

PARTS REPLACEMENT MANUAL FOR DODGE® TORQUE-ARM™

Speed Reducers Straight Bore & Taper Bushed TXT/HXT 309A - 315A - 325A

TXT/HXT 409A - 415A - 425A TXT/HXT 509B - 515B - 525B TXT/HXT 609 - 615 - 625

TXT/HXT 709 - 715 - 725 TXT/HXT 305A TXT/HXT 405A TXT/HXT 505A TXT 605 TXT 705

These instructions must be read thoroughly before installing or operating this product.

INSTALLATION:

1. Use eyebolts or lifting lugs to lift reducer.
2. Determine the running positions 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 filter/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.

Vertical Installations - Install the filter/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.

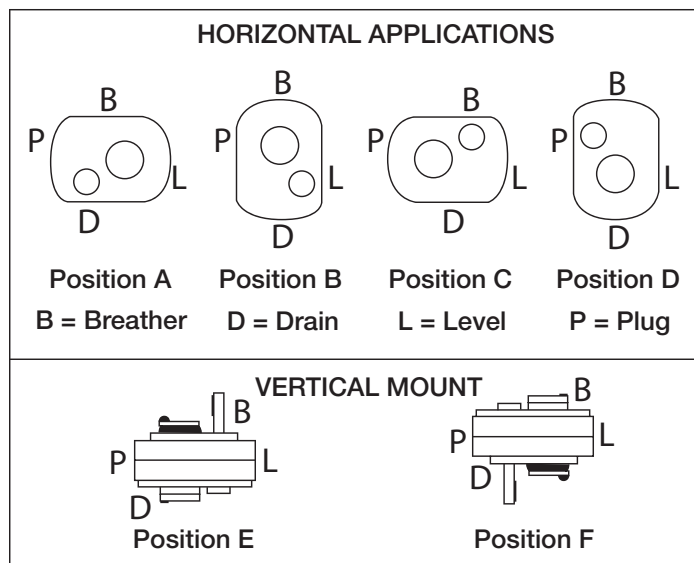


Fig. 1 – Mounting Positions

- Below 15 RPM output speed, oil level must be adjusted to reach the highest oil level plug (P).

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 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 output shaft.

The running position of the reducer in a horizontal application is not limited to the four positions shown in Fig. 1.

1. However, if running position is over 20° in position “B” & “D” or 5° in position “A” & “C”, either way from sketches, the oil level plug cannot be used safely to check the oil level, unless during the checking, the torque arm is disconnected and the reducer is swung to within 20° for position “A” & “C” or 5° for position “B” & “D” of the positions shown in Fig. 1. Because of the many possible positions of the reducer, it may be necessary or desirable to make special adaptations using the lubrication filling holes furnished along with other standard pipe fittings, stand pipes and oil level gauges as required.

2. 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 bushings 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.

3. Install sheave on input shaft as close to reducer as practical. (See Fig. 2)
4. Install motor and V-belt drive so belt will approximately be at right angles to the center line between driven and input shaft. (See Fig. 3) This will permit tightening the V-belt with the torque arm.
5. Install torque arm and adapter plates using the long reducer bolts. The bolts may be shifted to any of the holes on the input end of the reducer.
6. Install torque arm fulcrum on a flat and rigid support so that the torque arm will be approximately at right angles to the center line through the 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.

CAUTION: Unit is shipped without oil. Add proper amount of recommended lubricant before operating. Failure to observe this precaution could result in damage to or destruction of the equipment.

7. Fill gear reducer with recommended lubricant. See Table 1.



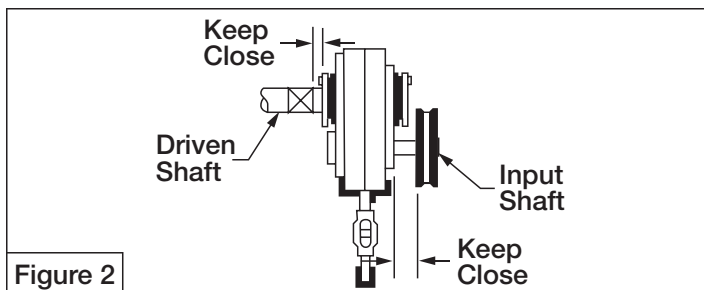


Figure 2

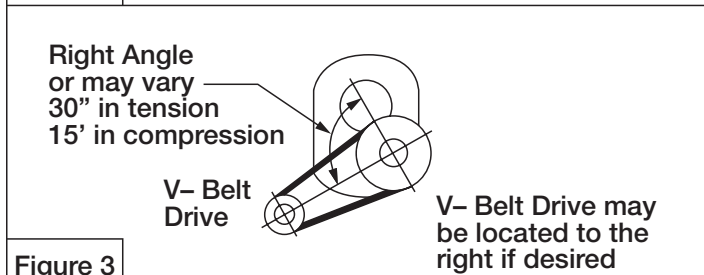


Figure 3

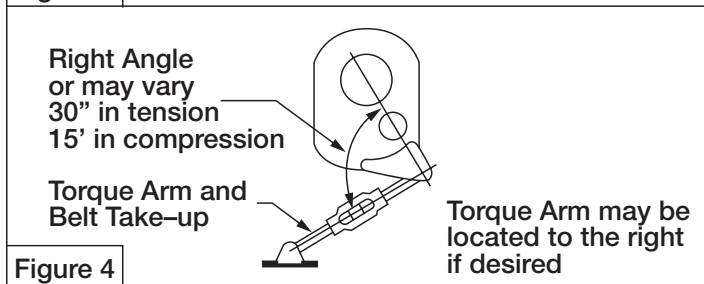


Figure 4

LUBRICATION

IMPORTANT: Because reducer is shipped without oil, it is necessary to add the proper amount of oil before running. Use a high-grade petroleum base rust and oxidation inhibited (R&O) gear oil - see tables. Follow instructions on reducer warning tags, and in the installation manual.

Under average industrial operating conditions, the lubricant should be changed every 2500 hours of operating or every 6 months, whichever occurs first. Drain reducer and flush with kerosene, clean magnetic drain plug and refill to proper level with new lubricant.

CAUTION: Extreme pressure (EP) lubricants are not recommended for average operating conditions. Failure to observe these precautions could result in bodily injury.

CAUTION: Too much oil will cause overheating and too little will result in gear failure. Check oil level regularly. Failure to observe this precaution could result in bodily injury.

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.

Table 1 - Oil Volumes *

Consult DODGE for proper oil level for reducers with backstops and which are mounted in C-position or D-position.

Reducer Size TXT/HXT	Approximate Volume of Oil Required to Fill Reducer to Oil Level Plug																	
	† Position A			† Position B			† Position C			† Position D			† Position E			† Position F		
	Oz.	▲ Qt.	L	Oz.	▲ Qt.	L	Oz.	▲ Qt.	L	Oz.	▲ Qt.	L	Oz.	▲ Qt.	L	Oz.	▲ Qt.	L
305A	28	.88	.83	48	1.50	1.42	44	1.38	1.30	44	1.38	1.30	80	2.50	2.37	100	3.13	2.96
309A 315A 325A	48	1.50	1.42	48	1.50	1.42	24	.75	.71	72	2.25	2.13	84	2.63	2.48	96	3	2.84
405A	48	1.50	1.42	72	2.25	2.13	68	2.13	2.01	60	1.88	1.77	128	4	3.79	166	4.88	4.62
409A 415A 425A	60	1.88	1.77	72	2.25	2.13	40	1.25	1.18	56	1.75	1.66	108	3.38	3.19	136	4.25	4.02
505A	108	3.38	3.19	136	4.25	4.02	124	3.88	3.67	120	3.75	3.54	248	7.75	7.33	288	9	8.52
509B 515B 525B	104	3.25	3.08	128	4	3.79	104	3.25	3.08	128	4	3.79	224	7	6.62	272	8.50	8.04
605	144	4.50	4.3	184	5.75	5.4	144	4.50	4.3	160	5	4.7	384	12	11.4	352	11	10.4
609 615 625	136	4.25	4.0	160	5	4.7	136	4.25	4.0	160	5	4.7	276	8.63	8.2	292	9.13	8.6
705	240	7.50	7.1	288	9	8.5	240	7.50	7.1	296	9.25	8.8	608	19	18	552	17.25	16.3
709 715 725	208	6.50	6.1	256	8	7.6	232	7.25	6.9	296	9.25	8.7	492	15.38	14.6	524	16.38	15.5

† Refer to Figure 1 for mounting positions.

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

Table 2 – Oil Recommendations
ISO Grades for Average Operating Conditions

Ambient Temperatures of 15°F thru 60°F	
OutputRPM	Reducer Size
TXT3A–7 HXT3A–7	TXT305A–705 HXT305A–505A
301–400	220
201–300	220
151–200	220
126–150	220
101–125	220
81–100	220
41–80	220
11–40	220
1–10	220

Ambient Temperatures of 50°F thru 125°F	
OutputRPM	Reducer Size
TXT3A–7 HXT3A–7	TXT305A–705 HXT305A–505A
301–400	320
201–300	320
151–200	320
126–150	320
101–125	320
81–100	320
41–80	320
11–40	320
1–10	320

Note: If reducer position is to vary from those shown in figure 1, either more or less oil may be required. Consult Dodge. If output is less than 15 RPM, consult Dodge.

- Below 15 RPM output speed, oil level must be adjusted to reach the highest oil level plug (P).

