

Installation and Parts Replacement Manual for DODGE® Double Reduction Screw Conveyor and Hydroil Screw Conveyor Drive

| | |
|-----------------|-----------------|
| SCXT / HSCXT 1A | SCXT / HSCXT 5C |
| SCXT / HSCXT 2A | SCXT / HSCXT 6A |
| SCXT / HSCXT 3B | SCXT / HSCXT 7A |
| SCXT / HSCXT 4B | SCXT 8A |

These instructions must be read thoroughly before installation or operation.

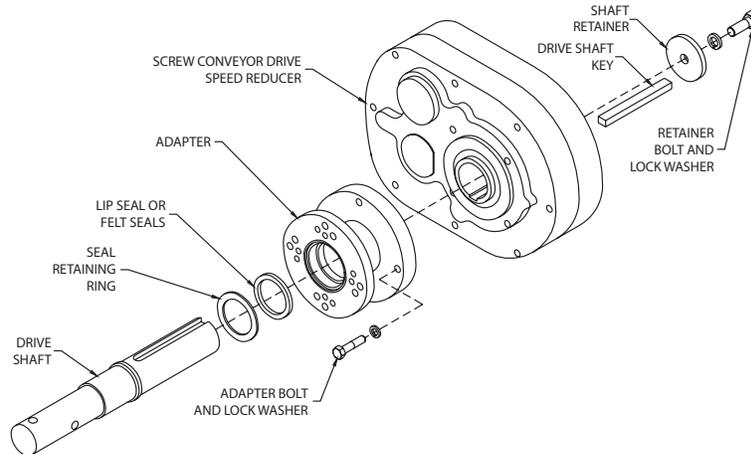


Figure 1 - Assembly

WARNING: To ensure that drive is not unexpectedly started, turn off and lock out or tag power source before proceeding. Remove all external loads from drive before removing or servicing drive or accessories. Failure to observe these precautions could result in bodily injury.

Note: A screw conveyor drive consists of three sub-assemblies listed below.

1. Reducer – Includes speed reducer, shaft retainer, retainer bolt and lockwasher.
2. Adapter Assembly – Includes adapter bolts, lockwashers, a lip type seal and a seal retaining ring.
3. Drive Shaft – Includes shaft and key.

Make certain none of the parts have been damaged in shipment. Any shipping damage should be promptly reported to the carrier. Read all instructions in this manual before attempting to assemble or install the Screw Conveyor Drive. It is important that assembly be performed in the following sequence and that each step be completed before continuing to the next.

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 followed. 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.

ASSEMBLY

1. Place reducer on blocks so that it lays flat with the input shaft down.
 2. Position adapter on reducer output hub so that small end (end with 12 holes) rests on the reducer. Select the 4 mounting holes to match the shaft used (see Fig. 1).
 3. Place adapter screws and lockwashers through adapter and thread into reducer. Do not tighten.
 4. **Lip Type Seals** – Place seal in adapter so that spring faces out. Seal should be tapped evenly into place in the adapter with a small hammer, applying force only on the outer corner of the seal. Fill cavity between lips of seal with grease. Install seal retaining ring by tapping with a hammer. Apply grease to adapter section of shaft (middle section). Slide shaft, keyseated end first, into adapter and through reducer.
- Note:** Be extremely careful when sliding adapter section of shaft through seal to prevent seal lips from being damaged or rolled over.
5. Carefully place the reducer on its side. Rotate shaft to align keyseats in shaft and output hub and install key. Install shaft retainer, lockwasher, and bolt. Tighten bolt to torque specified in Table 5.
 6. Lay reducer on blocks with input shaft down and tighten adapter bolts to torque specified in Table 5.
 7. If waste packing is to be used, it may be installed through access hole provided in the adapter. Waste packing, not furnished with the screw conveyor drive, may be used as a separate seal option or in combination with the lip seals.



OPTIONAL ADJUSTABLE PACKING ADAPTER - ASSEMBLY

1. Place reducer on blocks so that it lays flat with the input shaft down.
2. Position adapter on reducer output hub so that small end (end with 12 holes) rests on the reducer. Select the 4 mounting holes to match the shaft used (see Fig. 1).
3. Place adapter screws and lockwashers through adapter and thread into reducer. Do not tighten.
4. Install 2 screws in studs in the adapter. Use Loctite on threads. See Fig. 2.
5. Flatten both seals with a soft hammer. Place seals in adapter, one on top of the other with joints offset from each other. Lay retaining ring loosely on top of the seals. Slide shaft, keyseated end first, into adapter and through reducer. Take care to clear the seals with the adapter section of the shaft. Once shaft has bottomed, seat retainer ring by tapping with a hammer. Install adjustable flange and secure with hex nuts provided.
6. Carefully place the reducer on its side. Rotate shaft to align keyseats in shaft and output hub and install key. Install shaft retainer, lockwasher, and bolt. Tighten bolt to torque specified in Table 5.
7. Lay reducer on blocks with input shaft down and tighten adapter bolts to torque specified in Table 5

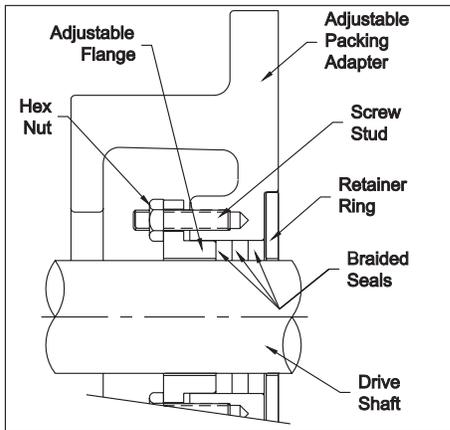


Figure 2 - Optional Adjustable Packing Adapter

INSTALLATION

1. Use lifting bracket where applicable to lift reducer.
2. Determine the running positions of the reducer. (See Fig. 3) Note that the reducer is supplied with 6 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. Install the filter/ventilation plug in topmost hole. Of the 2 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 upper face of the reducer housing as installed. If space is restricted on the upper face, install the vent in the highest hole on the side of the reducer per Figure 3 using the optional vertical vent kit. Install a plug in the hole in the bottom face of the reducer. Do not use this hole for the magnetic drain plug. Install the magnetic drain plug in the lowest hole on the sides of the reducer. Of the remaining holes on the sides of the reducer, use the plug in the upper housing half for the minimum oil level plug.

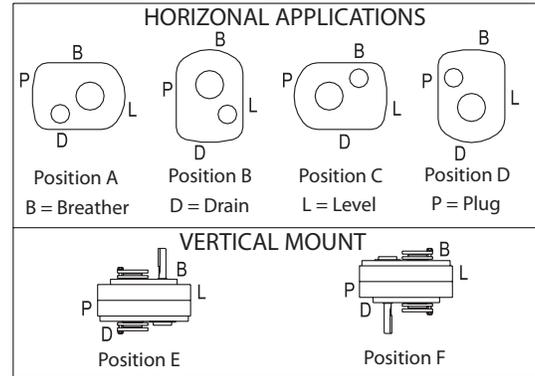


Figure 3 - Mounting Positions

Below 15 RPM output speed, oil level must be adjusted to reach the highest oil level plug. If reducer position is to vary from those shown in Figure 1, either more or less oil may be required. Consult Dodge.

The running position of the reducer in a horizontal application is not limited to the four positions shown in Fig. 3. 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 the reducer is swung to within 20° for position "A" & "C" or 5° for position "B" & "D" of the positions shown in Fig. 3. 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.

Note: If motor mount, motor, and sheaves are to be installed on reducer before mounting screw conveyor drive to trough end, bypass step 3; perform steps 4 and 5, and then return to step 2.

3. Use lifting tab to hoist screw conveyor drive into position. Slide shaft into screw and adapter over trough end studs. Only one set of adapter holes will fit over the trough end studs. If the mounted position of the screw conveyor drive varies more than 15° from any of the four horizontal mounting positions shown in Fig. 3, an incorrect set of holes has been selected for coupling adapter to reducer. This can be corrected by removing adapter screws and rotating the reducer to its proper position. Reinstall and tighten adapter screws to torque specified in Table 5. Install lockwashers and tighten nuts on trough end studs. Attach drive shaft to screw.
4. **Motor Mount Installation:**

The motor mount must be installed on the reducer as shown in Figure 4.

Remove the required housing bolts on the side of the reducer. Place the motor mount brackets in position and install the longer housing bolts supplied with the motor mount assembly. Do not fully tighten the housing bolts at this time.

Install the bottom plate to the motor mount brackets and tighten with the hardware provided. Next, tighten the housing bolts to the torque values listed in Table 5.

