

"G" PowerTrak

INSTALLATION AND MAINTENANCE INSTRUCTIONS



INTRODUCTION

The GLEASON POWERTRAK CABLE AND HOSE CARRIER is a modular system that controls and protects electric cables and hydraulic or air hoses supplying power to machine components, robots, etc. It consists of links hinged together to form a continuous trak of the proper length. Carrier elements between the links support the cables and hoses. One end of the trak is fixed within a guide tray or on some other support surface. The other end is fastened to a tow arm on the movable machine. Depending on the application, POWERTRAK may be installed singly (from one end of travel), or double (opposed). See Figure 1. NOTE: If installation includes guide tray or tray and carriage, assemble tray at step 3 and carriage at step 9 following separate instruction provided with those components.

Shorter POWERTRAK assemblies are shipped in one piece, coiled for ease of handling. Longer traks are shipped in coiled sections which must be field assembled.

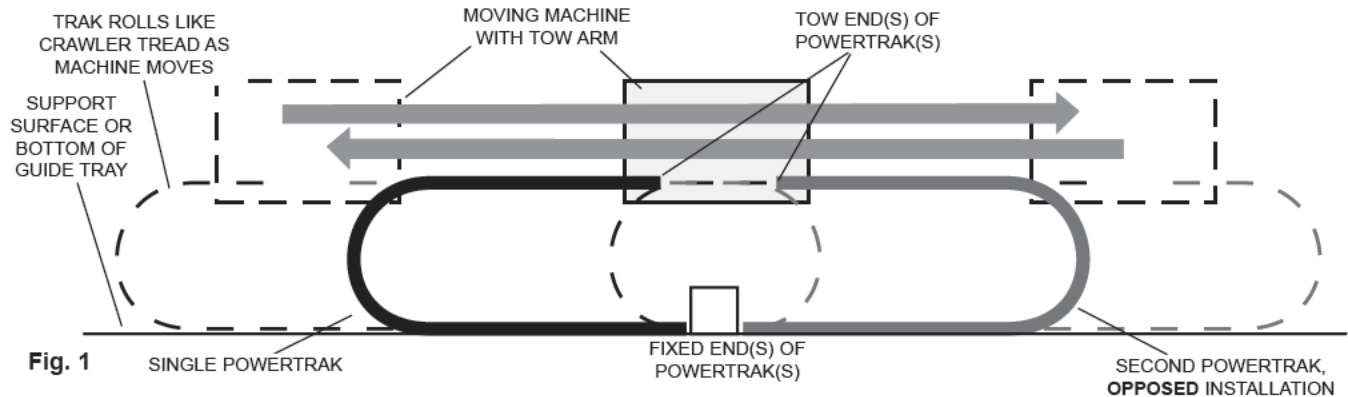


Fig. 1

POWERTRAK ASSEMBLY

STEP 1: Carefully inspect all shipping containers for damage. Do not accept shipment if severely damaged or file claim with carrier. GLEASON REEL will not be responsible for damage incurred during shipment.

STEP 2: Unpack and identify components against PACKING LIST.

STEP 3: If guide tray is to be used, assemble tray per POWERTRAK GUIDE TRAY AND CARRIAGE ASSEMBLY instructions, included with tray. Verify that guide tray is installed parallel to movement of machine tow arm and is properly anchored.

NOTE:

Carriage, if used, should be installed during Step 9 of these instructions.

STEP 4: Locate FIXED END anchor points. Refer to Figure 1, above.

STEP 5: If trak was shipped in sections, assemble trak in tray. See Figure 2 and assembly procedure at right.

***SPLICE KITS
STARRED ITEMS INCLUDED**

TRAK SERIES	KIT PART NO.
28G	03760701
35G	03760702
45G	03760703

*FLAT PLATE

Fig. 2-POWERTRAK LINK ASSEMBLY PROCEDURE

A: Slide trak links together. Be sure all are oriented the same way.

B: Align hinge pin with hole, flange end to outside.