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 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 (VCI-105 oil by Daubert Chemical Co.) in accordance with Table 3.
2. Seal the unit airtight. 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 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 envelope 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 petroleum solvents.
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

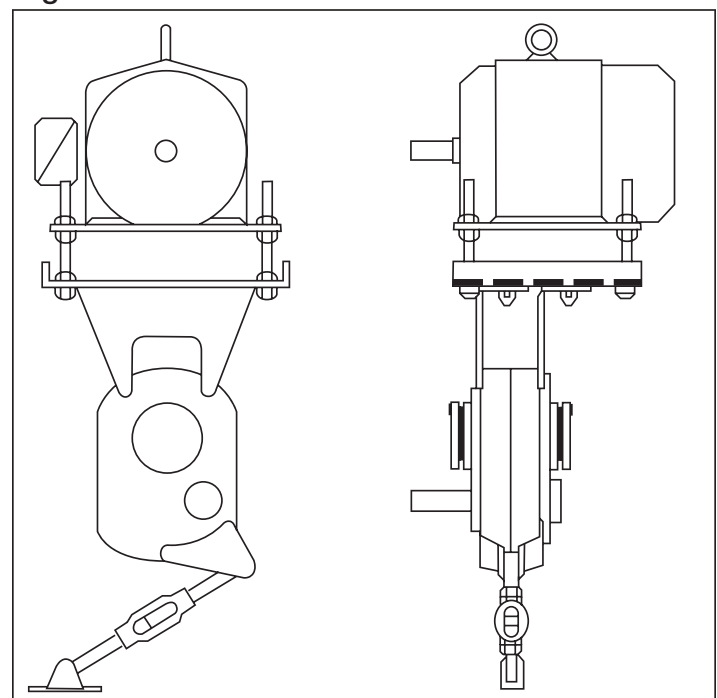
Size	Quarts or Liters
TXT / HXT 3A – 305A	.1
TXT / HXT 4A – 405A	.2
TXT / HXT 5B – 505A	.3
TXT / HXT6 – TXT605	.4
TXT / HXT7 – TXT705	.5

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

MOTOR MOUNTS

The motor mount must be installed on output end of reducer as shown in Figure 5. 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 4. Install motor, drive sheave, and driven sheave so that the driven sheave is as close to the reducer housing as practical. Install V-belt and tension with the four adjusting screws provided on the T-A M motor mount. Check all bolts to see that they are securely tightened.

Figure 5



WARNING: Belt guard removed for illustration purposes. Do not operate if belt guard is not in place.

REPLACEMENT OF PARTS

IMPORTANT: 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 (for shrinking these parts on shafts) should be available. 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 used during disassembly and reassembly to avoid damage to the surface which the seals rub on.

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 pinion or gear is replaced also.

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 output 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 shaft oil seals, the smooth surface of the output hub must not be damaged.

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

CAUTION: 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 the end of the shaft. This exposes three puller holes in the output hub to permit the use of a wheel puller. In removing the reducer from the shaft, be careful not to damage the ends of the hub.

Taper Bushed:

1. 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. Position the reducer on its side and remove all housing bolts. Drive dowel pins from housing. Gently tap the output hub and input shaft with a soft hammer (rawhide, not a lead hammer) to separate the housing halves. Open housing evenly to prevent damage to the parts inside.

2. Lift shaft, gear, and bearing assemblies from housing.
3. Remove seals from housing.

Reassembly:

1. Output Hub Assembly: Heat gear to 325°F to 350°F to shrink onto hub. Heat bearings 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: Shaft and pinion are integral. Press gear and bearings on shaft. Press against inner (not outer) race of bearings.
3. Input Shaft Assembly: Shaft and pinion are integral. Press bearings on shaft. Press against inner (not outer) race of bearings.
4. Drive the two dowel pins into place in the right-hand housing half. Apply RTV732 sealant to carriers for R.H. side(backstop side) of reducer. Install carriers and torque bolts per table 4.
5. Place R.H. housing half on blocks to allow for protruding end of output hub.
6. Install bearing cups in right-hand housing half, making sure they are properly seated.
7. Mesh output hub gear and small countershaft gear together and set in place in housing. Set input shaft assembly in place in the housing. Make sure bearing rollers (cones) are properly seated in their cups. set bearing cups for left-hand housing half in place on their rollers.
8. Clean housing flange surfaces on both halves, making sure not to nick or scratch flange face. Place a 1/8 bead of RTV732 sealant on flange face. (make sure RTV is placed between bolt holes and inside of flange face) Place other housing half into position and tap with a soft hammer (rawhide, not lead hammer) until housing bolts can be used to draw housing halves together. Torque housing bolts per torque values listed in table 4.

Table 4 – Recommended Torque Values

Reducer Size	Dry Torque (lb.-ft.)	
	Housing Bolts	Output Hub Seal Carrier Screws
TXT / HXT 305A & 3A	50–45	17–15
TXT / HXT 405A & 4A	50–45	30–27
TXT / HXT 505A & 5B	75–68	30–27
TXT605 & TXT / HXT 6	75–68	30–27
TXT705 & TXT / HXT 7	150–135	50–45

Reducer Size	Dry Torque (lb.-ft.)	
	C'shaft Bearing Cover Screws	Input Shaft Seal Carrier Screws
TXT / HXT 305A & 3A	17–15	17–15
TXT / HXT 405A & 4A	30–27	30–27
TXT / HXT 505A & 5B	30–27	30–27
TXT605 & TXT / HXT 6	30–27	30–27
TXT705 & TXT / HXT 7	50–45	50–45

9. Place output hub seal carrier in position without shims and install two carrier screws diametrically opposed. Torque each screw to 25 in.-lbs. Rotate the output hub to roll in the bearings and then torque each screw to 50 in.-lbs. Again turn output hub to roll in the bearings. With a feeler or taper gage, measure the gap between the housing and the carrier flange. To determine the required shim thickness, take the average of the two feeler gage readings. Remove carrier and install the required shims plus .002. Install carrier with shims and torque bolts per table 4. Rotate hub assy, tap lightly with rawhide mallet on end of hub, while rotating, to ensure bearings are seated. Using a dial indicator check end play of hub bearings, endplay should

be .001-.003. Repeat this process as necessary to obtain proper end play. Place a 1/8 diameter bead of RTV732 sealant inside the carrier at the shim I.D. and install carrier on reducer housing. Torque carrier bolts to value shown in Table 4.

10. Adjust the countershaft bearings using the same method as in step 8 above. The axial end play should be .001" to .003".
11. Again, using the same procedure as in step 8, adjust the input shaft bearings, except the axial end play should be .002" to .004".
11. Using gaskets install input shaft cover and counter shaft cover to right-hand housing half. Install input and output seals. Extreme care should be used when installing seals to avoid damage due to contact with sharp edges on the input shaft or output hub. The possibility of damage and consequent oil leakage can be decreased by covering all sharp edges with tape prior to seal installation. Fill cavity between seal lips with grease. Seals should be pressed or tapped with a soft hammer evenly into place in the carrier, applying pressure only on the outer edge of the seals. A slight oil leakage at the seals may be evident during initial running, but should disappear unless seals have been damaged.
12. Install bushing backup plates and snap rings on Taper Bushed reducers or hub collars on straight bore reducers.

Table 5 – Manufacturers' Part Numbers for Replacement Output Hub Bearings

Torque-Arm Reducer Drive Size	Output Bearing	
	Dodge Part No.	Timken Part No.
TXT/HXT 305A	402272 403127	LM814849 LM814810
TXT/HXT 309A TXT/HXT 315A TXT/HXT 325A	402272 403127	LM814849 LM814810
TXT/HXT 405A	402268 403163	498 492A
TXT/HXT 409A TXT/HXT 415A TXT/HXT 425A	402268 403163	498 492A
TXT/HXT 505A	402193 403016	42381 42584
TXT/HXT 509B TXT/HXT 515B TXT/HXT 525B	402193 403016	42381 42584
TXT605	402050 403140	JM822049 JM822010
TXT/HXT 609 TXT/HXT 615 TXT/HXT 625	402050 403140	JM822049 JM822010
TXT705	402058 403111	48290 48220
TXT/HXT 709 TXT/HXT 715 TXT/HXT 725	402058 403111	48290 48220

Table 6 – Manufacturers' Part Numbers for Replacement Countershaft Bearings

Torque-Arm Reducer Drive Size	Countershaft Bearing Input Side	
	Dodge Part No.	Timken Part No.
TXT/HXT 309A TXT/HXT 315A TXT/HXT 325A	402273 403094	15102 15245
TXT/HXT 409A TXT/HXT 415A TXT/HXT 425A	402000 403000	M86649 M86610
TXT/HXT 509A TXT/HXT 515A TXT/HXT 525A	402203 403027	2789 2720
TXT/HXT 609 TXT/HXT 615 TXT/HXT 625	402054 403159	HM807040 HM807010
TXT/HXT 709 TXT/HXT 715 TXT/HXT 725	402256 403053	JHM807045 JHM807012

Table 6 cont'd – Manufacturers' Part Numbers for Replacement Countershaft Bearings

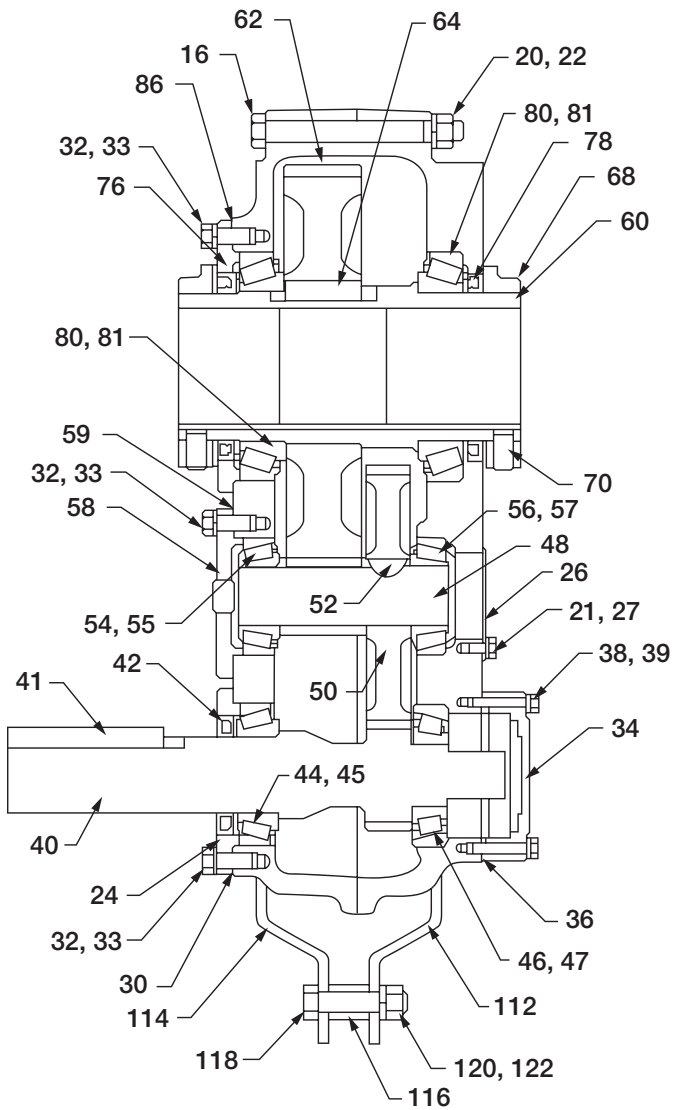
Torque-Arm Reducer Drive Size	Countershaft Bearing Output Side	
	Dodge Part No.	Timken Part No.
TXT/HXT 309A TXT/HXT 315A TXT/HXT 325A	402273 403094	15102 15245
TXT/HXT 409A TXT/HXT 415A TXT/HXT 425A	402000 403000	M86649 M86610
TXT/HXT 509A TXT/HXT 515A TXT/HXT 525A	402203 403027	2789 2720
TXT/HXT 609 TXT/HXT 615 TXT/HXT 625	402052 403142	HM803149 HM803110
TXT/HXT 709 TXT/HXT 715 TXT/HXT 725	402256 403053	JHM807045 JHM807012

