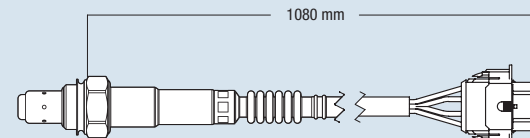
4 Zr
Planar



NEW 77421

Adatt. Universal 77015

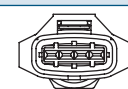
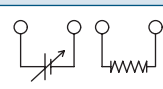
OPEL		VAUXHALL	
Astra G 2.0 OPC (192 cv.)	2002-05		
Astra G 2.0 OPC (200 cv.)	2002-05		
Astra G Cabrio 2.0 16V Turbo	2002-05		
Astra G Cabrio 2.0 OPC	2002-05		
Astra G Coupe 2.0 16V Turbo	2000-05		
Astra H 2.0 Turbo	2004 ->		
Astra H GTC 2.0 Turbo	2005 ->		
Astra H TwinTop 2.0 Turbo	2005 ->		
Speedster 2.0 Turbo	2003 ->		
Zafira 2.0 OPC	2001-05		
Zafira 2.0	2005 ->		



Reemplaza/Suitable: Bosch 0 258 006 280
Opel 855 378

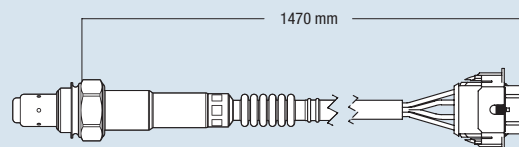


4 Zr
Planar

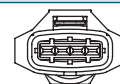
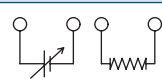



NEW 77422
Adatt. Universal 77015

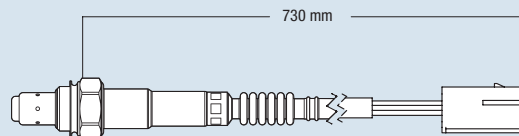
OPEL	
Signum 2.2 Direct	2003-08
Vectra C 2.2 Direct	2003-08
Vectra C GTS 2.2 Direct	2003-08
Vectra C SW 2.2 Direct	2003-08

VAUXHALL

Reemplaza/Suitable: Bosch 0 258 006 588
Opel 855 401

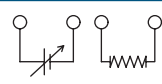

18x1,5 mm

4 Zr
Planar

NEW 77423
Adatt. Universal 77015

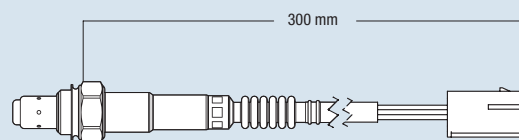
TOYOTA	
Yaris 1.0 VVT-i	2006 ->


Reemplaza/Suitable: Bosch 0 258 006 799
Toyota 89465-0D130

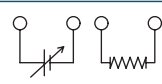

18x1,5 mm

4 Zr
Planar

NEW 77424
Adatt. Universal 77015

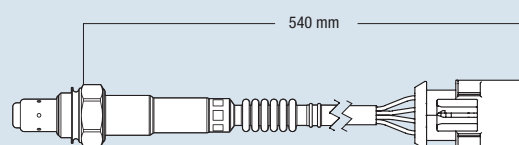
TOYOTA	
Yaris 1.0 16V	2003 ->


Reemplaza/Suitable: Bosch 0 258 006 542
Toyota 89465-0D050

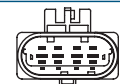
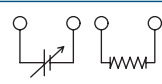

18x1,5 mm

4 Zr
Planar

NEW 77425
Adatt. Universal 77015

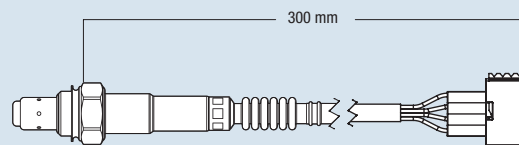
LAND ROVER		MG		ROVER	
Freelander 1.8 16V	2000 ->	MG TF 120	2002 ->	211	1998-00
Freelander 1.8i 16V	1998-00	MG TF 135	2002 ->	214i, Si	1995-00
Freelander Soft Top 1.8i 16V	1998 ->	MG TF 160	2002 ->	216 Si	1995-00
		MG ZR 120	2001 ->	25 1.1 16V	2004 ->
		MG ZS 120	2001 ->	25 1.4, 1.6 1.8. 16V	1999 ->
		MGF 1.6	2000-02	414 Si	1995-00
		MGF 1.8i 16V	1995-02	416 Si	1995-00
		MGF 1.8i VVC	1995-02	45 1.4, 1.6, 1.8	2000 ->


Reemplaza/Suitable: Bosch 0 258 006 127
NGK OZA659-EE2

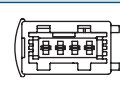
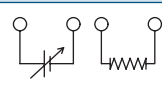

18x1,5 mm

4 Zr
Planar

NEW 77426
Adatt. Universal 77015

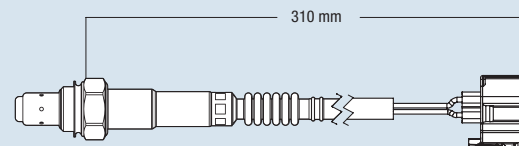
PORSCHE	
Boxster 2.7	2002 ->
Boxster S 3.2 (260 cv.)	2002 ->
Boxster S 3.2 (266 cv.)	2004 ->
Boxster Cabriolet	2002 ->


