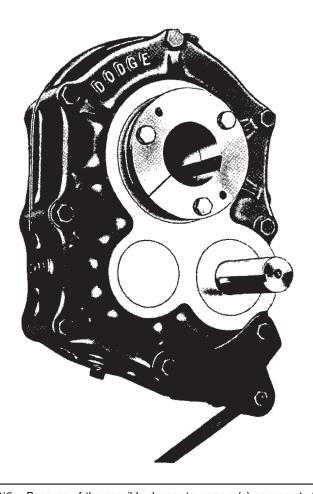
Parts Replacement Manual

For

DODGE® TORQUE-ARM™ Speed Reducers Straight Bore & Taper Bushed



TXT815 - TXT825 SIZES: TXT915 - TXT926 TXT1015 - TXT1024

WARNING: Because of the possible danger to persons(s) 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 operation procedures must be observed. The instructions in the instruction manuals 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 nor are the responsibility of Baldor Electric. 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 output shaft.



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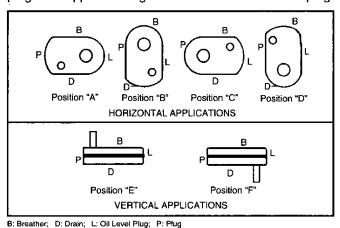


INSTALLATION

- 1. Replace the plastic plugs that protect the threaded holes in the reducer housing with the eyebolt supplied with the reducer.
- 2. Determine the running position of the reducer. (See Fig. 1.) Note that the reducer is supplied with either 4 or 7 plugs; 4 around the sides for horizontal installations and 1 on each face for vertical installations. These plugs must be arranged relative to the running positions as follows:

Horizontal Installations—Install the magnetic drain plug in the hole closest to the bottom of the reducer. Throw away the tape that covers the filler/ventilation plug in shipment and install plug in topmost hole. Of the 3 remaining plugs on the sides of the reducer, the lowest one is the minimum oil level plug. If output rpm is lower than 10, consult factory for oil level.

Vertical Installations—Install the filler/ventilation plug in the hole provided in the top face of the reducer housing. Use the hole in the bottom face for the magnetic drain plug. Of the 5 remaining holes on the sides of the reducer, use a plug in the upper housing half for the minimum oil level plug.



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Fig. 1 - Mounting Positions

The running position of the reducer in a horizontal application is not limited to the four positions shown in Figure 1. However, if running position is over 20° in positions "B" and "D" or 5° in positions "A" and "C" either way from sketches, the oil level plug cannot be safely used to check the oil level, unless during the checking the torque arm is disconnected

shown in Figure 1. Because of the many possible positions of the reducer, it may be necessary or desirable to make special adaptions using the lubrication fitting holes furnished along with other standard pipe fittings, stand pipes and oil level gages as required.

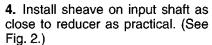
3. Mount reducer on driven shaft as follows:

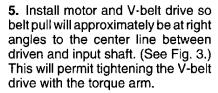
WARNING

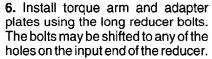
To ensure that drive is not unexpectedly started, turn off and lock out or tag power source before proceeding. Failure to observe these precautions could result in bodily injury.

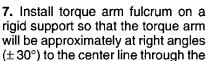
For Straight Bore: Mount reducer on driven shaft as close to bearing as practical. If bushings are used, assemble bushing in reducer first. A set of bushings for one reducer consists of one keyseated bushing and one plain bushing. Extra length setscrews are furnished with the reducer. Driven shaft should extend through full length of speed reducer. Tighten both setscrews in each collar.

For Taper Bushed: Mount reducer on driven shaft per instruction sheet No. 499629 packed with tapered bushings.









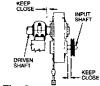


Fig.

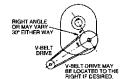


Fig. 3

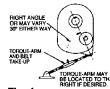


Fig. 4

driven shaft and the torque arm anchor screw. (See Fig. 4.) Make sure that there is sufficient take-up in the turnbuckle for belt tension adjustment when using V-belt drive.