Install the four adjusting studs to the bottom plate using the jam nuts provided and securely tighten. These nuts will not require any further adjustment. Add one additional jam nut to each stud and thread approximately to the middle of the stud. Install the top motor plate on top of the jam nuts. Assemble the remaining jam nuts on studs to secure top motor plate. Do not fully tighten these nuts yet.

Mount motor, drive and driven sheaves, and v-belts.

Note: Mount driven sheave as close to the reducer housing as practical.

Adjust v-belts to the proper tension by adjusting the jam nuts and securely tighten.

Check all bolts to insure that they are securely tightened.

5. Install sheave on input shaft as close to reducer as practical.

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.

6. Fill gear reducer with the recommended volume of lubricant per table 1.

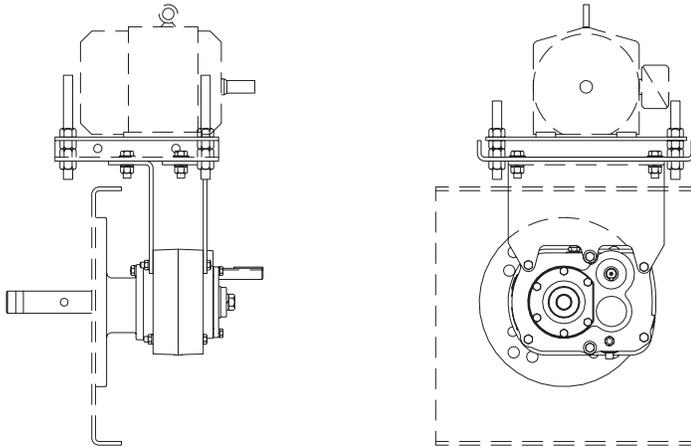


Figure 4 - Complete Drive

LUBRICATION

IMPORTANT: Because Torque-Arm reducers are shipped without oil, it is extremely important to add the proper amount of lubricant prior to operating reducer. For most applications a high-grade petroleum-base rust and oxidation inhibited (R&O) gear oil is suitable. Under severe conditions EP type oils can be used. See Table 1 for proper oil volume and viscosity requirement.

Follow instructions on reducer warning tags.

Lubrication is very important for satisfactory operation. The proper oil level must be maintained at all times. Frequent inspection, at least monthly, with the unit not running and allowing sufficient time for the oil to cool and the entrapped air to settle out of the oil should be made by removing the level plug and verifying the level is being maintained. If oil level is low, add the proper lubricant until the oil volume is increased to the correct level.

After an initial operation of about two weeks, the oil should be changed. If desired, this oil may be filtered and reused. After the initial break in period, under average industrial operating conditions, the lubricant should be changed every 2500 hours of operation. At every oil change, drain reducer and flush with kerosene, clean magnetic drain plug and refill to proper level with new lubricant.

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.

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.

Heating is a natural characteristic of enclosed gearing. A maximum gear case temperature approaching 200°F is not uncommon for some units operating in normal ambient temperatures of 80°F. When operating at the rated capacity with proper lubrication, no damage will result from this temperature. This maximum temperature was taken into consideration during the design of the reducer.

| Table 1 - Oil Volumes | | | | | | | | | | | | | |
|-----------------------|---------|---|------|--------------|------|--------------|------|--------------|------|--------------|------|--------------|------|
| Reducer | | Approximate Volume of Oil to Fill Reducer to Oil Level Plug ① ⑤ | | | | | | | | | | | |
| | | ② Position A | | ② Position B | | ② Position C | | ② Position D | | ② Position E | | ② Position F | |
| Size | Ratio | ③ Qt | ④ L | ③ Qt | ④ L | ③ Qt | ④ L | ③ Qt | ④ L | ③ Qt | ④ L | ③ Qt | ④ L |
| SCXT1A | 9,15,25 | 1/2 | .47 | 1/2 | .47 | 5/8 | .59 | 3/4 | .71 | 1 | .95 | 1-1/4 | 1.2 |
| SCXT2A | 9,15,25 | 7/8 | .83 | 1 | .95 | 5/8 | .59 | 1 | .95 | 1-5/8 | 1.54 | 1-3/4 | 1.66 |
| SCXT3B | 9,15,25 | 1-1/2 | 1.42 | 1-1/2 | 1.42 | 3/4 | .71 | 2-1/4 | 2.13 | 2-5/8 | 2.48 | 3 | 2.84 |
| SCXT4B | 9,15,25 | 1-7/8 | 1.77 | 2-1/4 | 2.13 | 1-1/4 | 1.18 | 1-3/4 | 1.66 | 3-3/8 | 3.19 | 4-1/4 | 4.02 |
| SCXT5C | 9,15,25 | 3-1/2 | 3.31 | 4 | 3.79 | 3-1/4 | 3.08 | 4 | 3.79 | 7 | 6.62 | 8-5/8 | 8.16 |
| SCXT6A | 9,15,25 | 4-1/4 | 4.00 | 5 | 4.70 | 4-1/4 | 4.00 | 5 | 4.70 | 8-5/8 | 8.20 | 9-1/8 | 8.60 |
| SCXT7A | 9,15,25 | 6-1/2 | 6.15 | 8 | 7.57 | 7-1/4 | 6.86 | 9-1/4 | 8.75 | 15-3/8 | 14.6 | 16-3/8 | 15.5 |
| SCXT8A | 15,25 | 8-1/2 | 8.00 | 11 | 10.4 | 10-1/2 | 9.9 | 8-1/2 | 8.00 | 19-1/8 | 18.1 | 19-1/8 | 18.1 |

① Oil quantity is approximate. Service with lubricant until oil runs out of oil level hole.

② Refer to Figure 3 for mounting positions.

③ US measure: 1 quart = 32 fluid ounces = .94646 liters.

④ Conversion from quarts rounded values.

⑤ Below 15 RPM output speed, oil level must be adjusted to reach the highest oil level plug. If reducer position is to vary from those shown in Figure 3, either more or less oil may be required. Consult Dodge.

| Table 2 - Oil Recommendations | | | | | | | | | |
|---|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| ISO Grades For Ambient Temperatures of 15°F to 60°F | | | | | | | | | |
| Output RPM | (H)SCXT Reducer Size | | | | | | | | |
| | 1A | 2A | 3B | 4B | 5C | 6A | 7A | 8A | |
| 201 – 300 | 320 | 320 | 220 | 220 | 220 | 220 | 220 | 220 | 220 |
| 151 – 200 | 320 | 320 | 220 | 220 | 220 | 220 | 220 | 220 | 220 |
| 126 – 150 | 320 | 320 | 320 | 220 | 220 | 220 | 220 | 220 | 220 |
| 101 – 125 | 320 | 320 | 320 | 320 | 320 | 220 | 220 | 220 | 220 |
| 81 – 100 | 320 | 320 | 320 | 320 | 320 | 220 | 220 | 220 | 220 |
| 41 – 80 | 320 | 320 | 320 | 320 | 320 | 220 | 220 | 220 | 220 |
| 11 – 40 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 |
| 1 – 10 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 | 320 |

| ISO Grades For Ambient Temperatures of 15°F to 60°F | | | | | | | | | |
|---|----------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| Output RPM | (H)SCXT Reducer Size | | | | | | | | |
| | 1A | 2A | 3B | 4B | 5C | 6A | 7A | 8A | |
| 201 – 300 | 220 | 220 | 150 | 150 | 150 | 150 | 150 | 150 | 150 |
| 151 – 200 | 220 | 220 | 150 | 150 | 150 | 150 | 150 | 150 | 150 |
| 126 – 150 | 220 | 220 | 220 | 150 | 150 | 150 | 150 | 150 | 150 |
| 101 – 125 | 220 | 220 | 220 | 220 | 150 | 150 | 150 | 150 | 150 |
| 81 – 100 | 220 | 220 | 220 | 220 | 220 | 150 | 150 | 150 | 150 |
| 41 – 80 | 220 | 220 | 220 | 220 | 220 | 150 | 150 | 150 | 150 |
| 11 – 40 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 |
| 1 – 10 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 | 220 |

Notes:

1. Assumes auxiliary cooling where recommended in the catalog.

2. Pour point of lubricant selected should be at least 10°F lower than expected minimum ambient starting temperature.

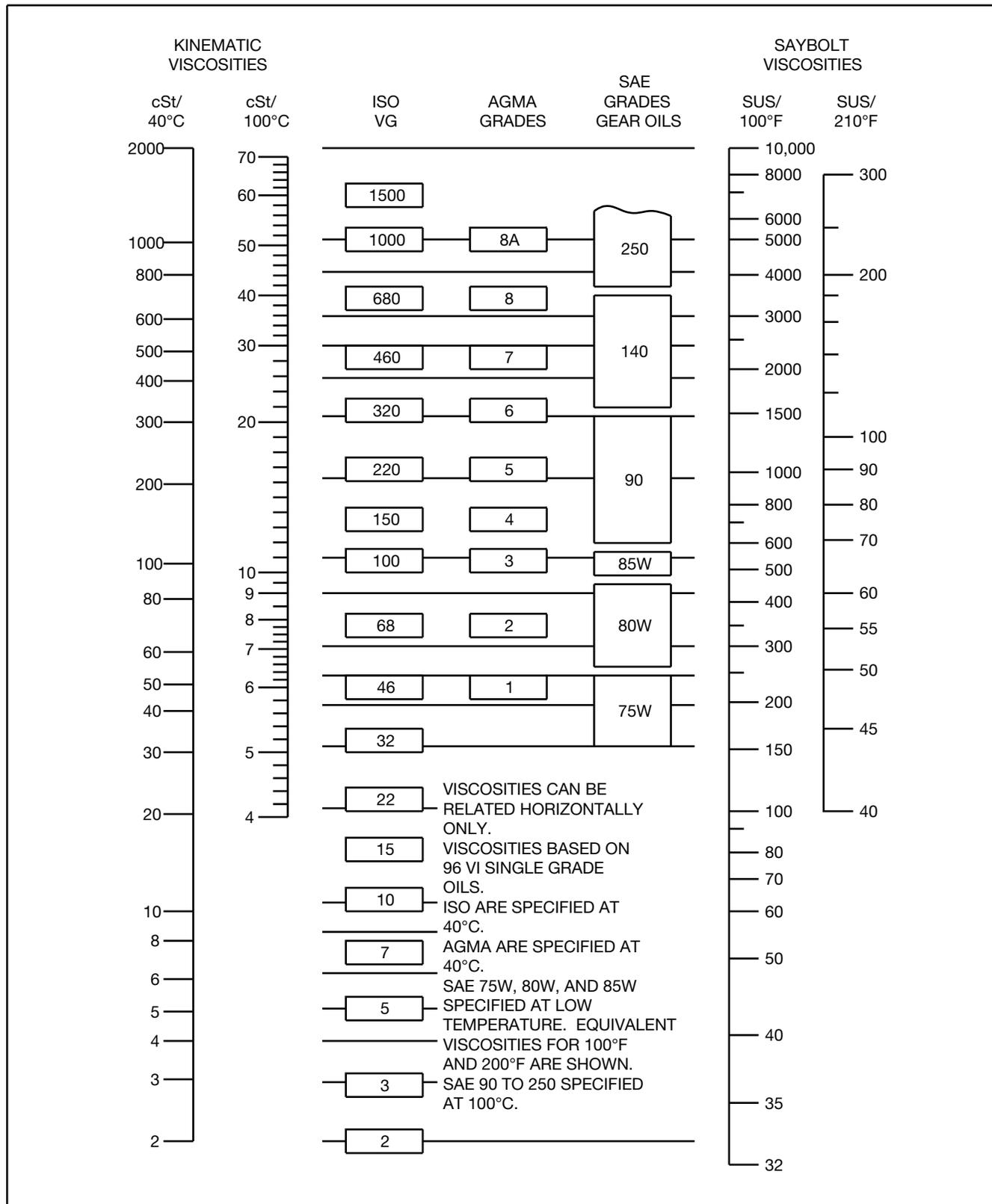
3. Extreme pressure (EP) lubricants are not necessary for average operating conditions.

4. Special lubricants may be required for food and drug industry applications where contact with the product being manufactured may occur. Consult a lubrication manufacturer's representative for his recommendations.

5. For reducers operating in ambient temperatures between -22°F (-30°C) and 20°F (-6.6°C) use a synthetic hydrocarbon lubricant, 100 ISO grade or AGMA 3 grade (for example, Mobil SHC627). Above 125°F (51°C), consult DODGE Gear Application Engineering (864) 288-9050 for lubrication recommendation.

6. Mobil SHC630 Series oil is recommended for high ambient temperatures.

OIL VISCOSITY EQUIVALENCY CHART



GUIDELINES FOR SCXT 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 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 all unpainted exterior parts with a waxy rust preventative compound that will keep oxygen away from the bare metal. (Non-Rust X-110 by Daubert Chemical Co. or equivalent)
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. Fill the unit to the proper oil level using a recommended lubricant. The VCI oil will not affect the new lubricant.
2. Clean the shaft extensions with petroleum solvents.
3. Assemble the vent plug into the proper hole.

Follow the installation instructions provided in this manual.

| Reducer Size | Quantity (Ounces / Milliliter) |
|--------------|--------------------------------|
| SCXT1A | 1 / 30 |
| SCXT3B | 1 / 30 |
| SCXT2A | 1 / 30 |
| SCXT4B | 1 / 30 |
| SCXT5C | 1 / 30 |
| SCXT6A | 2 / 59 |
| SCXT7A | 2 / 59 |
| SCXT8A | 3 / 89 |

REPLACEMENT OF PARTS

IMPORTANT: Using tools normally found in a maintenance department, a Dodge SCXT 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 contact lip seals. Considerable care should be used during disassembly and reassembly to avoid damage to the surface 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 model 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 consisting of a gear assembled on a hub be ordered to ensure 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.

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 rollers or cage of any bearing.

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

Removing Screw Conveyor Drive from Trough End

Disconnect an electrical power to the drive. Drain lubricant from reducer. Uncouple drive shaft and screw. Remove nuts from trough end studs. Support drive by means of hoist and carefully pull unit away from trough end to slide drive shaft out of screw.

Disassembly:

1. Remove retainer bolt, lockwasher, and shaft retainer from drive shaft. Pull drive shaft out of reducer from adapter side. Remove adapter.
2. Position the reducer on its side and remove all housing bolts. Drive dowel pins from housing. Using the three pry slots around the periphery of the flange, gently separate the housing halves. Open housing evenly to prevent damage to the parts inside.
3. Lift input shaft, all gear assemblies, and bearing assemblies from housing.
4. Remove seals from housing.
5. Remove bearings from shafts and hubs. Be careful not to scratch or damage any assembly or seal area during bearing removal. The hub assembly can be disassembled for gear replacement but if scratching or grooving occurs on the hub, seal leakage will occur and the hub will need to be replaced.

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 damage to the hub surfaces where the oil seals rub will cause leakage, making it necessary to replace the hub.
2. Countershaft Assembly: Heat gear to 325°F to 350°F and bearings to 270°F to 290°F to shrink onto shaft.
3. Input Shaft Assembly: Heat bearings 270°F to 290°F to shrink onto shaft. Press bearings on shaft.

4. Drive the two dowel pins into place in the right-hand housing half (backstop side).
5. Place R.H. housing half on blocks to allow for protruding end of output hub.
6. Install all bearing cups in right-hand housing half, making sure they are properly seated. SCXT1 and SCXT2 reducers use ball bearings on input and countershaft, tapered roller bearing cups are only used on the output bearings on these two sizes.
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.
8. Make sure both housing halves are clean. Apply a continuous 1/8" diameter bead of Dow Corning RTV732 sealant on the flange surface of the R.H. housing (make sure RTV is placed around all bolt holes). Set the left-hand housing half into position onto the dowel pins and gently tap with a soft hammer (rawhide, not lead hammer) until housing bolts can be used to draw housing halves together. Make sure reducer shafts do not bind while tightening housing bolts. Torque housing bolts per torque values listed in Table 5.
9. Place the output bearing cup into the housing and tap into place. Install the output seal carrier and draw down with two bolts 180° apart to 50 inch pounds of torque. Loosen both bolts then retighten finger tight only. Measure the clearance between the housing and carrier flange at each bolt and average the two values. Add 0.010" to the average reading and make up shim pack. Install shim pack between the carrier flange and the reducer housing. Torque the bolts to the value shown in Table 5. Using a magnetic base and dial indicator, check the axial end play. Add or remove shims until the axial endplay reading of the output hub is per Table 4.
10. Repeat step 9 above for installing and adjusting the countershaft and input bearings on sizes 3 through 8. Adjust the axial endplay per Table 4.
11. Install input and output seals. Lightly coat the seal lips with Mobilith AW2 All-Purpose grease or equivalent. The possibility of damage and consequent oil leakage can be decreased by covering all sharp edges with tape prior to seal installation. Seals should be pressed or tapped with a soft hammer evenly into place in the reducer housing, applying pressure only on the outer edge of the 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. A slight oil leak at the seals may be evident during initial running, but should disappear unless seals have been damaged.
12. Install backstop cover. Make sure all bolts are tightened to the correct torque values listed in Table 5.