Reemplaza/Suitable: Bosch 0 258 006 506
Porsche 986 606 226 00

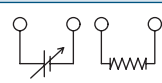

18x1,5 mm

4 Zr
Planar

NEW 77427
Adatt. Universal 77015

MERCEDES BENZ		MERCEDES Cont.		MERCEDES COMM.	
A 150. A 170	2004 ->	E 350 CGI	2007 ->	Citaro G	2004 ->
A 200. A 200 Turbo	2004 ->	GL 450	2006 ->	Citaro N	2004 ->
B 150. B 170	2005 ->	GL 500	2006 ->	Citaro NG	2004 ->
B 200. B 200 Turbo	2005 ->	ML 350 4-Matic	2005 ->		
C 230. C 230 4-Matic	2005 ->	ML 500 4-Matic	2007 ->		
C 280. C 280 4-Matic	2005 ->	R 280	2007 ->		
C 350. C 350 4-Matic	2007 ->	R 350. R 350 4-Matic	2006 ->		
CLK 280. CLK 350	2005 ->	R 500 4-Matic	2007 ->		
CLS 350	2006 ->	S 500 4-Matic	2005 ->		
E 230	2007 ->	SL 280. SL 350	2006 ->		
E 280. E 280 4-Matic	2005 ->	SLK 280. SLK 350	2004 ->		
E 350. E 350 4-Matic	2005 ->				


Reemplaza/Suitable: Bosch 0 258 006 749
MB 004 542 0718


18x1,5 mm

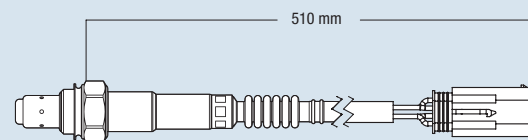
4 Zr
Planar




NEW 77428

Adatt. Universal 77015

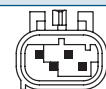
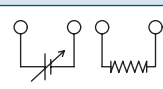
LAND ROVER		
Freelander 1.8 16V	2001-07	
Freelander 1.8 i 16V	1998-00	
Freelander 2.5 V6	2001-07	
Freelander Soft Top 16V	1998-00	



Reemplaza/Suitable: Bosch 0 258 006 432
NGK OZA659-EE50



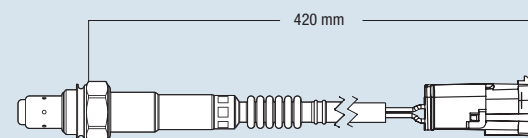
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Planar



NEW 77429

Adatt. Universal 77015

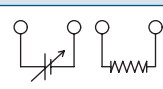
LADA		
Kalina 1.6 (82 cv.)	2004 ->	
Kalina 1.6 16V (90 cv.)	2004 ->	
Kalina Wagon 1.6 16V	2005 ->	
Priora 1.6 16V	2008 ->	



Reemplaza/Suitable: Bosch 0 258 006 537
NGK OZA659-EE41



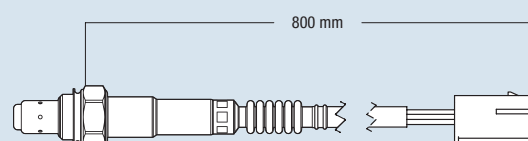
4 Zr
Planar



NEW 77431

Adatt. Universal 77015

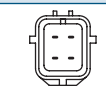
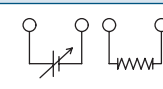
FORD		
Fiesta IV 1.25i 16V	1995-02	
Fiesta V 1.6 16V	2001 ->	
Fusion 1.6	2002 ->	



Reemplaza/Suitable: Ford 1133441
NTK OZA341-SZ2



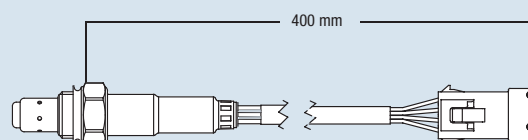
4 Zr
Planar



NEW 77432

Adatt. Universal 77004

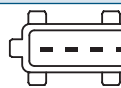
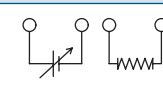
CITROËN		FIAT		PEUGEOT	
Berlingo 1.4 i, Bivalent	1996 ->	Fiorino 1.4	2008 ->	1007 1.4	2005 ->
C2 1.1, 1.4	2003 ->	Fiorino QUBO 1.4	2008 ->	206 1.4	2007 ->
C3 1.1i, 1.4	2002 ->			207 1.4, SW	2006 ->
C3 Pluriel 1.4	2003 ->			Bipper 1.4	2008 ->
Nemo 1.4	2008 ->			Partner 1.4	1996 ->



