

## **TRW Automotive**

Steering & Suspension Systems

## Service Bulletin #TAS-110

Illustration for Service Seal Kit TAS650010 Revised September, 1995	This TRW Commercial Steering Division service bulletin has been written to help you repair commer- cial vehicles more efficiently. This bulletin should not replace your manuals; you should use them together. These materials are intended for use by properly trained, professional mechanics, NOT "Do- it-yourselfers". You should not try to diagnose or repair steering problems unless you have been trained, and have the right equipment, tools and know-how to perform the work correctly and safely.	
<b>WARNING</b> If the TAS65 gear you are servicing has a ball bearing and ball race in the valve housing, remove them and call TRW for disposition. Do not rebuild the gear.	<ul> <li>Service seal kits include service parts for more than one type of construction. Select the service kit parts required for the unit being serviced by comparing them with those being replaced.</li> <li>Use the Ball Return Guide Strap (32) as a direct replacement for the alternate "clip". Use the Torx screws included in the kit to secure the new strap. Discard the old clip and bolts.</li> <li>The new side cover gasket (45) is a direct replacement for the older "alternate" design, even though it may look slightly different.</li> </ul>	
All steering mechanisms are safety critical items. As such, it is imperative that the instructions in the vehicle manufacturer's or TRW's latest published service manual are followed to the letter. Failure to observe the proper procedures, cautions and warnings may result in loss of steering.		
	Service seal kits include grease pack 406015 and all item numbers shown on this bulletin. * Item 2 (Dirt & Water Seal with .687" I.D.) is for TAS units with 13/16" input serrations (P/N 478044)	

\* Item 2B (Dirt & Water seal with .852" I.D.) is for TAS units with 1" input serrations (P/N 478050)



Item	Description	Part Number
2	Dirt & Water Seal (13/16" serr)*	
2B	Dirt & Water Seal (1" serr)*	
3	Retaining Ring	401637
4	Seal (Input Shaft)	
6	Seal Ring (Valve Housing)	032616
7	Seal Ring (Valve Housing	032823
8	Seal Ring (2)	029123
9	O-ring (2)	032200158
10	Seal Ring	029116
11	O-ring (Valve Housing)	032200152
18	Adjuster locknut	027007
20	Teflon Seal Ring (Rack Piston)	032590

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Item	Description	Part Number
21	O-ring (Back up; Rack Piston)	032615
28	Ball Return Guides (2-Right)	400156
	Ball Return Guides (2-Left)	400157
29	Seal (Cap)	
31	Torx Screws (2-Cap/Strap)	020228
32	Ball Return Guide Strap	400167
38	Dirt Seal	
39	Dirt & Water Seal (Trunnion)	
41	Seal (2-Output)	
45	Gasket (Side Cover)	
49	Vent Plug (Side Cover)	036201
55	O-ring (2-Aux. Port Plug)	
57	O-ring (Relief Valve)	

