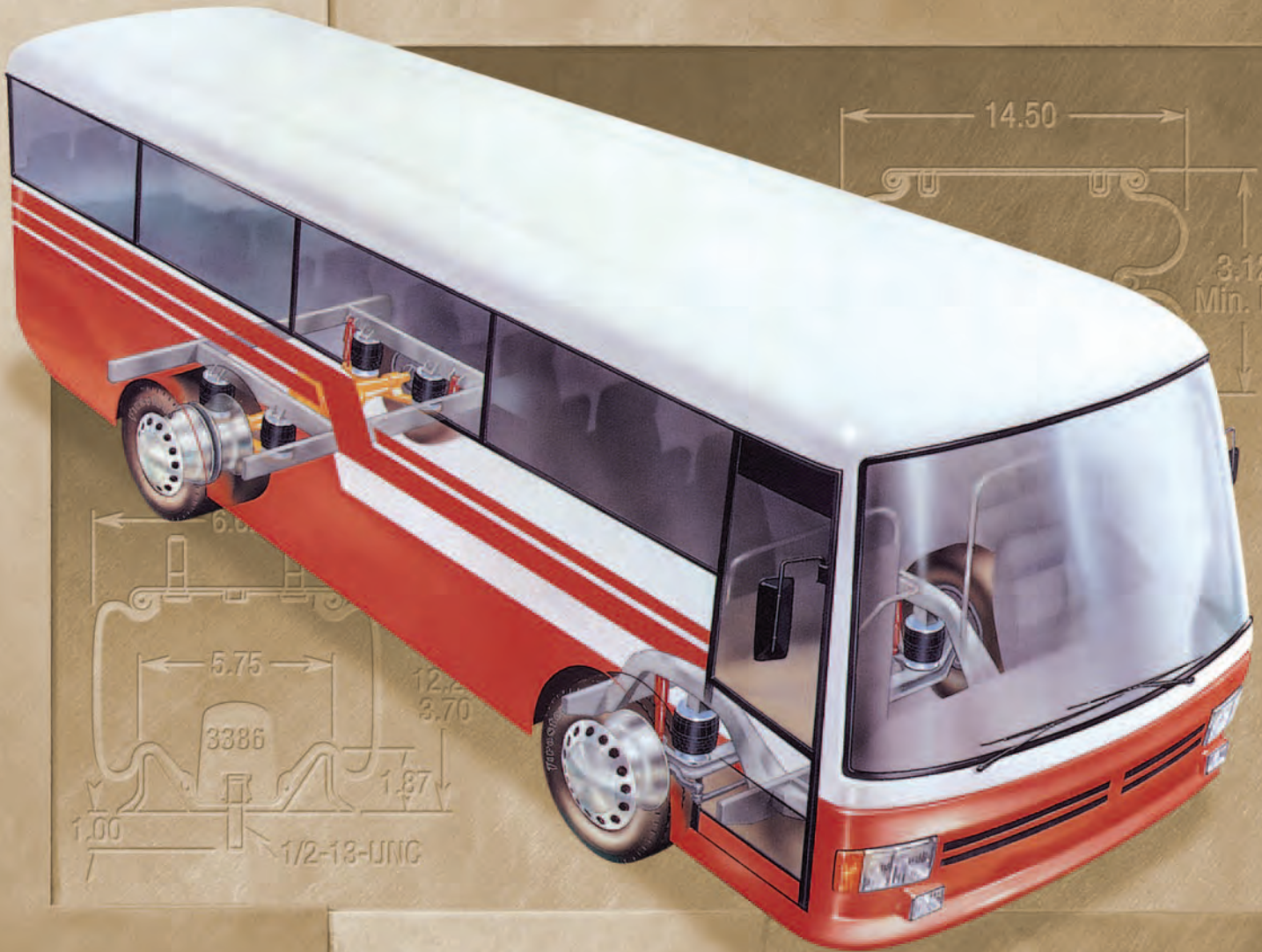


AIRIDE[®]

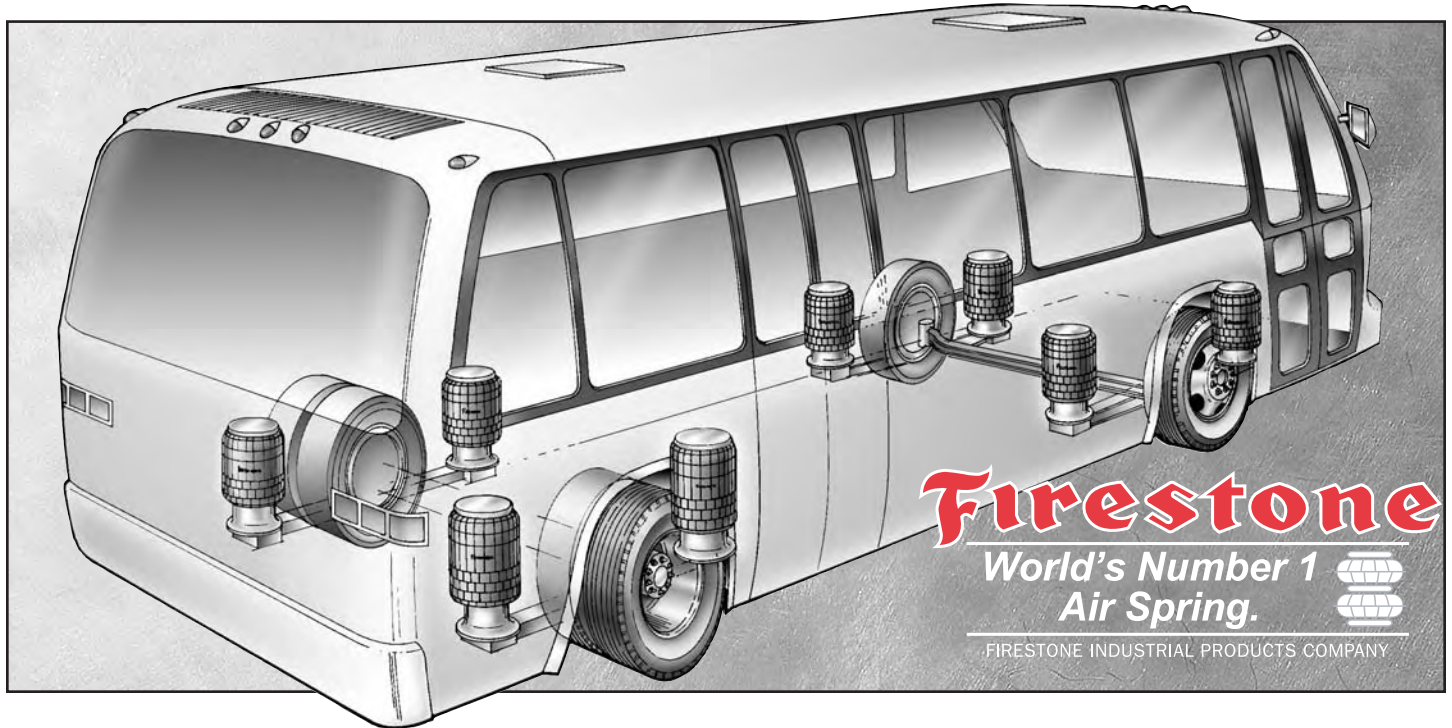
SPRINGS

Bus Air Spring Replacement Guide



Firestone
World's Number 1
Air Spring. 
FIRESTONE INDUSTRIAL PRODUCTS COMPANY

Airide™ springs



Look to Firestone for the most complete line of air springs in the industry.

Although air springs are produced in single, double and triple convoluted and reversible sleeve styles, only those manufactured by Firestone Industrial Products Company bear the trademark "Airide™".

Airide springs were pioneered and perfected by Firestone, and only Firestone offers a complete line of Airide springs, with replacement springs available for virtually every vehicular air suspension system. Today, Airide springs are used by nearly all manufacturers who offer air suspension on their vehicles.

While it may appear simple, an air spring is actually a highly sophisticated and complex product. Even slight changes—in design, methods of construction, or materials used—can make vast and significant differences in performance.

It makes good sense to specify Airide springs by Firestone. That trade name on an air spring guarantees you the benefit of the very latest technical developments and improvements.

It is your assurance of a product not only engineered and perfected to perform, but which has a long history of superior performance in actual use.



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The Mechanics of Airide™ springs

1. Stud

A permanent part of the bead plate assembly used to attach the airspring to the suspension.

2. Combo Stud

Combination mounting stud and air fitting.

3. Blind Nut

A permanent part of the bead plate assembly providing an alternate mounting system to the stud.

4. Air Fitting Hole

A tapped hole usually 1/4" N.P.T. providing air entrance for the part.

5. Bead Plate

Permanently crimped onto the bellows at the factory allowing complete part leak testing prior to shipment.

6. Bellows

The heart of an Airide spring. Includes at least four plies, or layers, of material—an inner liner, two plies of cord-reinforced fabric, and an outer layer.

7. Bumper (Optional)

A solid molded rubber, fail-safe device used on many suspension applications. Prevents excessive damage to vehicle and suspension in the case of sudden air pressure loss.

8. Piston

The lower section of the 1T and 1X styles of airspring made from aluminum, steel or fiber reinforced plastic. Provides the lower mounting arrangement for the airspring, in the form of tapped holes or studs.

9. Piston Bolt

Attaches the piston to the bellows assembly. The piston bolt is extended, in some cases, to serve as a means of attaching the spring to the suspension.

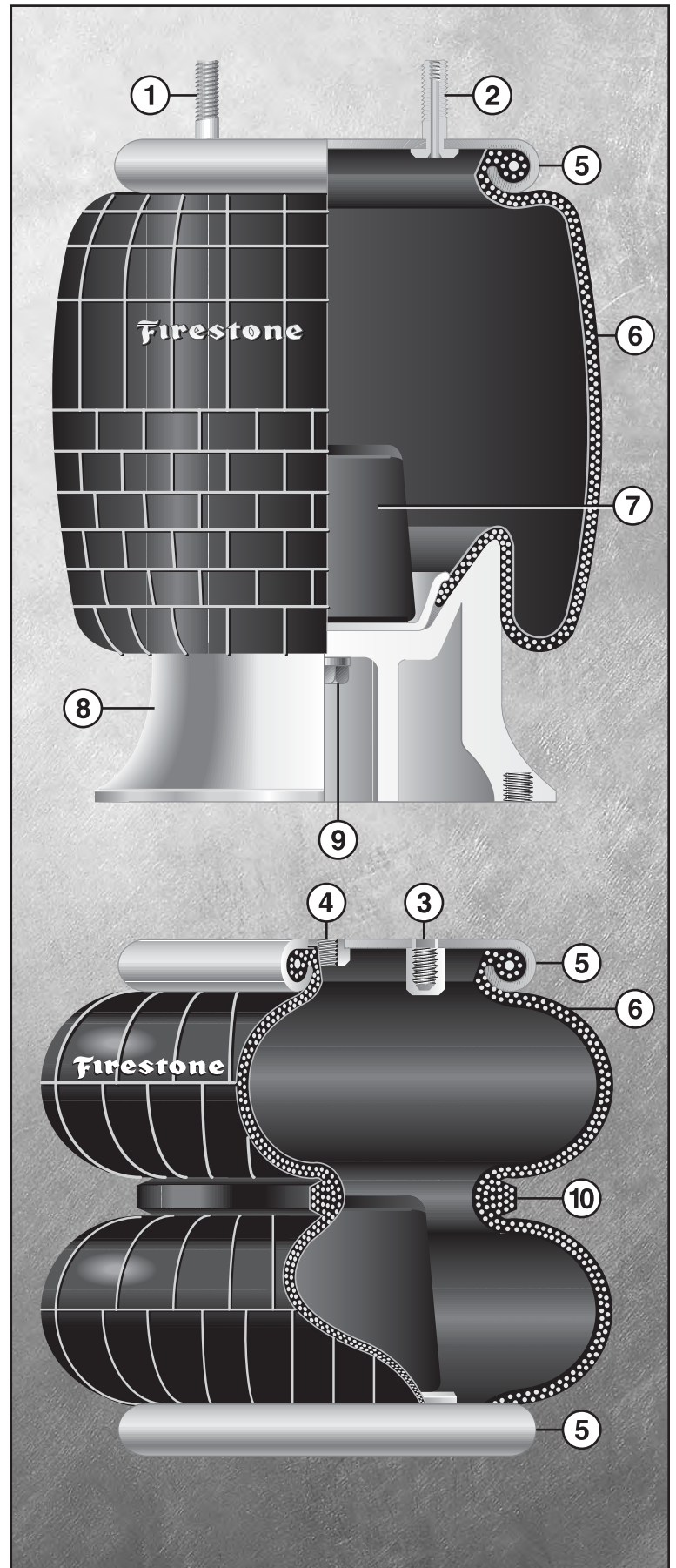
10. Girdle Hoop

A ring between the convolutions of the convoluted-type air spring.

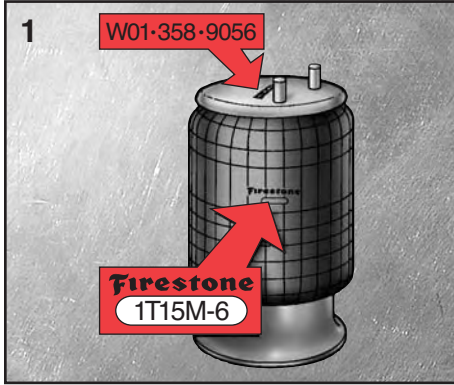
Composite Piston

Firestone offers a composite fiberglass reinforced plastic piston into its reversible sleeve Airide™ springs for bus suspensions.

These pistons are manufactured from a high percentage, glass filled thermosetting resin using state-of-the-art SMC technology. Compared to conventional steel or aluminum pistons, they are lighter, more impact-resistant, and impervious to atmospheric corrosion, water, salt, and ice-melting chemicals, plus their smooth non-porous surface finish virtually eliminates the buildup of harmful dirt and grit. This allows the rubber bellows of the air spring to last much longer due to significantly reduced wear as the bellows flexes up and down the smooth piston. At temperatures as low as -40°F, the new pistons are 100% functional.

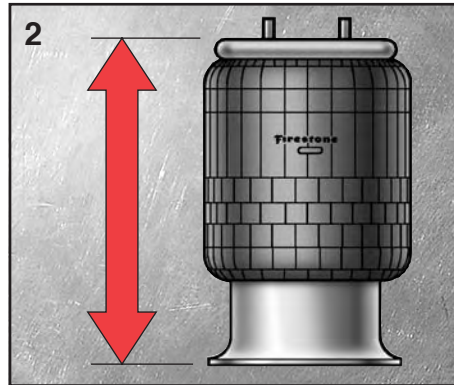


Identifying Airide™ springs



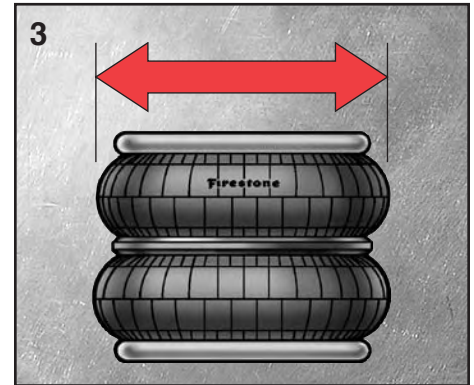
1. Read the bead plate number.

The first step to identifying an Airide spring, either convoluted or 1T style, for replacement is to read the manufacturer or Firestone number on the sticker on the bead plate. If the number is illegible, read the part number, normally molded on the bellows directly under the Firestone name. The number 1T15 or 22, etc. will tell you exactly which bellows you need, and you can skip steps 2 and 3.



2. Measure the height of 1T springs.

If, for some reason, you can't read the bellows number, you can still identify the bellows by measuring it. First, determine whether it is a single or double convoluted style or a 1T style, by comparing it with the pictures in this guide. If it is a 1T style bellows, measure it from the bottom of the piston to the top of the bead plate, while the part is uninflated and unrestricted, as shown on page 10. Then, just find that same measurement in the "Cross Section View" column in the "Cross Section View" column for 1T style springs in this guide. When you've done that, skip to step 4.