Reemplaza/Suitable: PSA 1618. RO
NTK OZA608-U2



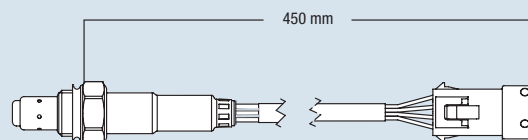
4 Zr



NEW 77433

Adatt. Universal 77009

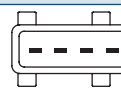
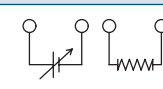
CITROËN		MINI		PEUGEOT	
C4 1.6 THP 150 cv.	2008 ->	Cooper 120 cv.	2006 ->	207 1.4	2006 ->
C4 1.6 VTi 120 cv.	2008 ->	Cooper S 174 cv.	2006 ->	207 1.4 16V	2007 ->
C4 Picasso 1.6 VTi	2008 ->			207 1.6 16V, Turbo	2006 ->
C4 Grand Picasso 1.6 VTi	2008 ->			207 1.6 16V RC, VTi	2007 ->
				207 1.6 HDi	2006 ->
				207 CC 1.6 16V, Turbo	2007 ->
				207 SW 1.4 16V, 1.6 16V	2007 ->
				308 1.4 16V	2007 ->
				308 1.6 16V	2007 ->
				308 SW 1.4 16V	2007 ->
				308 SW 1.6 16V	2007 ->



Reemplaza/Suitable: PSA 1618.V3
NTK OZA628-V1



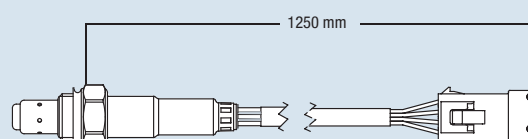
4 Zr



NEW 77434

Adatt. Universal 77004

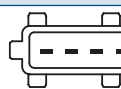
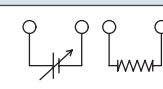
PEUGEOT		
407 1.8	2004 ->	
407 SW 1.8	2004 ->	



Reemplaza/Suitable: PSA 1618.72
PSA OZA495-PG3

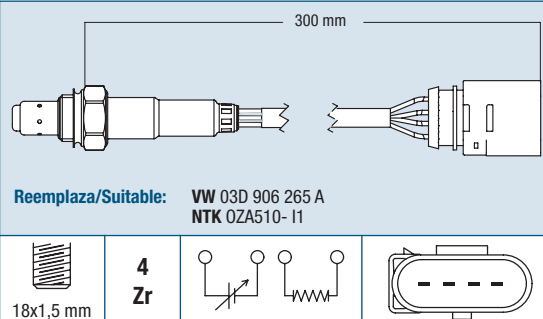


4 Zr

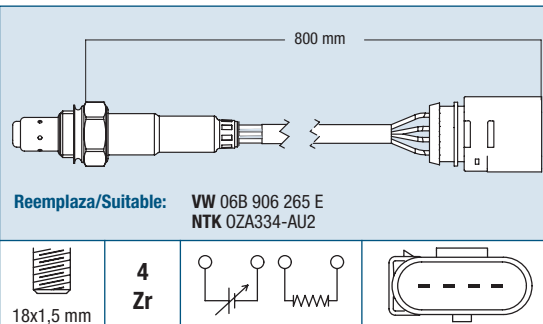



NEW 77435
Adatt. Universal 77004

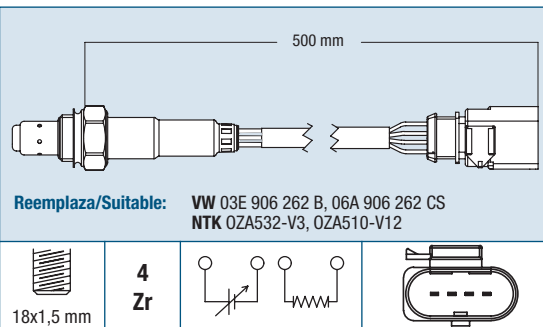
SEAT		SKODA		VOLKSWAGEN	
Ibiza IV 1.2	2007-08	Fabia 1.2, Combi	2006 ->	Fox 1.2, 1.4	2005 ->
		Fabia 1.2 Combi 54 cv.	2001 ->	Polo 1.2 54 cv.	2002 ->
		Fabia Praktik 1.2	2003 ->	Polo 1.2 60 cv.	2007 ->


NEW 77436
Adatt. Universal 77009

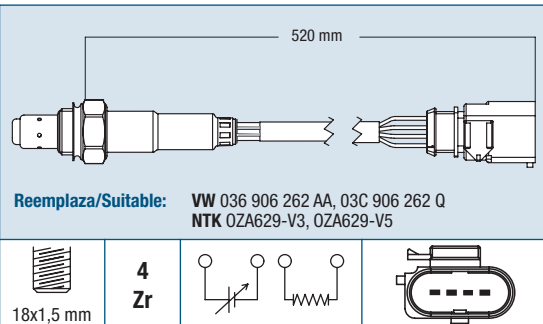
AUDI	
A4 1.6 100 cv.	1995-00
A4 1.6 102 cv.	2000 ->
A4 Avant 1.6	2001 ->


