

Instruction Manual for DODGE Para-Flex GT, GTL, and GFB

⚠ WARNING

To ensure that the drive is not unexpectedly started, turn off, lock out, and tag power source before proceeding. Failure to observe these precautions could result in bodily injury.

Install in the following sequence:

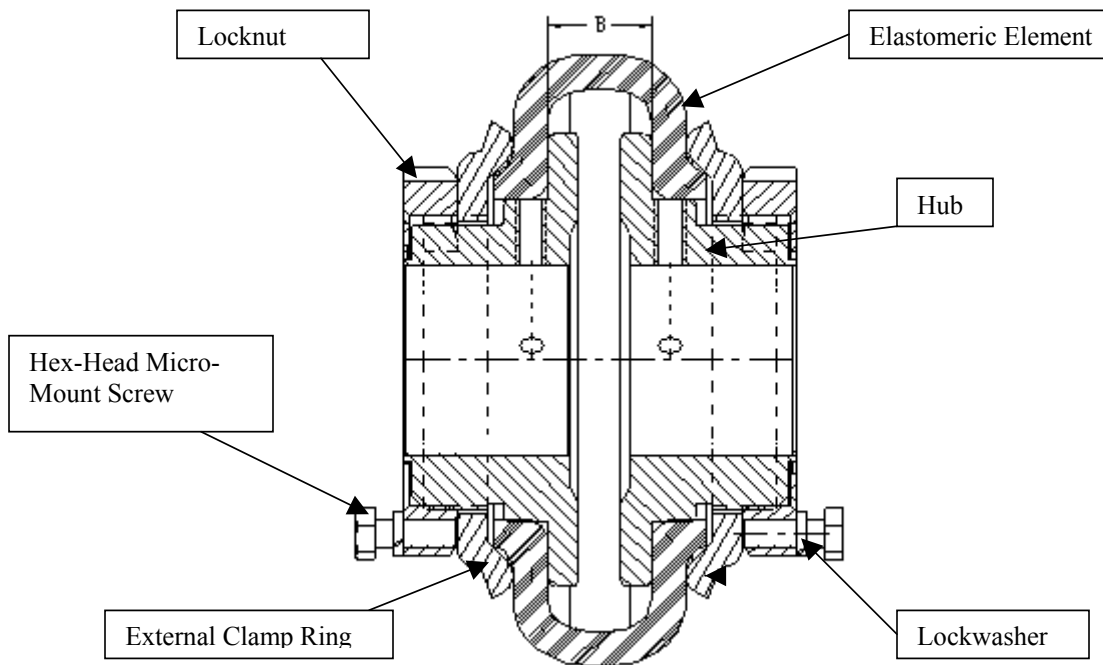
- (1) Inspect the shaft to ensure that it is smooth, straight and within commercial shaft tolerances as found in Table 1. Inspect the coupling hub to ensure that the adapter and hub have not been damaged during shipping or storage.
- (2) Remove any anti-rust lubricants or oil from the shaft. If necessary, clean shaft end and shaft seat beneath coupling lightly with emery paper.
- (3) Check the axial float of the shafts. Position the shafts at the mid-point of the float. Where limited end float is required or sleeve bearings are used, consult DODGE for application assistance at 864-284-5700.
- (4) Referring to Figure 1 and Table 2, observe the "B" dimension for the coupling size being installed. Mount and position the flanges on the shafts so that dimension "B" is achieved when the shafts are in their final position.
- (5) For Straight bore hubs mount the hub assembly per "Section 1 – Straight Bore Hub Installation" found below. For Taper-Lock bushings/hubs mount the hub assembly per "Section 2 – Taper-Lock Hub Installation" found below. For Grip-Tight hubs/adaptors, mount the assembly per "Section 3 – Grip-Tight Hub Installation" found below.
- (6) Align flanges using precision equipment such as dial indicators or laser equipment. If precision equipment is not available, scales, straight edges, and calipers can be used as less accurate means of alignment. To achieve maximum coupling performance, align the coupling as accurately as possible during installation.