3. Measure the diameter of convoluted springs.

If the spring you are replacing is a convoluted style, first determine whether it is a single or double convoluted style by comparing it to the pictures in this guide. Then, measure the diameter of the bellows across its widest area as shown on page 4, and find that same measurement in the "Cross Section View" column in the proper section of the guide for either single or double convoluted springs. When you've done that, go to step 4.

Reading the Parts Tables

Convoluted Style Springs

1	2	3	4	5	6
BELLOWS # ASSEMBLY ORDER NO.	CROSS SECTION VIEW	BEAD PLATE—TOP VIEW	BEAD PLATE—BOTTOM VIEW	ASSEMBLY WEIGHTS	REPLACES
20C 358-6910				6.6	DIESEL NACIONAL # A-8127-19

Hardware Key

● Bolt or Stud 1/2-13 ⊕ Threaded Hole 3/8-16 Blind Nut on Bead Plates 1/2-13 in Pistons ⊗ Air Inlet 1/4 N.P.T.
 ⊗ Combination Stud/Air Inlet ⊕ Stud Outside Thread is 3/4-16 ⊖ Studs Inside Thread (Air Inlet) is 1/4 N.P.T. Exceptions will be noted on Part View as ⊗

1. Bellows# and Assembly Order Number (AON)

This number identifies the specific bellows number and the assembly order number for ordering purposes.

2. Airide Cross Section View

A cross sectional view of the Airide spring showing dimensional information in inches on uninflated diameter and minimum height.

3. Bead Plate—Top View

A top view of the upper bead plate with dimensional information and detail on mounting attachments (see hardware key).

4. Bead Plate—Bottom View

A bottom view of the lower bead plate with dimensional information and detail on mounting attachments (see hardware key).

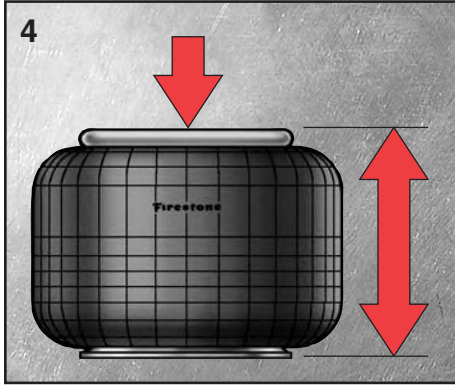
5. Assembly Weight

Gives total weight of the assembly in pounds.

6. Replaces

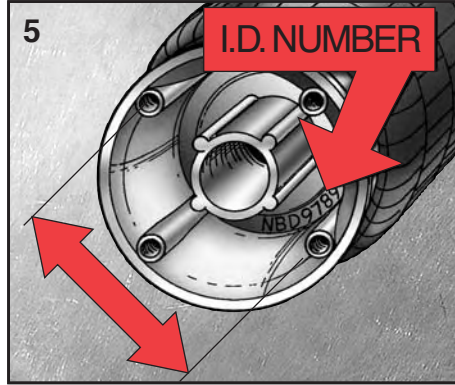
Vehicle and suspension manufacturer's part numbers for the particular Airide spring.

Identifying Airide™ springs



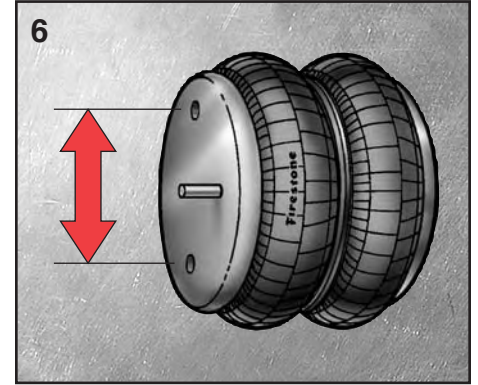
4. Determine whether your spring has a rubber bumper.

Many Airide springs include a rubber bumper inside the spring. To determine whether yours includes one or not, compress the spring to its minimum height and measure the height from the bottom of the bottom plate or piston to the top of the upper bead plate. With this measurement you can then contact Firestone or your distributor to determine if a rubber bumper exists. Then go on to step 5, if you have a 1T style spring, or step 6, if you have a convoluted spring.



5. Identify the piston and bead plate of 1T style springs.

The same bellows is used with many different types of bead plates and pistons, so be sure to check this closely. First, to identify a piston, look for the identification number molded into underside of the piston. Compare your bead plate and piston with those diagrammed in the “Bead Plate” and “Cross Section View” columns for 1T style springs in this guide until you find the unit with the identical hardware and measurements. (All newer pistons have four threaded holes in the outer diameter, as well as the center hole. If the diameter and height of the piston matches those listed, the piston will work, regardless of mounting methods.)



6. Identify the bead plates of convoluted springs.

The same bellows is used with many different types of bead plates. Compare your bead plate with those diagrammed in this guide under the “Bead Plate” column for single or double convoluted styles. Find the unit with the identical hardware and measurements.

To order When you find the style and part number that agrees with all the determinations you’ve made, you have the assembly that will replace your spring without modification to the suspension. Use this number to order the spring. (If you notice a ten-digit number stamped on the bead plate of your spring, use it for ordering). This is Firestone’s assembly order number.

An authorized Firestone Distributor should be contacted when ordering.

Reading the Parts Tables 1T-Reversible Sleeve Style Springs

1	2	3	4	5	6
BELLOWS # ASSEMBLY ORDER NO.	CROSS SECTION VIEW	BEAD PLATE-TOP VIEW	BEAD PLATE-BOTTOM VIEW	ASSEMBLY WEIGHTS	REPLACES
1T15M-2 358-9100 SERVICE ASSEMBLY # 358-0910				14.8 8.8	A.M. GENERAL 5973924 A.M. GENERAL 5973876 FLYER 5973876

1. Bellows# and Assembly Order Number (AON)

This number identifies the specific bellows number and the assembly order number for ordering purposes.

2. Airide Cross Section View

A cross sectional view of the Airide spring showing dimensional information in inches on uninflated diameter and minimum height.

3. Bead Plate-Top View

A top view of the upper bead plate with dimensional information and detail on mounting attachments (see hardware key).

4. Bead Plate-Bottom View/Piston-Bottom View

A bottom view of the lower bead plate or of the piston with dimensional information and detail on mounting attachments (see hardware key).

5. Assembly Weight

Gives total weight of the assembly in pounds.

6. Replaces

Vehicle and suspension manufacturer’s part numbers for the particular Airide spring.

7. Service Assembly

On Firestone Airide springs of the 1T style, the rubber bellows bead plate portion of the spring is a separate hermetically sealed unit, available for replacement use without the piston. Called a “service assembly,” it includes a bead plate, bellows, internal bumper (if any), and all attaching hardware. Please note the service assembly has its own separate ordering number. For example, a W01-358-9405 uses Service Assembly Order Number W01-358-8252 as specified on page 26.

Airide™ springs

Convolved Style



Firestone convolved Airide springs are available in two styles, single or double convolved, as shown above.

To identify the exact style and part number to replace your current air spring, you need to identify the type of bellows, bead plates, and attaching hardware used, as well as determining whether the spring has an internal bumper.

First, look for the manufacturer's part number and Firestone order number stamped in ink on the bead plate. If illegible, read the part number molded on the bellows, normally under the Firestone name. If the number (20, 22, etc.) is present, simply refer to the proper section of this guide.

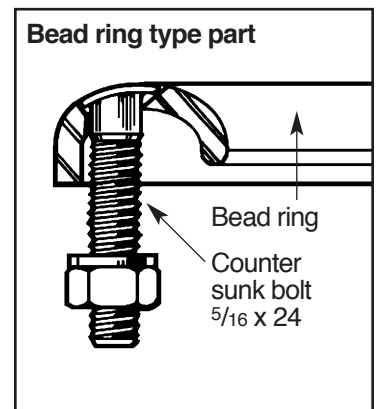
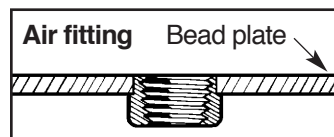
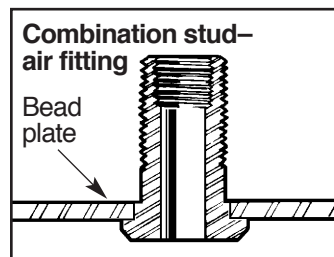
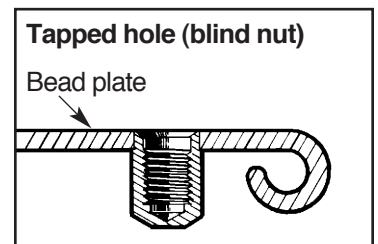
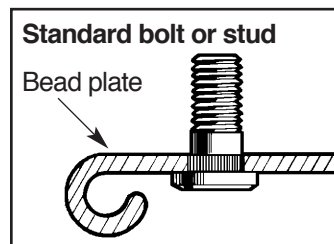
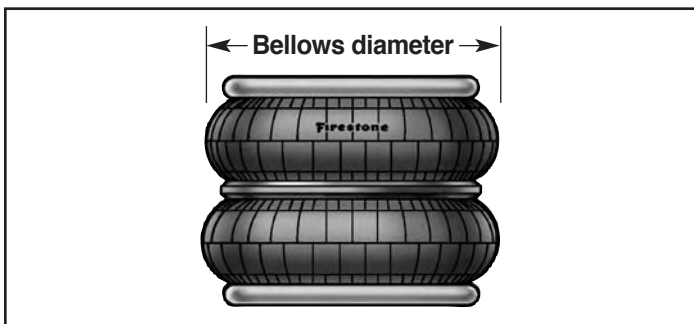
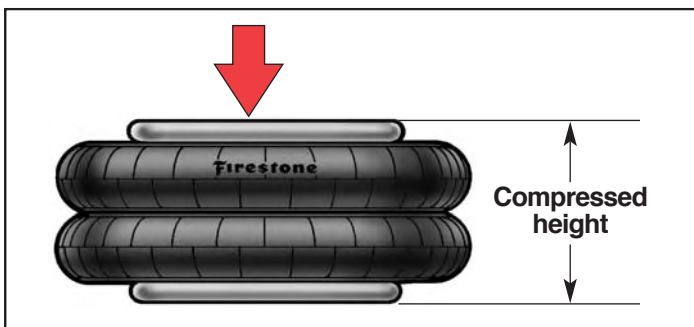
If for any reason the number is unreadable, you can determine the bellows type with a simple measurement. Remove the air entrance and allow the bellows to assume its normal shape. Then measure the outer diameter of the bellows as shown below. Compare this diameter with those

listed in this guide under either single or double convolved springs (according to which type you have).

To determine the presence of an internal bumper in the spring, remove the air and collapse the spring to its minimum height. Then measure this height as shown below. With this measurement you can then contact Firestone or your distributor to determine if a rubber bumper exists.

Finally, to complete the parts identification, compare the metal bead plates and attaching hardware with the assemblies detailed in that same section of the guide.

For your convenience, typical types of attaching hardware are illustrated below. Studs will be either 1/2-13 or 1/2-20. Air fittings will be 1/4 or 3/8 N.P.T. Combination air fittings/studs will be 3/4-16, with a 1/4 N.P.T. air entrance. Blind nuts or tapped holes will be 3/8-16. The special bolts used on the bead ring type parts will be 3/8-16 or 3/8-24.



Single Convoluted

BELLOWS # ASSEMBLY ORDER NO.	CROSS SECTION VIEW	BEAD PLATE-TOP VIEW	BEAD PLATE-BOTTOM VIEW	ASSEMBLY WEIGHTS	REPLACES
16 358-0510 SAME AS 367-9955		3459 	3459 	2.6	NEOPLAN A/C MOUNT FLXIBLE 6-336-18
16 358-7001		3030 	3025 	2.6	GILLIG
131 367-0131		3459 	3459 	2.8	FLXIBLE 97-5977-1

Double Convoluted

20 358-0138 SAME AS 653-7117				2.6	M.C.I. # 12C-1-35 RUBBER ONLY
20C 358-6900		3096 	3090 	7.3	TRAILERS DE MONTERREY # 73312 DIESEL NACIONAL # A1Z-8127-19

Hardware Key

Bolt or Stud 1/2-13 Threaded Hole 3/8-16 Blind Nut on Bead Plates 1/2-13 in Pistons Air Inlet 1/4 N.P.T.
 ⊗ Combination Stud/Air Inlet Stud Outside Thread is 3/4-16 Studs Inside Thread (Air Inlet) is 1/4 N.P.T. Exceptions will be noted on Part View as

BELLOWS # ASSEMBLY ORDER NO.	CROSS SECTION VIEW	BEAD PLATE-TOP VIEW	BEAD PLATE-BOTTOM VIEW	ASSEMBLY WEIGHTS	REPLACES
20C 358-6910				7.2	DIESEL NACIONAL # AX-8127-19
20C 358-6911				8.7	MEXICANA DE AUTOBUSES # 2-27-C-04001
20C 358-6919 SAME AS 653-7119				6.0	M.C.I. # 12C-1-36
20C 358-7067				14.6	G.M.C. # 653073
20C 358-7068				14.6	G.M.C. # 653074
20C 358-7069				14.6	G.M.C. # 653075

Hardware Key

Bolt or Stud 1/2-13 Threaded Hole 3/8-16 Blind Nut on Bead Plates 1/2-13 in Pistons Air Inlet 1/4 N.P.T.
Combination Stud/Air Inlet Stud Outside Thread is 3/4-16 Studs Inside Thread (Air Inlet) is 1/4 N.P.T. Exceptions will be noted on Part View as

Double Convoluted

BELLOWS # ASSEMBLY ORDER NO.	CROSS SECTION VIEW	BEAD PLATE-TOP VIEW	BEAD PLATE-BOTTOM VIEW	ASSEMBLY WEIGHTS	REPLACES
20C 358-7901 SAME AS 653-7117				3.0	G.M.C. # RUBBER ONLY 686145/2292367 ALSO M.C.I. # 12C-1-35
20C 367-6905				7.9	FLXIBLE # 6-336-12 NOTE: SPECIFIC SPACER INCLUDED WITH ASSEMBLY
20C 653-7119 SAME AS 358-6919				6.8	M.C.I. # 12C-1-36
20J W35-7065				5.2	NEW FLYER # 5951714 ALSO A.M.G. FLXIBLE # 6-336-178
22C 358-0136				4.1	G.M.C. # 2292372 FLXIBLE # 6-336-172
22C 358-0226 SAME AS 653-7122				4.6	RUBBER ONLY G.M.C. # 686146 REP 2292372 M.C.I. # 12C-3-51

Hardware Key

Bolt or Stud 1/2-13 Threaded Hole 3/8-16 Blind Nut on Bead Plates 1/2-13 in Pistons Air Inlet 1/4 N.P.T.
 Combination Stud/Air Inlet Stud Outside Thread is 3/4-16 Studs Inside Thread (Air Inlet) is 1/4 N.P.T. Exceptions will be noted on Part View as

BELLOWS # ASSEMBLY ORDER NO.	CROSS SECTION VIEW	BEAD PLATE-TOP VIEW	BEAD PLATE-BOTTOM VIEW	ASSEMBLY WEIGHTS	REPLACES
22C 358-7151				19.4	FLXIBLE # 6-336-193 G.M.C. # 691459 653077
22C 358-7152				19.4	FLXIBLE # 6-336-194 G.M.C. # 691459 653076
22C 358-7185				14.3	TRAILERS DE MONTERREY # 73312
22C 358-7400				14.3	MEXICANA DE AUTOBUSES # 2-27-0-02002
22C 358-7430 SAME AS 653-7124				10.5	AUTO PENA M.C.I. # 12C-3-52
22C 358-7433				12.5	FLXIBLE # 6-336-5

Hardware Key

Bolt or Stud 1/2-13 Threaded Hole 3/8-16 Blind Nut on Bead Plates 1/2-13 in Pistons Air Inlet 1/4 N.P.T.
Combination Stud/Air Inlet Stud Outside Thread is 3/4-16 Studs Inside Thread (Air Inlet) is 1/4 N.P.T. Exceptions will be noted on Part View as

Double Convoluted

BELLOWS # ASSEMBLY ORDER NO.	CROSS SECTION VIEW	BEAD PLATE-TOP VIEW	BEAD PLATE-BOTTOM VIEW	ASSEMBLY WEIGHTS	REPLACES
22C 367-9100 SUPERCEDED BY 358-7433		3271 	3228 	14.2	FLXIBLE # 6-336-13
22C 367-9954		9936 	3169 	19.5	FLXIBLE # 6-336-16
22C 653-7122				5.6	M.C.I. # 12C-3-51
22C 653-7124				9.9	M.C.I. # 12C-3-52
22C 653-7125				8.9	M.C.I. # 12C-3-52
22J W35-7075			3212 	8.6	AMG # 5951999 NEW FLYER 5951999 FLXIBLE # 6-336-176

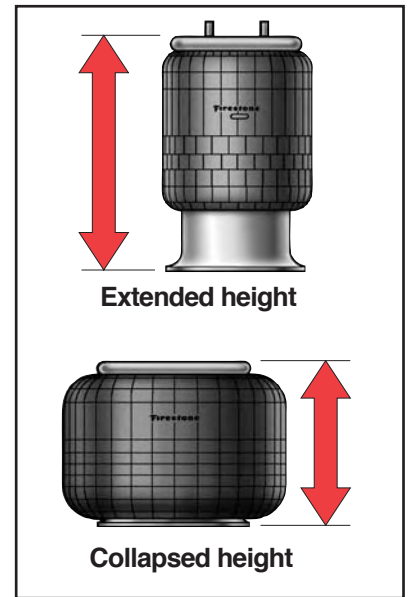
Hardware Key

Bolt or Stud 1/2-13 Threaded Hole 3/8-16 Blind Nut on Bead Plates 1/2-13 in Pistons Air Inlet 1/4 N.P.T.
 Combination Stud/Air Inlet Stud Outside Thread is 3/4-16 Studs Inside Thread (Air Inlet) is 1/4 N.P.T. Exceptions will be noted on Part View as



Airide[™] springs

1T-Reversible Sleeve Style



The Firestone 1T or Reversible Sleeve type spring is the most popular style used on bus suspensions. Most of your replacement work will probably be with this style.