Table 7 – Manufacturers' Part Numbers for Replacement Input Bearings

Torque-Arm Reducer Drive Size	Input Bearings Input Side	
	Dodge Part No.	Timken Part No.
TXT/HXT 305A	402190 403132	LM603049 LM603011
TXT/HXT 309A TXT/HXT 315A TXT/HXT 325A	402204 403139	LM48548A LM48510
TXT/HXT 405A	402179 403006	368 362A
TXT/HXT 409A TXT/HXT 415A TXT/HXT 425A	402280 403027	2788 2720
TXT/HXT 505A	402270 403026	45289 45220
TXT/HXT 509B TXT/HXT 515B TXT/HXT 525B	402144 403104	28579 28521
TXT605	402053 403106	39580 39520
TXT/HXT 609 TXT/HXT 615 TXT/HXT 625	402196 403091	395A 3920
TXT705	402057 403143	JH211749 JH211710
TXT/HXT 709 TXT/HXT 715 TXT/HXT 725	402150 403106	39590 39520

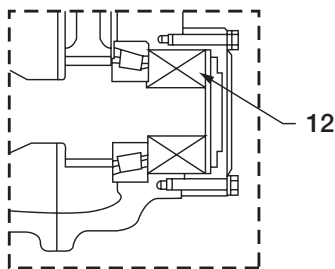
Torque-Arm Reducer Drive Size	Input Bearings Output Side	
	Dodge Part No.	Timken Part No.
TXT/HXT 305A	402271 403101	02872 02820
TXT/HXT 309A TXT/HXT 315A TXT/HXT 325A	402273 403094	15102 15245
TXT/HXT 405A	402285 403125	339 332
TXT/HXT 409A TXT/HXT 415A TXT/HXT 425A	402142 403102	26118 26283
TXT/HXT 505A	402266 403073	350A 352
TXT/HXT 509B TXT/HXT 515B TXT/HXT 525B	402266 403073	350A 352
TXT605	402123 403009	3975 3926
TXT/HXT 609 TXT/HXT 615 TXT/HXT 625	402197 403091	396 3920
TXT705	402078 403034	JH307749 JH307710
TXT/HXT 709 TXT/HXT 715 TXT/HXT 725	402088 403047	455 452

Parts for TXT/HXT 3A, 4A & 5B Straight Bore and Taper Bushed Speed Reducers

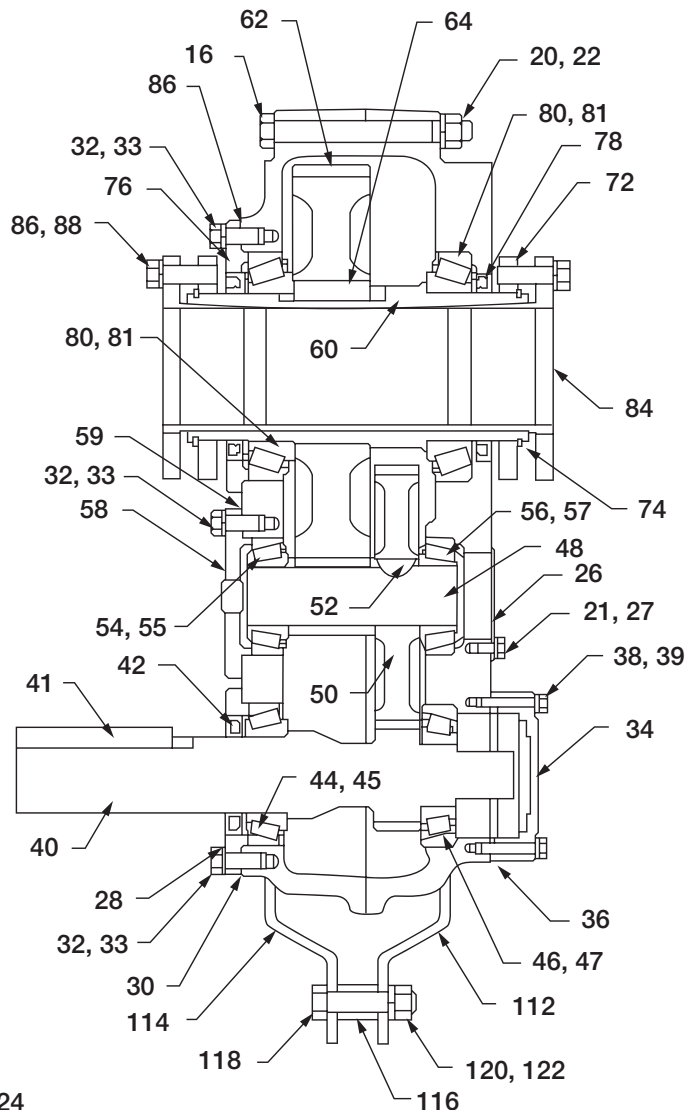


STRAIGHT BORE

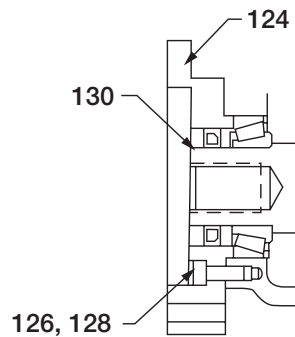
Note: The two digit numbers are for reference only. Order parts by the six digit number in the parts list each six digit number is a complete identification of the part or assembly.