NEW 77437
Adatt. Universal 77004

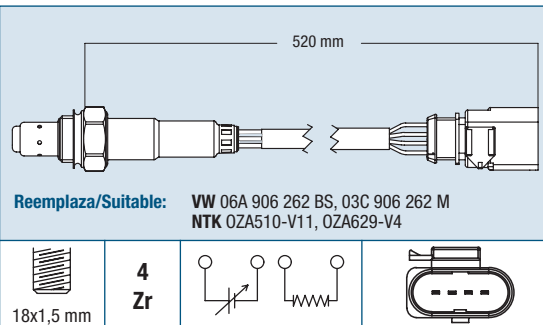
AUDI		SKODA		VOLKSWAGEN	
A4 3.2 FSI, Avant, Quattro	2008 ->	Fabia 1.2, Combi 64 cv.	2003 ->	Golf VI 1.6	2008 ->
A5 3.2 FSI, Quattro	2007 ->	Fabia 1.2, Combi 70 cv.	2007 ->	Jetta III 1.6	2006 ->
		Fabia Praktik 1.2	2003 ->	Passat 1.6, Variant	2005 ->
Cordoba 1.2 64 cv.	2002 ->	Praktik 1.2 70 cv.	2007 ->	Polo 1.2 64 cv.	2001 ->
Cordoba 1.2 12V 70 cv.	2006 ->	Roomster 1.2	2006-07	Polo 1.2 69 cv.	2007 ->
Ibiza IV 1.2 64 cv.	2002-06				
Ibiza IV 1.2 12V	2006 ->				
Ibiza V 1.2 70 cv.	2008 ->				


NEW 77438
Adatt. Universal 77009

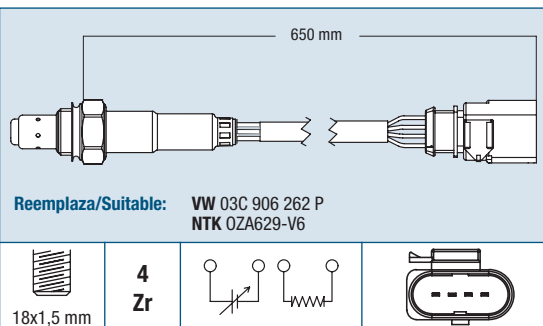
SEAT		SKODA		VOLKSWAGEN	
Altea 1.4 16V	2006 ->	Fabia 1.4, 1.6	2007 ->	Caddy III 1.4 16V	2006 ->
Altea XL 1.4	2006 ->	Fabia Combi 1.4, 1.6	2007 ->	Golf V 1.4 16V, Variant	2006 ->
Cordoba 1.4 16V, 1.6 16V	2006 ->	Octavia 1.4, Combi	2006 ->	Golf V 1.4 TSI, Variant	2006 ->
Ibiza IV 1.4 16V, 1.6 16V	2006 ->	Praktik 1.4	2007 ->	Golf V Plus 1.4 16V	2006 ->
Ibiza V 1.4, Sportcoupe	2008 ->	Roomster 1.4, 1.6	2006 ->	Golf V Plus 1.4 TSI	2006 ->
Leon 1.4 16V	2006 ->			Jetta III 1.4 TSI	2006 ->
				Polo 1.4 16V, 1.6 16V	2006 ->
				Tiguan 1.4 TSI, TSI FWD	2007 ->
				Touran 1.4 TSI, FSI	2006 ->


NEW 77439
Adatt. Universal 77009

AUDI		SEAT		VOLKSWAGEN	
A3 1.6, Sportback	2003 ->	Altea 1.4 16V, 1.6 16V	2004 ->	Caddy III 1.4 16V, 1.6	2004 ->
BMW		Altea XL 1.4, 1.6	2006 ->	Golf V 1.4 16V, 1.6	2004 ->
116i	2004 ->	Cordoba 1.6 16V	2006 ->	Golf V Plus 1.4 16V, 1.6	2005 ->
316i	2006 ->	Ibiza IV 1.6 16V	2006 ->	Golf V Variant 1.4, 1.6	2007 ->
		Leon 1.4 16V, 1.6	2005 ->	Golf V Variant 1.4 TSI	2007 ->
		Toledo III 1.6	2004 ->	Golf VI 1.6	2008 ->
				Jetta III 1.4 TSI	2007 ->
				Jetta III 1.6	2005 ->
				Passat 1.4 TSI, Variant	2007 ->
				Polo 1.6 16V	2006 ->
				Touran 1.6	2003 ->


NEW 77440
Adatt. Universal 77009

VOLKSWAGEN	
Golf V 1.4 TSI 140 cv.	2006 ->
Golf V 1.4 TSI 170 cv.	2005 ->
Golf V Plus 1.4 TSI 140 cv.	2006 ->
Golf V Plus 1.4 TSI 170 cv.	2006 ->
Jetta III 1.4 TSI 140 cv.	2006 ->
Jetta III 1.4 TSI 170 cv.	2006 ->
Tiguan 1.4 TSI	2007 ->
Touran 1.4 TSI	2006 ->

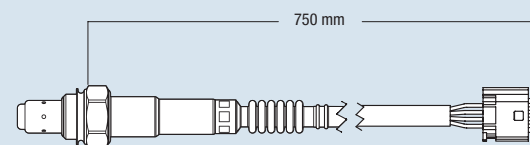




NEW 77441

Adatt. Universal 77015

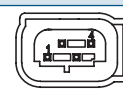
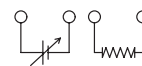
MG	
ZR 105	2001 ->
Z5 120	2001 ->
ROVER	
114 GTi 16V	1990-92
414 Si	1995-00
416 Si	1995-00
45 1.4	2000 ->
45 1.6	2000 ->
45 1.8	2000 ->
45 2.0 16V	2000 ->
Streetwise	2003 ->



Reemplaza/Suitable: **Rover MHK 101086**
Bosch 0258 006 290



**4 Zr
Planar**



77050

EXPOSITOR SONDAS LAMBDA UNIVERSALES DE CIRCONIO

El Expositor completo **Ref. FAE 77050**, está compuesto por 12 unidades, desglosadas con las siguientes Referencias:

- Ref. FAE 77001 :	2 unidades.	1 Cable	
- Ref. FAE 77002 :	1 unidad.	2 Cables	
- Ref. FAE 77004 :	4 unidades.	4 Cables. Aislado masa.	Calentador 4 ohm.
- Ref. FAE 77006 :	3 unidades.	3 Cables. Con masa chasis.	Calentador 7 ohm.
- Ref. FAE 77008 :	2 unidades.	4 Cables. Con masa chasis.	Calentador 4 ohm.