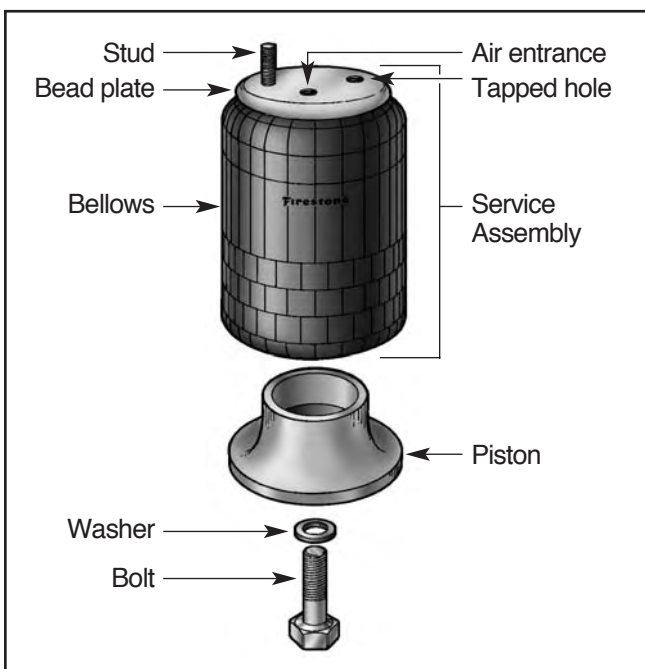
Identification of the proper replacement assembly requires identifying the bellows type and the bead plate and piston type used, as well as whether the spring includes an internal rubber bumper.

As with other styles, the quickest way to identify the air-spring is to read the manufacturer or Firestone order number on the bead plate. If the number is illegible, read the part number molded on the bellows, normally directly under the Firestone name. This will lead you directly to the proper section of this guide, narrowing your choice of assemblies to just a few.

Should the bellows number be unreadable, the type can still be determined by measuring the extended height of the bellows. To do this, remove the air entrance and then measure the height as shown. Compare this measurement with the maximum height shown in the "Cross Section View" in the parts tables, until you find the bellows style that agrees with it.

To determine whether the spring has an internal bumper, remove the air and compress the spring to its minimum collapsed height. Measure this, as shown, and contact your distributor or Firestone to determine if a rubber bumper exists.

Finally, to complete identification of the assembly, carefully compare the bead plate and piston with those listed in the tables until you find a match. Detailed explanations of the types of bolts, studs, and air fittings used on the bead plate can be found on page 4 of this guide.



Service Assembly

The 1T style spring is available as either a complete assembly, including the piston, or as a service assembly, which includes the bellows and bead plate only. Before you order a service assembly only, we advise close inspection of the piston to be reused. A slight imperfection or build-up of corrosion or dirt on the piston may cause a new bellows to wear out prematurely.

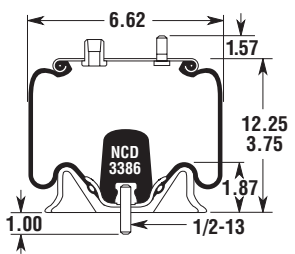
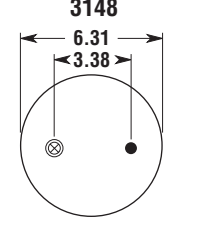
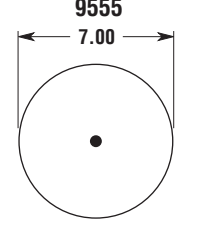
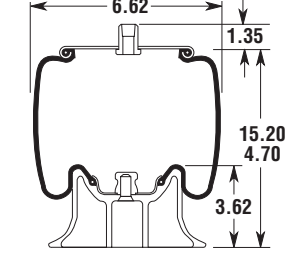
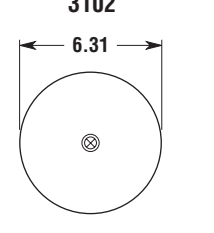
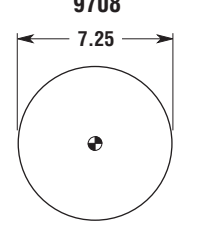
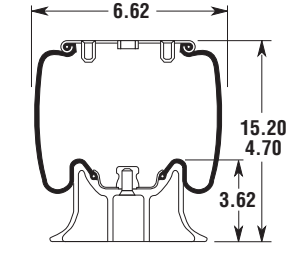
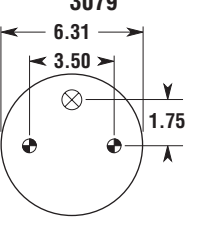
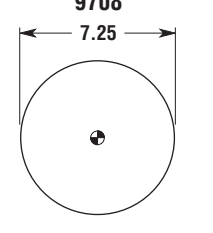
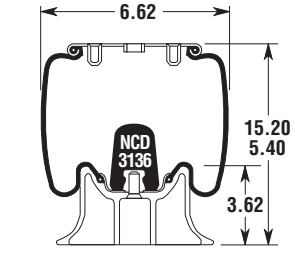
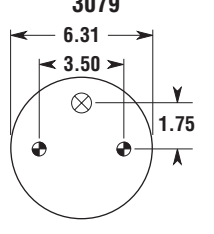
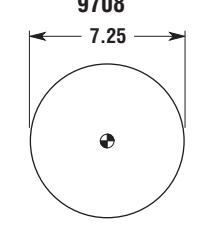
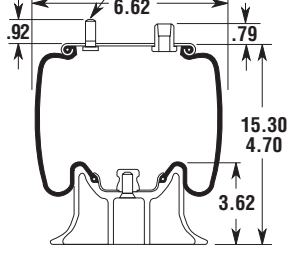
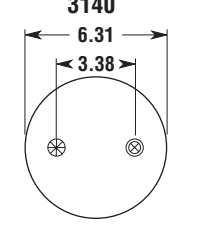
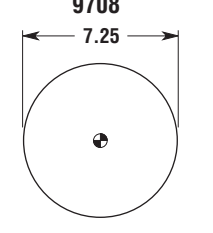
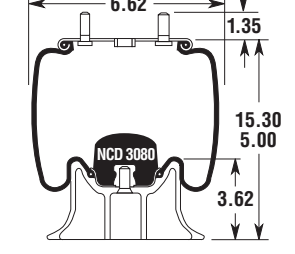
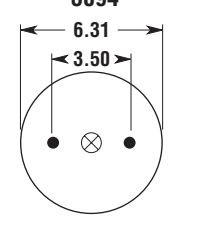
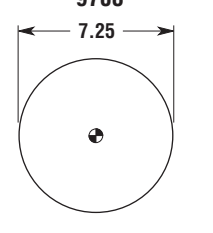
Special Note

Further information on pistons used with 1T style springs can be found in the Cross Reference section, pages 34 and 35.

In addition to the center attaching hole, all newer pistons have four threaded holes in the outer diameter to make the piston more universal. All of the outer holes may not be used in some cases. Check the drawing of the assembly you are replacing to be sure.

Some pistons are also supplied with threaded studs inserted in the proper mounting holes on the piston. Be certain to check the listings for this feature, too.

1T-Reversible Sleeve

BELLOWS # ASSEMBLY ORDER NO.	CROSS SECTION VIEW	BEAD PLATE-TOP VIEW	PISTON-BOTTOM VIEW	ASSEMBLY WEIGHTS	REPLACES
1T14CB-0 358-8990				7.4	CHANCE # 270-03376 FLXIBLE # 6-336-195
1T14C-1 358-5300				7.2	FLXIBLE 6-336-4
1T14C-1 358-5310				7.2	CROWN COACH FLXIBLE 6-336-2
1T14C-1 358-5311				7.8	FLXIBLE 6-379-1
1T14C-1 358-5315				7.3	FLXIBLE 6-379-6
1T14C-1 358-5316				7.7	NEW FLYER 6160104

Hardware Key

Bolt or Stud 1/2-13 Threaded Hole 3/8-16 Blind Nut on Bead Plates 1/2-13 in Pistons Air Inlet 1/4 N.P.T.
 ⊗ Combination Stud/Air Inlet Stud Outside Thread is 3/4-16 Studs Inside Thread (Air Inlet) is 1/4 N.P.T. Exceptions will be noted on Part View as

BELLOWS # ASSEMBLY ORDER NO.	CROSS SECTION VIEW	BEAD PLATE-TOP VIEW	PISTON-BOTTOM VIEW	ASSEMBLY WEIGHTS	REPLACES
1T14CB-1 358-8997 SERVICE ASSEMBLY 358-0700		3148 	9555 	7.5	BLUEBIRD 300-961425 BLUEBIRD 1263581 EL DORADO # 71040301 90557034 FLXIBLE 6-336-196
1T14CB-1 358-5298		3148 	9508 	6.1	GILLIG LOW-FLOOR FRONT 08-372-09-000N
1T14C-3 358-5406		3140 	9708 	7.7	FLXIBLE 6-336-11 G.M.C. 716111
1T14C-3 358-5435 COMPOSITE PISTON		3140 	9508 	7.7	NEW FLYER 5993113
1T14C-3 358-5409		3140 	9708 	6.9	A.M. GENERAL 5973923 5973877 NEW FLYER 5973877 NEW FLYER 5993113
1T14C-6 358-5725 EPOXY COATED PISTON SUPERCEDED BY 358-5730		3140 	9798 	6.9	G.M.C.

Hardware Key

Bolt or Stud 1/2-13 Threaded Hole 3/8-16 Blind Nut on Bead Plates 1/2-13 in Pistons Air Inlet 1/4 N.P.T.
 Combination Stud/Air Inlet Stud Outside Thread is 3/4-16 Studs Inside Thread (Air Inlet) is 1/4 N.P.T. Exceptions will be noted on Part View as

1T-Reversible Sleeve

BELLOWS # ASSEMBLY ORDER NO.	CROSS SECTION VIEW	BEAD PLATE-TOP VIEW	PISTON-BOTTOM VIEW	ASSEMBLY WEIGHTS	REPLACES
1T14C-6 358-5730 COMPOSITE PISTON				6.9	G.M.C. 10530086 NOVABUS G5001706
1T14C-7 358-5710 SUPERCEDED BY 358-5730				8.0	FLXIBLE 6-304-156 FLXIBLE 6-336-175 G.M.C. 661755 G.M.C. 8870484 G.M.C. 661758
1T14C-7 358-5721				8.5	ORION II 0201175204
1T15AA-3 358-9017 COMPOSITE PISTON				14.5	ALL G.M.C. REARS 684192 684193 8870485 FLXIBLE 97-240-153 NOVABUS N15558 PREVOST 63-0044
1T15AA-3 358-9588 COMPOSITE PISTON				14.5	NOVABUS REAR G1076863
1T15L-2 358-9440				13.5	MADSEN

Hardware Key

Bolt or Stud 1/2-13 Threaded Hole 3/8-16 Blind Nut on Bead Plates 1/2-13 in Pistons Air Inlet 1/4 N.P.T.
Combination Stud/Air Inlet Stud Outside Thread is 3/4-16 Studs Inside Thread (Air Inlet) is 1/4 N.P.T. Exceptions will be noted on Part View as

BELLOWS # ASSEMBLY ORDER NO.	CROSS SECTION VIEW	BEAD PLATE-TOP VIEW	PISTON-BOTTOM VIEW	ASSEMBLY WEIGHTS	REPLACES
1T15L-2 358-9448				14.0	EL DORADO 7089E000
1T15L-2 358-9457				14.0	BLUEBIRD 1286814
1T15L-2 653-9446				12.3	M.C.I./T.M.C. 12J-3-53 12K-3-11
1T15L-3 358-9384				14.3	A.V.S SPECIALTY
1T15L-3X 358-9380				19.5	PREVOST 63-0067
1T15L-4 358-8920				22.0	AMERICAN IKARUS 416-07-3804-900 N.A.B.I. NOTE: SPECIFIC ADAPTOR PLATE INCLUDED IN ASSEMBLY.