LUBRICATION

Caution: Reducer is shipped without oil. Add the proper amount of oil before running.

and the reducer is swung to within 20° of the positions

Use a high grade petroleum base, rust and oxidation inhibited (R & O) gear oil—see tables. Follow instructions on reducer nameplate, warning tags, and in the installation manual.

Under average industrial operating conditions, the lubricant should be changed every 2500 hours of operation or every 6 months, whichever occurs first. Drain reducer and

CAUTION

Extreme pressure (EP) lubricants are not recommended for average operating conditions.

flush with kerosene, clean magnetic drain plug and refill to proper level with new lubricant.

Caution: Too much oil will cause overheating and too little will result in gear failure. Check oil level regularly.

Under extreme operating conditions, such as rapid rise and fall of temperature, dust, dirt, chemical particles, chemical fumes, or oil sump temperatures above 200°F, the oil should be changed every 1 to 3 months depending on severity of conditions.

WARNING

Do not use EP oils or oils containing slippery additives such as graphite or molybdenum disulphide in the reducer when backstop is used. These additives will destroy sprag action.

Table 1 — Oil Volumes

		·				Volum	e of Oil	Requir	ed to F	ill Redu	cer to C	il Leve	l Plug					
	+1	Positior	ı A	†!	Position	ı B	†	Position C † Position D		n D	D † F		† Position E			† Position F		
Reducer Size	Fluid Ounces (Approx)	Quarts (Approx)		Fluid Ounces (Approx)	Quarts (Approx)		Fluid Ounces (Approx)	Quarts (Approx)		Fluid Ounces (Approx)	Quarts (Approx)		Fluid Ounces (Approx)	Quarts (Approx)		Fluid Ounces (Approx)		Liters (Approx)
TXT815 TXT825	272	81/2	8.0	352	11	10.41	336	101/2	9.9	272	81/2	8.0	612	191/8	18.10	612	191/8	18.10
TXT915 TXT926	416	13	12.2	416	13	12.30	400	121/2	11.8	456	141/4	13.5	812	25 ³ / ₈	24.01	812	253/8	24.01
TXT1015 TXT1024	736	23	21.8	448	14	13.25	504	15 ³ / ₄	14.9	600	183/4	17.7	1312	41	38.80	1312	41	38.80

[†] Refer to Fig. 1 on page 2 for mounting positions.

Note: If reducer position is to vary from those described in paragraph 2, either more or less oil may be required. Consult factory.

Table 2 — Minimum Oil Recommendations for Average Operating Conditions

Lubrication Recommendations — ISO Grades for Ambient Temperatures of 15° to 60°

Output						В	educ	er Si	ze					
RPM	1	2	3	4	5	6	7	8	9	10	12	13	14	15
301-400	220	220	150	150	150	150	150	150	150	150	150	150	150	150
201-300	220	220	150	150	150	150	150	150	150	150	150	150	150	150
151-200	220	220	150	150	150	150	150	150	150	150	150	150	150	150
126-150	220	220	220	150	150	150	150	150	150	150	150	150	150	150
101-125	220	220	220	220	150	150	150	150	150	150	150	150	150	150
81-100	220	220	220	220	220	150	150	150	150	150	150	150	150	150
41-80	220	220	220	220	220	150	150	150	150	150	150	150	150	150
11-40	220	220	220	220	220	220	220	220	220	220	150	150	150	150
1-10	220	220	220	220	220	220	220	220	220	220	220	220	220	220

Below - 23°F call application engineering.

ISO Grades for Ambient Temperatures of 50° to 125° Output Reducer Size RPM 6 7 8 9 10 12 13 14 15 301-400 320 201-300 320 320 220 |220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 151-200 | 320 | 320 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 126-150 | 320 | 320 | 320 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 101-125 | 320 | 320 | 320 | 320 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 81-100 320 320 320 41-80 |320 | 320 | 320 | 320 | 320 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 |

320 320 320 320 320 320 320 220

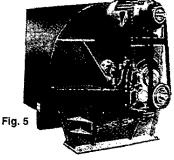
220

220 220

Lubrication Recommendations -

20°F to -22°F use Mobil SHC 627. Above 125°F use Mobil SHC 634.

320 320



Note: Belt guard removed for photographic purposes

Warning: Do not operate if belt guard is not in place.

