

Reduces or eliminates early brake replacements.

Allows you to stretch scheduled maintenance intervals.

Ease of installation and maintenance, with either inboard or outboard mounted brake drums. Reduces labor costs and downtime.

Seal compatibility with mineral, synthetic or semi-fluid grease lubricants helps reduce inventory.

Avoids unnecessary seal replacement when mineral or synthetic lubes are interchanged.

Patented New PH Design is 100% interchangable with current OUTRUNNER seals. US Pat. RE 35,309

Installed as Original Equipment on Dana LMS (Low Maintainance System) and standard hub assemblies.



## **APPLICATION GUIDE**

Application	Outrunner Part Number	Installation Tool	Installation Bearing Guide	Bearings Inner Cone/Cup	Bearings Outer Cone/Cup
Trailer Axle, 19,000#, Dana Spicer, Eaton, Rockwell, Standard Forge	850	850-T	BCT-10	663/653 663/653	HM212049/HM212011 560/553X
Trailer Axle, 22,500#, Dana Spicer P, Eaton P, Delphos P, Fruehauf Pro-Par, Rockwell TP	851	851-T	BCT-12	HM518445/HM518410	HM518445/HM518410
Trailer Axle, 20,000#, Rockwell, Schuler	853	853-T	BCT-11 BCT-10	665A/653 663/653	HM212049/HM212011 HM212049/HM212011
Trailer Axle, 22,500#, Dana Spicer D, Eaton Delphos D, Rockwell, Standard Forge	859	859-T	BCT-13	HM218248/HM218210	HM212049/HM212011
Steer Axle, 12,000#, Dana Spicer, Eaton, Rockwell Ford, Freightliner & Sterling, Kenworth, Mack Navistar, Peterbilt, Volvo, Western Star	847	847-T	BCT-6 BCT-4 BCT-3 BCT-2	HM212049/HM212011 HM212047/HM212011 HM212044/HM212011 39581/39520	3782/3720 3782/3720 3782/3720 3585/3525
Steer Axle 9,000#, 10,800#, 12,000#, Navistar FA139, FA309, FA329	855	855-T	BCT-6 BCT-16	HM212049/HM212011 HM715345/HM715311	28682/28622 3979/3920
Steer Axle, 12,000#, Navistar FA-139, FA-339	857	857-T	BCT-16 BCT-6	HM715345/HM715311 641/632	555S/552A 28682/28622
Steer Axle, 16,000#, Dana Spicer, Eaton, Rockwell Ford, Freightliner & Sterling, Kenworth, Mack Navistar, Peterbilt, Volvo, Western Star	863	863-T	BCT-8 BCT-8	6461A/6420 6461A/6420	3979/3920 555S/552A
Drive Axle, 17,000#, Single & Tandem, GMC	848	848-T	BCT-10	47686/47620	39590/39520
<b>Drive Axle, 34,000#,</b> Tandem, Dana Spicer, Eaton, Navistar, White	849	849-T	BCT-10 BCT-8 BCT-8	47686/47620 47678/47620 5760/5735	39590/39520 39590/39520 575/572
Drive Axle, 44,000#, Tandem, Mack	852	852-T	BCT-10 BCT-10	HM516449/HM516410 663/653	47679/47620 575/572
Drive Axle, 38,000#, 40,000#, Tandem, Dana Spicer, Eaton, Rockwell, Ford, GMC, Mack, Navistar	854	854-T	BCT-14 BCT-10 BCT-10	598/592A 595/592A 598/592A	575/572 580/572 HM617049/HM617010
Drive Axle, 34,000#, Tandem, Mack	856	856-T	BCT-10 BCT-10	580/572 582/572	567/563 567/563
Drive Axle, 19,000#, Dana Spicer, Eaton, Rockwell, Ford, GMC, Navistar, White	858	858-T	BCT-15 BCT-15	594/592A 594A/592A	580/572 580/572
Drive Axle, 38,000#, Tandem, Dana Spicer, Eaton, Rockwell, GMC, Mack	860	860-T	BCT-14 BCT-14	598A/592A 598A/592A	580 & 582/572 HM617049/HM617010
Drive Axle, 38,000#, 46,000#, Tandem, Dana Spicer Eaton, Rockwell, Ford, Freightliner, Kenworth, Mack, Navistar, Peterbilt, Volvo, Western Star	r, 861	861-T	BCT-15 BCT-14 BCT-15	594 & 594A/592A 598 & 598A/592A 594A/592A	580/572 575 & 580/572 580 & 582/572