| Reducer Size | Recommended Torque (ft. lbs.) | | | |
|--------------|-------------------------------|---------------------|-------------------|--------------------|
| | Housing Bolts | Output Seal Carrier | C/S Bearing Cover | Input Seal Carrier |
| SCXT1A | 30 - 27 | N/A | N/A | N/A |
| SCXT2A | 30 - 27 | N/A | N/A | N/A |
| SCXT3B | 50 - 45 | 17 – 15 | 17 – 15 | 17 – 15 |
| SCXT4B | 50 - 45 | 30 – 27 | 30 – 27 | 30 – 27 |
| SCXT5C | 75 - 68 | 30 – 27 | 30 – 27 | 30 – 27 |
| SCXT6A | 75 - 68 | 30 – 27 | 30 – 27 | 30 – 27 |
| SCXT7A | 150 - 135 | 50 - 45 | 50 - 45 | 50 - 45 |
| SCXT8A | 150 - 135 | 30 – 27 | 30 – 27 | 30 – 27 |

| Reducer Size | Recommended Torque (ft. lbs.) | | |
|--------------|-------------------------------|---------------|----------------|
| | Drive Shaft | Adapter Bolts | Backstop Cover |
| SCXT1A | 150-135 | 30-27 | 5 – 4 |
| SCXT2A | 150-135 | 50-45 | 5 – 4 |
| SCXT3B | 260-234 | 75-68 | 5 – 4 |
| SCXT4B | 260-234 | 150-135 | 8 – 7 |
| SCXT5C | 260-234 | 150-135 | 8 – 7 |
| SCXT6A | 640-576 | 150-135 | 8 – 7 |
| SCXT7A | 640-576 | 150-135 | 8 – 7 |
| SCXT8A | 640-576 | 183-165 | 8 – 7 |

| Reducer Size | Bearing Endplay Values | | |
|--------------|------------------------|------------------|------------------|
| | Input | Countershaft | Output |
| SCXT1A | N/A | N/A | .0005-.003 Loose |
| SCXT2A | N/A | N/A | .0005-.003 Loose |
| SCXT3B | .002-.004 Loose | .0005-.003 Loose | .0005-.003 Loose |
| SCXT4B | .002-.004 Loose | .0005-.003 Loose | .0005-.003 Loose |
| SCXT5C | .002-.004 Loose | .0005-.003 Loose | .0005-.003 Loose |
| SCXT6A | .002-.004 Loose | .0005-.003 Loose | .0005-.003 Loose |
| SCXT7A | .002-.004 Loose | .0005-.003 Loose | .0005-.003 Loose |
| SCXT8A | .002-.004 Loose | .0005-.003 Loose | .0005-.003 Loose |

REPLACEMENT PART AND KIT NUMBERS

| Table 6 – Part Numbers for Replacement Bearings, Single and Double Reduction Reducers | |
|---|---|
| Reducer Size | Output Hub Bearing – LH and RH Sides Part Number |
| SCXT1A | 402246 / 403149 |
| SCXT2A | 402247 / 403150 |
| SCXT3B | 402272 / 403127 |
| SCXT4B | 402268 / 403163 |
| SCXT5C | 402193 / 403016 |
| SCXT6A | 402050 / 403140 |
| SCXT7A | 402058 / 403111 |
| SCXT8A | 402147 / 403105 |
| | |
| Reducer Size | Countershaft Bearing – LH Side Part Number |
| SCXT1A | 424006 |
| SCXT2A | 424000 |
| SCXT3B | 402273 / 403094 |
| SCXT4B | 402000 / 403000 |
| SCXT5C | 402203 / 403027 |
| SCXT6A | 402054 / 403159 |
| SCXT7A | 402256 / 403053 |
| SCXT8A | 402057 / 403143 |
| | |
| Reducer Size | Countershaft Bearing – Backstop (RH) Side Part Number |
| SCXT1A | 424006 |
| SCXT2A | 424000 |
| SCXT3B | 402273 / 403094 |
| SCXT4B | 402000 / 403000 |
| SCXT5C | 402203 / 403027 |
| SCXT6A | 402052 / 403142 |
| SCXT7A | 402256 / 403053 |
| SCXT8A | 402148 / 403106 |
| | |
| Reducer Size | Input Shaft Bearing – LH Side Part Number |
| SCXT1A | 424112 |
| SCXT2A | 424019 |
| SCXT3B | 402204 / 403139 |
| SCXT4B | 402280 / 403027 |
| SCXT5C | 402144 / 403104 |
| SCXT6A | 402196 / 403091 |
| SCXT7A | 402150 / 403106 |
| SCXT8A | 402098 / 403072 |

| Reducer Size | Input Shaft Bearing – RH Side Part Number |
|--------------|---|
| SCXT1A | 424111 |
| SCXT2A | 424090 |
| SCXT3B | 402273 / 403094 |
| SCXT4B | 402142 / 403102 |
| SCXT5C | 402266 / 403073 |
| SCXT6A | 402197 / 403091 |
| SCXT7A | 402088 / 403047 |
| SCXT8A | 402097 / 403072 |

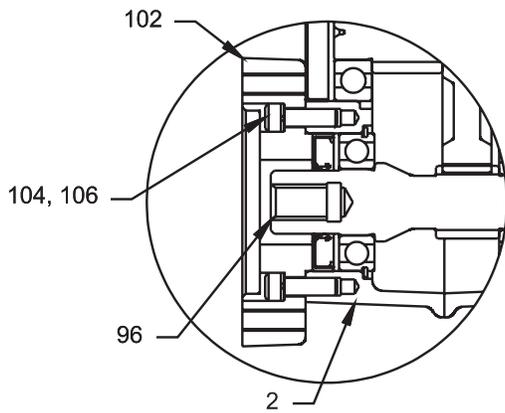
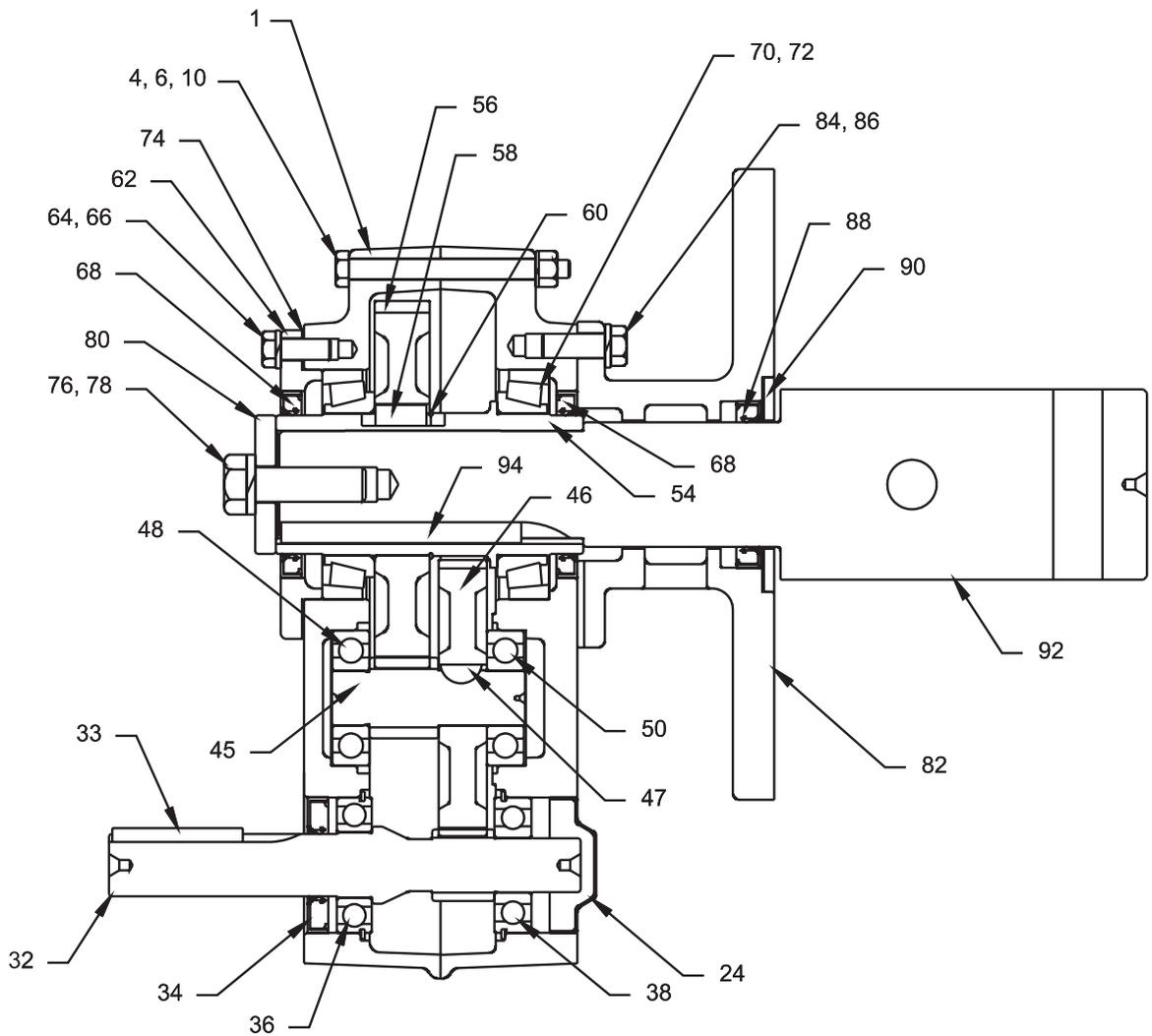
Note: LH is input side of reducer, and RH is backstop or output side of reducer. Bearing part numbers refer to Cup/Cone combinations, respectively, and apply to all ratios unless otherwise specified. For actual reducer ratios, refer to Table 7.