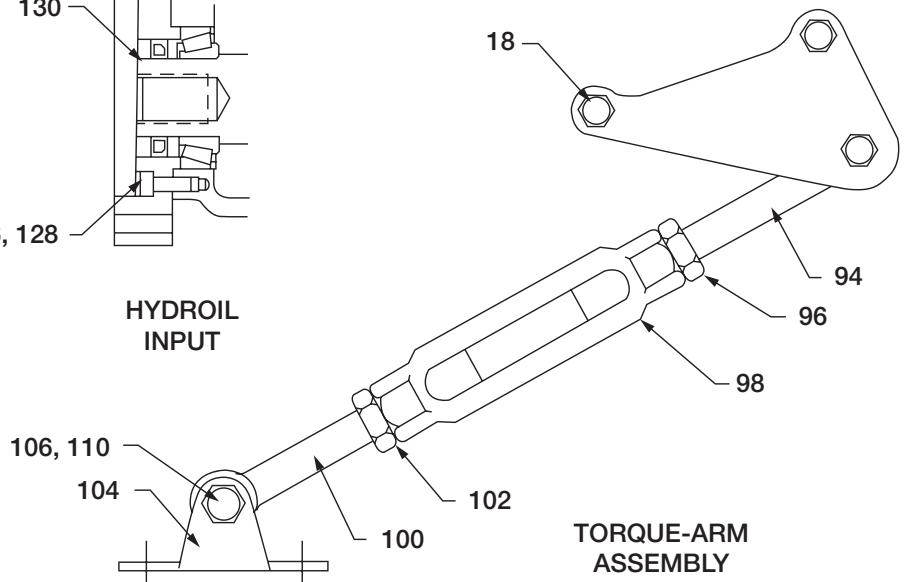
BACKSTOP ASSEMBLY



TAPER BUSHED



HYDROIL INPUT



TORQUE-ARM ASSEMBLY

Ref.	Name of Part	No. Req'd	TXT3A HXT3A	TXT4A HXT4A	TXT5B HXT5B
12	Backstop Assembly	1	243106	244106	245154
13	Housing *	1	243534	244567	245587
14	Air Vent	1	241237	241237	245237
16	Housing Bolt	6	411440	411442	411464
18	Adapter Housing Bolt	2	411442	411444	411466
19	Washer †	4	419094	419094	419096
20	Lock Washer	6	419012	419012	419013
22	Hex Nut	8	407089	407089	407091
24	Dowel Pin	2	420055	420055	420110
25	Pipe Plug	2	430031	430031	430033
26	Magnetic Plug	1	430060	430060	430062
21	C'shaft Bearing Cover (Backstop Side)	1	243559	244574	244574
26	C'shaft Cover Screw	4	416524	411035	411394
27	Lock Washer	4	419007	419009	419009
28	Input Shaft Seal Carrier	1	243543	244577	245597
30*	Imp Shft Brg Shim Pack	2 ‡	389704	389711	389732
32	Carrier/Cover Screws	+	411390	411407	411407
33	Lock Washer	+	419010	419011	419011
34	Backstop Cover	1	243560	244493	245547
38	Backstop Cover Screw	4	416524	411035	411406
39	Lock Washer	4	419007	419009	419009
40*	Input Shaft 9:1 Ratio with Pinion 15:1 Ratio 25:1 Ratio	1 1 1	243549 243550 243551	244579 244580 244581	245599 245600 245601
41	Input Shaft Key	1	443032	443082	443113
42*	Input Bearing Kit *	1	389587	389590	389594
44*	▲ Input Shaft Brg Cone	1	402204	402280	402144
45*	▲ (Input Side) Cup	1	403139	403027	403104
46*	▲ Input Shaft Brg Cone	1	402273	402142	402266
47*	▲ (Backstop Side) Cup	1	403094	403102	403073
48	Countershaft 9:1 Ratio Assembly * 15:1 Ratio 25:1 Ratio	1 1 1	389729 389700 389701	389730 389707 389708	389731 389714 389715
50*	▲ C'shaft with Pinion	1	243555	244590	245596
51*	▲ First 9:1 Ratio Reduction 15:1 Ratio Gear 25:1 Ratio	1 1 1	243237 243238 243239	244482 244214 244212	245582 245214 245212
52*	▲ Key	1	243215	244215	244215
53*	Countershaft Brg Kit *	1	389588	389591	389595
54*	▲ Countershaft Brg Cone	1	402273	402000	402203
55*	▲ (Input Side) Cup	1	403094	403000	403027
56*	▲ Countershaft Brg Cone	1	402273	402000	402203
57*	▲ (Backstop Side) Cup	1	403094	403000	403027
58	C'shaft Brg Cover (Input Shaft)	1	243545	244578	245594
59*	C'shaft Brg Shim Pack	2 ‡	389705	389712	389718
60*	Output Hub Straight Assembly * Tapered	1 1	389702 389703	389709 389710	389716 389717
61*	▲ Output Hub Straight Tapered	1 1	243557 243556	244589 244588	245591 245590
62*	▲ Output Gear	1	243570	244188	245186
64*	▲ Output Gear Key	1	389733	391015	391026
68	Output Hub Collar	2	243572	244658	245598
70	Collar Screw	4	400098	400150	400154
72	Bushing Backup Plate ■	2	243308	244099	245114
74	Retaining Ring ■	2	421109	421108	421107
76	Output Hub Seal Carrier (Input Side)	1	243547	244591	245592
77*	Output Hub Brg Kit *	1	389589	389592	389596
80*	▲ Output Hub Cone	2	402272	402268	402193
81*	▲ Bearing Cup	2	403127	403163	403016
82*	Output Hub Bearing Shim Pack	2 ‡	389706	389713	389719

Ref.	Name of Part	No. Req'd	TXT3A HXT3A	TXT4A HXT4A	TXT5B HXT5B
36*	Seal Kit *	1	389720	389721	389722
42*	▲ Backstop Cvr Gasket	1	243561	244593	245220
42*	▲ Input Shaft Seal	1	243558	244524	245501
78*	▲ Output Hub Seal	2	243578	244673	245545
§	RTV Sealant, Tube	1	465044	465044	465044
84	Bushing 1-5/16" Bore Assembly 1-3/8" Bore * 1-7/16" Bore 1-1/2" Bore 1-5/8" Bore 1-11/16" Bore 1-3/4" Bore 1-7/8" Bore 1-15/16" Bore 2" Bore 2-1/8" Bore 2-3/16" Bore 2-1/4" Bore 2-7/16" Bore 2-1/2" Bore 2-11/16" Bore 2-15/16" Bore	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	243282 243284 243260 243262 243264 243268 243266 243270 243272 243274 --- 243276 --- --- --- --- ---	--- --- 244079 244081 244083 244085 244087 244089 244093 244095 244109 244111 244113 244115 --- --- ---	--- --- --- --- --- --- 245084 245086 245088 --- 245090 245092 245094 245099 245110 245112
86	▲ Bushing Screw	6	411407	411408	411435
88	▲ Lock Washer	6	419011	419011	419012
90	Key, ▲ Bushing 1-5/16" Bore to 1-3/8" Bore 1-7/16" Bore 1-1/2" Bore 1-5/8" Bore 1-11/16" Bore 1-3/4" Bore 1-7/8" Bore 1-15/16" Bore 2" Bore 2-1/8" Bore 2-3/16" Bore 2-1/4" Bore 2-7/16" Bore 2-1/2" Bore 2-11/16" Bore 2-15/16" Bore	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	443264 443264 443265 443265 443265 443266 443266 443267 443269 443268 --- 443270 --- --- --- --- --- ---	--- --- 443254 443254 443254 443254 443254 443255 443255 443255 443258 443259 443260 443261 --- --- --- ---	--- --- --- --- --- --- --- 443251 443251 443251 443251 443251 443243 443245 443250
94	Torque-Arm Assembly *	1	243097	245097	245097
96	▲ Rod End	1	243245	245245	245245
98	▲ Hex Nut	1	407095	407097	407097
100	▲ Turnbuckle	1	243246	245246	245246
102	▲ Extension	1	243247	245247	245247
104	▲ LH Hex Nut	1	407244	407246	407246
106	▲ Fulcrum	1	243249	246249	246249
108	▲ Fulcrum Screw	1	411484	411484	411484
110	▲ Hex Nut	1	407093	407093	407093
112	Adapter Assembly *	1	259153	259154	259155
114	▲ RH Adapter Plate	1	243242	244244	245242
116	▲ LH Adapter Plate	1	243241	244243	245241
118	▲ Adapter Bushing	1	243243	245243	245243
120	▲ Adapter Bolt	1	411437	411460	411460
122	▲ Lock Washer	1	419012	419013	419013
124	▲ Hex Nut	1	407089	407091	407091
126	Motor Adapter 15:1 Ratio 25:1 Ratio	1 1	243539 243541	244572 244572	245606 245607
128	Adapter Screw	○	417081	417108	415023
130*	Lock Washer	1	419046	419047	---
130*	Input Shaft 15:1 Ratio with Pinion 25:1 Ratio	1 1	243553 243554	244583 244584	245603 245604

* Includes parts listed immediately below marked "▲".

Housing assembly includes a two-piece housing.

Bushing assembly includes 2 bushings.

▲ Makes up assembly under which it is listed.

§ Not shown on drawing.

† Washer is used on housing bolts at dowel pin locations.

□ Straight Bore only.

■ Taper Bushed only.

‡ See last paragraph under "Ordering Parts".

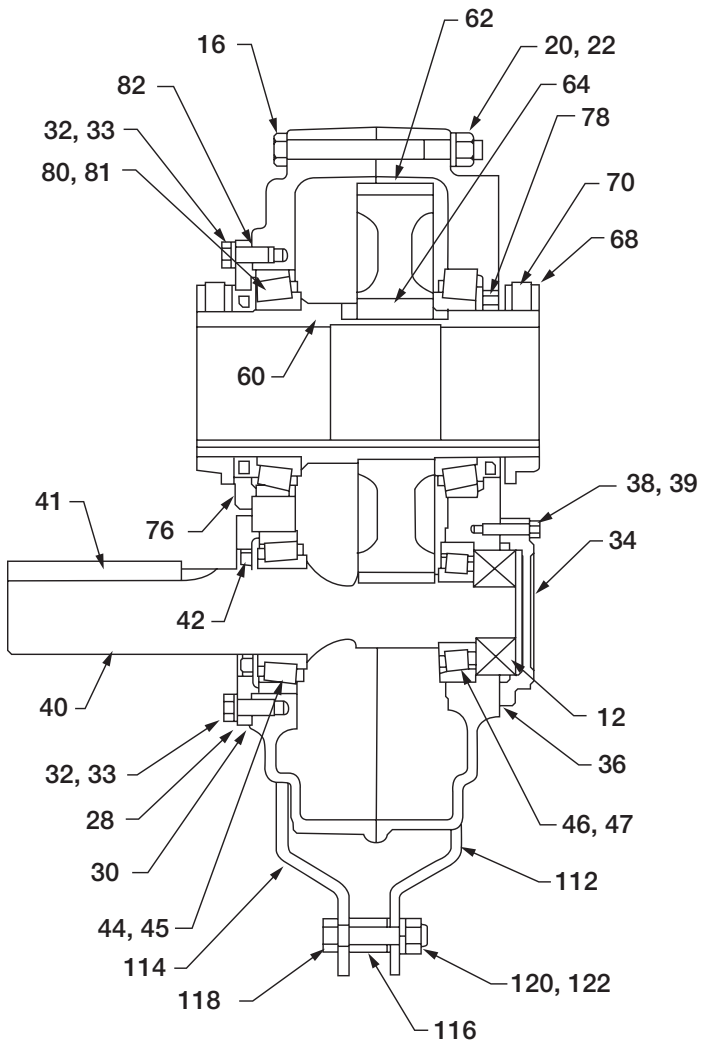
+ 14 req'd on TXT3A & TXT4A; 15 req'd on TXT5B; 10 req'd on HXT3A, HXT4A & HXT5B.

* Recommended spare parts.