MOTOR MOUNTS

The motor mount must be installed on output end of reducer as shown in Figure 5. Note: The T-A motor mount cannot be used in applications requiring the use of TRI-MATIC® overload release.

Remove two or three (as required) housing bolts on output end of reducer. Place the motor mount in position and install the longer housing bolts supplied with the motor mount. Tighten bolts to torque specified in Table 3.

Install motor, drive sheave and driven sheave so that driven sheave is as close to the reducer housing as practical. Install V-belt and tension with the four adjusting screws provided on T-A motor mount.

Check all bolts to see that they are securely tightened.

11-40

1-10

320

GUIDELINES FOR TORQUE-ARM REDUCER LONG-TERM STORAGE

During periods of long storage, or when waiting for delivery or installation of other equipment, special care should be taken to protect a gear reducer to have it ready to be in the best condition when placed into service.

By taking special precautions, problems such as seal leakage and reducer failure due to the lack of lubrication, improper lubrication quantity, or contamination can be avoided. The following precautions will protect gear reducers during periods of extended storage:

Preparation

- 1. Drain the oil from the unit. Add a vapor phase corrosion inhibiting oil (VC1-105 oil by Daubert Chemical Co.) in accordance with Table 3.
- 2. Seal the unit air tight. Replace the vent plug with a standard pipe plug and wire the vent to the unit.
- 3. Cover the shaft extension with a waxy rust preventative compound that will keep oxygen away from the bare metal (Non-Rust X-110 by Daubert Chemical Co.).
- 4. The instruction manuals and lubrication tags are paper and must be kept dry. Either remove these documents and store them inside or cover the unit with a durable waterproof cover which can keep moisture away.

- **5.** Protect the reducer from dust, moisture, and other contaminants by storing the unit in a dry area.
- **6.** In damp environments, the reducer should be packed inside a moisture-proof container or an envelop of polyethylene containing a desiccant material. If the reducer is to be stored outdoors, cover the entire exterior with a rust preventative.

When Placing the Reducer into Service

- 1. Assemble the vent plug into the proper hole
- 2. Clean the shaft extensions with a suitable solvent.
- 3. Fill the unit to the proper oil level using a recommended lubricant. The VCI oil will not affect the new lubricant.
- 4. Follow the installation instructions provided in this manual.

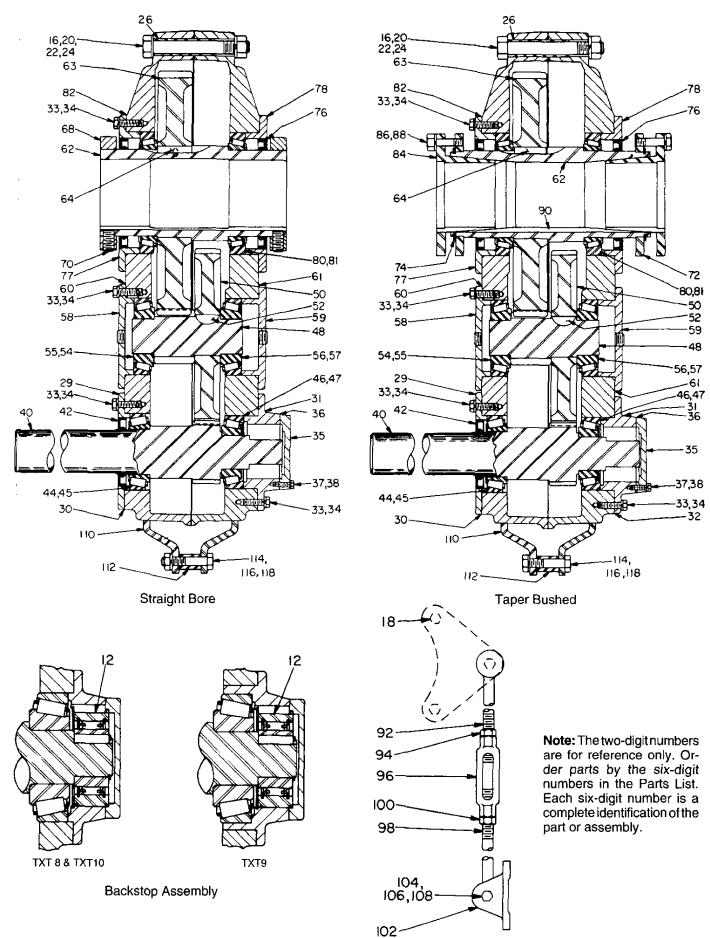
Table 3—Quantities of VCI #105 Oil

Case Size	Quarts or Liters
TXT8	.75
TXT9	1.0
TXT10	1.5

VCI #105 & #10 are interchangeable. VCI #105 is more readily available.