| Reducer Size | Ratio | Seal Kit | Output Hub Assembly | Countershaft Assembly | Bearing Kit(s) |
|--------------|-------|----------|---------------------|-----------------------|---|
| SCXT1A | 9:1 | 272711 | 391029 | 392100 | N/A |
| | 15:1 | | | 392090 | |
| | 25:1 | | | 392091 | |
| SCXT2A | 9:01 | 272712 | 392105 | 392101 | N/A |
| | 15:1 | | | 392092 | |
| | 25:1 | | | 392093 | |
| SCXT3B | 9:1 | 389720 | 389702 | 389729 | 389587 Input 389588 C/S 389589 Output |
| | 15:1 | | | 389700 | |
| | 25:1 | | | 389701 | |
| SCXT4B | 9:1 | 389721 | 389709 | 389730 | 389590 Input 389591 C/S 389592 Output |
| | 15:1 | | | 389707 | |
| | 25:1 | | | 389708 | |
| SCXT5C | 9:1 | 389722 | 389716 | 389731 | 389593 Input 389595 C/S 389596 Output |
| | 15:1 | | | 389714 | |
| | 25:1 | | | 389715 | |
| SCXT6A | 9:1 | 246340 | 390988 | 392140 | N/A |
| | 15:1 | | | 391171 | |
| | 25:1 | | | 391186 | |
| SCXT7A | 9:1 | 247345 | 390990 | 392141 | N/A |
| | 15:1 | | | 391196 | |
| | 25:1 | | | 391197 | |
| SCXT8A | 15:1 | 248340 | 390993 | 391184 | N/A |
| | 25:1 | | | 391185 | |
| | 24:1 | | | 390998 | |

| Reducer Size | Nominal Ratio | | |
|--------------|---------------|-------|-------|
| | 9:1 | 15:1 | 25:1 |
| SCXT1A | 9.44 | 15.35 | 25.64 |
| SCXT2A | 9.25 | 14.10 | 23.46 |
| SCXT3B | 8.91 | 14.88 | 24.71 |
| SCXT4B | 9.67 | 15.13 | 24.38 |
| SCXT5C | 8.95 | 15.40 | 25.56 |
| SCXT6A | 9.20 | 15.33 | 25.13 |
| SCXT7A | 9.61 | 15.23 | 24.59 |
| SCXT8A | N/A | 15.08 | 24.62 |

Seal Kit consists of Input Seal, Output Seals, Backstop Cover Gasket and RTV Sealant.
Output Hub Assembly consists of Output Hub, Output Gear and Gear Key.
Countershaft Assembly consists of Countershaft Pinion, Countershaft Gear and Gear Key.
Bearing Kit consists of LH and RH Output Bearing Cup/Cone, LH and RH Countershaft
Bearing Cup/Cone (double reduction only) and LH and RH Input Bearing Cup/Cone.

Parts for SCXT / HSCXT 1A and 2A Double Reduction Screw Conveyor and Hydroil Screw Conveyor Drive



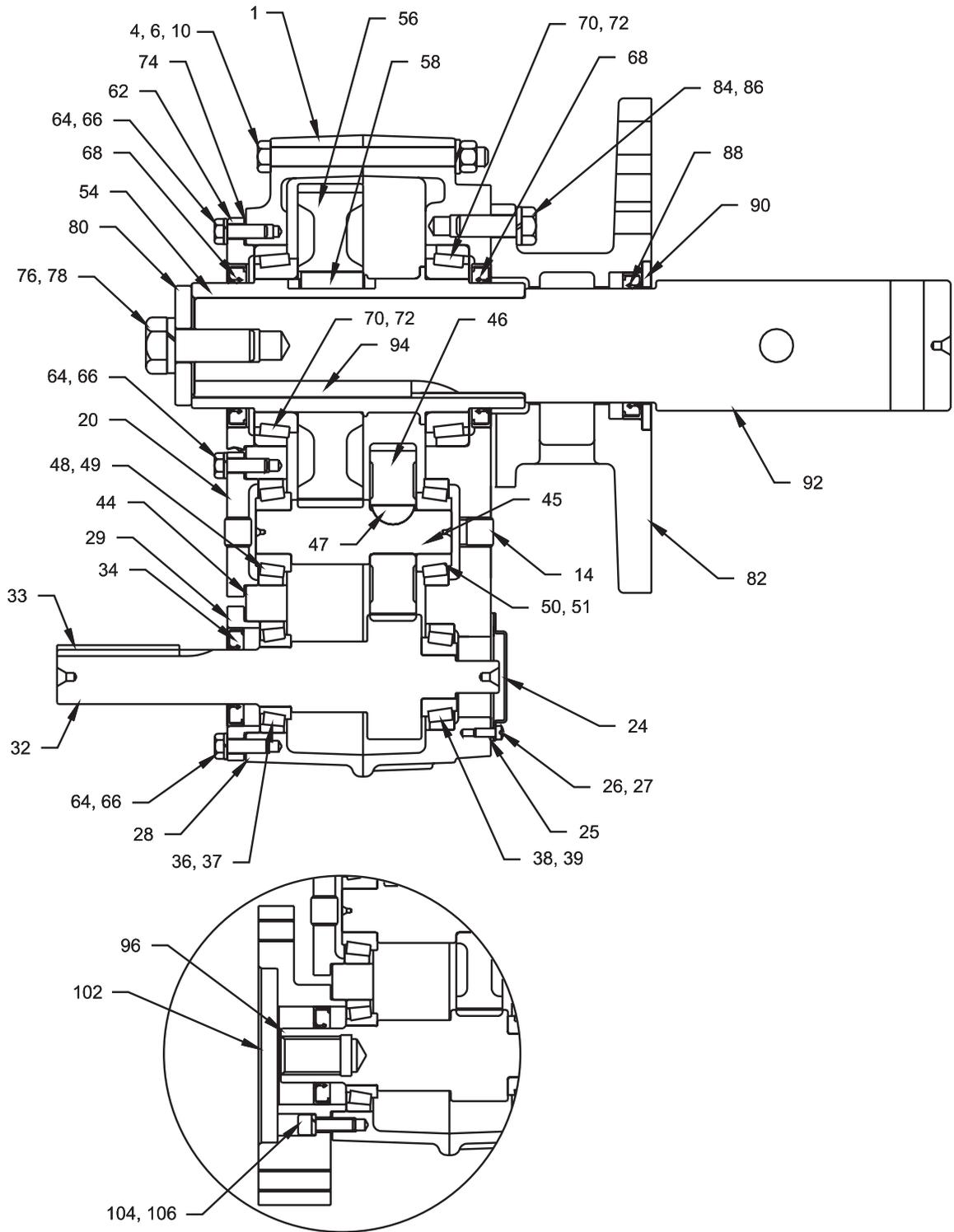
| Ref. | Description | Qty. | (H)SCXT 1A | (H)SCXT 2A |
|------|------------------------------------|-------|------------|------------|
| 1 | SCXT Housing Assembly | 1 | 351225 | 352219 |
| 2 | HSCXT Housing Assembly | 1 | 351240 | 352245 |
| | | | | |
| ① | RTV Sealant, Tube | 1 | 465044 | 465044 |
| ① | Air Vent | 1 | 900287 | 900287 |
| 4 | Housing Bolt | ④ | 411418 | 411418 |
| 6 | Lock-Washer | ④ | 419011 | 419011 |
| 10 | Hex Nut | ④ | 407087 | 407087 |
| ① | Dowel Pin ⑤ | 2 | 420063 | 420063 |
| ① | Magnetic Oil Plug | 1 | 430060 | 430060 |
| 22 | Oil Plug | 4 | 430031 | 430031 |
| 24 | Input Shaft Bearing Cover | 1 | 361062 | 354112 |
| | | | | |
| 32 | Input Pinion | | | |
| | 9:1 Ratio ③ | 1 | 241481 | 241481 |
| | 15:1 Ratio ③ | 1 | 241302 | 242186 |
| | 25:1 Ratio ③ | 1 | 241200 | 242187 |
| | | | | |
| 33 | Input Pinion Key | 1 | 443008 | 443013 |
| | | | | |
| 36 | Input Pinion Bearing-LH | 1 | 424112 | 424019 |
| 38 | Input Pinion Bearing-RH | 1 | 424111 | 424090 |
| | | | | |
| | Countershaft Pinion Assembly ② | | | |
| | 9:1 Ratio ③ | 1 | 392100 | 392101 |
| | 15:1 Ratio ③ | 1 | 392090 | 392092 |
| | 25:1 Ratio ③ | 1 | 392091 | 392093 |
| 45 | Countershaft Pinion ⑥ | 1 | 241216 | 242185 |
| | | | | |
| 46 | First Reduction Gear ⑥ | | | |
| | 9:1 Ratio ③ | 1 | 241482 | 242482 |
| | 15:1 Ratio ③ | 1 | 241170 | 242008 |
| | 25:1 Ratio ③ | 1 | 241171 | 242005 |
| 47 | Gear Key ⑥ | 1 | 241309 | 242218 |
| | | | | |
| 48 | Countershaft Bearing (Input Side) | | 424006 | 424000 |
| 50 | Countershaft Bearing (Output Side) | | 424006 | 424000 |
| | | | | |
| | Output Hub Assembly ② | | 391029 | 392105 |
| 54 | Output Hub ⑥ | | 351112 | 352112 |
| 56 | Output Gear ⑥ | | 241007 | 242181 |
| 58 | Output Gear Key ⑥ | | 241217 | 443399 |
| 60 | Output Hub Snap Ring ⑥ | | 421013 | 421017 |
| | | | | |
| 62 | Output Hub Seal Carrier | | 351114 | 352114 |
| 64 | Carrier Screw | | 441405 | 411407 |
| 66 | Lockwasher | | 419010 | 419011 |
| 70 | Output Hub Bearings | Cone | 402246 | 402247 |
| 72 | | Cup | 403149 | 403150 |
| 74 | Output Hub Shim Pack | 1 Set | 391056 | 391059 |
| 76 | Retainer Bolt | 1 | 411549 | 411549 |
| 78 | Lockwasher | 1 | 419014 | 419014 |
| 80 | Shaft Retainer | 1 | 351116 | 352116 |