Hardware Key

Bolt or Stud 1/2-13 Threaded Hole 3/8-16 Blind Nut on Bead Plates 1/2-13 in Pistons Air Inlet 1/4 N.P.T.
Combination Stud/Air Inlet Stud Outside Thread is 3/4-16 Studs Inside Thread (Air Inlet) is 1/4 N.P.T. Exceptions will be noted on Part View as

1T-Reversible Sleeve

BELLOWS # ASSEMBLY ORDER NO.	CROSS SECTION VIEW	BEAD PLATE-TOP VIEW	PISTON-BOTTOM VIEW	ASSEMBLY WEIGHTS	REPLACES
1T15L-4 358-8916				14.5	58541-2B MERCEDES (HENDRICKSON SUSPENSION)
1T15L-4 358-8922				14.4	CHAMPION COACH
1T15L-4 358-8943				14.4	ORION VI FRONT 060101502
1T15L-4 358-8941				14.5	59031-2B BLUEBIRD (HENDRICKSON SUSPENSION)
1T15L-4 358-9432				14.2	CROWN COACH
1T15L-4 358-9441				14.4	FLXIBLE 6-336-200 GILLIG 53-14006

Hardware Key

Bolt or Stud 1/2-13 Threaded Hole 3/8-16 Blind Nut on Bead Plates 1/2-13 in Pistons Air Inlet 1/4 N.P.T.
 Combination Stud/Air Inlet Stud Outside Thread is 3/4-16 Studs Inside Thread (Air Inlet) is 1/4 N.P.T. Exceptions will be noted on Part View as

BELLOWS # ASSEMBLY ORDER NO.	CROSS SECTION VIEW	BEAD PLATE-TOP VIEW	PISTON-BOTTOM VIEW	ASSEMBLY WEIGHTS	REPLACES
1T15L-4 358-9469 COMPOSITE PISTON				14.6	GILLIG PHANTOM, FRONT 53-14006-002
1T15L-4 358-8942				15.5	BLUE BIRD CORP. HENDRICKSON SUSPENSION 58983-2B
1T15L-4X 358-9437 SERVICE ASSEMBLY # 358-0414				17.4	FLXIBLE 6-336-201 NEOPLAN CJ1003009
1T15L-4X W35-8953				14.7	NEW FLYER 200555
1T15L-4X W35-9385				14.7	NEW FLYER 055089
1T15L-4X W35-9465				14.7	NEW FLYER 009865

Hardware Key

Bolt or Stud 1/2-13 Threaded Hole 3/8-16 Blind Nut on Bead Plates 1/2-13 in Pistons Air Inlet 1/4 N.P.T.
Combination Stud/Air Inlet Stud Outside Thread is 3/4-16 Studs Inside Thread (Air Inlet) is 1/4 N.P.T. Exceptions will be noted on Part View as

1T-Reversible Sleeve

BELLOWS # ASSEMBLY ORDER NO.	CROSS SECTION VIEW	BEAD PLATE-TOP VIEW	PISTON-BOTTOM VIEW	ASSEMBLY WEIGHTS	REPLACES
1T15L-4X W35-9468				16.0	NEW FLYER 102221
1T15L-6 M58-0685 SAME AS 1T15L-6 M58-0687				6.7	FLXIBLE # 97-9999-335 M.A.N. 81-43601-6002 81-43601-6023
1T15LN-4 682-8940				17.0	ORION II 020117526-4
1T15LN-6 682-8945				17.6	ORION II 020217501-4
1T15LN-7 682-8946				17.7	ORION II 020217503
1T15M-0 358-8002				13.5	NEW FLYER

Hardware Key

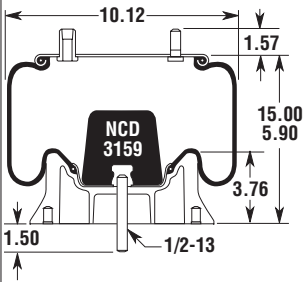
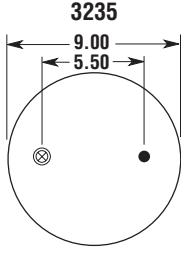
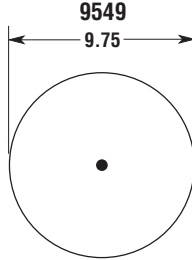
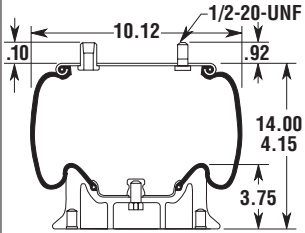
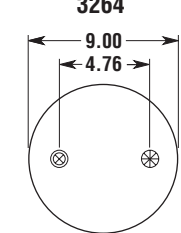
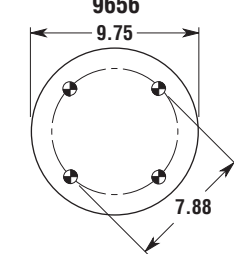
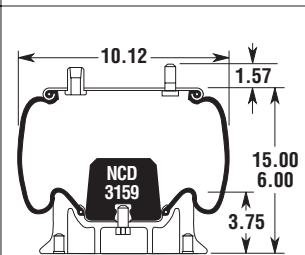
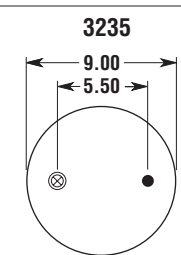
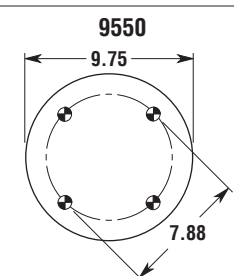
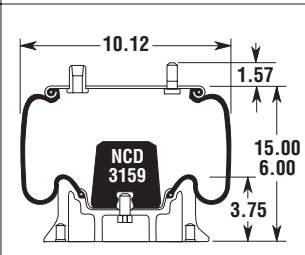
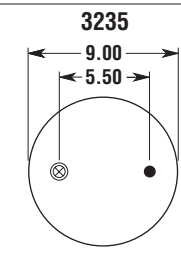
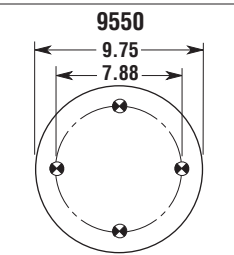
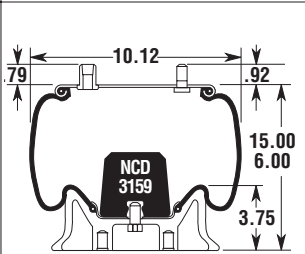
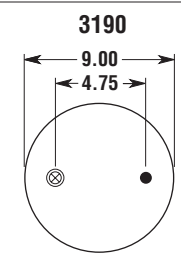
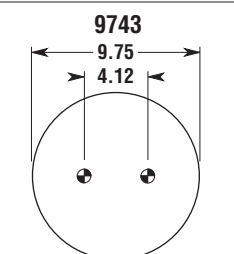
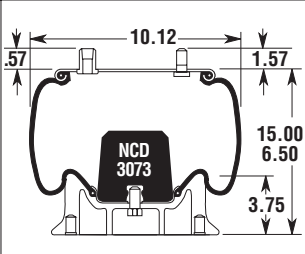
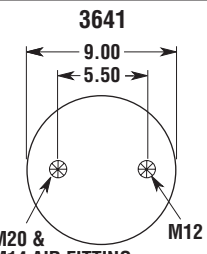
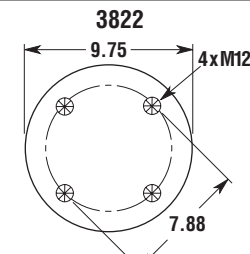
Bolt or Stud 1/2-13 Threaded Hole 3/8-16 Blind Nut on Bead Plates 1/2-13 in Pistons Air Inlet 1/4 N.P.T.
Combination Stud/Air Inlet Stud Outside Thread is 3/4-16 Studs Inside Thread (Air Inlet) is 1/4 N.P.T. Exceptions will be noted on Part View as

BELLOWS # ASSEMBLY ORDER NO.	CROSS SECTION VIEW	BEAD PLATE-TOP VIEW	PISTON-BOTTOM VIEW	ASSEMBLY WEIGHTS	REPLACES
1T15M-0 358-8256 SERVICE ASSEMBLY # 358-8257		3271 	9655 	13.4	FLXIBLE 6-379-4 (MFG. SV. #) FLXIBLE 6-379-153
1T15M-0 358-9031 SERVICE ASSEMBLY # 358-0956		3215 	9654 	14.0	FLXIBLE 6-379-2 (MFG. SV. #) FLXIBLE 6-379-152
1T15M-0 358-9039 SERVICE ASSEMBLY # 358-0702		3235 	9655 	14.6	BLUEBIRD 300-0961250 FLXIBLE 6-336-202 M.C.I./T.M.C. 12TA-1-2 (CITY CRUISER) ORION 0101324014
1T15M-0 358-8971		3271 	9573 	14.5	HENDRICKSON FRONT SUSPENSION 59484-2B
1T15M-0.5 358-9306 COMPOSITE PISTON		3235 	9570 	12.7	ORION 010132404-4
1T15M-0.5 358-8970		3235 	9570 	14.2	ORION 050232501

Hardware Key

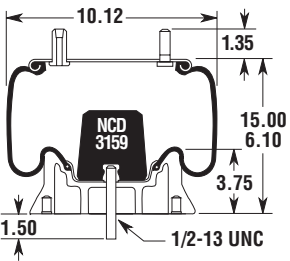
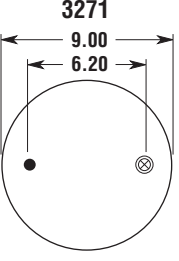
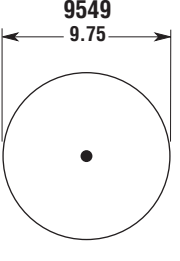
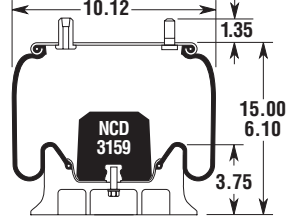
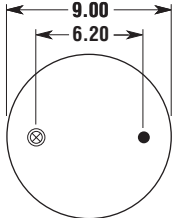
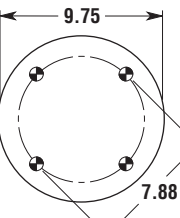
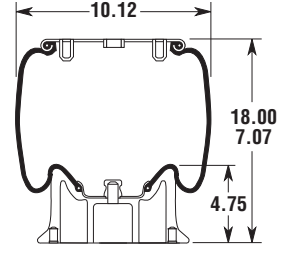
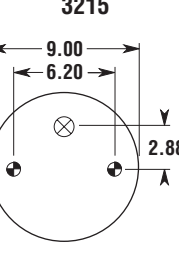
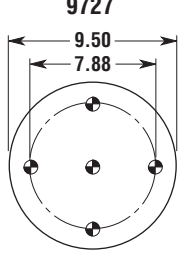
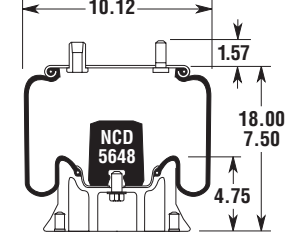
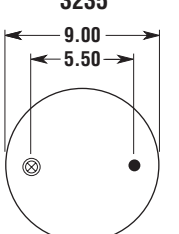
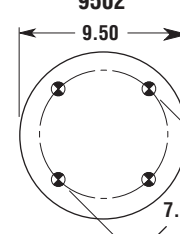
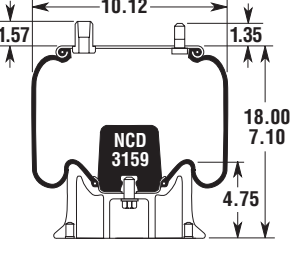
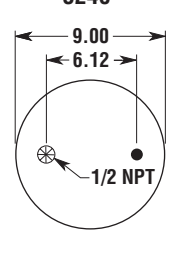
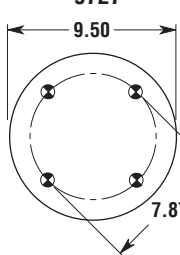
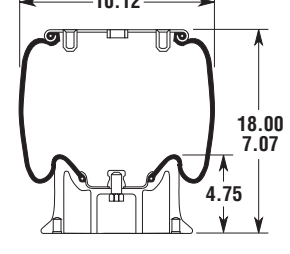
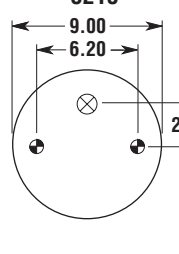
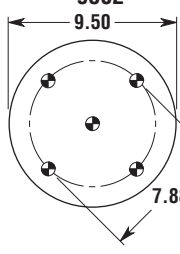
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1T-Reversible Sleeve

BELLOWS # ASSEMBLY ORDER NO.	CROSS SECTION VIEW	BEAD PLATE-TOP VIEW	PISTON-BOTTOM VIEW	ASSEMBLY WEIGHTS	REPLACES
1T15M-2 358-8203				15.5	GILLIG LOW-FLOOR REAR AXLE NEWAY SUSPENSION
1T15M-2 358-9100 SERVICE ASSEMBLY # 358-0910				14.8	A.M. GENERAL 5973924 A.M. GENERAL 5973876 NEW FLYER 5973876
1T15M-2 358-9105 SERVICE ASSEMBLY # 358-0725				15.5	BLUEBIRD 90557038 CHANCE 270-03377 FLXIBLE 6-336-205 NEOPLAN LOW FLOOR MD-1063009
1T15M-2 358-9303				15.5	NEOPLAN LOW-FLOOR PW1003009
1T15M-2 653-9125 SERVICE ASSEMBLY # 653-9126				15.6	FLXIBLE 6-336-206 M.C.I./T.M.C. 12M-3-130
METRIC 1T15M-2 M58-7279				15.6	SCANIA 423117

Hardware Key

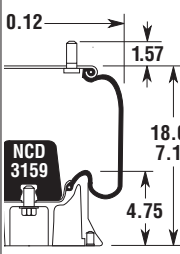
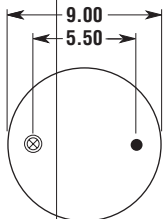
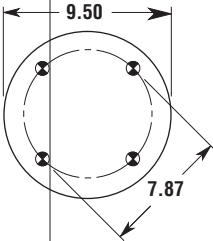
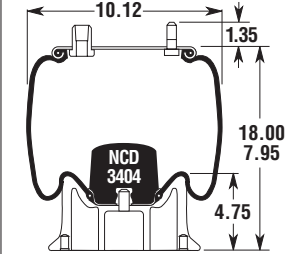
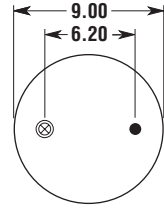
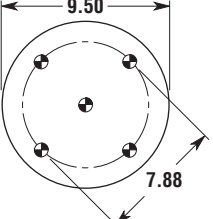
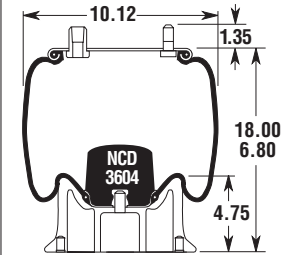
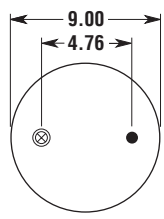
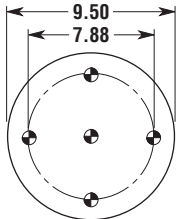
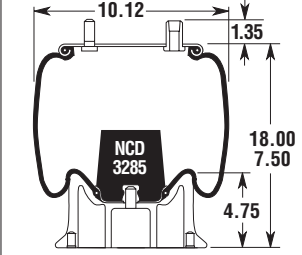
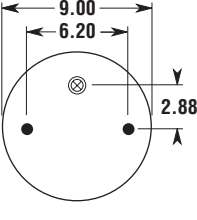
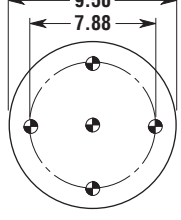
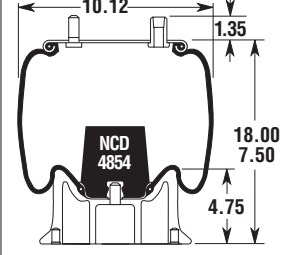
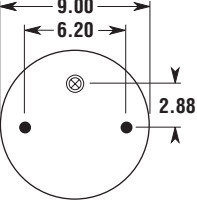
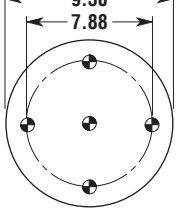
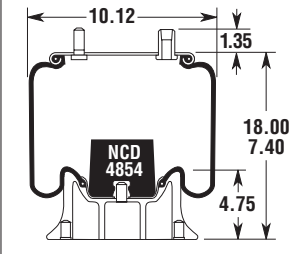
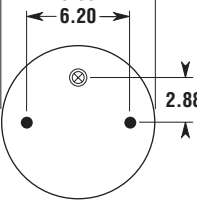
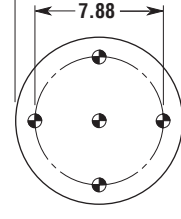
Bolt or Stud 1/2-13 Threaded Hole 3/8-16 Blind Nut on Bead Plates 1/2-13 in Pistons Air Inlet 1/4 N.P.T.
Combination Stud/Air Inlet Stud Outside Thread is 3/4-16 Studs Inside Thread (Air Inlet) is 1/4 N.P.T. Exceptions will be noted on Part View as

BELLOWS # ASSEMBLY ORDER NO.	CROSS SECTION VIEW	BEAD PLATE-TOP VIEW	PISTON-BOTTOM VIEW	ASSEMBLY WEIGHTS	REPLACES
1T15M-2 W35-8937				14.8	NEW FLYER 204429
1T15M-2 W35-9127				14.8	NEW FLYER 009594
1T15M-4 358-9056 SERVICE ASSEMBLY # 358-9055				14.5	CROWN COACH
1T15M-4 W35-8809				18.0	NEW FLYER 124011
1T15M-4 358-8955				18.0	MASA J27129239
1T15M-4 358-9959 COMPOSITE PISTON				13.1	NEW FLYER