ZIRCONIA UNIVERSAL OXYGEN SENSORS EXHIBITOR

The complete exhibitor part number **FAE 77050** is composed by 12 pcs as follows:

- p/n. FAE 77001 :	2 pcs.	1-wire.	
- p/n. FAE 77002 :	1 pc.	2-wire	
- p/n. FAE 77004 :	4 pcs.	4-wire. Isolated ground.	Heater 4 ohm.
- p/n. FAE 77006 :	3 pcs.	3-wire. Case/body ground.	Heater 7 ohm.
- p/n. FAE 77008 :	2 pcs.	4-wire. Case/body ground.	Heater 4 ohm.

EXPOSEUR SONDAS LAMBDA UNIVERSELLES DE ZIRCONIUM

L'exposeur complet **Référence FAE 77050** est composé par 12 pièces comme il suit:

- Réf. FAE 77001 :	2 pièces.	1 fil.	
- Réf. FAE 77002 :	1 pièce.	2 fils.	
- Réf. FAE 77004 :	4 pièces.	4 fils. Isolée au masse.	Rechauffeur 4 ohm.
- Réf. FAE 77006 :	3 pièces.	3 fils. Masse au chassis.	Rechauffeur 7 ohm.
- Réf. FAE 77008 :	2 pièces.	4 fils. Masse au chassis.	Rechauffeur 4 ohm.




NOVEDADES / NEW PRODUCTS / NOUVEAUTES

FAE	Nº Cables	Long. mm	Univ.	Type	Pags.	Disponible Available	
75001	5 Zr Planar W/F	600		R	91	NEW - 05/2010	AUDI - BMW - SEAT - SKODA - VW
75002	5 Zr Planar W/F	950		R	91	NEW - 05/2010	AUDI - BMW - MB - PORSCHE - SEAT - SKODA - VW
75003	5 Zr Planar W/F	1500		R	91	NEW - 05/2010	AUDI - BMW - MB - PORSCHE - SEAT - SKODA - VW
75004	5 Zr Planar W/F	650		R	91	NEW - 05/2010	ALFA ROMEO - FERRARI - FORD - NISSAN - VOLVO
75005	5 Zr Planar W/F	1200		R	91	NEW - 05/2010	VOLVO
75006	5 Zr Planar W/F	400		R	91	NEW - 05/2010	AUDI - HYUNDAI - KIA - SKODA - VW
75007	5 Zr Planar W/F	900		R	92	NEW - 05/2010	AUDI - SEAT - SKODA - VW
75008	5 Zr Planar W/F	1250		R	92	NEW - 05/2010	AUDI - SKODA - VW
75009	5 Zr Planar W/F	750		R	92	NEW - 05/2010	AUDI - RENAULT - SAAB - SEAT - SKODA - VW
75010	5 Zr Planar W/F	1720		R	92	NEW - 05/2010	AUDI - VW
75011	5 Zr Planar W/F	1750		R	92	NEW - 05/2010	AUDI - SEAT - BMW
75012	5 Zr Planar W/F	1550		R	92	NEW - 05/2010	BMW
77366	4 Zr Planar	2400	77015	D	133	NEW	ALFA ROMEO
77396	4 Zr	650	77004	R / D	138	NEW	MINI
77397	4 Zr	300	77004	R / D	138	NEW	NISSAN
77400	4 Zr Planar	1440	77015	D	138	NEW	AUDI - SKODA - VW
77401	4 Zr Planar	1440	77015	D	138	NEW	AUDI - SKODA - VW
77402	4 Zr Planar	470	77015	D	138	NEW	AUDI - SKODA - VW
77403	4 Zr Planar	850	77015	D	138	NEW	AUDI - SEAT - SKODA - VW
77404	4 Zr Planar	1000	77015	D	139	NEW	AUDI - SEAT - SKODA - VW
77405	4 Zr Planar	750	77015	D	139	NEW	AUDI - SEAT - SKODA - VW
77406	4 Zr Planar	810	77015	D	139	NEW	AUDI
77407	4 Zr Planar	1440	77015	D	139	NEW	AUDI
77408	4 Zr Planar	510	77015	D	139	NEW	BMW
77409	4 Zr Planar	320	77015	D	139	NEW	BMW - ROLLS ROYCE
77410	4 Zr Planar	550	77015	R	140	NEW	PORSCHE
77411	4 Zr Planar	550	77015	D	140	NEW	PORSCHE
77412	4 Zr Planar	1850	77015	D	140	NEW	CITROEN - PEUGEOT
77413	4 Zr Planar	710	77015	D	140	NEW	SAAB - VOLVO
77414	4 Zr Planar	1040	77015	D	140	NEW	VOLVO
77415	4 Zr Planar	900	77015	R	140	NEW	VOLVO
77416	4 Zr Planar	870	77015	D	141	NEW	VOLVO
77417	4 Zr Planar	460	77015	R	141	NEW	MITSUBISHI - SMART
77418	4 Zr Planar	300	77015	R	141	NEW	FORD
77419	4 Zr Planar	600	77015	D	141	NEW	FORD
77420	4 Zr Planar	300	77015	D	141	NEW	OPEL
77421	4 Zr Planar	1080	77015	D	141	NEW	OPEL
77422	4 Zr Planar	1470	77015	D	142	NEW	OPEL
77423	4 Zr Planar	300	77015	D	142	NEW	TOYOTA
77424	4 Zr Planar	300	77015	R	142	NEW	TOYOTA
77425	4 Zr Planar	540	77015	R	142	NEW	LAND ROVER - MG - ROVER
77426	4 Zr Planar	300	77015	D	142	NEW	PORSCHE
77427	4 Zr Planar	310	77015	R / D	142	NEW	MERCEDES BENZ
77428	4 Zr Planar	510	77015	D	143	NEW	LAND ROVER
77429	4 Zr Planar	420	77015	D	143	NEW	LADA
77431	4 Zr Planar	800	77015	D	143	NEW	FORD
77432	4 Zr	400	77004	R	143	NEW	CITROEN - FIAT - PEUGEOT
77433	4 Zr	450	77009	D	143	NEW	CITROEN - MINI - PEUGEOT
77434	4 Zr	1250	77004	R	143	NEW	PEUGEOT
77435	4 Zr	300	77004	D	144	NEW	SEAT - SKODA - VW
77436	4 Zr	800	77009	D	144	NEW	AUDI
77437	4 Zr	500	77004	R	144	NEW	AUDI - SEAT - SKODA - VW
77438	4 Zr	520	77009	R	144	NEW	SEAT - SKODA - VW
77439	4 Zr	520	77009	R	144	NEW	AUDI - BMW - SEAT - SKODA - VW
77440	4 Zr	650	77009	D	144	NEW	VW
77441	4 Zr Planar	750	77015	R / D	144	NEW	MG - ROVER