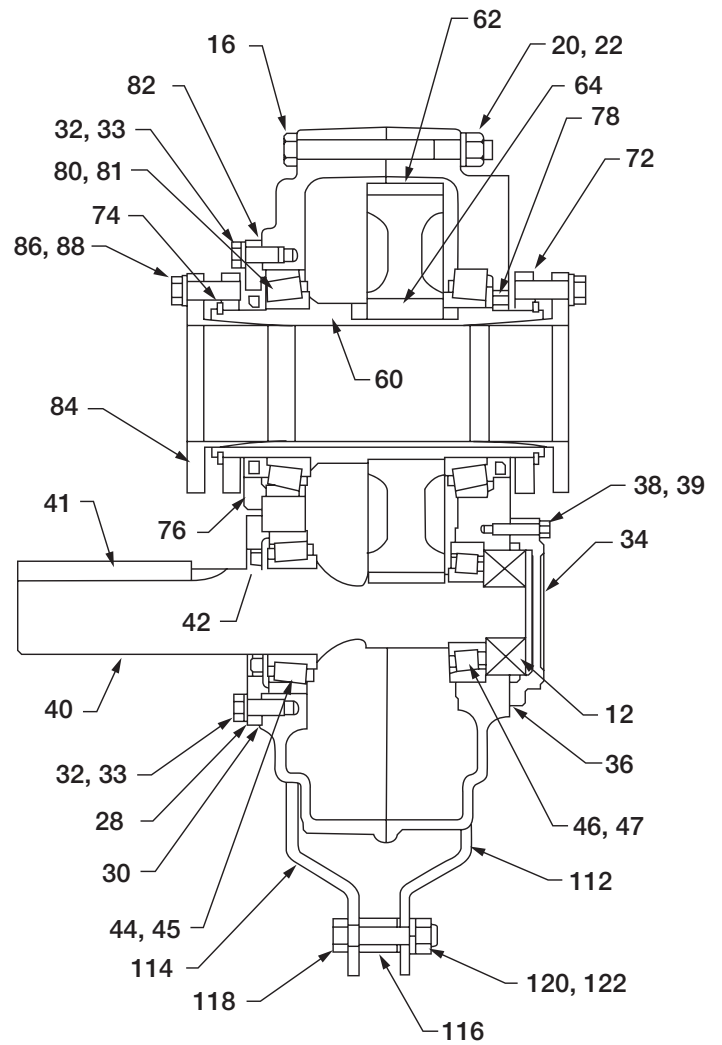
♡ On size TXT/HXT 3A for 1-15/16" thru 1-3/4" bores and TXT/HXT 5B for 1-7/16" thru 2-1/4" bores.

♠ 4 req'd on HXT3A & HXT4A; 5 req'd on HXT5B.

Parts for TXT/HXT 305A, 405A & 505B Straight Bore and Taper Bushed Speed Reducers

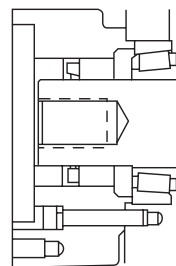


STRAIGHT BORE

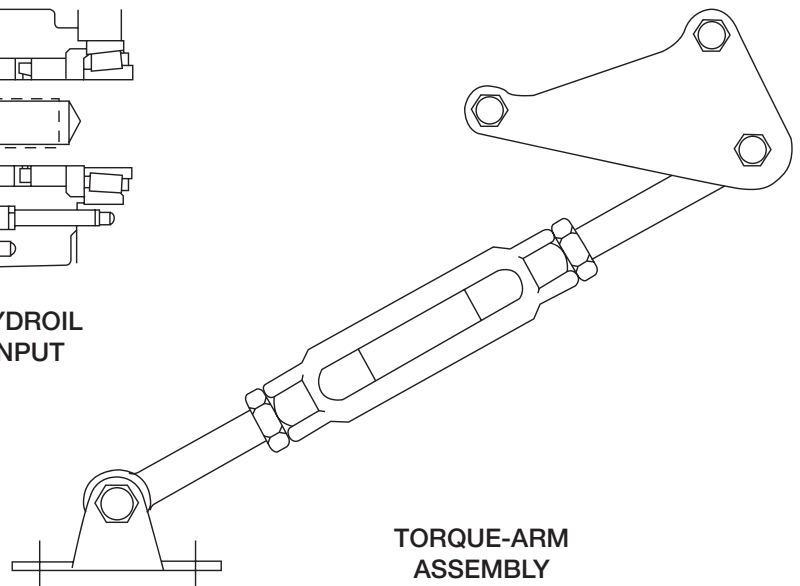


TAPER BUSHED

Note: The two digit numbers are for reference only. Order parts by the six digit number in the parts list each six digit number is a complete identification of the part or assembly.



**HYDROIL
INPUT**



**TORQUE-ARM
ASSEMBLY**

Ref.	Name of Part	No. Req'd	TXT305A HXT305A	TXT405A HXT405A	TXT505A HXT505A
12	Backstop Assembly	1	252101	244148	246101
§	Housing	1	253165	254218	255216
16	Air Vent	1	241237	241237	245237
18	Housing Bolt	6	411440	411442	411464
19	Adapter Housing Bolt	2	411442	411444	411466
20	Washer §†	4	419094	419094	419096
22	Lock Washer	6	419012	419012	419013
22	Hex Nut	8	407089	407089	407091
24	Dowel Pin	2	420055	420055	420110
§	Pipe Plug	2	430031	430031	430033
§	Magnetic Plug	1	430060	430060	430062
28	Input Shaft Seal Carrier	1	253177	254224	255224
30*	Input Shaft Brg Shim Pack	2†	389723	389724	389725
32	Carrier/Cover Screws	+	411390	411407	411407
33	Lock Washer	+	419010	419011	419011
34	Backstop Cover	1	253175	254223	255019
38	Backstop Cover Screw	4	416524	411035	411406
39	Lock Washer	4	419007	419009	419009
40*	Input Shaft with Pinion	1	253170	254230	255221
41	Input Shaft Key	1	443078	443096	443113
44*	▲ Input Shaft Brg Cone	1	402190	402179	402270
45*	▲ (Input Side) Cup	1	403132	403006	403026
46*	▲ Input Shaft Brg Cone	1	402271	402285	402266
47*	▲ (Backstop Side) Cup	1	403101	403125	403073
	Output Hub Straight	1	389702	389709	389716
	Assembly ★ Tapered	1	389703	389710	389717
60*	▲ Output Hub Straight	1	243557	244589	245591
	Tapered	1	243556	244588	245590
62*	▲ Output Gear	1	243570	244188	245186
64*	▲ Output Gear Key	1	389733	391015	391026
68	Output Hub Collar	2	243572	244658	245598
70	Collar Screw	4	400098	400150	400154
72	Bushing Backup Plate ■	2	243308	244099	245114
74	Retaining Ring ■	2	421109	421108	421107
76	Output Hub Seal Carrier (Input Side)	1	243547	244591	245592
	Output Hub Brg Kit ★	1	389589	389592	389596
80*	▲ Output Hub Cone	2	402272	402268	402193
81*	▲ Bearing Cup	2	403127	403163	403016
82*	Output Hub Bearing Shim Pack	2†	389706	389713	389719
	Seal Kit ★	1	389720	389721	389722
36*	▲ Backstop Cvr Gasket	1	243561	244593	245220
42*	▲ Input Shaft Seal	1	243558	355011	355011
78*	▲ Output Hub Seal	2	243578	244673	245545
§	RTV Sealant, Tube	1	465044	465044	465044

Ref.	Name of Part	No. Req'd	TXT305A HXT305A	TXT405A HXT405A	TXT505A HXT505A
	Bushing 1-5/16" Bore	1	243282	--	--
	Assembly 1-3/8" Bore	1	243284	--	--
	★ 1-7/16" Bore	1	243260	244079	--
	1-1/2" Bore	1	243262	244081	--
	1-5/8" Bore	1	243264	244083	--
	1-11/16" Bore	1	243268	244085	--
	1-3/4" Bore	1	243266	244087	--
	1-7/8" Bore	1	243270	244089	245084
	1-15/16" Bore	1	243272	244093	245086
	2" Bore	1	243274	244095	245088
	2-1/8" Bore	1	--	244109	--
	2-3/16" Bore	1	243276	244111	245090
	2-1/4" Bore	1	--	244113	245092
	2-7/16" Bore	1	--	244115	245094
	2-1/2" Bore	1	--	--	245099
	2-11/16" Bore	1	--	--	245110
	2-15/16" Bore	1	--	--	245112
86	▲ Bushing Screw	6	411407	411408	411435
88	▲ Lock Washer	6	419011	419011	419012
	1-5/16" Bore	1	443264	--	--
	1-3/8" Bore	1	443264	--	--
	1-7/16" Bore	1	443265	443254	--
	1-1/2" Bore	1	443265	443254	--
	1-5/8" Bore	1	443265	443254	--
	1-11/16" Bore	1	443266	443254	--
	1-3/4" Bore	1	443266	443254	--
	1-7/8" Bore	1	443267	443255	443251
	1-15/16" Bore	1	443269	443255	443251
	2" Bore	1	443268	443255	443251
	2-1/8" Bore	1	--	443258	--
	2-3/16" Bore	1	443270	443259	443251
	2-1/4" Bore	1	--	443260	443251
	2-7/16" Bore	1	--	443261	443243
	2-1/2" Bore	1	--	--	443244
	2-11/16" Bore	1	--	--	443245
	2-15/16" Bore	1	--	--	443250
§	▲ Key, Bushing to Output Hub	1♡	443262	--	443202
		1♢	--	443257	--
	Torque-Arm Assembly ★	1	243097	245097	245097
94	▲ Rod End	1	243245	245245	245245
96	▲ Hex Nut	1	407095	407097	407097
98	▲ Turnbuckle	1	243246	245246	245246
100	▲ Extension	1	243247	245247	245247
102	▲ LH Hex Nut	1	407244	407246	407246
104	▲ Fulcrum	1	243249	246249	246249
106	▲ Fulcrum Screw	1	411484	411484	411484
110	▲ Hex Nut	1	407093	407093	407093
	Adapter Assembly ★	1	259153	259154	259155
112	▲ RH Adapter Plate	1	243242	244244	245242
114	▲ LH Adapter Plate	1	243241	244243	245241
116	▲ Adapter Bushing	1	243243	245243	245243
118	▲ Adapter Bolt	1	411437	411460	411460
120	▲ Lock Washer	1	419012	419013	419013
122	▲ Hex Nut	1	407089	407091	407091
124	Motor Adapter	1	253172	254222	255226
126	Adapter Screw	1	417090	417120	417120
128	Lock Washer	1	419046	419047	419047
130*	Input Shaft with Pinion	1	253171	254231	255222

★ Includes parts listed immediately below marked "▲".

Housing assembly includes a two-piece housing.

Bushing assembly includes 2 bushings.

▲ Makes up assembly under which it is listed.

§ Not shown on drawing.

† Washer is used on housing bolts at dowel pin locations.

□ Straight Bore only.

■ Taper Bushed only.

‡ See last paragraph under "Ordering Parts".