Hardware Key

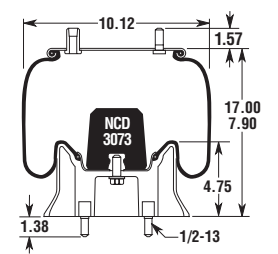
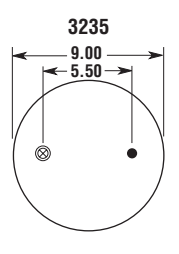
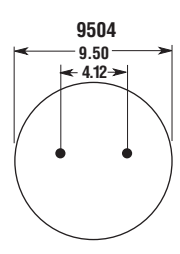
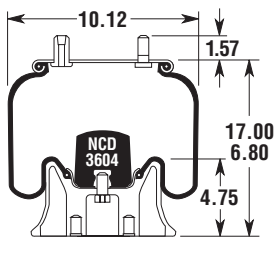
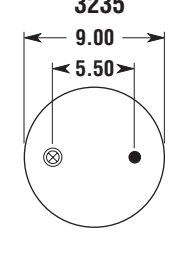
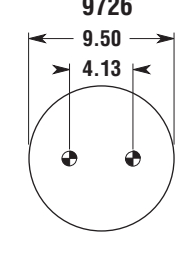
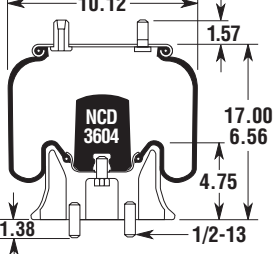
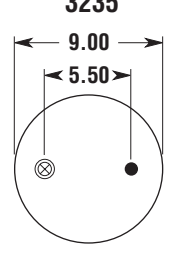
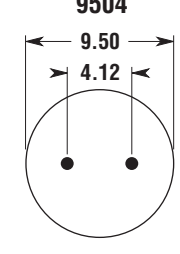
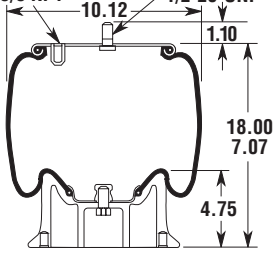
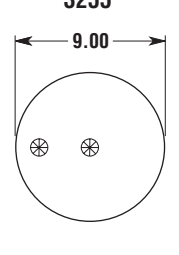
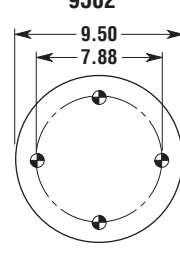
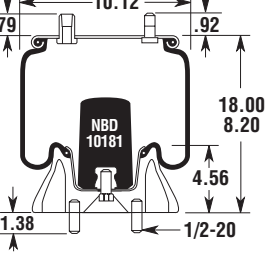
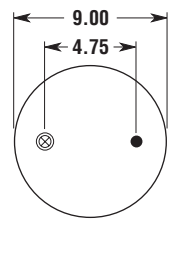
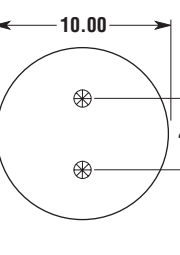
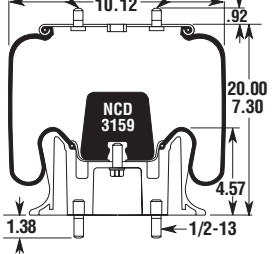
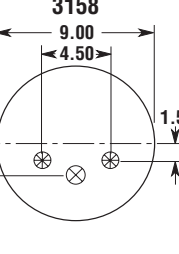
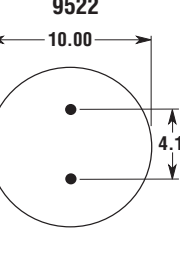
Bolt or Stud 1/2-13 Threaded Hole 3/8-16 Blind Nut on Bead Plates 1/2-13 in Pistons Air Inlet 1/4 N.P.T.
Combination Stud/Air Inlet Stud Outside Thread is 3/4-16 Studs Inside Thread (Air Inlet) is 1/4 N.P.T. Exceptions will be noted on Part View as

1T-Reversible Sleeve

BELLOWS # ASSEMBLY ORDER NO.	CROSS SECTION VIEW	BEAD PLATE-TOP VIEW	PISTON-BOTTOM VIEW	ASSEMBLY WEIGHTS	REPLACES
1T15M-4 358-9010 COMPOSITE PISTON		3235 	9727 	17.6	MASA CITYBUS T27129239
1T15M-4 367-9952 SERVICE ASSEMBLY # 367-9949		3271 	9727 	15.9	FLXIBLE 6-336-14 (MFG. SV. #) 6-336-170
1T15M-4 367-9956		3272 	9727 	16.0	FLXIBLE 97-2410-2
1T15M-4 367-9958 SUSP. TO 367-9961 SERVICE ASSEMBLY # 367-9959		3227 	9727 	16.4	FLXIBLE 97-2410-3 97-2410-5
1T15M-4 367-9961 SERVICE ASSEMBLY # 367-0705		3227 	9727 	16.3	FLXIBLE 97-2410-5 (MFG. SV. #) 97-2410-155
1T15M-4 367-9962 COMPOSITE PISTON SERVICE ASSEMBLY # 367-0705		3227 	9501 	13.4	FLXIBLE 97-2410-00006 (MFG. SV. #) 97-2410-155

Hardware Key

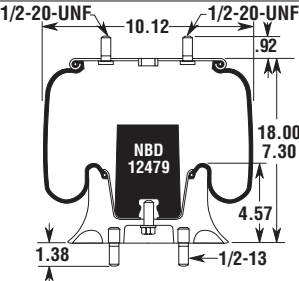
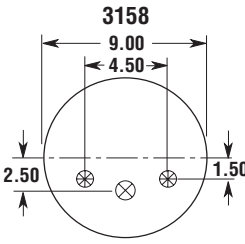
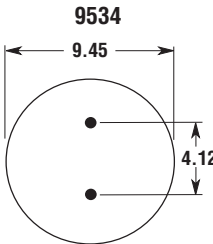
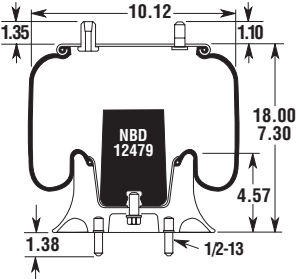
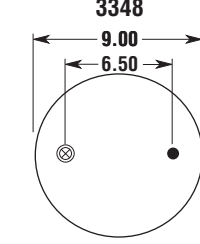
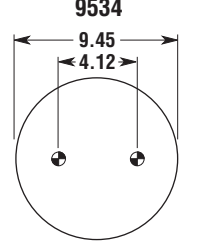
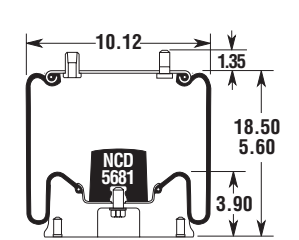
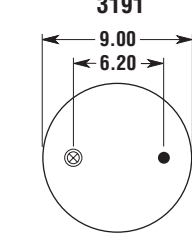
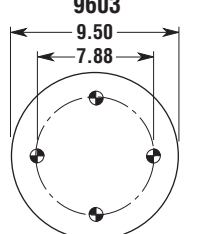
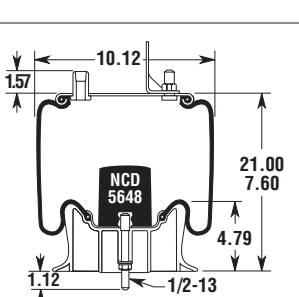
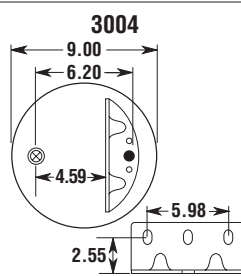
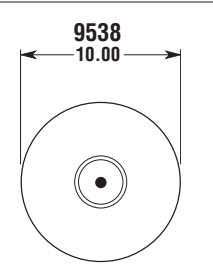
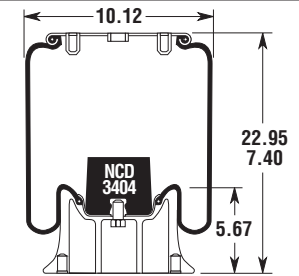
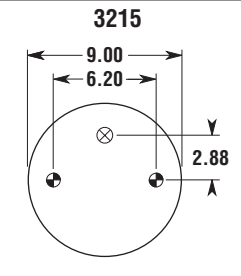
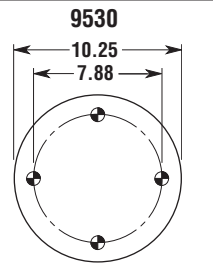
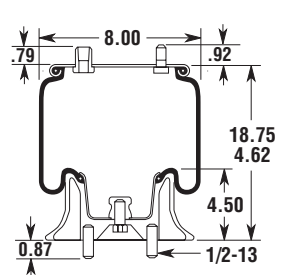
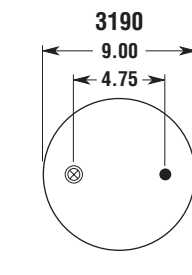
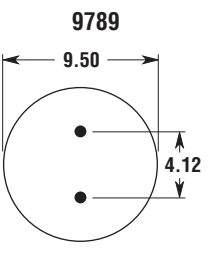
Bolt or Stud 1/2-13 Threaded Hole 3/8-16 Blind Nut on Bead Plates 1/2-13 in Pistons Air Inlet 1/4 N.P.T.
Combination Stud/Air Inlet Stud Outside Thread is 3/4-16 Studs Inside Thread (Air Inlet) is 1/4 N.P.T. Exceptions will be noted on Part View as

BELLOWS # ASSEMBLY ORDER NO.	CROSS SECTION VIEW	BEAD PLATE-TOP VIEW	PISTON-BOTTOM VIEW	ASSEMBLY WEIGHTS	REPLACES
1T15M-4 653-9017				12.6	M.C.I. PART# 12J-1-88
1T15M-4 653-8985				13.3	M.C.I./T.M.C. 12G-1-60
1T15M-4 653-9018 COMPOSITE PISTON SERVICE ASSEMBLY # 358-0718				13.5	M.C.I./T.M.C. 12L-1-133 (MFG. SV. #) 125-1-88
1T15M-4 W35-9060 COMPOSITE PISTON SERVICE ASSEMBLY # W35-0759				13.1	NEW FLYER 000065 NEW FLYER 014635 COMPOSITE
1T15MJ-4 358-5739				18.7	PREVOST 63-0070
1T15M-6 653-8827 COMPOSITE PISTON				18.5	M.C.I. D3 & DL3 16K FRONT AXLE 12L-1-234

Hardware Key

Bolt or Stud 1/2-13 Threaded Hole 3/8-16 Blind Nut on Bead Plates 1/2-13 in Pistons Air Inlet 1/4 N.P.T.
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1T-Reversible Sleeve

BELLOWS # ASSEMBLY ORDER NO.	CROSS SECTION VIEW	BEAD PLATE-TOP VIEW	PISTON-BOTTOM VIEW	ASSEMBLY WEIGHTS	REPLACES
1T15MJ-6 653-9571				18.8	M.C.I./T.M.C. 12L-1-231
1T15MJ-6 653-9572				18.8	M.C.I./T.M.C. 12L-1-232
1T15MN-6 358-8828				16.4	NOVA BUS LOW-FLOOR REAR AXLE N17842
1T15MT-8 358-9641				18.0	BLUEBIRD (HENDRICKSON SUSP) 59031-2B
1T15M-9 358-9237				18.0	ORION 0202725014
1T15S-5 358-9115 SERVICE ASSEMBLY # 358-0724				13.8	FLXIBLE 6-336-209 G.M.C. 716110 G.M.C. 2484840 (MFG. SV. #) G.M.C. 720414

Hardware Key

Bolt or Stud 1/2-13 Threaded Hole 3/8-16 Blind Nut on Bead Plates 1/2-13 in Pistons Air Inlet 1/4 N.P.T.
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BELLOWS # ASSEMBLY ORDER NO.	CROSS SECTION VIEW	BEAD PLATE-TOP VIEW	PISTON-BOTTOM VIEW	ASSEMBLY WEIGHTS	REPLACES
1T15S-6 358-9067 REPLACED BY 358-9017 SERVICE ASSEMBLY # 9047		3190 	9789 	15.4	FLXIBLE 6-304-157 FLXIBLE 6-336-174 G.M.C. 684192 G.M.C. 684193 G.M.C. 8870485 G.M.C. 8875032 G.M.C. 677302
1T15S-6 358-9073 SERVICE ASSEMBLY # 358-0708		3264 	9789 	16.6	BLUEBIRD 0990671 FLXIBLE 6-336-212 PREVOST 63-0045
1T15S-6 358-9236 -H.R. REPLACED BY 358-9017		3190 	9856 	16.4	G.M.C. 661756 G.M.C. 684195-3 G.M.C. 8870485 PREVOST 63-0093
1T15S-6 358-9386 KIT. ASSY. REPLACED BY 358-9017		3190 	9789 	17.8	G.M.C. 684193 G.M.C. 8870485
1T15S-6 358-9430		3220 	9789 	16.7	GILLIG 53-2227
1T15S-6 358-9436 EPOXY COATED REPLACED BY 358-9017		3190 	9797 	15.9	G.M.C. 684192 G.M.C. 8870485 G.M.C. 10530087

Hardware Key

Bolt or Stud 1/2-13 Threaded Hole 3/8-16 Blind Nut on Bead Plates 1/2-13 in Pistons Air Inlet 1/4 N.P.T.
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1T-Reversible Sleeve

BELLOWS # ASSEMBLY ORDER NO.	CROSS SECTION VIEW	BEAD PLATE-TOP VIEW	PISTON-BOTTOM VIEW	ASSEMBLY WEIGHTS	REPLACES
1T15S-6 358-9610 COMPOSITE PISTON REPLACED BY 358-9017				14.0	G.M.C. 684192 G.M.C. 661756 G.M.C. 8870485 G.M.C. LES AUTO BUS 10530087
1T15S-6 367-9953				20.4	FLXIBLE 6-336-15 M.C.I. 12M-4-6
1T15S-6 653-9121 SERVICE ASSEMBLY # 653-9122				18.2	FLXIBLE 6-336-182 M.C.I./T.M.C. 12M-4-6 (MFG. SV. #) M.C.I./T.M.C. 12F-4-34
METRIC 1T15S-6 M58-7316				20.1	SCANIA 424688
1T15SN-6 358-8910				20.0	GILLIG FRONT 82-17801-000
1T15T-1 358-9398				12.8	ORION I

Hardware Key

Bolt or Stud 1/2-13 Threaded Hole 3/8-16 Blind Nut on Bead Plates 1/2-13 in Pistons Air Inlet 1/4 N.P.T.
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BELLOWS # ASSEMBLY ORDER NO.	CROSS SECTION VIEW	BEAD PLATE-TOP VIEW	PISTON-BOTTOM VIEW	ASSEMBLY WEIGHTS	REPLACES
1T15T-1 358-9400 SERVICE ASSEMBLY # 358-0717				11.2	FLXIBLE 6-336-1 (MFG. SV. #) 6-336-159
1T15T-1 358-9405 SERVICE ASSEMBLY # 358-8252				13.1	FLXIBLE 6-379-3 (MFG. SV. #) 6-379-158
1T15T-1 358-9409 SERVICE ASSEMBLY # 358-9420				13.1	FLXIBLE 6-304-2 FLXIBLE 6-336-9 (MFG. SV. #) FLXIBLE 6-336-164
1T15T-1 358-9410 SERVICE ASSEMBLY # 358-8255				11.3	FLXIBLE 6-336-7 (MFG. SV. #) FLXIBLE 6-336-161
1T15T-1 367-9906				11.3	FLXIBLE 6-336-3
1T15T-2 358-8600				15.3	COLLINS BUS-FRONT