Conexión Connection Connexion		Nº. de cables Nr. of wires Nº. de câbles	Longitud mm. Length mm. Longueur mm.	Esquema Scheme Schema	Calentador Heater Rechauffeur	Ref. FAE P/N FAE Ref. FAE
		1Zr 1ZR1024A0	530		Unheated	77100
		1Zr 1ZR1035A0	360		Unheated	77101
		1Zr 1ZR1025A0	230		Unheated	77103
		1Zr 1ZR1136A0	320		Unheated	77102
		2Zr 2ZR897F	370 500		Unheated	77323 77324
		2Zr 2ZR947F0	400		Unheated	77104
		3Ti 3TI950C	780		6,5 ohm	77181
		3Ti 3TI958C	530		6,5 ohm	77358
		3Ti 3TI1026C	1000		6,5 ohm	77182
		3Zr 3ZR856C4	1400		4 ohm	77317
		3Zr 3ZR937C4	500 690 940		4 ohm	77110 77111 77112
		3Zr 3ZR943C4	450 610 1000 1350		4 ohm	77117 77118 77119 77120
		3Zr 3ZR943C7	300		7 ohm	77116
		3Zr 3ZR948C4	500 650 1000 1250 1650		4 ohm	77105 77106 77107 77108 77109
		3 Zr 3ZR949C4	510 760		4 ohm	77377 77381



Conexión Connection Connexion		Nº. de cables Nr. of wires Nº. de câbles	Longitud mm. Length mm. Longeur mm.	Esquema Scheme Schema	Calentador Heater Rechauffeur	Ref. FAE P/N FAE Ref. FAE
		3 Zr 3ZR950C4	300 450 650 800 1200		4 ohm	77228 77122 77229 77230 77231
		3 Zr 3ZR963C4	450 770		4 ohm	77114 77115
		3 Zr 3ZR963C7	300		7 ohm	77113
		3 Zr 3ZR964C4	320		4 ohm	77378
		3 Zr 3ZR1026C7	300		7 ohm	77121
		3 Zr 3ZR1041C4	350		4 ohm	77191
		3 Zr 3ZR1045C4	450		4 ohm	77222
		3 Zr 3ZR1035C4	970 1120		4 ohm	77306 77307 77370
		3 Zr 3ZR1177C4	330		4 ohm	77390
		4 Ti 4TI933D	1050		5,9 ohm	77360
		4 Ti 4TI935D	430 650		5,9 ohm	77180 77185
		4 Ti 4TI936D	250 400 1400		4,9 ohm	77355 77187 77186
		4 Ti 4TI941D	340 600 820		4,9 ohm	77300 77183 77184
		4 Ti 4TI942D	970		4,7 ohm	77354
		4 Ti 4TI954D	820		5,9 ohm	77188
		4 Ti 4TI957D	400 650 1000		4,7 ohm	77352 77353 77190