+ 10 req'd on 305A; 12 req'd on 405A & 505A.

* Recommended spare parts.

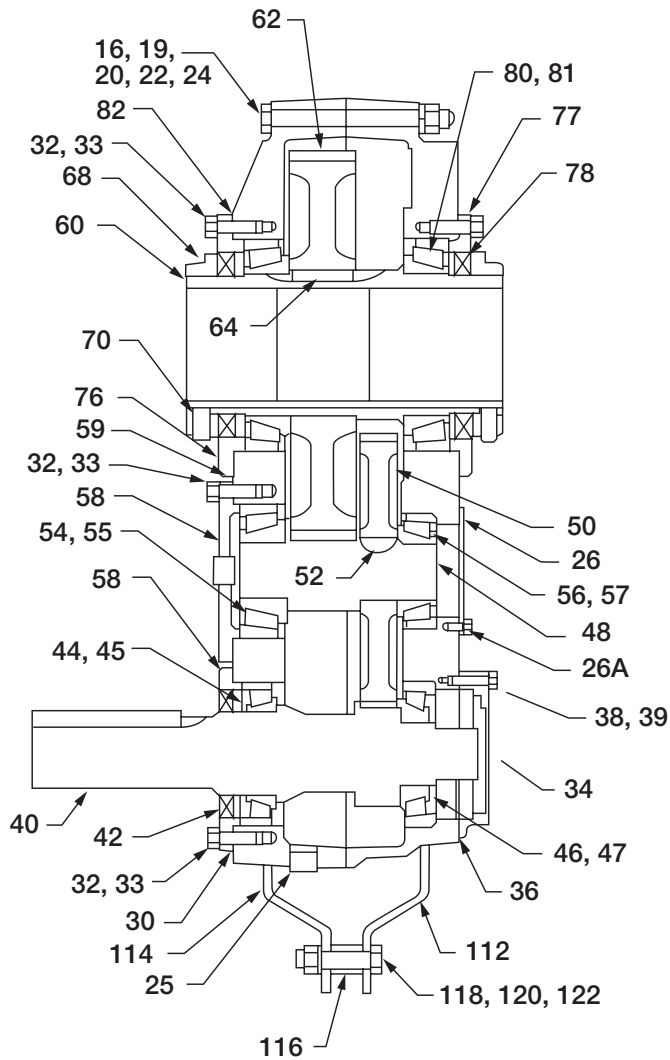
♡ On size 305A for 1-15/16" thru 1-3/4" bores.

♢ On size 405A for 1-7/16" thru 1-7/8" bores.

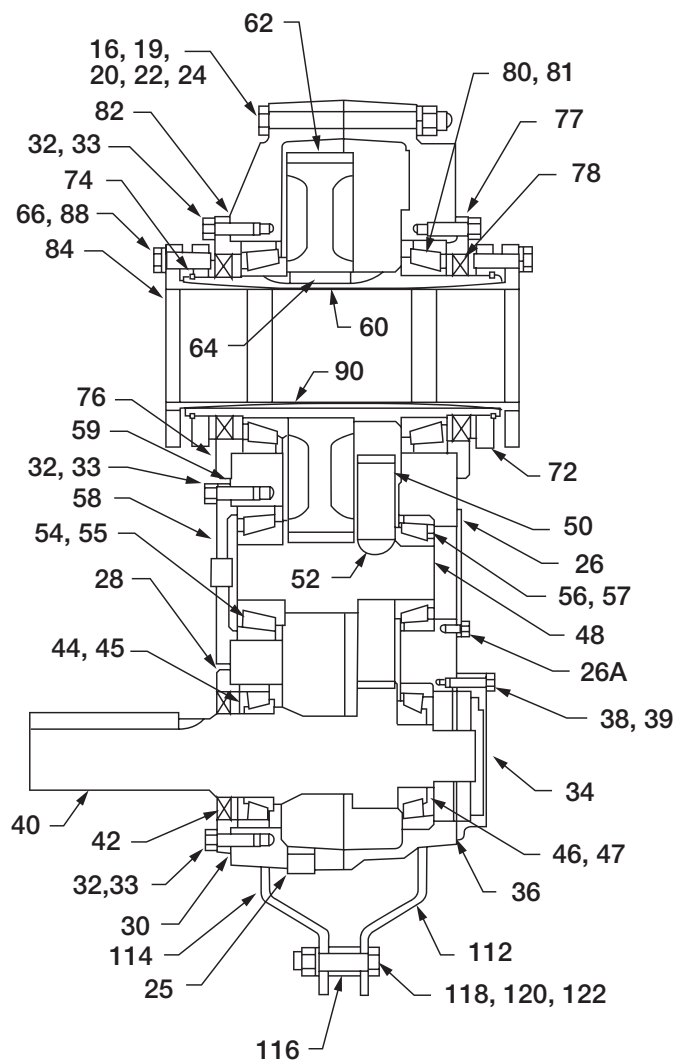
♣ On size 505A for 1-7/8" thru 2-1/4" bores.

♠ On size 405A for 1-15/16" and 2" bores.

Parts for TXT/HXT 6 & 7 Straight Bore and Taper Bushed Speed Reducers

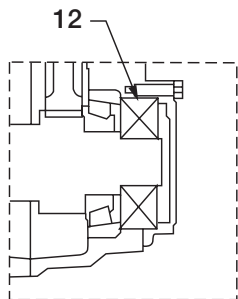


STRAIGHT BORE

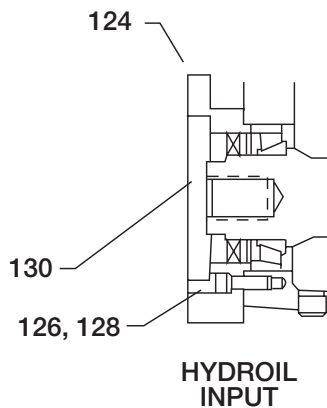


TAPER BUSHED

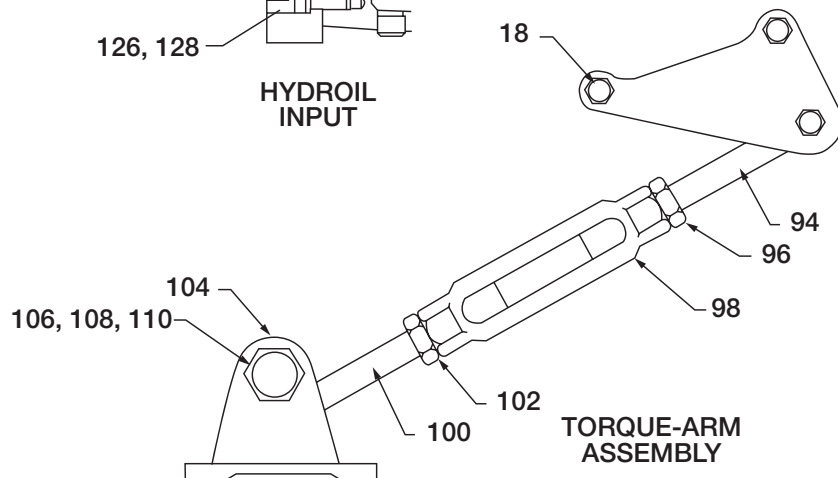
Note: The two digit numbers are for reference only. Order parts by the six digit number in the parts list each six digit number is a complete identification of the part or assembly.



BACKSTOP ASSEMBLY



HYDROIL INPUT



TORQUE-ARM ASSEMBLY

Ref.	Name of Part	No. Req'd	TX16 HXT6	TX17 HXT7
12	Backstop Assembly	1	246092	247260
	Housing ★	1	246170	247180
14	▲ LH Housing	1	--	--
15	▲ RH Housing	1	--	--
16	Air Vent	1	245237	390061
18	Housing Bolt	6	411466	411498
19	Adapter Housing Bolt	2	411468	411499
20	Washer	2	419096	419082
22	Lock Washer	8	419013	419016
24	Hex Nut	8	407091	407095
26	Dowel Pin	2	420112	420128
28	Pipe Plug	2	430033	430035
29	Magnetic Plug	1	430062	430064
26	C'shaft Bearing Cover (Backstop Side)	1	246015	247011
26A	C'shaft Cover Screws	6	411394	411394
	C'shaft Cover Washers	6	419009	419009
28	Input Shaft Seal Carrier	1	246184	247320
30*	Imp Shft Brg Shim Pack	2	391164	390420
32	Carrier/Cover Screws	+	411408	411433
33	Lock Washer	+	419011	419012
34	Backstop Cover	1	246221	247221
38	Backstop Cover Screw	6	411404	411402
39	Lock Washer	6	419009	419009
40*	Input Shaft 9:1 Ratio with Pinion 15:1 Ratio	1	246481	247479
	25:1 Ratio	1	246290	247370
41	Input Shaft Key	1	246291	247371
44*	Input Shaft Brg Cone	1	443113	443127
45*	(Input Side) Cup	1	402196	402150
46*	Input Shaft Brg Cone	1	403091	403106
47*	(Backstop Side) Cup	1	402197	402088
		1	403091	403047
48	Countershaft 9:1 Ratio Assembly ★ 15:1 Ratio	1	392140	392141
	25:1 Ratio	1	391171	391196
50*	▲ C'shaft with Pinion	1	391186	391197
	▲ First 9:1 Ratio	1	246294	247002
	Reduction 15:1 Ratio	1	246482	247478
	Gear 25:1 Ratio	1	246292	247008
52*	▲ Key	1	246293	247005
		1	245218	247218
54*	Countershaft Brg Cone	1	402054	402256
55*	(Input Side) Cup	1	402052	402256
56*	Countershaft Brg Cone	1	403142	403053
57*	(Backstop Side) Cup	1	246185	247194
58	C'shaft Brg Cover (Input Shaft)	1	391165	390429
59*	C'shaft Brg Shim Pack	2	390988	390990
	Output Hub Straight	1	390935	390941
60*	Assembly ★ Tapered	1	246338	247338
	▲ Output Hub Straight	1	246269	272137
	Tapered	1	246295	247215
62*	▲ Output Gear	1	245217	245217
64*	▲ Output Gear Key	2	246309	247309
68	Output Hub Collar	2	400154	400190
70	Collar Screw	4	246270	272138
72	Bushing Backup Plate	2	421055	421099
74	Retaining Ring	2	246187	247315
76	Output Hub Seal Carrier (Input Side)	1	246186	247315
77	Output Hub Seal Carrier (Backstop Side)	1		
80*	Output Hub Cone	2	402050	402058
81*	Bearing Cup	2	403140	403111