[▲] U.S. Measure: 1 quart = 32 fluid ounces = .94646 liters.

PARTS FOR TXT8 thru TXT10 STRAIGHT BORE & TAPER BUSHED SPEED REDUCERS



Refer-		No.	TXT8	TXT9	TXT10	Refer-			No.	TXT8	ТХТ9	TXT10
ence	Name of Part	Reg'd.	Part No.	Part No.	Part No.	ence	Name of Pa	rt	Reg'd.	Part No.	Part No.	Part No.
12	Backstop Assembly	1	249260	249260	250260	\Box	OUTPUT HUB ASSE	MBLY★	†			
	HOUSING	1	248180	249160	250174		Straight Bore		1	390993	390159	390160
	Air Vent with Bushing	1	390061	390061	390061	l i	Taper Bushed] 1	390944	390949	390954
16	Housing Bolt	Δ	411499	411500	411502	62*	^Output Hub—		1 .			l
18	Housing Bolt—Adapter	2	411502	411502	411506		Straight Bore		1	248332	250090	250008 1 272241
20	Lockwasher	ū	419016	419016	419016	63*	Taper Bushed *Output Gear		1 1	272036 248215	249140	250007
22	Plain Washer	2	419082	419082	419082	64*	*Output Gear Key &		'	240213	021704	250001
24	Hex Nut	ū	407095	407095	407095	"	Roll Pin		2	390112	390112	390113
26	Dowel Pin Pipe Plug	2	420128 430035	420128 430035	420132 430035	i i	Max Bore Key		1 1	246258	249255	250270
*	Fipe Flug Magnetic Plug	1	430035	430035	430035	68	Output Hub Collar ♦		2	248209	249209	250009
29	Input Shaft Seal Carrier	1	258023	249211	249211	70	Collar Screw ◆		4	400190	400194	400194
30*	Input Shaft Bearing Shim Pack	2 Sets ±	390038	390168	390168	72	Bushing Back-up Plat	te 🔳	2	272037	272082	272242
31	Backstop Carrier	1	258022	249222	250022	74	Retaining Ring		2	421098	421097	421069
32	Backstop Carrier Gasket	i		248216	248216		Output Hub Seal Care	rier—	١.		1	
33	Carrier and Cover Screws	48	411408	411408	411408	77	Input Side		1	258021	249221 249220	250011 250011
34	Lockwasher	48	419011	419011	419011	78	Backstop Side Output Hub Bearing		<u>'</u>	258020	249220	250011
35	Backstop Cover	1	248010	249015	250012	80*	Cone		2	402147	402160	402168
37	Backstop Cover Screw	6	411402	411402	411402	81*	Cup		2	4031 05	1	4031 1 6
38	Lockwasher	6	419009	419009	419009	82*	Output Hub Shim Pac	ck	2 Sets †	390048	390171	390172
40*	Input Shaft 15:1 Ratio	1	248370	272074	250300		SEAL KIT★ *		1	248340	249340	272460
	with Pinion § Ratio	1	248371	272106	250004	36*	*Backstop Cover Gas	sket	1 1	246220	248220	248220
	Input Shaft Key Input Shaft Bearing—	1	443133	443123	443123	42*	^Input Shaft Seal		1	248211	248211	248211
1	Input Side	ĺ				76*	◆Output Hub Seal		2	258019	249210	250010
44*	Cone	1	402098	402114	402114	*	RTV Sealant, Tube		1	485044	465044	465044
45*	Cup	1	403072	403080	403080			215/16" Bore	1	272048		
l l	Input Shaft Bearing—							33/16" Bore	1 1	272045		
. 1	Backstop Side					ا ہم ا	DUOLINO	37/16" Bore	1 1	272032	272056	070014
46*	Cone	1	402097	402107	402112	84	BUSHING ASSEMBLY★■	315/16" Bore 43/16" Bore	['1	272033 272034	272077 272078	272214 272237