Hardware Key

Bolt or Stud 1/2-13 Threaded Hole 3/8-16 Blind Nut on Bead Plates 1/2-13 in Pistons Air Inlet 1/4 N.P.T.
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1T-Reversible Sleeve

BELLOWS # ASSEMBLY ORDER NO.	CROSS SECTION VIEW	BEAD PLATE-TOP VIEW	PISTON-BOTTOM VIEW	ASSEMBLY WEIGHTS	REPLACES
1T15V-3 358-9345				13.7	ORION VI REAR 060231510
1T15Y-1 OR 1T15TQ-1 358-5770				15.7	DINA 39390246-8
1T17B-3 358-8757				20.4	ORION VI REAR 060231516
1T17B-5 W35-8754 COMPOSITE PISTON				23.0	NEW FLYER # 000013
1T17BV-3 W35-8739				18.2	NEW FLYER 201316
1T19F-3 W35-9279 SERVICE ASSEMBLY # W35-0784				20.6	NEW FLYER # 023591

Hardware Key

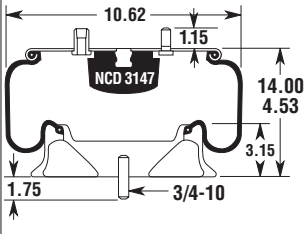
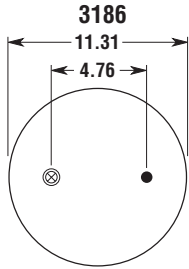
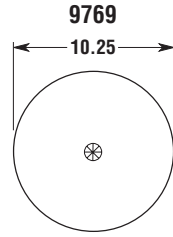
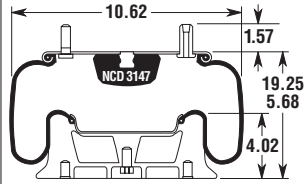
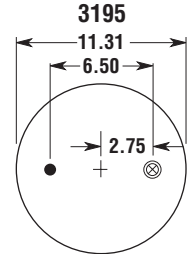
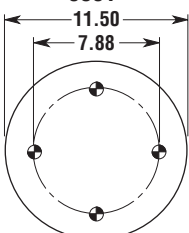
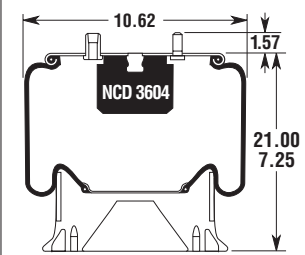
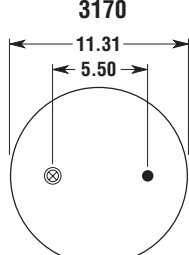
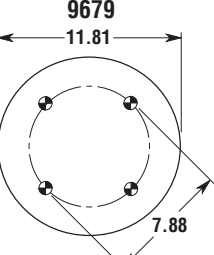
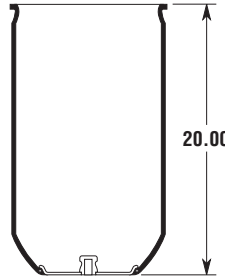
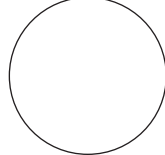

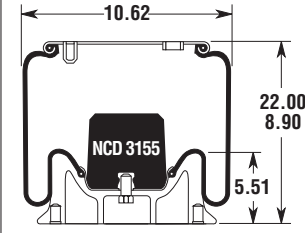
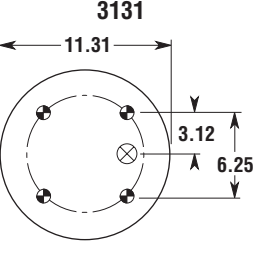
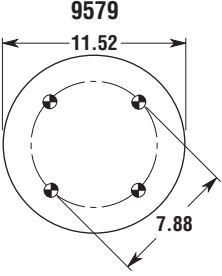
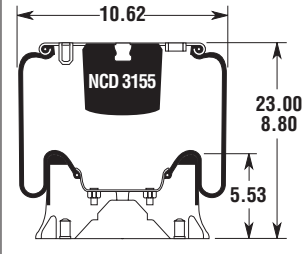
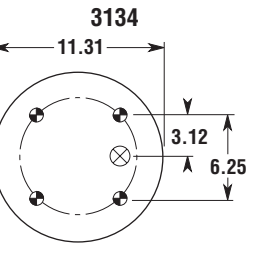
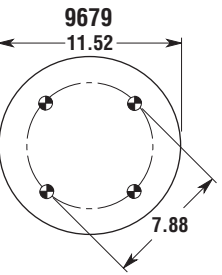
Bolt or Stud 1/2-13 Threaded Hole 3/8-16 Blind Nut on Bead Plates 1/2-13 in Pistons Air Inlet 1/4 N.P.T.
Combination Stud/Air Inlet Stud Outside Thread is 3/4-16 Studs Inside Thread (Air Inlet) is 1/4 N.P.T. Exceptions will be noted on Part View as

BELLOWS # ASSEMBLY ORDER NO.	CROSS SECTION VIEW	BEAD PLATE-TOP VIEW	PISTON-BOTTOM VIEW	ASSEMBLY WEIGHTS	REPLACES
1T19F-5 358-9200				28.2	MASA TROLLEYBUS A27127529
1T19F-5 W35-9236 SERVICE ASSEMBLY # W35-0787				24.5	NEW FLYER # 015201
1T19F-5 358-9892				25.4	TRANS-TECH
1T19F-7 358-8980				27.1	NEOPLAN KH1003010
1T19F-7 358-9814				23.6	NEOPLAN NJ 1003010
1T19F-7 358-9230 SERVICE ASSEMBLY # 358-9232				22.9	FLXIBLE 6-336-215 GILLIG 53-14007

Hardware Key

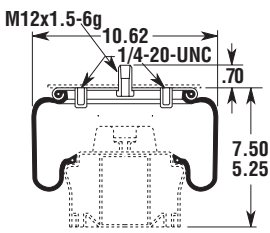
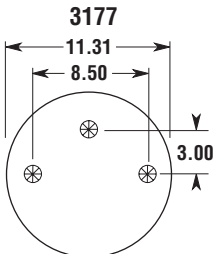
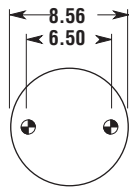
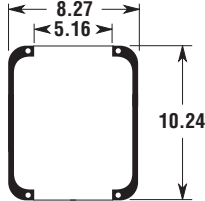
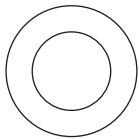
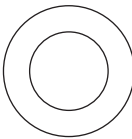
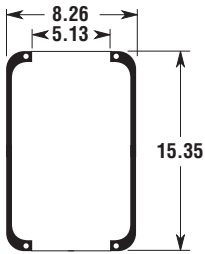
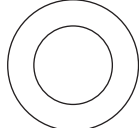
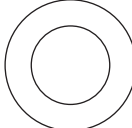
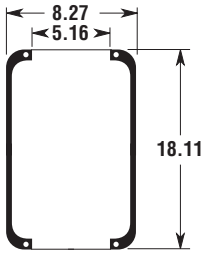
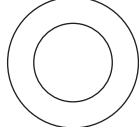
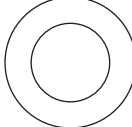
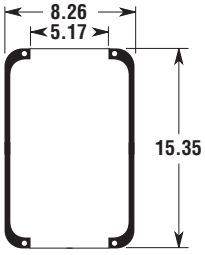
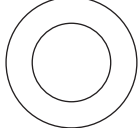
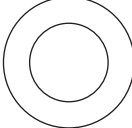
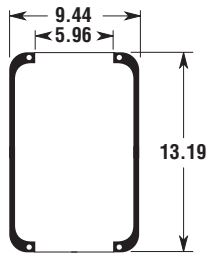
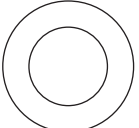
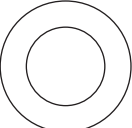
Bolt or Stud 1/2-13 Threaded Hole 3/8-16 Blind Nut on Bead Plates 1/2-13 in Pistons Air Inlet 1/4 N.P.T.
 Combination Stud/Air Inlet Stud Outside Thread is 3/4-16 Studs Inside Thread (Air Inlet) is 1/4 N.P.T. Exceptions will be noted on Part View as

1T-Reversible Sleeve

BELLOWS # ASSEMBLY ORDER NO.	CROSS SECTION VIEW	BEAD PLATE-TOP VIEW	PISTON-BOTTOM VIEW	ASSEMBLY WEIGHTS	REPLACES
1T19J-1 358-8023 SERVICE ASSEMBLY # 358-0923				16.6	FLXIBLE 6-336-183 G.M.C. 2090412 R.T.S.-4 FRONT
1T19J-6 358-8053				21.34	GILLIG 53-20415
1T19L-7 358-9280 SERVICE ASSEMBLY # 358-9025				27.2	FLXIBLE 6-336-217 NEOPLAN BJ1003010
METRIC 1T19L-10 M58-0028				11.3	FLXIBLE 97-2211-3 M.A.N. 81-43601-0035 81-43601-0048
1T19N-9 367-9982 COMPOSITE PISTON				26.2	FLXIBLE 87-0808-001
1T19N-9 367-9983 SUPERCEDED BY 367-9982 SERVICE ASSEMBLY # 358-0768				27.3	FLXIBLE 87-0865-001

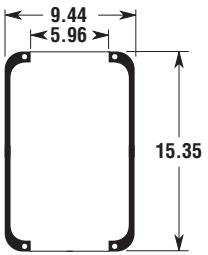
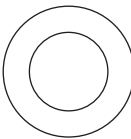
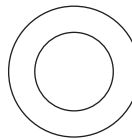
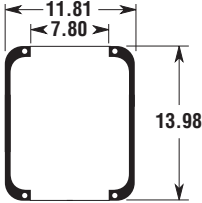
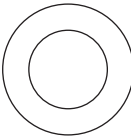
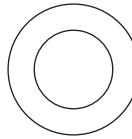
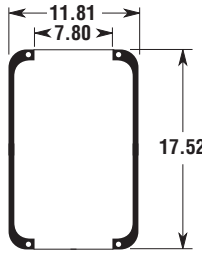
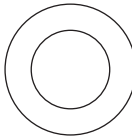
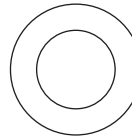
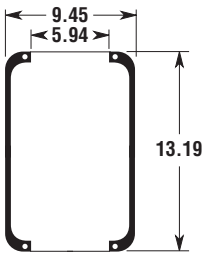
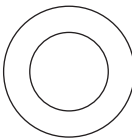
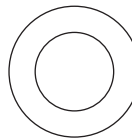
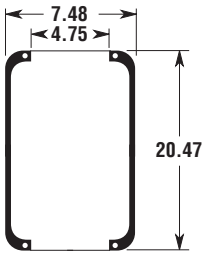
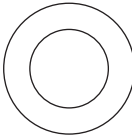
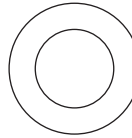
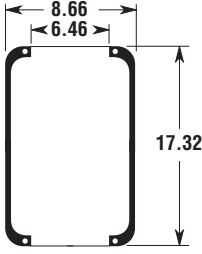
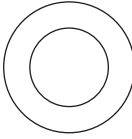
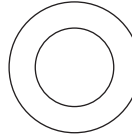
Hardware Key

Bolt or Stud 1/2-13 Threaded Hole 3/8-16 Blind Nut on Bead Plates 1/2-13 in Pistons Air Inlet 1/4 N.P.T.
 Combination Stud/Air Inlet Stud Outside Thread is 3/4-16 Studs Inside Thread (Air Inlet) is 1/4 N.P.T. Exceptions will be noted on Part View as

BELLOWS # ASSEMBLY ORDER NO.	CROSS SECTION VIEW	BEAD PLATE-TOP VIEW	PISTON-BOTTOM VIEW	ASSEMBLY WEIGHTS	REPLACES
1T19MR-2 358-9970 SERVICE ASSEMBLY				13.8	CROWN IKARUS (ARTIC.) 502631 502211 NOTE: SPECIFIC ADAPTOR PLATE NECESSARY
1R1A-260-285 358-5198				3.0	BREDA PIRELLI 1S 285-10
1R1A-390-295 358-5139				4.9	CONTI-644N PHOENIX-1E21 NEOPLAN SAGA-1S28524 VOLVO # 1134445
1R1A-460-290 358-0063				4.5	M.A.N./CONTI-720N
1R1B-390-270 358-0977				3.5	SCANIA
1R1C-335-310 358-5158				3.5	CONTI-715N PHOENIX-1F25 M.A.N. 81-43600-0009 M.A.N. 81-43601-0075

Hardware Key

1T-Reversible Sleeve

BELLOWS # ASSEMBLY ORDER NO.	CROSS SECTION VIEW	BEAD PLATE-TOP VIEW	PISTON-BOTTOM VIEW	ASSEMBLY WEIGHTS	REPLACES
1R1C-390-310 358-5150				4.1	CONTI-661N PHOENIX-1E25 NEOPLAN AA10-01-001 SAGA-1S32130 VOLVO # 1137888 FLXIBLE 6-9999-00178
1R1D-355-355 358-5154				4.1	CONTI-662N PHOENIX-1E32 NEOPLAN AA10-01-002 SAGA-1S32030
1R1D-445-355 358-5155				4.1	CONTI-727N M.A.N. 81-43600-0008 VOLVO # 1134446
1R1E-335-320 358-5199				3.7	SCANIA REAR
1R1J-520-285 358-0173				3.4	DUNLOP 30514 SCANIA CONTI-896N
1R1K-440-320 358-0174				3.9	DUNLOP 30521 SCANIA CONTI-897N

Hardware Key

Bolt or Stud 1/2-13 Threaded Hole 3/8-16 Blind Nut on Bead Plates 1/2-13 in Pistons Air Inlet 1/4 N.P.T.
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BELLOWS # ASSEMBLY ORDER NO.	CROSS SECTION VIEW	BEAD PLATE-TOP VIEW	PISTON-BOTTOM VIEW	ASSEMBLY WEIGHTS	REPLACES
1R2A-450-305 358-5196				5.5	CONTI-716N/756N VOLVO 1 593 842
1R2A-460-295 358-5197				4.2	CONTI-720N VOLVO 1622116 MERCEDES 3603280101 & 3873280101
1R5N-400-320 BELLOWS-PISTON 358-5195 UPPER PLATE WC1-358-0334				12.0	G.M.C. # G1015009 15504181 15561865 R.T.S.-6 FRONT
2T2B-1.5 G32-4503				5.2	G.M.C. MOTORHOME

Hardware Key

Bolt or Stud 1/2-13 Threaded Hole 3/8-16 Blind Nut on Bead Plates 1/2-13 in Pistons Air Inlet 1/4 N.P.T.
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1T-Reversible Sleeve

BELLOWS # ASSEMBLY ORDER NO.	CROSS SECTION VIEW	BEAD PLATE-TOP VIEW	PISTON-BOTTOM VIEW	ASSEMBLY WEIGHTS	REPLACES

Hardware Key

Bolt or Stud 1/2-13 Threaded Hole 3/8-16 Blind Nut on Bead Plates 1/2-13 in Pistons Air Inlet 1/4 N.P.T.
 Combination Stud/Air Inlet Stud Outside Thread is 3/4-16 Studs Inside Thread (Air Inlet) is 1/4 N.P.T. Exceptions will be noted on Part View as