| Ref. | Description | Qty. | (H)SCXT 1A | (H)SCXT 2A | |
|------|-------------------------------|--------------|------------|------------|--------|
| | Adapter Assembly ② | 1 | 351086 | 352052 | |
| 82 | Adapter ⑥ | 1 | 351117 | 352117 | |
| 84 | Bolt ⑥ | 4 | 411408 | 411433 | |
| 86 | Lockwasher ⑥ | 4 | 419011 | 419012 | |
| 88 | Lip Seal ⑥ | 1 | 351123 | 352122 | |
| ① | Braided Seal ⑥ | 2 | 427663 | 427659 | |
| 90 | Seal Retaining Ring ⑥ | 1 | 351121 | 352121 | |
| | | | | | |
| | Adjustable Adapter Assembly ② | 1 | 356168 | 356112 | |
| ① | Adjustable Adapter ⑥ | | 356169 | 356113 | |
| 84 | Bolt ⑥ | | 411408 | 411433 | |
| 86 | Lockwasher ⑥ | | 419011 | 419012 | |
| ① | Adjustable Packing Retainer ⑥ | | 356134 | 356115 | |
| ① | Stud ⑥ | | 400404 | 400404 | |
| ① | Hex Nut ⑥ | | 407202 | 407202 | |
| ① | Braided Seal ⑥ | | 427663 | 427659 | |
| 90 | Seal Retaining Ring ⑥ | | 351121 | 352121 | |
| | | | | | |
| 92 | Drive | 1-1/2" Dia. | 1 | 351094 | 352090 |
| | Shaft ② | 2" Dia. | 1 | 351095 | 352091 |
| | | 2-7/16" Dia. | 1 | 351096 | 352092 |
| | | 3" Dia. | 1 | 351097 | 352093 |
| | | 3-7/16" Dia. | 1 | --- | --- |
| 94 | Key ⑥ | | 1 | 443287 | 443223 |
| | | | | | |
| | Seal Kit ② | | 1 | 272711 | 272712 |
| 34 | Input Seal ⑥ | | 1 | 241457 | 242211 |
| 68 | Output Seal ⑥ | | 2 | 351113 | 352113 |
| | | | | | |
| 96 | Hydroil Input Pinion ③ | 15:1 Ratio | 1 | 241455 | 242188 |
| | ③ | 25:1 Ratio | 1 | 241449 | 242189 |
| 102 | Hydroil Motor Adapter | | 1 | C11762 | 352240 |
| 104 | Adapter Screw | | 5 | 417081 | 417081 |
| 106 | Lockwasher | | 5 | 419046 | 419046 |

Notes:

- ① Not shown on drawing.
- ② Includes Parts Listed Immediately Below
- ③ See Table 7 for actual ratio.
- ④ 6 required on SCXT1A, 7 required on SCXT2A
- ⑤ Included in Housing Assembly
- ⑥ Included In Kit

Parts for SCXT / HSCXT 3B, 4B and 5C Double Reduction Screw Conveyor and Hydroil Screw Conveyor Drive