Shaft Size (Inches)	Recommended Shaft Tolerances (Inches)
Up to 1-1/2"	+0.000 / -0.002
1-5/8" – 2-1/2"	+0.000 / -0.003
2-11/16" – 3"	+0.000 / -0.004

Size	"B" Dimension
50	0.97
60	1.28
80	1.50

Section 1 – Straight Bore Hub Installation

Figure 1: PXGFB Assembly



- (1) Slide coupling hub onto shaft so that the hub and end of the shaft are even.
- (2) Tighten set screws to torque values given in Table 3. (Note: Set screws are located on coupling hub beneath clamp ring, and must be tightened prior to installing the flexible element.)

Series	Set Screw Torque (in-lb)
50	87
60	87
80	290

Section 1a-Straight Bore Uninstallation

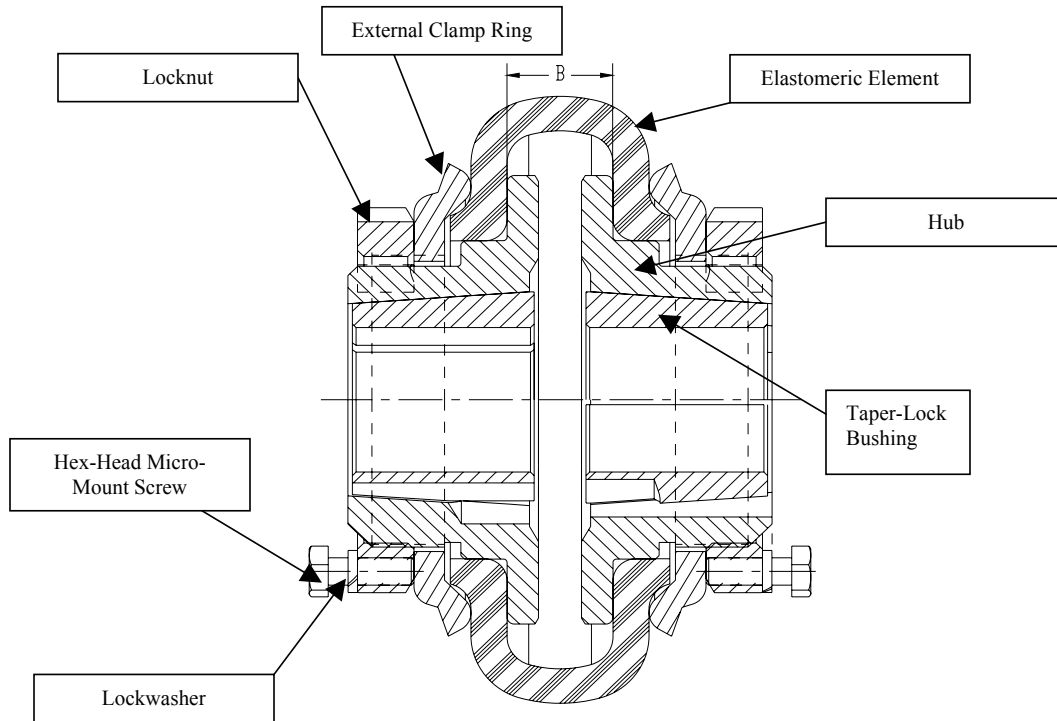
- (1) Loosen set screws. (Note: Set screws are located on coupling hub beneath clamp ring, and must be loosened after uninstalling flexible element.)
- (2) Slide coupling hub off of shaft.