47*	Cup	1	403072	403076	403080		AGGENDET X =	47/16" Bore	1	272035	272079	272238
	COUNTERSHAFT 15:1 Ratio	1	391184	390124	390983			4 ¹⁵ / ₁₆ " Bore	i	2.2000	272080	272239
48	ASSEMBLY★ § Ratio Countershaft with Pinion	1 1	391185 248002	390139 249006	390998 272249	l i		L 57/16" Bore	1			272240
50*	*First] '	246002	249000	212249	86	*Bushing Screw		6	411457	411484	411484
1 "	Reduction 15:1 Ratio	1	248213	249008	250301	88	<u></u> Lockwasher		6	419013	419014	419014
	Gear § Ratio	1	248214	249005	250005			2 ¹⁵ / ₁₆ " Bore	1	443247		
52*	≜ Key	2	248218	248218	248218	li		33/16" Bore	1	443247		
	Countershaft Bearing-			!				37/16" Bore	1	443171	443249	
1	Input Side		}			90	[≜] Key, Bushing	315/16" Bore 43/16" Bore	1 1	443173 443174	272119	443192 443192
54*	Cone	1	402057	402109	402232		to Shaft	47/16 Bore 47/16" Bore	;	443174	272066	443192
55*	Cup Countershaft Bearing	1	403143	403078	402231		io onuit	4 ¹⁵ / ₁₆ " Bore	1		443161	443194
	Backstop Side							5 ⁷ / ₁₆ " Bore	1			443195
56*	Cone	1	402148	402109	402232	*	≜Key, Bushing to			l		l
57*	Cup	1	4031 06	403078	402231	igsquare	Output Hub		10	443162		443191
58	Countershaft Bearing Cover—					_	TORQUE-ARM ASSE	EMBLY★	1 1	390129	390129	390129
	Input Side	1	248223	249225	272251	92	*Rod End		1 1	271050	271050	271050
59	Countershaft Bearing Cover—			1		94	ATurnbuckle		1 1	407104 271051	407104 271051	407104 271051
ЩЩ	Backstop Side	1	248373	249224	250245	96 98	ATurnbuckte AExtension		1	271051	1	271051
60*	Countershaft Bearing	1	ĺ	[1	100	*L.H. Hex Nut		1	407250	407250	407250
	Shim Pack—		001100	000400	200575	102	*Fulcrum		;	271054	271054	271054
100	Input Side	▼ Sets‡	391182	390168	390575	104	*Fulcrum Screw		i	411516	1	411516
61 *	Countershaft Bearing	1				106	*Lockwasher		1	419020	419020	419020
]	Shim Pack— Backstop Side	Sote +	390419	390168	390575	108	AHex Nut		1	407099	407099	407099
[Packatoh Olde	V 0510 4	000718	550,00	220213		ADAPTER ASSEMBL	_Y <u>★</u>	1	248110	249110	250110
]			Ì			110	Adapter Plate		2	272053		250041
		İ				112	*Adapter Bushing		1 1	271046	1	211046
[[114	*Adapter Bolt		1 1	411510	1	411512
j j		ļ	ļ] .		116	*Lockwasher		1 1	419020	I	419020
		L		L		118	*Hex Nut		_ 1	407099	407099	407099

[★] Includes parts listed immediately below marked "A." Housing assembly also includes a two-piece housing. Bushing assembly includes 2 bushings.

A Parts Marked "A" make up the assemblies under which they are listed.

Not shown on drawing.

Ratios are 24:1 on TXT10; 25:1 on TXT8; 26:1 on TXT9.

A 9 required for sizes TXT8 & TXT9; 11 required for size TXT10.

11 required for sizes TXT8 & TXT9; 13 required for TXT10.

3 required for size TXT8; 2 required for size TXT9; 4 required for size TXT10.

*Recommended spare parts.

^{♥2} sets required for size TXT8; 1 set required for sizes TXT9 & TXT10.