Conexión Connection Connexion		Nº. de cables Nr. of wires Nº. de câbles	Longitud mm. Length mm. Longueur mm.	Esquema Scheme Schema	Calentador Heater Rechauffeur	Ref. FAE P/N FAE Ref. FAE
		4 Ti 4TI965D	550		5,9 ohm	77350
		4 Ti 4TI1036D	400 740 900		5,9 ohm	77357 77189 77356
		4 Ti 4TI1172D	1370		5,9 ohm	77359
		4 Zr 4ZR931D4	360 570 710		4 ohm	77168 77212 77169
		4 Zr 4ZR931D7	400		7 ohm	77245
		4 Zr 4ZR932D4	250		4 ohm	77129
		4 Zr 4ZR933D7	1040		7 ohm	77373
		4 Zr 4ZR934D4A	300 620 870		4 ohm	77213 77177 77214
		4 Zr 4ZR934D4B	300 450		4 ohm	77215 77178
		4 Zr 4ZR934D7	300 500		7 ohm	77254 77255
		4 Zr 4ZR935E7	400 600		7 ohm	77216 77179
		4 Zr 4ZR936E4	320 450 570 750 850 1400 1550		4 ohm	77172 77367 77173 77176 77174 77175 77337
		4 Zr 4ZR937D4	570		4 ohm	77239
		4 Zr 4ZR937E4	690 1140		4 ohm	77128 77130
		4 Zr 4ZR938D4	550 1540		4 ohm	77126 77127
		4 Zr 4ZR938E4	510		4 ohm	77387



Conexión Connection Connexion		Nº. de cables Nr. of wires Nº. de câbles	Longitud mm. Length mm. Longeur mm.	Esquema Scheme Schema	Calentador Heater Rechauffeur	Ref. FAE P/N FAE Ref. FAE
		4Zr 4ZR939E4	540 1000 1240		4 ohm	77123 77124 77125
		4Zr 4ZR941D4	350 450 650 800 1020 1400		4 ohm	77217 77218 77219 77220 77192 77364
		4Zr 4ZR941E4	450 770 1070 1200		4 ohm	77159 77160 77161 77221
		4Zr 4ZR942D4A	400 570		4 ohm	77267 77268
		4Zr 4ZR942D4B	350 500 650 870 1020		4 ohm	77272 77273 77269 77274 77275
		4Zr 4ZR942D7B	1200		4 ohm	77276
		4Zr 4ZR942E4	520 1020		4 ohm	77335 77271
		4Zr 4ZR952D4	620 700 840 1050		4 ohm	77131 77132 77133 77134
		4Zr 4ZR952E4	700 770 1000 1520		4 ohm	77135 77136 77137 77301
		4Zr 4ZR954D4	1680		4 ohm	77374
		4Zr 4ZR954D7	570 1300 1500		7 ohm	77240 77241 77242
		4 Zr 4ZR955E4	540		4 ohm	77376



Conexión Connection Connexion		Nº. de cables Nr. of wires Nº. de câbles	Longitud mm. Length mm. Longueur mm.	Esquema Scheme Schema	Calentador Heater Rechauffeur	Ref. FAE P/N FAE Ref. FAE
		4 Zr 4ZR965D4	360		4 ohm	77375
		4 Zr 4ZR1027D4	300 420 670 800		4 ohm	77246 77303 77304 77247
		4 Zr 4ZR1027D4A	350		4 ohm	77155
		4 Zr 4ZR1027D7A	1300		7 ohm	77248
		4 Zr 4ZR1028D4	630 720		4 ohm	77156 77157
		4 Zr 4ZR1029D4	400		4 ohm	77158
		4 Zr 4ZR1029D7	350		7 ohm	77195
		4 Zr 4ZR1029E4	370 870 1100		4 ohm	77309 77194 77361
		4 Zr 4ZR1030E4	450 620 1300		4 ohm	77162 77163 77369
		4 Zr 4ZR1031D4	660 690 580		4 ohm	77384 77382 77383
		4 Zr 4ZR1031E4	450 620		4 ohm	77165 77164
		4 Zr 4ZR1032D4	500 670 970 1100		4 ohm	77232 77280 77372 77371
		4 Zr 4ZR1032E4	400 620 1300 1550		4 ohm	77211 77166 77210 77167
		4 Zr 4ZR1033D4	350 500		4 ohm	77170 77260



Conexión Connection Connexion		Nº. de cables Nr. of wires Nº. de câbles	Longitud mm. Length mm. Longeur mm.	Esquema Scheme Schema	Calentador Heater Rechauffeur	Ref. FAE P/N FAE Ref. FAE
		4 Zr 4ZR1036D4	340		4 ohm	77388
		4 Zr 4ZR1042D4	550 700 1400		4 ohm	77150 77205 77149
		4 Zr 4ZR1043D4	500 650 720 1100 1700		4 ohm	77138 77200 77139 77140 77147
		4 Zr 4ZR1044D4	350 450		4 ohm	77152 77207
		4 Zr 4ZR1044D7	250		7 ohm	77151
		4 Zr 4ZR1046D4	350 570 800 1020		4 ohm	77368 77266 77237 77238
		4 Zr 4ZR1047D4	420		4 ohm	77305
		4 Zr 4ZR1048D4	350 650 750 1020		4 ohm	77243 77278 77386 77277
		4 Zr 4ZR1050D7	400 800 950		7 ohm	77256 77263 77262
		4 Zr 4ZR1052D4	300 470 820		4 ohm	77336 77326 77327
		4 Zr 4ZR1072D4	400		4 ohm	77290
		4 Zr 4ZR1072D7	750 470		7 ohm	77291 77292
		4 Zr 4ZR1074D4	570		4 ohm	77289
		4 Zr 4ZR1074D7	420		7 ohm	77288