⚠ WARNING

Because of the possible Danger to persons or property from accidents which may result from the improper use of products, it is important that correct procedures be followed: Products must be used in accordance with the engineering information specified in the catalog. Proper installation, maintenance and operational procedures must be observed. The instructions in the instruction manual must be followed. Inspections should be made as necessary to assure safe operation under prevailing conditions. Proper guards and other suitable safety devices or procedures as may be desirable or as may be specified in safety codes should be provided, and are neither provided by Baldor Electric Company nor are the responsibility of Baldor Electric Company. This unit and its associated equipment must be installed, adjusted and maintained by qualified personnel who are familiar with the construction and operation of all equipment in the system and the potential hazards involved. When risk to persons or property may be involved, a holding device must be an integral part of the driven equipment beyond the speed reducer and output shaft.

Section 2 - Taper-Lock Hub Installation

Figure 2: PXGTL Assembly



- (1) Insert bushing into hub. Match the hole pattern, not threaded holes (each complete hole will be threaded on one side only).
- (2) Lightly oil setscrews and thread into those half-threaded holes with the threads in the hub. Do not lubricate the bushing taper, bushing bore, hub taper or shaft. Doing so could be harmful to the product.
- (3) Position assembly onto shaft allowing for mild axial movement of hub that will occur during tightening procedure.
- (4) Alternately torque setscrews to recommended torque setting as shown in Table 4 below. Be careful to avoid using worn hex key wrenches as they tend to result in a loose assembly or may damage the setscrews.

Table 4		
Series	Bushing	Wrench Torque (in-lb)
50	1215	175
60	2012	280
80	2517	430

- (5) To increase gripping force, hammer face of bushing using a brass drift or sleeve. Do not hit bushing directly with hammer.
- (6) Re-torque screws after hammering.

Section 2a – Dismounting Taperlock Bushing Assembly

- (1) Remove all setscrews.
- (2) Insert one setscrew into any half-threaded hole that is threaded on the bushing.
- (3) Loosen bushing by tightening the setscrew.