‡ One set consists of one each of the shims listed immediately below marked "†."

† See last paragraph under "ORDERING PARTS."

<sup>Straight bore only.

■ Taper bushed only.

Size TXT8 for 2¹⁵/₁₆" thru 3⁷/₁₆" bores only; size TXT9 for 3⁷/₁₆" thru 4³/₁₆" bores only; size TXT10 for 3¹⁵/₁₆" thru 4⁷/₁₆" bores only.</sup>

REPLACEMENT OF PARTS

Using tools normally found in a maintenance department, a DODGE TORQUE-ARM Speed Reducer can be disassembled and reassembled by careful attention to the instructions following.

Cleanliness is very important to prevent the introduction of dirt into the bearings and other parts of the reducer. A tank of clean solvent, an arbor press, and equipment for heating bearings and gears should be available for shrinking these parts on shafts.

Our factory is prepared to repair reducers for customers who do not have proper facilities or who for any reason desire factory service.

The oil seals are of the rubbing type and considerable care should be exercised during disassembly and reassembly to avoid damage to surfaces on which the seals rub.

The keyseat in the input shaft as well as any sharp edges on the output hub should be covered with tape or paper before disassembly or reassembly. Also be careful to remove any burrs or nicks on surfaces of the input shaft or output hub before disassembly or reassembly.

ORDERING PARTS:

When ordering parts for reducer, specify reducer size number, reducer serial number, part name, part number and quantity.

It is strongly recommended that when a pinion or gear is replaced, the mating gear or pinion also be replaced.

If the large gear on the output hub must be replaced, it is recommended that an output hub assembly of a gear assembled on a hub be ordered to secure undamaged surfaces on the output hub where the oil seals rub. However, if it is desired to use the old output hub, press the gear and bearing off and examine the rubbing surface under the oil seal carefully for possible scratching or other damage resulting from the pressing operation. To prevent oil leakage at the oil seals, the smooth surface of the output hub must not be damaged.

If any parts must be pressed from a shaft or from the output hub, this should be done before ordering parts to make sure that none of the bearings or other parts are damaged in removal. Do not press against outer race of any bearing.

Because old shaft oil seals may be damaged in disassembly, it is advisable to order replacements for these parts.

REMOVING REDUCER FROM SHAFT:

WARNING: Remove all external loads from drive before removing or servicing drive or accessories.

WARNING

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

STRAIGHT BORE-

Loosen screws in both output hub collars. Remove the collar next to end of shaft. This exposes three puller holes in output hub to permit use of wheel puller. In removing reducer from shaft be careful not to damage ends of hub.

TAPER BUSHED-

- Remove bushing screws.
- 2. Place the screws in the threaded holes provided in the bushing flanges. Tighten the screws alternately and evenly until the bushings are free on the shaft. For ease of tightening screws make sure screw threads and threaded holes in bushing flanges are clean.
- 3. Remove the outside bushing, the reducer and then the inboard bushing.

DISASSEMBLY:

- 1. Remove retaining rings from output hub. Remove bushing back-up plates.
- 2. Remove all bolts from housing. Open housing evenly to prevent damage to parts inside.
- 3. Lift shaft, gear, and bearing assemblies from housing.
- **4.** Remove seals, bearing covers, seal carriers, backstop carrier and bearing cups from housing.

REASSEMBLY:

- 1. Output Hub Assembly: Heat gear to 325°F to 350°F to shrink onto hub. Heat bearing cones to 270°F to 290°F to shrink onto hub. Any injury to the hub surfaces where the oil seals rub will cause leakage, making it necessary to use a new hub.
- 2. Countershaft Assembly: Heat gear to 325°F to 350°F and bearing cones to 270°F to 290°F to shrink on shaft.
- 3. Input Shaft Assembly: Heat bearing cones to 270°F to 290°F to shrink on shaft.
- 4. Place a .010" shim on output hub seal carrier, countershaft cover and backstop carrier for right hand half of housing (as viewed in drawing). Place a 1/s" dia. bead of Dow Corning RTV732 sealant on the face around the l.D. of the shim (seal is to be between reducer housing and shim). Install right-hand carriers and cover in housing half and torque screws to torque values in Table 3. Place bearing cups in right-hand housing half. Make certain the cups are properly seated in housing and are pressed against carriers and cover. Place housing half on blocks to allow for protruding end of output hub.