Conexión Connection Connexion		Nº. de cables Nr. of wires Nº. de câbles	Longitud mm. Length mm. Longueur mm.	Esquema Scheme Schema	Calentador Heater Rechauffeur	Ref. FAE P/N FAE Ref. FAE
		4 Zr 4ZR1106D4	600		4 ohm	77281
		4 Zr 4ZR1107D7	300		7 ohm	77264
		4 Zr 4ZR1128D7	270		7 ohm	77296
		4 Zr 4ZR1129D4	520		4 ohm	77318
		4 Zr 4ZR1130D4	670		4 ohm	77329
		4 Zr 4ZR1142D4	310		4 ohm	77385
		4 Zr 4ZR1142E7	370 470		7 ohm	77330 77331
		4 Zr 4ZR1176D4	350 430		4 ohm	77391 77393
		4 Zr 4ZR1176E4	280 420		4 ohm	77394 77395
		4 Zr 4ZR1178D4	260		4 ohm	77389
		4 Zr 4ZR1179E4	750		4 ohm	77380
		4 Zr 4ZR1179E7	770		7 ohm	77379
		4 Zr 4ZR931D9	400		9 ohm	77244
		4 Zr 4ZR941D9	350 450 650 900 1200 1300 1800 2100		9 ohm	77223 77224 77225 77226 77362 77363 77365 77227
		4 Zr 4ZR941D9	2300		9 ohm	77366



Conexión Connection Connexion		Nº. de cables Nr. of wires Nº. de câbles	Longitud mm. Length mm. Longeur mm.	Esquema Scheme Schema	Calentador Heater Rechauffeur	Ref. FAE P/N FAE Ref. FAE
		4 Zr 4ZR942D9A	300 400 500 650		9 ohm	77252 77251 77250 77249
		4 Zr 4ZR942D9B	750 870		9 ohm	77334 77270
		4 Zr 4ZR952D9	670 1440		9 ohm	77302 77400
		4 Zr 4ZR954D9	1850		9 ohm	77412
		4 Zr 4ZR954D4	450		4 ohm	77433
		4 Zr 4ZR957D9	320 570		9 ohm	77409 77279
		4 Zr 4ZR1027D9	300 300 450 570 750 1080 1470		9 ohm	77208 77420 77209 77154 77308 77421 77422
		4 Zr 4ZR1031D9	550 710 870 1020		9 ohm	77411 77413 77235 77236
		4 Zr 4ZR1032D9	550 650 800 1040		9ohm	77410 77233 77234 77414
		4 Zr 4ZR1033D9	300 400		9 ohm	77418 77253
		4 Zr 4ZR1036D9	460 870		9 ohm	77417 77416
		4 Zr 4ZR1042D9	550 800		9 ohm	77148 77204



Conexión Connection Connexion		Nº. de cables Nr. of wires Nº. de câbles	Longitud mm. Length mm. Longueur mm.	Esquema Scheme Schema	Calentador Heater Rechauffeur	Ref. FAE P/N FAE Ref. FAE
		4 Zr 4ZR1042D4	300 800		4 ohm	77435 77436
		4 Zr 4ZR1043D9	350 500 700 750 800 920 1100 1200 1470 1750		9 ohm	77201 77202 77141 77405 77203 77142 77143 77144 77145 77146
		4 Zr 4ZR1044D9	400 500		9 ohm	77206 77153
		4 Zr 4ZR1047D9	400 800		9 ohm	77171 77431
		4 Zr 4ZR1048D9	450 510 650		9 ohm	77332 77408 77333
		4 Zr 4ZR1050D9	400 600 800		9 ohm	77256 77419 77263
		4 Zr 4ZR1106D4	400 1250		4 ohm	77432 77434
		4 Zr 4ZR1106D9	400 570 1300		9 ohm	77282 77432 77283 77284
		4 Zr 4ZR1130D9	670		9 ohm	77328
		4 Zr 4ZR1142D9	730		9 ohm	77423
		4 Zr 4ZR1142AD9	300		9 ohm	77424
		4 Zr 4ZR1176D9	400		9 ohm	77392
		4 Zr 4ZR1178D9	300		9 ohm	77426
		4 Zr 4ZR1194D9	1440		9 ohm	77401



Conexión Connection Connexion		Nº. de cables Nr. of wires Nº. de câbles	Longitud mm. Length mm. Longeur mm.	Esquema Scheme Schema	Calentador Heater Rechauffeur	Ref. FAE P/N FAE Ref. FAE
		4 Zr 4ZR1195D9	900		9 ohm	77415
		4 Zr 4ZR1196D9	540 620		9 ohm	77425 77396
		4 Zr 4ZR1197D9	310		9 ohm	77427
		4 Zr 4ZR1198D9	510		9 ohm	77428
		4 Zr 4ZR1199D9	420		9 ohm	77429
		4 Zr 4ZR1202D4	500 520 650		4 ohm	77437 77439 77440
		4 Zr 4ZR1202D9	100 470		9 ohm	77404 77402
		4 Zr 4ZR1203D9	850		9 ohm	77403
		4 Zr 4ZR1204D9	810 1440		9 ohm	77406 77407
		4 Zr 4ZR1205D4	520		4 ohm	77438
		4 Zr 4ZR1206D9	750		9 ohm	77441

Packaging



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