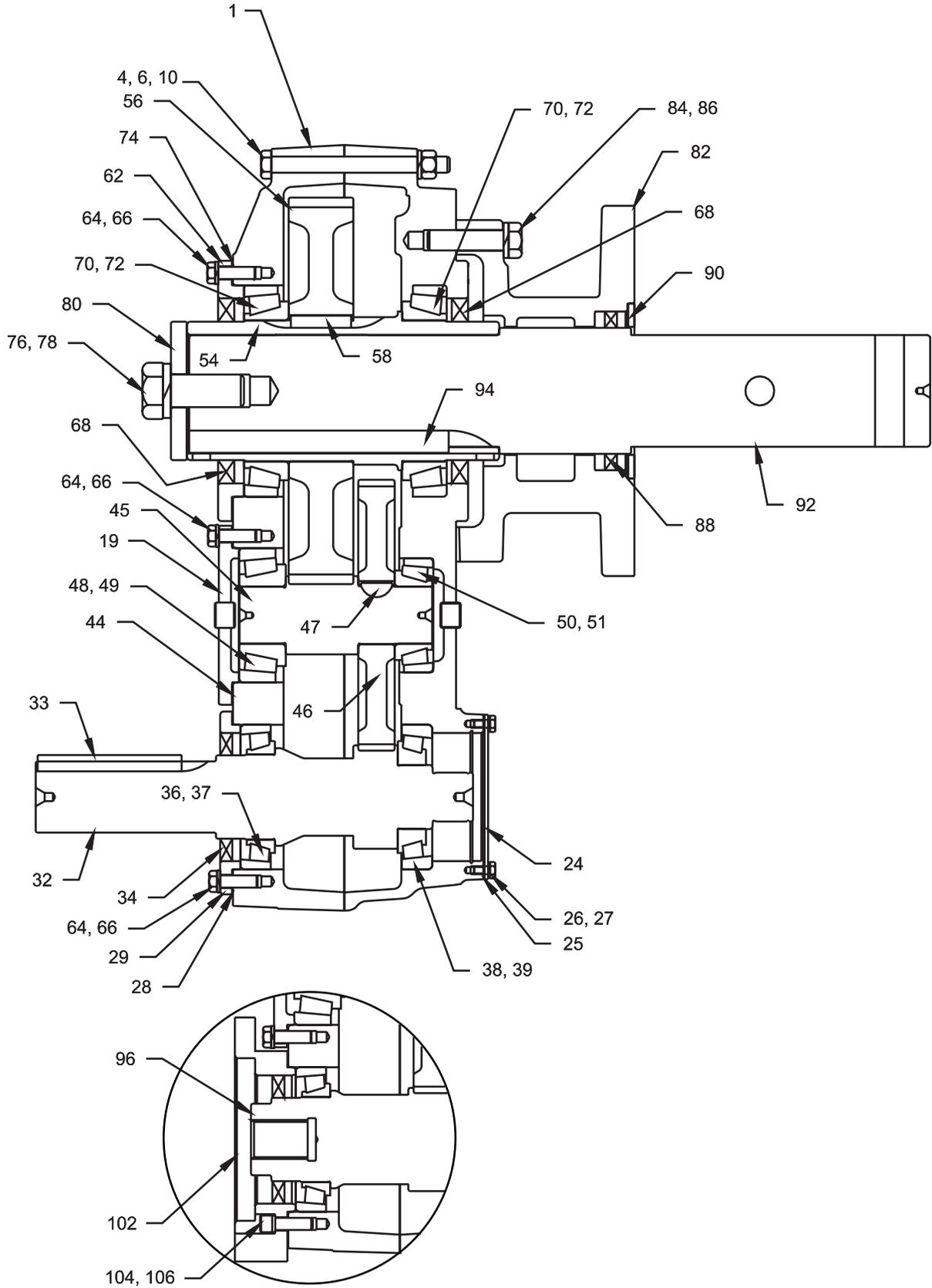
| Ref. | Description | Qty. | (H)SCXT 3B | (H)SCXT 4B | (H)SCXT 5C | |
|------|--------------------------------|--------|------------|------------|------------|--------|
| 1 | Housing Assembly | 1 | 243538 | 244569 | 245589 | |
| ① | RTV Sealant, Tube | 1 | 465044 | 465044 | 465044 | |
| ① | Air Vent | 1 | 900287 | 900287 | 904287 | |
| 4 | Housing Bolt | 8 | 411440 | 411442 | 411464 | |
| 6 | Lock-Washer | 8 | 419012 | 419012 | 419013 | |
| 10 | Hex Nut | 8 | 407089 | 407089 | 407091 | |
| ① | Dowel Pin ④ | 2 | 420063 | 420063 | 304624 | |
| ① | Magnetic Oil Plug | 1 | 430060 | 430060 | 430062 | |
| 14 | Oil Plug | 4 | 430031 | 430031 | 430033 | |
| 24 | Input Shaft Bearing Cover | 1 | 243560 | 244493 | 245226 | |
| 26 | Bearing Cover Screw | 4 | 416524 | 411035 | 411394 | |
| 27 | Lockwasher | 4 | --- | 419009 | 419009 | |
| 28 | Input Bearing Shim Pack | 2 Sets | 389704 | 389711 | 389732 | |
| 29 | Input Shaft Seal Carrier | 1 | 243543 | 244577 | 245597 | |
| 32 | Input Pinion | | | | | |
| | 9:1 Ratio ③ | 1 | 243549 | 244579 | 245599 | |
| | 15:1 Ratio ③ | 1 | 243550 | 244580 | 245600 | |
| | 25:1 Ratio ③ | 1 | 243551 | 244581 | 245601 | |
| 33 | Input Pinion Key | 1 | 443032 | 443082 | 443096 | |
| | Input Bearing Kit ② | | 389587 | 389590 | 389594 | |
| 36 | Input Bearing-LH | ⑤ Cone | 1 | 402204 | 402280 | 402144 |
| 37 | | ⑤ Cup | 1 | 403139 | 403027 | 403104 |
| 38 | Input Bearing-RH | ⑤ Cone | 1 | 402273 | 402142 | 402266 |
| 39 | | ⑤ Cup | 1 | 403094 | 403102 | 403073 |
| 44 | Countershaft Bearing Shim Pack | 2 Sets | 389705 | 389712 | 389718 | |
| | Countershaft Assembly ② | | | | | |
| | 9:1 Ratio ③ | 1 | 389729 | 389730 | 389731 | |
| | 15:1 Ratio ③ | 1 | 389700 | 389707 | 389714 | |
| | 25:1 Ratio ③ | 1 | 389701 | 389708 | 389715 | |
| 45 | Countershaft with Pinion ⑤ | 1 | 243555 | 244590 | 245596 | |
| | First Reduction Gear ⑤ | | | | | |
| | 9:1 Ratio ③ | 1 | 243237 | 244482 | 245482 | |
| | 15:1 Ratio ③ | 1 | 243238 | 244214 | 245214 | |
| | 25:1 Ratio ③ | 1 | 243239 | 244212 | 245212 | |
| 47 | Gear Key ⑤ | 1 | D8242 | D8243 | D8243 | |
| | Countershaft Bearing Kit ② | 1 | 389588 | 389591 | 389595 | |
| 48 | Countershaft Bearing - LH | ⑤ Cone | 1 | 402273 | 402000 | 402203 |
| 49 | | ⑤ Cup | 1 | 403094 | 403000 | 403027 |
| 50 | Countershaft bearing - RH | ⑤ Cone | 1 | 402273 | 402000 | 402203 |
| 51 | | ⑤ Cup | 1 | 403094 | 403000 | 403027 |
| | Output Hub Assembly ② | 1 | 389702 | 389709 | 389716 | |
| 54 | Output Hub ⑤ | 1 | 243557 | 244589 | 245591 | |
| 56 | Output Gear ⑤ | 1 | 243570 | 244188 | 245186 | |
| 58 | Output Gear Key ⑤ | 1 | 243216 | 354087 | 355064 | |
| 62 | Output Hub Seal Carrier | 1 | 243547 | 244591 | 245592 | |
| 64 | Carrier Screw | 6 | 411390 | 411407 | 411407 | |
| 66 | Lockwasher | 6 | 419010 | 419011 | 419011 | |

| Ref. | Description | Qty. | (H)SCXT 3B | (H)SCXT 4B | SCXT 5C | |
|------|-------------------------------|--------------|------------|------------|---------|--------|
| | Output Bearing Kit ② | 1 | 389589 | 389592 | 389596 | |
| 70 | Output Hub Bearings | ⑤ Cone | 2 | 402272 | 402268 | 402193 |
| 72 | | ⑤ Cup | 2 | 403127 | 403163 | 403016 |
| 74 | Output Hub Shim Pack | 2 Sets | 389706 | 389713 | 389719 | |
| 76 | Retainer Bolt | 1 | 411551 | 411551 | 411551 | |
| 78 | Lockwasher | 1 | 419016 | 419016 | 419016 | |
| 80 | Shaft Retainer | 1 | 353053 | 354088 | 355065 | |
| | Adapter Assembly ② | 1 | 353047 | 354121 | 355072 | |
| 82 | Adapter ⑤ | 1 | 353081 | 354081 | 355047 | |
| 84 | Bolt ⑤ | 4 | 411456 | 411483 | 411483 | |
| 86 | Lockwasher ⑤ | 4 | 419013 | 419014 | 419014 | |
| 88 | Lip Seal ⑤ | 1 | 353085 | 354115 | 355067 | |
| ① | Braided Seal ⑤ | 2 | 427658 | 427664 | 427674 | |
| 90 | Seal Retaining Ring ⑤ | 1 | 353054 | 354089 | 355066 | |
| | Adjustable Adapter Assembly ② | 1 | 356163 | 356149 | 356158 | |
| ① | Adjustable Adapter ⑤ | 1 | 356164 | 356150 | 356159 | |
| 84 | Bolt ⑤ | 4 | 411456 | 411483 | 411483 | |
| 86 | Lockwasher ⑤ | 4 | 419013 | 419014 | 419014 | |
| ① | Adjustable Packing Retainer ⑤ | 1 | 356166 | 356152 | 356161 | |
| ① | Stud ⑤ | 2 | 400404 | 400404 | 400404 | |
| ① | Hex Nut ⑤ | 2 | 407202 | 407202 | 407202 | |
| ① | Braided Seal ⑤ | 3 | 427658 | 427664 | 427674 | |
| 90 | Seal Retaining Ring ⑤ | 1 | 353054 | 354089 | 355066 | |
| 92 | Drive | 1-1/2" Dia. | 1 | 243562 | 244594 | --- |
| | Shaft ② | 2" Dia. | 1 | 243563 | 244595 | 355175 |
| | | 2-7/16" Dia. | 1 | 243564 | 244596 | 355176 |
| | | 3" Dia. | 1 | 243565 | 244597 | 355177 |
| | | 3-7/16" Dia. | 1 | --- | 244598 | 355178 |
| 94 | Key ⑤ | 1 | 443089 | 443114 | 443239 | |
| | Seal Kit ② | 1 | 389720 | 389721 | 389722 | |
| 34 | Input Seal ⑤ | 1 | 243558 | 244524 | 355011 | |
| 68 | Output Seal ⑤ | 2 | 243578 | 244673 | 245545 | |
| 25 | Input Bearing Cover Gasket ⑤ | 1 | 243561 | 244593 | 245220 | |
| 96 | Hydroil Input Pinion | | | | | |
| | 15:1 Ratio ③ | 1 | 243553 | 244583 | 245603 | |
| | 25:1 Ratio ③ | 1 | 243554 | 244584 | 245604 | |
| 102 | Hydroil Motor Adapter | | | | | |
| | 15:1 Ratio ③ | 1 | 243539 | 244572 | 245606 | |
| | 25:1 Ratio ③ | 1 | 243541 | 244572 | 245607 | |
| 104 | Adapter Screw | 4 | 417081 | 417108 | 415023 | |
| 106 | Lockwasher | | | | | |
| | 15:1 Ratio ③ | 4 | 419046 | 419047 | --- | |
| | 25:1 Ratio ③ | 4 | 419046 | 419047 | 419047 | |