Ref.	Name of Port	No. Req'd	TX16 HXT6	TX17 HXT7
82*	Output Hub Bearing Shim Pack	2	391187	390444
	Seal Kit ★	1	246340	247345
36*	▲ Backstop Cvr Gasket	1	246220	246220
42*	▲ Input Shaft Seal	1	242210	242210
78*	▲ Output Hub Seal	2	246310	247310
	RTV Sealant, Tube	1	465044	465044
	Bushing Assembly ★			
	2-3/16" Bore	1	246261	--
	2-1/4" Bore	1	246262	--
	2-7/16" Bore	1	246263	272125
	2-1/2" Bore	1	246264	272149
	2-11/16" Bore	1	246265	272147
	2-13/16" Bore	1	--	272130
	2-7/8" Bore	1	246266	272131
	2-15/16" Bore	1	246267	272132
	3" Bore	1	246283	272133
	3-3/16" Bore	1	--	272134
	3-7/16" Bore	1	246268	272135
	3-15/16" Bore	1	--	272136
86	▲ Bushing Screw	6	411435	411456
88	▲ Lock Washer	6	419012	419013
	2-3/16" Bore	1	443211	--
	2-1/4" Bore	1	443211	--
	Key, ▲ 2-7/16" Bore	1	443214	443248
	Bushing 2-1/2" Bore	1	443214	443248
	to 2-11/16" Bore	1	443238	443248
	Shaft 2-13/16" Bore	1	--	443199
	2-7/8" Bore	1	443236	443199
	2-15/16" Bore	1	443237	443199
	3" Bore	1	443252	443216
	3-3/16" Bore	1	--	443235
	3-7/16" Bore	1	443213	443217
	3-15/16" Bore	1	--	443218
	Key, ▲ 2-3/16" Bore	1	443212	--
	Bushing 2-1/2" Bore	1	--	443198
	to 2-7/16" Bore	1	--	443198
	Output 3" Bore	1	--	443198
	Torque-Arm Assembly ★	1	246097	247098
94	▲ Rod End	1	245245	247239
96	▲ Hex Nut	1	407097	407099
98	▲ Turnbuckle	1	245246	247246
100	▲ Extension	1	245247	247240
102	▲ LH Hex Nut	1	407246	407248
104	▲ Fulcrum	1	247248	247248
106	▲ Fulcrum Screw	1	411489	411489
108	▲ Lock Washer	1	419014	419014
110	▲ Hex Nut	1	407093	407093
	Adapter Assembly ★	1	259156	259157
112	▲ RH Adapter Plate	1	246242	247242
114	▲ LH Adapter Plate	1	246241	247241
116	▲ Adapter Bushing	1	245243	247244
118	▲ Adapter Bolt	1	411460	411489
120	▲ Lock Washer	1	419013	419014
122	▲ Hex Nut	1	407091	407093
124	Motor Adapter	1	246465	247464
126	Adapter Screw	6	417108	417141
128	Lock Washer	6	419013	419014
130*	Input Shaft 15:1 Ratio with Pinion 25:1 Ratio	1	246230	247463
		1	246286	247462

□ Straight Bore only.

■ Taper Bushed only.

‡ See last paragraph under "Ordering Parts".

+ 24 req'd on TX16; 28 req'd on TX17.

* Recommended spare parts.

★ Includes parts listed immediately below marked "▲".

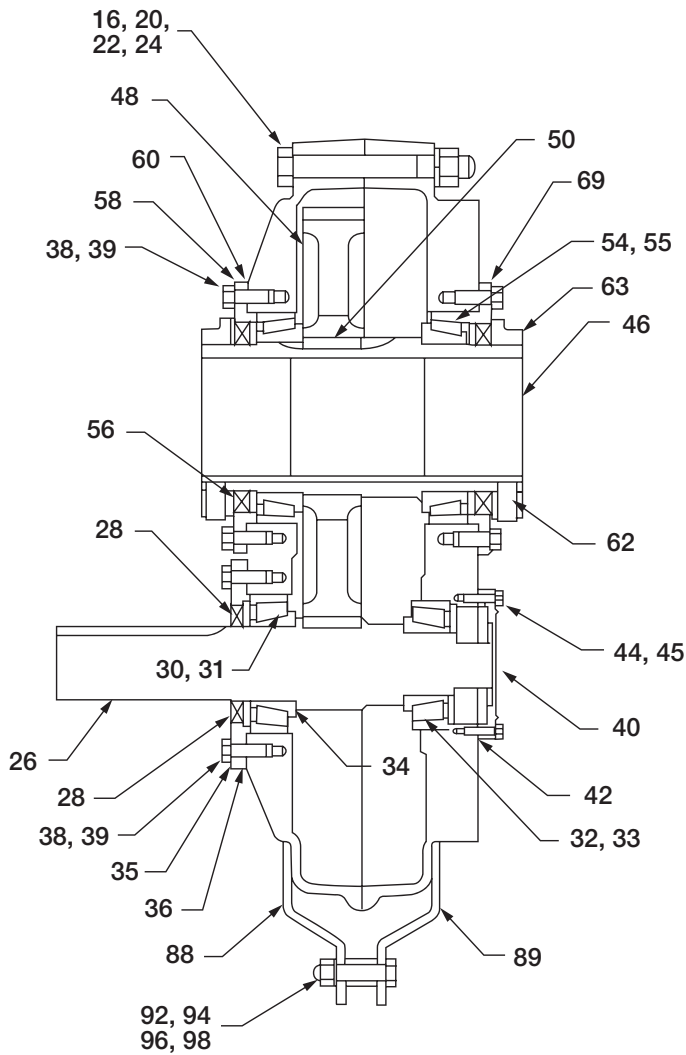
Housing assembly includes a two-piece housing.

Bushing assembly includes 2 bushings.

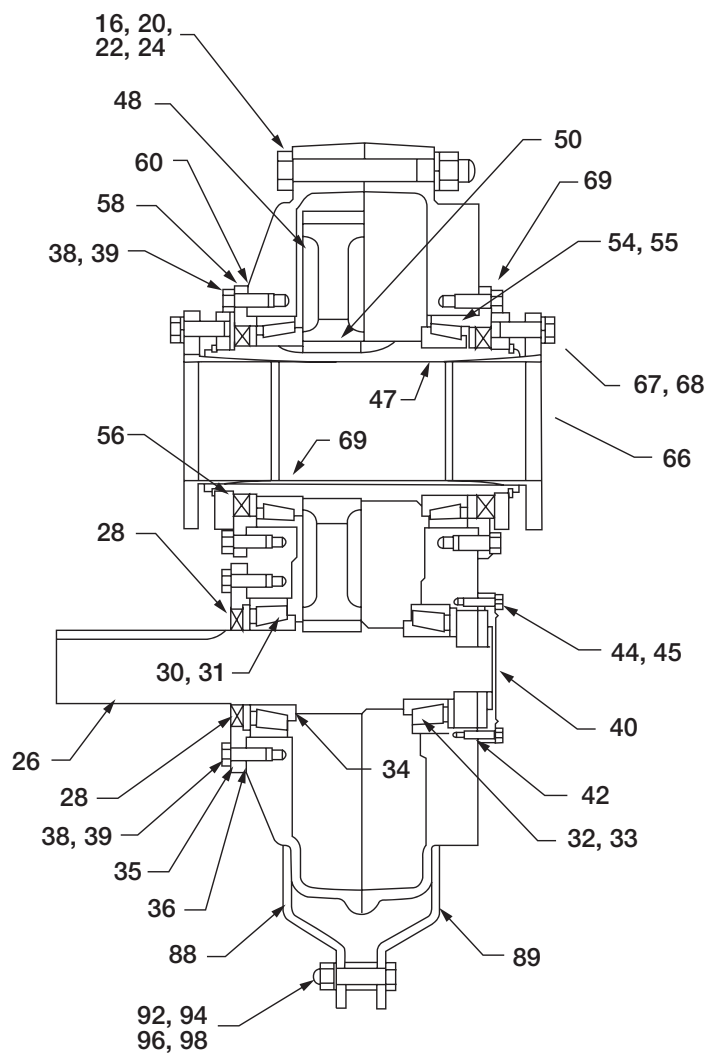
▲ Makes up assembly under which it is listed.

§ Not shown on drawing.

Parts for TXT/HXT 605 & 705 Straight Bore and Taper Bushed Speed Reducers

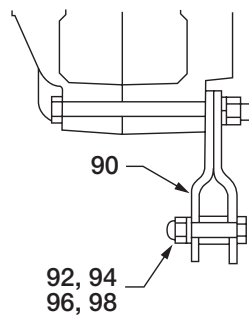


STRAIGHT BORE

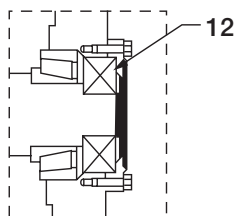


TAPER BUSHED

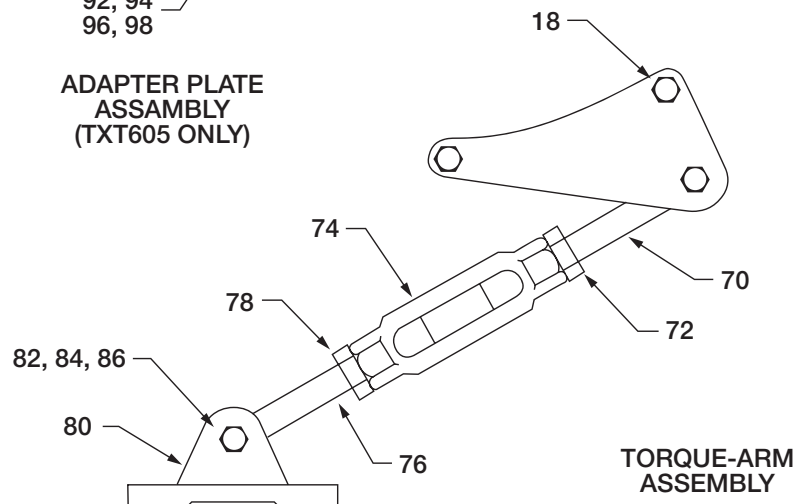
Note: The two digit numbers are for reference only. Order parts by the six digit number in the parts list each six digit number is a complete identification of the part or assembly.