Reversible Sleeve/Piston Cross Reference

Part Description	Assembly Order Number W01-358	Service Assembly Order Number W01-358	Piston Order Number WC1-358	Piston Drawing Number
1T14C-0	8990	----	0609	NBD-8458
1T14CB-1	8997	0700	0609	NBD-8458
1T14C-1	5300	----	0600	NBD-8626
1T14C-1	5310	----	0600	NBD-8626
1T14C-1	5311	----	0600	NBD-8626
1T14C-1	5315	----	0600	NBD-8626
1T14C-1	5316	----	0600	NBD-8626
1T14C-3	5406	----	0600	NBD-8626
1T14C-3	5409	----	0600	NBD-8626
1T14C-6	5725	----	G32-0577	NBD-10403
1T14C-6	5730	----	0754	NBD-10441
1T14C-7	5710	----	0600	NBD-8626
1T14C-7	5721	----	0686	NAD-18053
1T15L-2	9440	----	9454	NBD-10439
1T15L-2	9448	----	0683	NBD-10472
1T15L-2	9457	----	0683	NBD-10472
1T15L-2	653-9446	653-0702	0683	NBD-10472
1T15L-3	9384	----	0683	NBD-10472
1T15L-3X	9380	----	0660	NBD-9611
1T15L-4	9432	----	0652	NBD-10440
1T15L-4	9441	----	0652	NBD-10440
1T15L-4	9469	----	1652	NAD-26204
1T15L-4	8920	----	0683	NBD-10472
1T15L-4X	9437	0414	0606	NBD-8514
1T15L-4X	W35-9385	----	W35-0632	NAD-17604
1T15L-4X	W35-9465	----	W35-0632	NAD-17604
1T15L-6	M58-0685	----	----	----
1T15LN-4	682-8940	----	----	----
1T15LN-6	682-8945	----	----	----
1T15LN-7	682-8946	----	----	----
1T15MJ-4	5739	----	0699	NBD-10393
1T15M-0	8256	8257	9454	NBD-10439
1T15M-0	9031	0956	0663	NBD-10438
1T15M-0	9039	0702	9454	NBD-10439
1T15M-0	8002	----	0663	NBD-10438
1T15M-0.5	9306	----	0647	NAD-18162
1T15M-2	9100	0910	0652	NBD-10440
1T15M-2	9105	0725	1652	NAD-26204
1T15M-2	653-9125	653-9126	0653	NBD-8183
1T15M-2	M58-7279	----	----	----
1T15M-2	W35-9127	----	0652	NBD-10440
1T15M-4	9056	9055	0651	NBD-8724
1T15M-4	9959	----	0632	NAD-17604
1T15M-4	367-9952	367-9949	0651	NBD-8724
1T15M-4	367-9956	367-9955	0651	NBD-8724
1T15M-4	367-9958	367-9959	0651	NBD-8724
1T15M-4	367-9961	367-0705	0651	NBD-8724
1T15M-4	367-9962	367-0705	1601	NAD-25273

Reversible Sleeve/Piston Cross Reference

Part Description	Assembly Order Number W01-358	Service Assembly Order Number W01-358	Piston Order Number WC1-358	Piston Drawing Number
1T15M-4	653-8985	653-0719	----	----
1T15M-4	653-9018	653-0718	----	----
1T15M-4	W35-9060	W35-0759	W35-0632	NAD-17604
1T15M-9	9237	----	9452	NBD-10436
1T15S-5	9115	0724	0556	NBD-8881
1T15S-6	9067	9047	0556	NBD-8881
1T15S-6	9236 H.R.	9047	0699	NBD-10393
1T15S-6	9386	9047	0556	NBD-8881
1T15S-6	9430	----	0556	NBD-8881
1T15S-6	9436	9047	G32-0576	NBD-10402
1T15S-6	9073	0708	0556	NBD-8881
1T15S-6	9610 F.R.P.	9047	0755	NAD-17736
1T15S-6	367-9953	----	0556	NBD-8881
1T15S-6	653-9121	653-9122	653-0651	NBD-9242
1T15S-6	M58-7316	----	----	----
1T15AA3	9017	----	0755	NAD-17736
1T15T-1	9398	----	0682	NBD-8312
1T15T-1	9400	0717	0682	NBD-8312
1T15T-1	9405	8252	0682	NBD-8312
1T15T-1	9409	9420	0682	NBD-8312
1T15T-1	9410	8255	0682	NBD-8312
1T15T-1	367-9906	----	0682	NBD-8312
1T15V-3	9345	----	0667	NBD-9171
1T15Y-1	5770	----	----	----
1T17B-5	W35-8754	----	W35-0632	NAD-17604
1T19F-5	W35-9236	W35-0787	W35-0631	NAD-15321
1T19F-7	9230	9232	9450	NAD-18101
1T19F-3	W35-9279	W35-0784	----	----
1T19F-7	8980	----	0690	NAD-18086
1T19F-9	367-9980	9222	0690	NAD-18086
1T19L-7	9280	0925	0690	NAD-18086
1T19L-10	M58-0028	----	----	----
1T19J-1	8023	0923	0685	NBD-10180
1T19J-6	8053	----	0684	NAD-17936
1T19N-9	367-9982	----	1679	NAD-19969
1T19N-9	367-9983	0768	0690	NAD-18086

Manufacturers Cross Reference

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A. M. GENERAL	5951714	20J	W35-7065					7
	5951999	22J		W35-7075				9
	5973876	1T14C-3	358-5409				358-0600	12
	5973877	1T15M-2		358-9100		358-0910	358-0652	19
	5973923	1T14C-3	358-5409				358-0600	12
	5973924	1T15M-2		358-9100		358-0910	358-0652	19
AMERICAN IKARUS	416-07-3804-900	1T15L-4	358-8920	358-8920				14
AUTOMOTRIZ PENA S.A. (PENA)		20C	358-6920					-
		22C		358-7430				8
BREDA		1R1A-260-270	358-5151					
BLUE BIRD	0990671	1T15S-6			358-9073	358-0708	358-0556	24
	1263581	1T14CB-1	358-8997			358-0700	358-0609	12
	1286814	1T15L-2		358-9457			358-0683	14
	90557034	1T14CB-1	358-8997			358-0700	358-0609	12
	90557038	1T15M-2		358-9105		358-0725	358-1652	19
	300-961250	1T15M-0		358-9039		358-0702	358-9454	18
	300-091425	1T14CB-1	358-8997			358-0700	358-0609	12
	59031-2B	1T15MT-8	358-9641	358-9641				23
CHAMPION COACH		1T15L-4	358-8922					15
CHANCE MFG.	270-03376	1T14C-0	358-8990				358-0609	11
	270-03377	1T15M-2		358-9105		358-0725	358-1652	19
COLLINS BUS		1T15T-2	358-8600					26
CROWN COACH		1T14C-1	358-5310				358-0600	11
		1T15L-4	358-9432				358-0652	15
		1T15M-4		358-9056		358-9055	358-0651	20
CROWN IKARUS	502631	1T19MR-2 (LESS PISTON)	358-9970	358-9970				30
DIESEL NACIONAL (DINA)	AX-8127-19	20C		358-6910				6
	A1Z-8127-19	20C	358-6900					5
	39390246-8	1T15Y-1&1T15TQ-1	358-5770	358-5770				27
EL DORADO	7089E000	1T15L-2		358-9448			358-0683	14
	71040301	1T14CB-1		358-8997		358-0700	358-0609	12
	7113D000	1T14C-3			358-5414			-
FLXIBLE	6-304-2	1T15T-1	358-9409			358-9420	358-0682	26
	6-304-156	1T14C-7	358-5710				358-0600	13
	6-304-157	1T15S-6		358-9067		358-9047	G32-0556	24
	6-336-1	1T15T-1	358-9400			358-0717	358-0682	26
	6-336-2	1T14C-1	358-5310				358-0600	11
	6-336-3	1T15T-1	367-9906				358-0682	26
	6-336-4	1T14C-1	358-5300				358-0600	11
	6-336-5	22C		358-7433				8
	6-336-6	20C	367-6900					-
	6-336-7	1T15T-1	358-9410			358-8255	358-0682	26
	6-336-9	1T15T-1	358-9409			358-9420	358-0682	26
	6-336-11	1T14C-3	358-5406				358-0600	12
	6-336-12	20C	367-6905					7

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FLXIBLE CONTINUED	6-336-13	22C		367-9100				9
	6-336-14	1T15M-4	367-9952			367-9949	358-0651	21
	6-336-15	1T15S-6		367-9953			358-0556	25
	6-336-16	22C		367-9954				9
	6-336-18	16SPL		SPACER		367-9955		5
	6-336-169	20C		358-0619				-
	6-336-172	22C		358-0136				7
	6-336-174	1T15S-6		358-9067		358-9047	358-0556	24
	6-336-175	1T14C-7	358-5710				358-0600	13
	6-336-176	22J		W35-7075				9
	6-336-178	20J	W35-7065					7
	6-336-182	1T15S-6	653-9121			653-9122	358-0651	25
	6-336-183	1T19J-1	358-8023			358-0923	358-0685	29
	6-336-193	22C		358-7151				8
	6-336-194	22C		358-7152				8
	6-336-195	1T14C-0	358-8990				358-0609	11
	6-336-196	1T14CB-1	358-8997			358-0700	358-0609	12
	6-336-200	1T15L-4	358-9441				358-0642	15
	6-336-201	1T15L-4X	358-9437			358-0414	358-0606	16
	6-336-202	1T15M-0	358-9039	358-9039		358-0702	358-9454	18
	6-336-205	1T15M-2		358-9105		358-0725	358-1652	19
	6-336-206	1T15M-2	653-9125			653-9126	358-0653	19
	6-336-209	1T15S-5		358-9115		358-0724	358-0556	23
	6-336-212	1T15S-6		358-9073		358-0708	358-0556	24
	6-336-215	1T19F-7		358-9230		358-9232	358-9450	28
	6-336-217	1T19L-7		358-9280		358-0925	358-0690	28
	6-379-1	1T14C-1	358-5311				358-0600	11
	6-379-2	1T15M-0	358-9031			358-0656	358-0663	18
	6-379-3	1T15T-1	358-9405			358-8252	358-0682	26
	6-379-4	1T15M-0	358-8256			358-8257	358-9454	18
	6-379-6	1T14C-1	358-5315				358-0600	11
	6-379-7	22C		367-7401				-
	6-9999-00178	1R1C-390-310	358-5150					31
	87-0808-001	1T19N-9		367-9982			358-1679	29
	87-0865-001	1T19N-9		367-9983		358-0768	358-0690	29
	97-240-153	1T15AA-3	358-9017				358-0755	13
	97-2211-3	1T19L-10		M58-0028	REPLACES 358-2135			29
	97-2410-00006	1T15M-4	367-9962			367-0705	358-1601	21
	97-2410-2	1T15M-4	367-9956			367-9955	358-0651	21
	97-2410-3	1T15M-4	367-9958			367-9959	358-0651	21
	97-2410-4	1T15M-4	367-9958					21
	97-2410-5	1T15M-4	367-9961			367-0705	358-0651	21
	97-5249-1	1T19D-9		367-9970	REPLACES 367-9980			30
	97-5382-001	1T19F-9		367-9980				-
	97-5977-1	131	367-0131					5

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FLXIBLE CONT.	97-6693-001	1T14F-4	367-9950					-	
	97-6694-001	1T19F-9		367-9980				-	
	97-9999-02185	1T15M-0	358-9306				358-0647	18	
	06-9999-00184	1T19L-10	M58-0028					29	
	97-9999-335	1T15L-6		M58-0685				17	
NEW FLYER	000013	1T17B-5		W35-8754			W35-0632	27	
	000065	1T15M-4		W35-9060		W35-0759	W35-0632	22	
	009594	1T15M-2		W35-9127			358-0652	20	
	009865	1T15L-4X	W35-9465				W35-0632	16	
	014635			W35-9060				22	
	015201	1T19F-5		W35-9236		W35-0787	W35-0631	28	
	023591	1T19F-3	W35-9279			W35-0784		27	
	055089	1T15L-4X	W35-9385				W35-0632	16	
	102221	1T15L-4X	W35-9468					17	
	124011	1T15M-4		W35-8809				16	
	204429	1T15M-2		W35-8937				20	
	200555	1T15L-4X	W35-8953					16	
	201316	1T17BV-3	W35-8739					27	
	5920815	1T14C-3	358-5406				358-0600	12	
	5951714	20J	W35-7065					7	
	5951999	22J		W35-7075				9	
	5973876	1T15M-2		358-9100		358-0910	358-0652	19	
	5973877	1T14C-3	358-5409				358-0600	12	
	5973923	1T14C-3	358-5409				358-0600	12	
	5993113	1T14C-3	358-5409				358-0600	12	
	6160104	1T14C-1	358-5316				358-0600	11	
	6170111	1T15M-0		358-8002			358-0663	17	
	G.M.C.	G5001705	1T14C-6	358-5730				358-0754	13
		G5001706	1T14S-6	358-9610			358-9047	358-0755	24
10530086		1T14C-6	358-5730				G32-0577	13	
10530087		1T15S-6	RIGHT 358-9271	358-9436		358-9047	G32-0576	24	
15504181		1T15MT-5	LEFT 358-9272					-	
15504181		1T15MT-5		REPLACE TO 8023				-	
2052623		1T19J-1	358-8023					29	
2090412		1T19J-1	358-8023	BOLT ORDER # 358-3623		358-0923	358-0685	29	
2234803								-	
2292367		20C	358-7901					7	
2292372		22C		358-0136				7	
2334801				BOLT ORDER # 358-3621				-	
2334805		20		BEAD RING ORDER # 358-0507				-	
2334809		22		BEAD RING ORDER # 358-0507				-	
2354547				BOLT ORDER # 358-3622				-	
2354549				BOLT ORDER # 358-3626				-	
2376039		1T14C-7	358-5710				358-0600	13	
2376040		1T15S-6		358-9067		358-9047	358-0556	24	

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G.M.C. CONTINUED	2383256	1T14C-6	358-5730					13	
	2383257	1T15AA-3		358-9017				13	
	2426842	1T15A		UPPER MOUNTING PLATE G32-0542				-	
	2427939	1T14C-1		UPPER MOUNTING PLATE G32-0539				-	
	2484840	1T15S-5		358-9115		358-0724	358-0556	23	
	653073	20C	358-7067					6	
	653074	20C	358-7068					6	
	653075	20C	358-7069					6	
	653076	22C		358-7152				8	
	653077	22C		358-7151				8	
	656407	20		BEAD/MOUNTING PLATE G32-2509					-
	656408	20		BEAD/MOUNTING PLATE G32-2506					-
	661755	1T14C-7	358-5710				358-0600	13	
	661756	1T15S-6		358-9067	REPLACED BY 9017	358-9047	358-0556	24	
	661758	1T14C-7	358-5710				358-0660	13	
	661759	1T15S-6		358-9047		358-9047	358-0556	24	
	662743		358-5406					12	
	662744			358-9115				23	
	665260		358-5730					13	
	665621			358-9017				13	
	677305			358-5711				-	
	674811			358-9115				23	
	684192	1T15AA-3		358-9017		358-9047	358-0556	13	
	684193	1T15AA3		358-9017			358-0755 COMPOSITE PISTON	13	
	684242			358-9115				23	
	686145	20C	358-7901					7	
	686146	22C		653-7122				7	
	691458	22C		358-7152				8	
	691459	22C		358-7151				8	
	716110	1T15S-5		358-9115		358-0724	358-0556	23	
	716111	1T14C-3	358-5406				358-0600	12	
	717682	1T19J-1	358-8022	REPLACED BY 358-8023				-	
	792844	1T19J-1	358-8023					29	
	2376039	1T14F-8	358-5711					-	
	2376040	1T15S-6				358-9047		24	
	2383256	1T14C-6	358-5730					13	
	2383257	1T15AA-3		358-9017				13	
	2052623	1T19J-1	358-8023					29	
	2090412	1T19J-1	358-8023					29	
	2292367	20B	358-0138					-	
	2292372	22B	358-0136					-	
	2475048	1T15S-5		358-9115				23	
	6989634	1T14C-6	358-5725					12	
	6989635	1T15S-6		358-9436				23	
	8865456	1T14C-3	358-5406				358-0600	12	