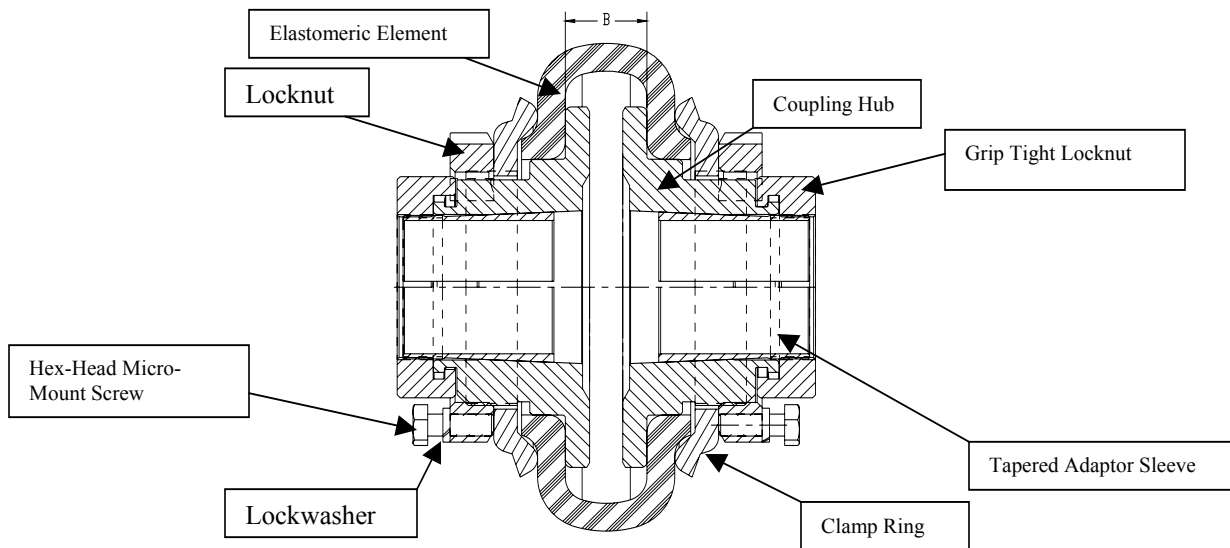
⚠ WARNING

Because of the possible Danger to persons or property from accidents which may result from the improper use of products, it is important that correct procedures be followed: Products must be used in accordance with the engineering information specified in the catalog. Proper installation, maintenance and operational procedures must be observed. The instructions in the instruction manual must be followed. Inspections should be made as necessary to assure safe operation under prevailing conditions. Proper guards and other suitable safety devices or procedures as may be desirable or as may be specified in safety codes should be provided, and are neither provided by Baldor Electric Company nor are the responsibility of Baldor Electric Company. This unit and its associated equipment must be installed, adjusted and maintained by qualified personnel who are familiar with the construction and operation of all equipment in the system and the potential hazards involved. When risk to persons or property may be involved, a holding device must be an integral part of the driven equipment beyond the speed reducer and output shaft.

Section 3 - Grip-Tight Hub Installation

The DODGE Grip-Tight adapter mounted Para-Flex coupling incorporates a unique way of mounting and dismounting a coupling to and from the shaft. The patented feature pushes the coupling hub onto the tapered adapter sleeve and locks it into place as the locknut is given a predetermined clockwise rotation. The locknut pushes against the coupling hub face ensuring a positive uniform engagement of the coupling hub and adapter. Dismounting is accomplished by rotating the locknut in a counter-clockwise direction pulling the coupling from the adapter and releasing it from the shaft.

Figure 3: PXGT Assembly



- (1) Place the locknut into the groove on the coupling hub, THEN insert the adapter sleeve into the coupling hub in the direction of the taper. Rotate the locknut clockwise to engage the adapter sleeve.
- (2) Do not use lubricants on the shaft or any surfaces of the coupling assembly.
- (3) Slide the hub assembly into position onto the shaft. If the unit will not slip onto the shaft, turn locknut counter-clockwise to expand adapter sleeve.
- (4) Wearing gloves, rotate locknut clockwise, by hand, as tight as possible until the adapter sleeve grips and does not spin on the shaft. If needed, tap on the locknut outer diameter while turning locknut to assist with this step. At this point you should not be able to rotate the locknut by hand and you should not be able to move the hub assembly axially along the shaft by hand. If the hub assembly can be moved axially along the shaft then continue tightening the locknut until assembly is unable to move axially by hand.
- (5) Scribe a line on the locknut above the adapter sleeve slot. This scribe line will be used in step 5 to verify proper locknut rotation.

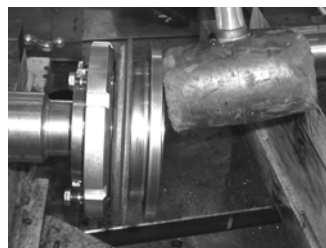


Series	Locknut Rotation
50	2/3 Turn
60	1 Turn
80	1 Turn

- (6) Lock hub assembly to shaft by rotating locknut, with a spanner wrench or brass drift and hammer, clockwise by amount shown in Table 5.
- (7) Tighten locknut setscrew until 3/32" Allen key bends (25 in-lbs).

Section 3a – Dismounting GT Adapter Assembly

- (1) Completely remove the setscrew in the adapter locknut.
- (2) Rotate the locknut counter-clockwise with a spanner wrench or brass drift pin and hammer.
- (3) The locknut will alternate between spinning easily and becoming snug. When the locknut becomes snug strike, while rotating counter-clockwise, the backside of the flange with a soft mallet around the entire face as shown to reduce resistance.



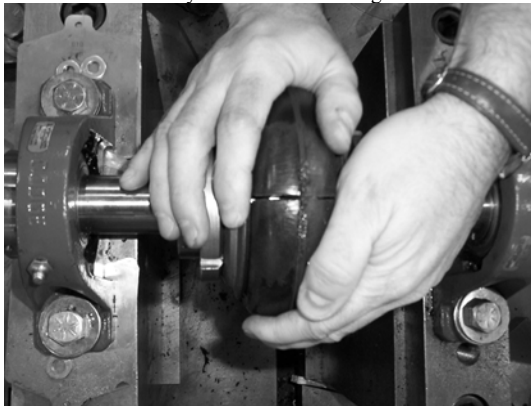
- (4) Repeat steps 2 and 3 until flange assembly becomes loose.