Notes:

- ① Not shown on drawing.
- ② Includes Parts Listed Immediately Below
- ③ See Table 7 for actual ratio.
- ④ Included in Housing Assembly
- ⑤ Part of Kit Listed above

Parts for SCXT / HSCST 6A thru 8A Double Reduction
Screw Conveyor and Hydroil Screw Conveyor Drive



| Ref. | Description | Qty. | (H)SCXT 6A | (H)SCXT 7A | SCXT 8A | |
|------|--------------------------------|-----------|---------------|---------------|------------|--------|
| 1 | Housing Assembly | 1 | 356279 | 356280 | 248487 | |
| ① | RTV Sealant, Tube | 1 | 465044 | 465044 | 465044 | |
| ① | Air Vent | 1 | 904287 | 904287 | 904287 | |
| ① | Air Vent Bushing | 1 | --- | 430079 | 430079 | |
| 4 | Housing Bolt | ⑤ | 411466 | 411498 | 411499 | |
| 6 | Lock-Washer | ⑤ | 419013 | 419016 | 419016 | |
| 10 | Hex Nut | ⑤ | 407091 | 407095 | 407095 | |
| 12 | Dowel Pin ⑦ | 2 | 304624 | 304624 | 304624 | |
| ① | Magnetic Oil Plug | 1 | 430062 | 430064 | 430064 | |
| ① | Oil Plug | 1 | 430033 | 430035 | 430035 | |
| 24 | Input Shaft Bearing Cover | 4 | 246226 | 246226 | 248226 | |
| 26 | Bearing Cover Screw | 6 | 411394 | 411394 | 411394 | |
| 27 | Lockwasher | 6 | 419009 | 419009 | 419009 | |
| 28 | Input Bearing Shim Pack | 2 Sets | 391164 | 390420 | 390038 | |
| 29 | Input Shaft Seal Carrier | 1 | 246184 | 247320 | 258023 | |
| 32 | Input Pinion | | | | | |
| | 9:1 Ratio ③ | 1 | 246481 | 247479 | 248482 | |
| | 15:1 Ratio ③ | 1 | 246290 | 247370 | 248370 | |
| | 25:1 Ratio ③ | 1 | 246291 | 247371 | 248371 | |
| 33 | Input Pinion Key | 1 | 443113 | 443127 | 443133 | |
| 36 | Input Bearing-LH | Cone | 1 | 402196 | 402150 | 402098 |
| 37 | | Cup | 1 | 403091 | 430106 | 403072 |
| 38 | Input Bearing-RH | Cone | | 402197 | 402088 | 402097 |
| 39 | | Cup | | 403091 | 403047 | 403072 |
| 44 | Countershaft Bearing Shim Pack | 2 Sets | 391165 | 390429 | 391182 | |
| | Countershaft Assembly ② | | | | | |
| | 9:1 Ratio ④ | 1 | 392140 | 392141 | --- | |
| | 15:1 Ratio ④ | 1 | 391171 | 391196 | 391184 | |
| | 25:1 Ratio ④ | 1 | 391186 | 391197 | 391185 | |
| 45 | Countershaft with Pinion ③ | 1 | 246294 | 247002 | 248002 | |
| 46 | First Reduction Gear ③ | | | | | |
| | 9:1 Ratio ④ | 1 | 246482 | 247478 | 248483 | |
| | 15:1 Ratio ④ | 1 | 246292 | 247008 | 248213 | |
| | 25:1 Ratio ④ | 1 | 246293 | 247005 | 248214 | |
| 47 | Gear Key ③ | 1 | 245218 | 247218 | 248218 | |
| 48 | Countershaft Bearing-LH | Cone | 1 | 402054 | 402256 | 402057 |
| 49 | | Cup | 1 | 403159 | 403053 | 403143 |
| 50 | Countershaft Bearing-RH | Cone | 1 | 402052 | 402256 | 402148 |
| 51 | | Cup | 1 | 403142 | 403053 | 403106 |
| | Output Hub Assembly ② | | 390988 | 390990 | 390993 | |
| 54 | Output Hub ③ | | 246338 | 247338 | 248332 | |
| 56 | Output Gear ③ | | 246295 | 247215 | 248215 | |
| 58 | Output Gear Key ③ | | 245217 | 245217 | 248217 | |

| Ref. | Description | Qty. | (H)SCXT 6A | (H)SCXT 7A | SCXT 8A | |
|------|-------------------------------|--------------|---------------|---------------|------------|--------|
| 62 | Output Hub Seal Carrier | 1 | 246187 | 247315 | 258021 | |
| 64 | Carrier Screw | ⑥ | 411408 | 411433 | 411408 | |
| 66 | Lockwasher | ⑥ | 419011 | 419012 | 419011 | |
| | Output Hub Bearings | Cone | 2 | 402050 | 402058 | 402147 |
| | | Cup | 2 | 403140 | 403111 | 403105 |
| | Output Hub Shim Pack | 2 Sets | 391187 | 390444 | 390048 | |
| 76 | Retainer Bolt | 1 | 411552 | 411552 | 411552 | |
| 78 | Lockwasher | 1 | 419020 | 419020 | 419020 | |
| 80 | Shaft Retainer | 1 | 356047 | 356191 | 248486 | |
| | Adapter Assembly ② | 1 | 356055 | 356187 | 248470 | |
| 82 | Adapter ② | 1 | 356049 | 356189 | 248471 | |
| 84 | Bolt ② | 4 | 411487 | 411496 | 411496 | |
| 86 | Lockwasher ② | 4 | 419014 | 419016 | 419016 | |
| 88 | Lip Seal ② | 1 | 355054 | 355054 | 355054 | |
| ① | Braided Seal ② | 2 | 427687 | 427687 | --- | |
| 90 | Seal Retaining Ring ② | 1 | 356054 | 356054 | 248481 | |
| | Adjustable Adapter Assembly ② | 1 | 356154 | 356192 | --- | |
| ① | Adjustable Adapter ③ | 1 | 356155 | 356193 | --- | |
| 84 | Bolt ③ | 4 | 411487 | 411496 | --- | |
| 86 | Lockwasher ③ | 4 | 419014 | 419016 | --- | |
| ① | Adjustable Packing Retainer ③ | 1 | 356157 | 356157 | --- | |
| ① | Stud ③ | 2 | 400404 | 400404 | --- | |
| ① | Hex Nut ③ | 2 | 407202 | 407202 | --- | |
| ① | Braided Seal ③ | 3 | 427687 | 427687 | --- | |
| 90 | Seal Retaining Ring ③ | 1 | 356054 | 356054 | --- | |
| 92 | Drive | 1-1/2" Dia. | 1 | 356040 | 356180 | --- |
| | Shaft ② | 2" Dia. | 1 | 356041 | 356181 | --- |
| | | 2-7/16" Dia. | 1 | 356042 | 356182 | --- |
| | | 3" Dia. | 1 | 356043 | 356183 | 248473 |
| | | 3-7/16" Dia. | 1 | 356044 | 356184 | 248474 |
| 94 | Key ③ | | 1 | 443288 | 443289 | 443289 |
| | Seal Kit ② | | 1 | 246340 | 247345 | 248340 |
| | Input Seal ③ | | 1 | 242210 | 242210 | 248211 |
| | Output Seal ③ | | 2 | 246310 | 247310 | 258019 |
| | Input Bearing Cover Gasket ③ | | 1 | 246220 | 246220 | 248220 |
| 96 | Hydroil Input Pinion Ratio ④ | 15:1 | 1 | 246230 | 247463 | --- |
| | Ratio ④ | 25:1 | 1 | 246286 | 247462 | --- |
| 102 | Hydroil Motor Adapter | | 1 | 246465 | 247464 | --- |
| 104 | Adapter Screw | | 6 | 417108 | 417141 | --- |
| 106 | Lockwasher | | 6 | 419047 | 419048 | --- |

Notes:

① Not shown on drawing.

② Includes Parts Listed Immediately Below

③ Included in Kit

④ See Table 7 for actual ratio.

⑤ 8 required on SCXT6A and SCXT7A, 11 required on SCXT8A,

⑥ 18 Required on SCXT6A, 20 Required on SCXT7A, and 24 Required on SCXT8A.

⑦ Included in Housing Assembly



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