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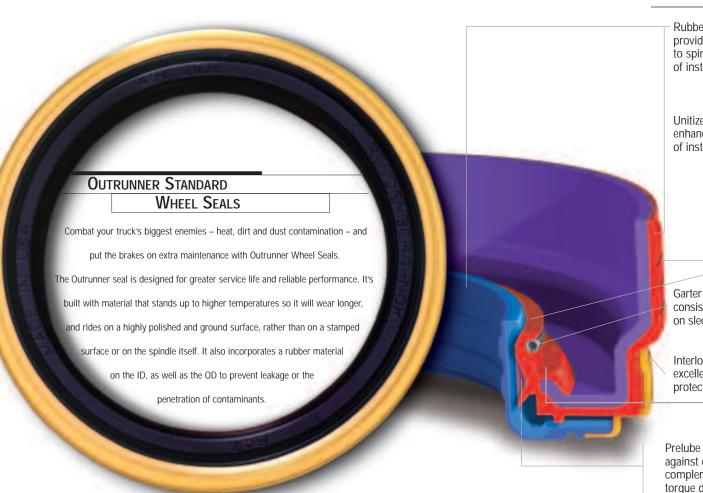
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DANA



Rubber O.D. and I.D. provide positive seating to spindle/bore and ease of installation.

> Unitized seal construction enhances durability and ease of installation.

Lathed, ground and polished internal wear ring reduces friction, lowers torque and promotes cooler running temperatures. Friction reduction lowers heat generation, which results in less chance of hardening and cracking of the main sealing lip.

Garter Spring maintains consistent lip pressure on sleeve.

Interlock design provides excellent dust exclusion protection.

> Advanced lip material withstands higher temperatures generated by longer hauls and heavier loads.

Bi-directional helixes

pump oil away from

the main sealing lip

completely than any

competitive seal.

more continuously and

Prelube grease protects against dry start wear and complements seal's low torque design.

Molded Spring Retainers eliminate spring dislodgement.

## OUTRUNNER PH-PERFORMANCE

Hybrid Wheel Seals US Pat. RE 35,309

Building on more than a decade of proven seal performance in the industry, this new and improved Outrunner design further improves seal life and performance, while also reducing wheel-end maintenance costs. The upgraded Outrunner seal includes a new outer diameter feature that employs a hybrid

combination of rubber and metal to make the seal more robust against misalignment during wheel-end handling and installation. The new

seals are completely interchangeable with the Outrunner

full-rubber OD seals.

Metal/Rubber O.D. and I.D. designed to eliminate seal misalignment and seal against minor hub imperfections. Higher retention load provides positive seating in hub bore.

Hybrid Metal/Rubber design further reduces installation variables that can cause leaks while retaining premium sealing performance.

Exclusionary Labyrinth provides proven seal geometry for higher resistance against contaminates.



Tool Guide (Scot) Plus XL) National 5-Star Grit Guard Guardian Voyager Discover

847-T BCT-6 35066 35058 370001A 380001A 382-8036 308-0836 383-0136 383-0236

849-T BCT-10 38780 38776 370023A 380023A 392-9099 309-0912 393-0112 393-0212

850-T BCT-10 40136 40129 370036A 380036A 372-7098 307-0713 373-0113 373-0213

852-T BCT-10 42672 42673 370031A 380031A 392-9130 309-0904 393-0104 393-0204

855-T BCT-6 44922 44916 370124A N/A 382-8053 308-0853 383-0153 N/A

857-T BCT-16 45103 45095 370131A 380131A 382-8056 308-0856 383-0156 N/A

858-T BCT-15 45160 45157 370021A N/A 392-9088 309-0964 N/A

860-T BCT-14 48000 48002 370005A N/A 392-9081 309-0960 N/A

856-T BCT-10 45099 45093 370022A 380022A 392-9094 309-0903 393-0103 393-0203

859-T BCT-13 46305 46300 370025A 380025A 372-7097 307-0743 373-0143 373-0243

861-T BCT-15 47697 47692 370003A 380003A 392-9131 309-0973 393-0173 393-0273

863-T BCT-8 43764 43761 370048A 380048A 382-8064 308-0864 383-0164 383-0264

848-T BCT-10 38750 N/A 370024A N/A 392-9099 309-0915 N/A

370065A

376590A

853-T BCT-11 43752 43754 370037A N/A 372-7095 307-0744 N/A

Stemco Stemco Stemco Stemco

380065A 372-7099 307-0723 373-0123 373-0223

392-9096 309-0965 N/A

**OUTRUNNER WHEEL SEAL INTERCHANGE LIST** 

Plate Bearing C/R (Scot

851-T BCT-12 42623 42627

854-T BCT-14 43860 N/A 370019A N/A

Trailer

Trailer

Trailer

Steer

Steer

Trailer



800T Universal handle fits all adapter plates. Kit includes universal handle, centering sleeve, lock washer

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