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G.M.C. CONTINUED	8870484	1T14C-7	358-5710				358-0600	13
	8870485	1T15S-6		358-9436	REPLACED BY 358-9017	358-9047	358-0556	24
	8875031	1T14F-8	358-5711					-
	8875032	1T15S-6		358-9047				24
	8875034			PISTON STUD ORDER # G32-0552				-
	10530086	1T14C-6	358-5725					12
	10530087	1T15AA-3			358-9017			13
GILLIG	J653-20415-001	1T19J-6	358-8053				358-0684	29
	53-09611-001	1T15M-4	358-9070					-
		16	358-7001					5
	53-14006	1T15L-4	358-9441			REPLACES M58-0685	358-0642	15
	53-14007	1T19F-7		358-9230		358-9232	358-9450	28
	53-17602-001	1T15M-6	358-9082					-
	53-2227	1T15S-6	358-9430					24
	53-2228	1T19E-1		358-9177				-
	53-8212	1T15L-4	358-9431			SUPERSEDED TO 9230		-
	53-9049	1T19E-1		358-9225		SUPERSEDED TO 9441		-
	53-13187	1T15L-4	358-9441			SUPERSEDED TO 9230		15
	82-17801-000	1T15SN-6	358-8910					25
08-372-09-000N	1T14CB-1	358-5298					12	
MADSEN		1T14C-1	358-5316				358-0600	11
		1T15L-2		358-9440			358-9454	13
M.A.N.	81-43600-0006	1T15L-6	M58-0687		M58-0687			17
	81-43600-0007	1T19L-10		M58-0028		REPLACES M58-0685		29
	81-43600-0008	1R1D-455-355		358-5155				31
	81-43600-0009	1R1C-335-310	358-5158					30
	81-43601-0035	1T19L-10		M58-0028				29
	81-43601-0048	1T19L-10		M58-0028				29
	81-43601-0050	1T15L-6	M58-0687					17
	81-43601-0060	1R1C-335-310	358-5158	REPLACES M58-0685				30
	81-43601-0075	1T15L-6	M58-0687		REPLACED BY M58-0685			17
	81-43601-0076	1T19L-10		M58-0028				29
	81-43601-6002	1T15L-6	M58-0687					17
	81-43601-6023	1T15L-6	M58-0687			M58-0687		17
M.C.I./T.M.C. MC-5,7,8,9	12-1-201	20 BEAD RING		BEAD RING ORDER # 358-0757		REPLACES M58-0685		-
M.C.I./T.M.C. MC-7,8,9	12-1-203			BOLT ORDER # 358-3621				-
M.C.I./T.M.C. MC-7,8,9	12-1-661	22 BEAD RING		BEAD RING ORDER # 358-3522				-
M.C.I./T.M.C. MC-7,8,9	12-1-689			BOLT ORDER # 358-3622				-
M.C.I./T.M.C. MC-7,8,9	12C-1-35	20C	653-7117					7
M.C.I./T.M.C. MC-7,8,9	12C-1-36	20C	653-7119					7
M.C.I./T.M.C. MC-7,8,9	12C-3-51	22C		653-0226				9
M.C.I./T.M.C. MC-7,8,9	12C-3-52	22C		653-7124				9
M.C.I. D3 & DL3 16k	12L-1-234	1T15M-6	653-8827					22
M.C.I./T.M.C. MC-5,7,8	12F-4-34	1T15S-6			653-9122			25
M.C.I./T.M.C. MC-9	12G-1-60	1T15M-4	653-9018	653-9018				22

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M.C.I./T.M.C. CONT.								
M.C.I./T.M.C. MC-5,7,8,9	12L-4-5	1T15S-6			653-9121			25
M.C.I./T.M.C. MC-7,8,9	12M-4-6	1T15S-6			653-9121	653-9122	653-0651	25
M.C.I./T.M.C. MC-7,8,9	12M-3-130	1T15M-2	653-9125	653-9125		653-9126	358-0653	19
M.C.I./T.M.C. CITY CRUISER/ORION	12TA-1-2	1T15M-0	358-9039	358-9039		358-0702	358-9454 COMPOSITE PISTON	18
M.C.I./T.M.C. 96A/2	12J-3-53	1T15L-2		653-9446		653-0702		14
M.C.I./T.M.C. 96A/3	12G-1-60	1T15M-4	653-8985			653-0718		22
M.C.I./T.M.C. 96A/3	12J-1-53	1T15M-4	653-9018			653-0718		22
M.C.I./T.M.C. 96A/3	12M-4-6	1T15S-6			653-9121	653-9122	653-0651	25
M.C.I./T.M.C. 102	12J-1-88	1T15M-4	653-9018	653-9018				22
M.C.I./T.M.C. 102A/2	12J-3-53	1T15L-2	653-9018	653-9446		653-0702		14
M.C.I./T.M.C. 102A	12K-3-11	1T15L-2		653-9446		653-0702		14
M.C.I./T.M.C. 102A/2	12L-1-133	1T15M-4	653-9018			653-0718		22
M.C.I./T.M.C. 102A/B	12M-4-6	1T15S-6			653-9121	653-9122	653-0651	25
M.C.I./T.M.C. 102A/3	12L-1-133	1T15M-4	653-9018			653-0718		22
M.C.I./T.M.C. 102A/3 N.J.	12L-1-133	1T15M-4	653-9018			653-0718		22
M.C.I./T.M.C. 102A/3 N.J.	12L-1-231	1T15MJ-6	653-9571	653-9571	653-9571			23
M.C.I./T.M.C. 102A/3 N.J.	12L-1-232	1T15MJ-6			653-9572			23
M.C.I./T.M.C. 102A/3 N.J.	12M-4-6	1T15S-6			653-9121	653-9122	653-0651	25
MEXICANA DE AUTOBUSES (MASA)	2-27-0-02002	22C		358-7400				8
	2-27-0-04001	20C	358-6911					6
	T27129239	1T15M-4	358-9010	358-9010	358-9010			21
	A27127529	1T19F-5	358-9200	358-9200	358-9200			28
	J27129239	1T15M-4	358-8955	358-8955	358-8955			20
NABI	416073804900	1T15L-4	358-8920	358-8920				14
NEOPLAN	A/C MOUNT	16SPL				358-0510		5
	AA10-01-001	1R1C-390-310	358-5150					31
	AA10-01-002	1R1D-355-355		358-5154				31
	BJ10-03-010	1T19F-7		358-9280		358-0925	358-0690	29
	CJ10-03-009	1T15L-4X	358-9437			358-0414	358-0606	16
	KH1003010	1T19F-7		358-8980		358-9232	358-9450	28
	MD1003009	1T15M-2	358-9105	358-9105				19
	NJ1003010	1T19F-7	358-9814					28
	PW1003009	1T15M-2	358-9303	358-9303				19
NOVABUS	G5001706	1T14C-6	358-5730				358-0754	13
	G1076863	1T15AA3		358-9588				13
	N15558	1T15AA-3		358-9017			358-0755	13
	N17842	1T15MN-6		358-8828			358-9454 COMPOSITE PISTON	23
ORION	0101324014	1T15M-0	358-9039	358-9039		358-0702		18
ORION II	0201175204	1T14C-7	358-5721				358-0686	13
	0201175264	1T15LN-4	682-8940					17
	020217501	1T15LN-6		682-8945				17
	020217503	1T15LN-7		682-8946				17
	0202725014	1T15M-9		358-9237			358-9452	23
ORION V	010132404-4	1T15M-0	358-9306	358-9306			358-0647	18

Manufacturers Cross Reference

MANUFACTURER	MFG. PART #	AIR SPRING STYLE	FRONT ASSY. ORDER # W01-	REAR ASSY. ORDER # W01-	TRAILING ORDER # W01-	SERVICE ASSY. ORDER # W01-	PISTON ONLY ORDER # WC1-	PAGE #
ORION V CONT.	050232501	1T15M-0.5	358-8970	358-8970				18
ORION VI	060101502	1T15L-4	358-8943					15
	060231510	1T15V-3		358-9345				22
	060231516	1T17B-3		358-8757				27
PREVOST	63-0045	1T15S-6		358-9073		358-0708	358-0556	24
	63-0044	1T15LE-3		358-9380			358-0755	14
	63-0067	1T15S-6		358-9073			358-0660	24
	63-0070	1T15MJ-4		358-5739				22
	63-0077	1T15S-6	358-8899		358-8899			-
	63-0093	1T15S-6		358-9236		358-9047	358-0556	24
	63-0105	1T15S-6	358-8899					-
SCANIA 112	423117	1T15M-2	M58-7279					19
	424688	1T15S-6		M58-7316				25
		1R1B-390-270		358-0977				30
TMC	6989635	1T15S-6		358-9436				24
	8870485	1T15S-6		358-9436				24
	G1012381	1T15AA-3		358-9017				13
	G1020957	1T15AA-3		358-9017				13
	10530087	1T15AA-3		358-9017				13
	661759C	1T15S-6		358-9047				24
	684192	1T15AA-3		358-9017				13
	684193	1T15AA-3		358-9017				13
	12T-1-2	1T15M-0		358-9039				18
	15504181	1R5N	358-5195					32
	15561865	1R5N	358-0334 UPPER PLATE					32
	G1076863	1T15AA-3		358-9588				13
	TRAILERS DE MONTERREY (SULTANA)	73312	22C	358-7185	358-7185			
73312		20C			358-6900			5
TRANS TECH		1T19F-5	358-9892					28
VOLVO B10M	1134445	1R1A-390-295	358-5139					30
	1134446	1R1D-445-355		358-5155				31
	1137888	1R1C-390-310		358-5150				31
VAN HOOL		1R2D-390-360	358-5157	358-5157				-

Air Spring Warranty Evaluation Criteria



Firestone air springs are designed to provide years and thousands of miles of trouble free service. The durability of Firestone air springs is such that they will often outlast other maintenance items on your suspension, such as bushings, shocks, leveling valves or regulators.

Airide® springs by Firestone are warranted to be free of material defects and/or workmanship for various periods of time, depending upon the application. Free replacements may be provided by the original manufacturer, manufacturer's representative or dealer, or by any Firestone air spring distributor. All labor and incidental costs associated with replacing the defective air spring are the responsibility of the purchaser, or end user.

Firestone Industrial Products Company offers a complete line of Airide springs, with replacement springs available for virtually every vehicular air suspension system.

Since each individual air spring is closely examined and pressure tested at the factory, the vast majority of premature failures and consequent warranty returns are found not to be defective, but fail because of abuse caused by other problems associated with the suspension.

Before you install a new air spring, you should carefully examine the old one to determine what caused it to fail. If it was due to a defect in the suspension system, then the new air spring will also fail unless you correct the problem.

The information on the next two pages was developed to illustrate the types of failures that may occur, and to assist you in determining the cause and corrective action required.

WARRANTY EVALUATION CRITERIA

When applied and maintained properly, *Airide*® springs can provide thousands of miles of trouble-free service. Most failures are caused by a lack of suspension maintenance or improper application. This is a guide to common air spring failures that are *not* covered by warranty.

MISALIGNMENT



Appearance or Condition

- Off-center bumper contact
- Same as abrasion or bottoming out

Possible Causes

- Worn bushing
- Improper suspension installation

LOOSE GIRDLE HOOP



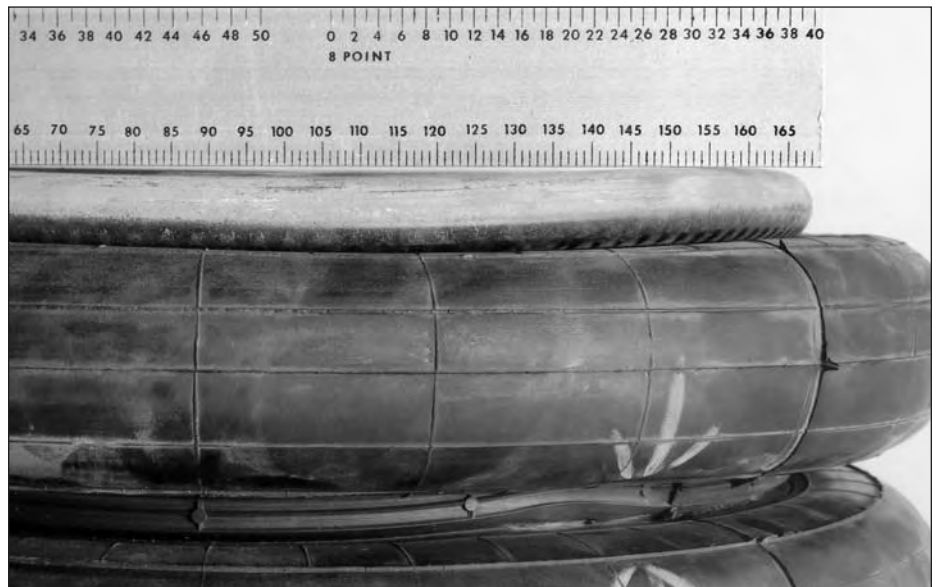
Appearance or Condition

- Rubber bellows distorted and girdle hoop torn loose

Possible Causes

- Running at extended positions with low air pressure

BOTTOMING OUT



Appearance or Condition

- Bead plate concave
- Internal bumper loose
- Hole in girdle hoop area (convoluted)
- Hole in bead plate junction area
- Leaking around blind nuts

Possible Causes

- Broken or defective shock absorber
- Defective leveling valve
- Overloaded vehicle
- Pressure regulator set too low
- Wrong air spring (too tall)

WARRANTY EVALUATION CRITERIA

ABRASION



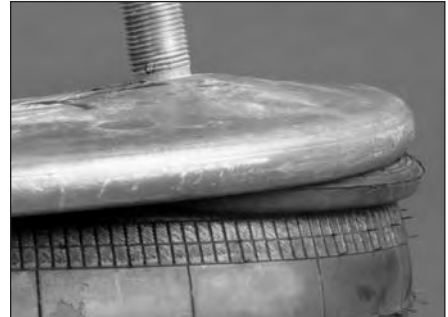
Appearance or Condition

- Hole rubbed into side of bellows
- Hole in bellows area that rolls over piston (reversible sleeve style)

Possible Causes

- Structural interference, such as:
 - broken shock
 - loose air line
 - misalignment
 - worn bushings
- No air pressure (reversible sleeve style)
- Foreign material (sand, rocks, etc.)
- Wrong air spring

OVER EXTENSION



Appearance or Condition

- Bead plate convex, especially around blind nuts or studs
- Rubber bellows separated from bead plate
- Leaking at blind nuts or studs
- Leaking at end closure (reversible sleeve)
- Loose girdle hoop on convoluted style

Possible Causes

- Broken or wrong shock absorber
- Defective leveling valve
- Ride position too high
- Defective upper stop (lift)
- Wrong air spring (too short)

CIRCUMFERENTIAL CUTS



Appearance or Condition

- Bellows cut in circle at bead plate junction
- Bellows cut in circle at piston junction (reversible sleeve style)

Possible Causes

- High pressure, fully extended for long periods of time
- Impact in compressed position

PREVENTIVE MAINTENANCE CHECKLIST

Listed below are items that can be checked when the vehicle is in for periodic maintenance.

Never attempt to service the air suspension on a truck or trailer with the air springs inflated.

1 Inspect the O.D. of the airspring. Check for signs of irregular wear or heat cracking.

2 Inspect air lines to make sure contact doesn't exist between the air line and the O.D. of the air spring. Air lines can rub a hole in an air spring very quickly.

3 Check to see that there is sufficient clearance around the complete circumference of the air spring while at its maximum diameter.

4 Inspect the O.D. of the piston for buildup of foreign materials. (On a reversible sleeve style air spring, the piston is the bottom component of the air spring).

5 Correct ride height should be maintained. All vehicles with air springs have a specified ride height established by the O.E.M. manufacturer. This height, which is found in your service manual, should be maintained within 1/4". This dimension can be checked with the vehicle loaded or empty.

6 Leveling valves (or height control valves) play a large part in ensuring that the total air spring system works as required. Clean, inspect and replace, if necessary.

7 Make sure you have the proper shock absorbers and check for leaking hydraulic oil and worn or broken end connectors. If a broken shock is found, replace it immediately. The shock absorber will normally limit the rebound of an air spring and keep it from overextending.

8 Check the tightness of all mounting hardware (nuts and bolts). If loose, re-torque to the manufacturer's specifications. Do not over-tighten.

CLEANING

9 APPROVED Approved cleaning media are soap and water, methyl alcohol, ethyl alcohol and isopropyl alcohol.

NON-APPROVED

Non-approved cleaning media include all organic solvents, open flames, abrasives and direct pressurized steam cleaning.

The total inspection process described on this page can be done in just a matter of minutes. If you find one of the above conditions exists, please take corrective action to ensure that it is fixed properly. It will save you both time and money.

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