CAUTION: If too much sealant is used it will run into bearing and too little sealant will result in an ineffective seal.

5. Mesh output hub assembly and countershaft assemblies together and place in housing half. Place input shaft assembly in housing half. Tap lightly with a soft hammer (rawhide, not a lead hammer) until bearings are properly seated in the housing.

- 6. Place a 1/8" dia. bead of Dow Corning RTV732 on the flange of the housing half. Place other half of housing (without covers or carriers installed), insert dowel pins, and draw together evenly to prevent damage to parts. The final wrench torque should be per Table 4.
- 7. Place output bearing cup in housing and tap in place. Install output seal carrier and draw down with two (2) bolts 180° apart to 50 inch pounds of torque, loosen bolts and retighten finger tight. Measure clearance between housing and carrier flange at each bolt and average. Add .010 to average and make-up shim pack. Install shim pack and torque down all seal carrier bolts to 360 in-lb. Use dial indicator to check end play. Add or remove shims until indicator reads .001" to .003".
- 8. Adjust the countershaft bearings using the same method as in step 7. The axial end play should be .001" to .003".
- 9. Again using the same procedure as in step 7, adjust the input shaft bearings to an end play of .002" to .003".
- 10. Total shim thickness per carrier or cover should not include more than .009" plastic shims. All other shims should be metal and each plastic shim should be inserted between two metal shims. Place 1/8" dia. bead of Dow Corning RTV732 sealant on face around the I.D. of the last shim and install the carriers or covers in the reducer housings. Torque carrier bolts to torque values in Table 4.
- 11. Extreme care should be used in installing seals to avoid damage due to contact with sharp edges of the keyseat in the input shaft and holes in the output hub. This danger of damage and consequent oil leakage can be decreased by covering the keyseat and the holes with paper or tape which can be removed after seals are in place. Chamfer or burr housing bore if end of bore is sharp or rough. Fill cavity between lips of seal with grease. Seals should be pressed or tapped with a soft hammer evenly into place in the housing, applying force only on the outer corner of the seals. A slight oil leakage at the seal may be evident during initial running in, but will disappear unless the seals have been damaged.

Table 4 — Torque Values

	Recommended Torque (lbins.)							
Reducer Size	Housing Bolts		Output Hub Seal Carrier Screws					
TXT8	1620	360	360	120				
TXT9	1620	360	360	120				
TXT10	1650	360_	360	120				

Table 5 — Manufacturers' Part Numbers For Replacement Output Hub Bearings

TORQUE-ARM	Output Hub Bearing					
Reducer Drive Size	DODGE Part Number	Timken Part Number_				
TXT815	402147	36690				
TXT825	403105	36620				
TXT915	402160	46790				
TXT925	403110	46720				
TXT1015	402168	67790				
TXT1025	403116	67720				

Timken Brg. Cone Cup

Table 6 — Manufacturers' Part Numbers For Replacement Countershaft Bearings

TORQUE-ARM Reducer		aft Bearing Side	Countershaft Bearing Adapter Side			
Drive Size	DODGE Part No.	Timken Part No.	DODGE Part No.	Timken Part No.		
TXT815	402057	JH211749	402148	39585		
TXT825	<u>403143</u>	JH211710	403106	39520		
TXT915	402109	655	402109	655		
TXT925	403078	_652A	403078	652A		
TXT1015	402232	JH415647	402232	JH415647		
TXT1025	402231	JH415610	402231	JH415610		

Table 7 — Manufacturers' Part Numbers For Replacement Input Shaft Bearings

TORQUE-ARM		Bearing Side	Input Bearing Adapter Side				
Reducer	DODGE	Timken	DODGE	Timken			
Size	Part No.	Part No.	Part No.	Part No.			
TXT815	402098	566	402097	565			
TXT825	403072	563	403072	563			
TXT915	402114	745A	402107	639			
TXT925	403080	742	403076	633			
TXT1015	402114	745A	402112	745S			
TXT1025	403080	742	403080	742			

Viscosity Classification Equivalents