⚠ WARNING

Because of the possible Danger to persons or property from accidents which may result from the improper use of products, it is important that correct procedures be followed: Products must be used in accordance with the engineering information specified in the catalog. Proper installation, maintenance and operational procedures must be observed. The instructions in the instruction manual must be followed. Inspections should be made as necessary to assure safe operation under prevailing conditions. Proper guards and other suitable safety devices or procedures as may be desirable or as may be specified in safety codes should be provided, and are neither provided by Baldor Electric Company nor are the responsibility of Baldor Electric Company. This unit and its associated equipment must be installed, adjusted and maintained by qualified personnel who are familiar with the construction and operation of all equipment in the system and the potential hazards involved. When risk to persons or property may be involved, a holding device must be an integral part of the driven equipment beyond the speed reducer and output shaft.

Section 4 – Flexible Element Installation

- (1) If flanges are being re-used, clean flange mounting area as well as flexible element seats with a solvent, such as Xylene (Xylol), to remove grease, oil, and dirt from surfaces. A diluted soapy water solution may be applied to aid with element installation.
- (2) Loosen clamp ring nut so the element toe can seat within the clamp ring faces. Wrap flexible element around flanges as shown. Make sure the toe of the element is fully worked down into the flange and seats on the hub. To ensure proper seating, rap around the tire's outside diameter with a small mallet until split is closed. Make sure element is evenly centered on the flanges.



- (3) Hold split closed and tighten clamp ring nuts by hand. Using both hands, knead the tire pulling it toward the split and tighten clamp ring nuts further to hand-tight.
- (4) Tighten hex-head micro-mount screws to the torque shown in Table 6.
NOTE: The bottom of the hex-head cap screws should compress the lockwasher beneath the head. If the lockwasher is not compressed then the locknuts should be loosened 1/8 turn. To accomplish this, loosen hex-head cap screws and rotate locknut(s) 1/8 turn in the counterclockwise direction. Repeat item 4 above.

Table 6		
Micro-mount Screw		
Size	Size	Torque
50	M6 x 18mm	130 in-lbs
60	1/4-20 x 7/8	140 in-lbs
80	5/16-18 x 1-1/8	290 in-lbs

Section 4a – Flexible Element Replacement

- (1) Loosen hex-head micro mount screws.
- (2) Loosen clamp ring nuts by rotating counter clockwise.
- (3) Grasp one end of flexible element at the split and peel it off the flanges.
- (4) Clean clamping parts with a solvent, such as Xylene (Xylol), to remove grease, oil, wax and dirt from surfaces.
- (5) Realign coupling and install new flexible element according to Section 4.

Baldor Electric Company Headquarters

P.O. Box 2400, Fort Smith, AR 72902-2400 U.S.A., Ph: (1) 479.648.5792, Fax (1) 479.648.5792, International Fax (1) 479.648.5895

Baldor - DODGE/Reliance

6040 Ponders Court, Greenville, SC 29615-4617 U.S.A., Ph: (1) 864.297.4800, FAX: (1) 864.281.2433

5/07 Copyright © 2007 Baldor Electric Company All Rights Reserved. Printed in USA.

This material is not intended to provide operational instructions. Appropriate instruction manuals and precautions should be studied prior to installation, operation or maintenance of equipment.



Free Manuals Download Website

<http://myh66.com>

<http://usermanuals.us>

<http://www.somanuals.com>

<http://www.4manuals.cc>

<http://www.manual-lib.com>

<http://www.404manual.com>

<http://www.luxmanual.com>

<http://aubethermostatmanual.com>

Golf course search by state

<http://golfingnear.com>

Email search by domain

<http://emailbydomain.com>

Auto manuals search

<http://auto.somanuals.com>

TV manuals search

<http://tv.somanuals.com>