**ADAPTER PLATE
ASSAMBLY
(TXT605 ONLY)**



BACKSTOP ASSEMBLY



**TORQUE-ARM
ASSEMBLY**

Ref.	Name of Part	No. Req'd	TXT605	TXT705
12	Backstop Assembly	1	246092	247260
§	Housing ★	1	246174	247184
16	Air Vent	1	245237	390061
18	Housing Bolt	6	411466	411498
18	Adapter Housing Bolt	2	411468	411499
18	Washer	2	419096	419082
20	Lock Washer	8	419013	419016
22	Hex Nut	8	407091	407095
24	Dowel Pin	2	420112	420128
24	Pipe Plug	2	430033	430035
25	Magnetic Plug §	1	430062	430064
25	RTV Sealant, Tube	1	465044	465044
26*	Input Shaft with Pinion	1	256028	257044
26	Input Shaft Key	1	443113	443127
30*	Input Shaft Brg Cone	1	391979	391964
31*	(Input Side) Cup	1	390333	391972
32*	Input Shaft Brg Cone	1	390450	391981
33*	(Backstop Side) Cup	1	391980	391982
34*	Input Bearing Spacer	1	256030	--
35	Input Shaft Seal Carrier	1	246184	257045
36*	Input Shaft Brg Shim Pack	2 ‡	391164	390420
38	Carrier Screws	+	411408	411433
39	Lock Washer	+	419011	419012
•	Seal Kit	1	272705	247345
42	Backstop Cover Gasket ♡	1	246220	246220
40	Backstop Cover	1	246221	247221
44	Backstop Cover Screw	6	411404	411402
45	Lock Washer	6	419009	419009
46*	Output Hub Straight	1	390988	390990
47*	Assembly ★ Tapered	1	390935	390941
47*	△ Output Hub Straight	1	246338	247338
48*	△ Output Gear Tapered	1	246269	272137
50*	△ Output Gear Key	1	246295	247215
50*	△ Output Gear Key	2	245217	245217
50	Output Hub Key L (Max. Bore)	1	443135	443147
54*	Output Hub Cone	2	391935	391962
55*	Bearing Cup	2	391936	390666
58	Output Hub Seal Carrier (Input Side)	1	246187	247315
59	Output Hub Seal Carrier (Backstop Side)	1	246186	247315
60*	Output Hub Bearing Shim Pack	2 ‡	391187	390444
62	Collar Screw □	4	400154	400190
63	Output Hub Collar L	2	246309	247309
64	Bushing Backup Plate ■	2	246270	272138
65	Retaining Ring ■	2	421055	421099

Ref.	Name of Part	No. Req'd	TXT605	TXT705
66	Bushing Assembly ★ ■ 2-3/16" Bore 2-1/4" Bore 2-7/16" Bore 2-1/2" Bore 2-11/16" Bore 2-13/16" Bore 2-7/8" Bore 2-15/16" Bore 3" Bore 3-3/16" Bore 3-7/16" Bore 3-15/16" Bore	1 1 1 1 1 1 1 1 1 1 1 1 1	246261 246262 246263 246264 246265 -- 246266 246267 246283 -- 246268 --	-- -- 272125 272149 272147 272130 272131 272132 272133 272134 272135 272136
67	△ Bushing Screw ■	6	411435	411456
68	△ Lock Washer ■	6	419012	419013
69	2-3/16" Bore 2-1/4" Bore Key, A 2-7/16" Bore Bushing 2-1/2" Bore to 2-11/16" Bore Shaft 2-13/16" Bore 2-7/8" Bore 2-15/16" Bore 3" Bore 3-3/16" Bore 3-7/16" Bore 3-15/16" Bore	1 1 1 1 1 1 1 1 1 1 1 1 1	443211 443211 443214 443214 443238 -- 443236 443237 443252 -- 443213 --	-- -- 443248 443248 443248 443199 443199 443199 443216 443235 443217 443218
70	Key, A 1-15/16" Bore	1	443212	--
72	Bushing 2-1/2" Bore to 2-7/16" Bore	1	--	443198
74	Output 3" Bore	1	--	443198
70	Torque-Arm Assembly ★	1	246097	247098
72	△ Rod End	1	245245	247239
74	△ Hex Nut	1	407097	407099
76	△ Turnbuckle	1	245246	247246
78	△ Extension	1	245247	247240
80	△ LH Hex Nut	1	407246	407248
82	△ Fulcrum	1	247248	247248
84	△ Fulcrum Screw	1	411489	411489
86	△ Lock Washer	1	419014	419014
86	△ Hex Nut	1	407093	407093
88	Adapter Assembly ★	1	259159	259157
89	△ RH Adapter Plate	1	--	247242
90	△ LH Adapter Plate	1	--	247241
92	△ Adapter Plate Ass'y	1	256096	--
94	△ Adapter Bushing	1	245243	247244
96	△ Adapter Bolt	1	411460	411488
98	△ Lock Washer	1	419013	419014
98	△ Hex Nut	1	407091	407093

★ Includes parts listed immediately below marked "▲".

Housing assembly includes a two-piece housing.

Bushing assembly includes 2 bushings.

▲ Makes up assembly under which it is listed.

§ Not shown on drawing.

♡ Included in seal kit.

□ Straight Bore only.

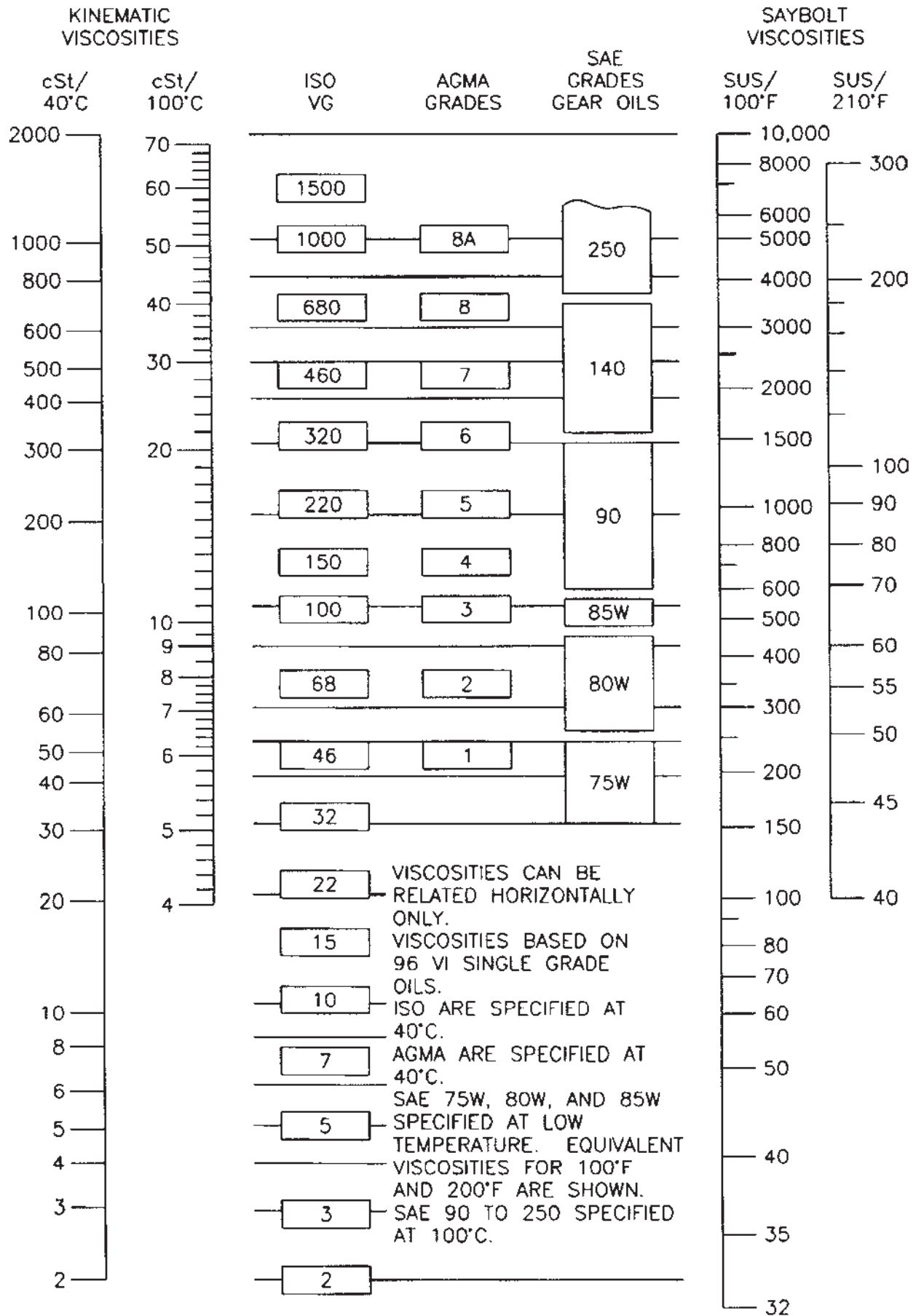
■ Taper Bushed only.

‡ See last paragraph under "Ordering Parts".

+ 18 req'd on TXT605A; 22 req'd on TXT705A.

* Recommended spare parts.

Oil Viscosity Equivalency Chart





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Dodge Product Support

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