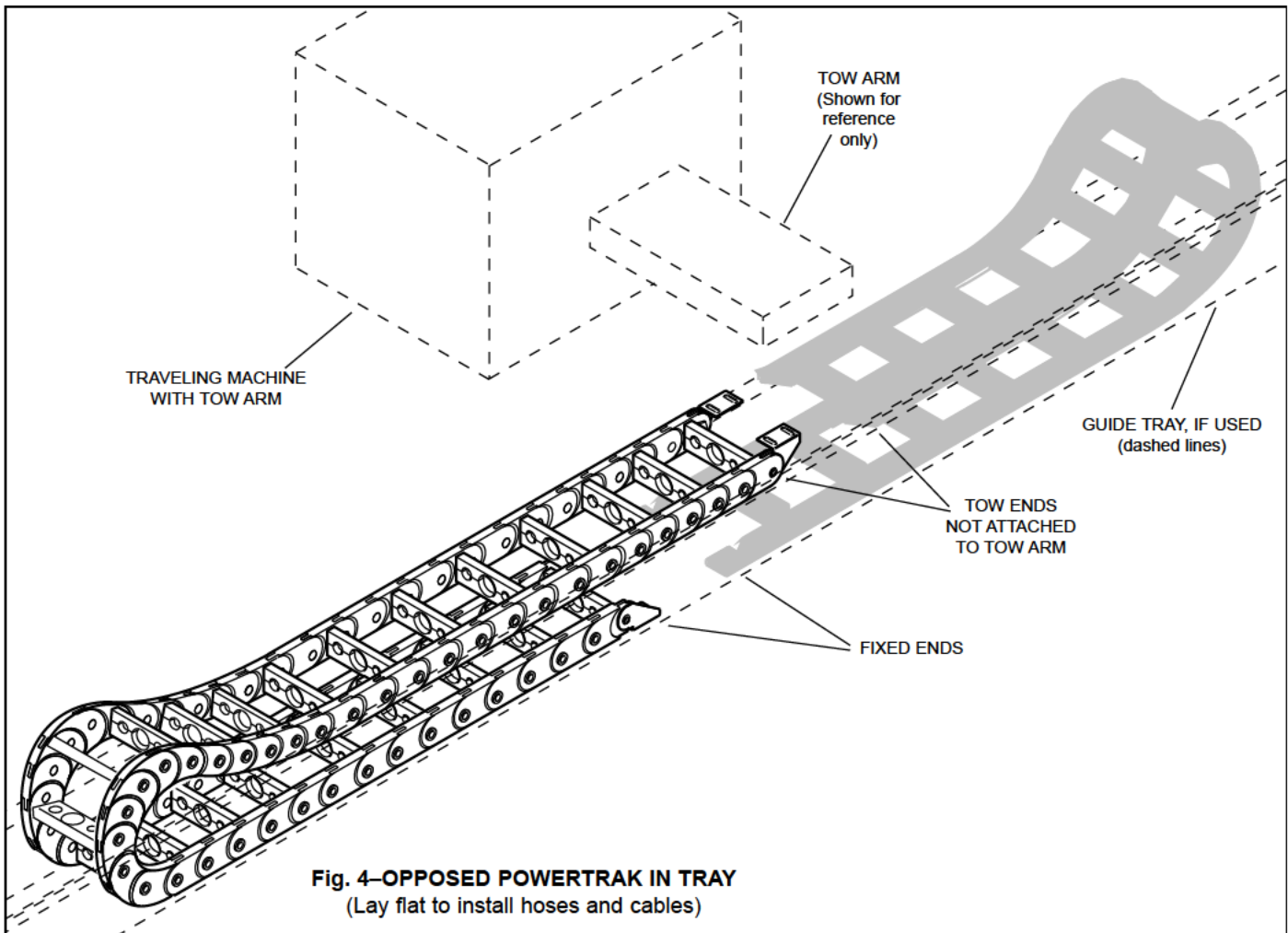
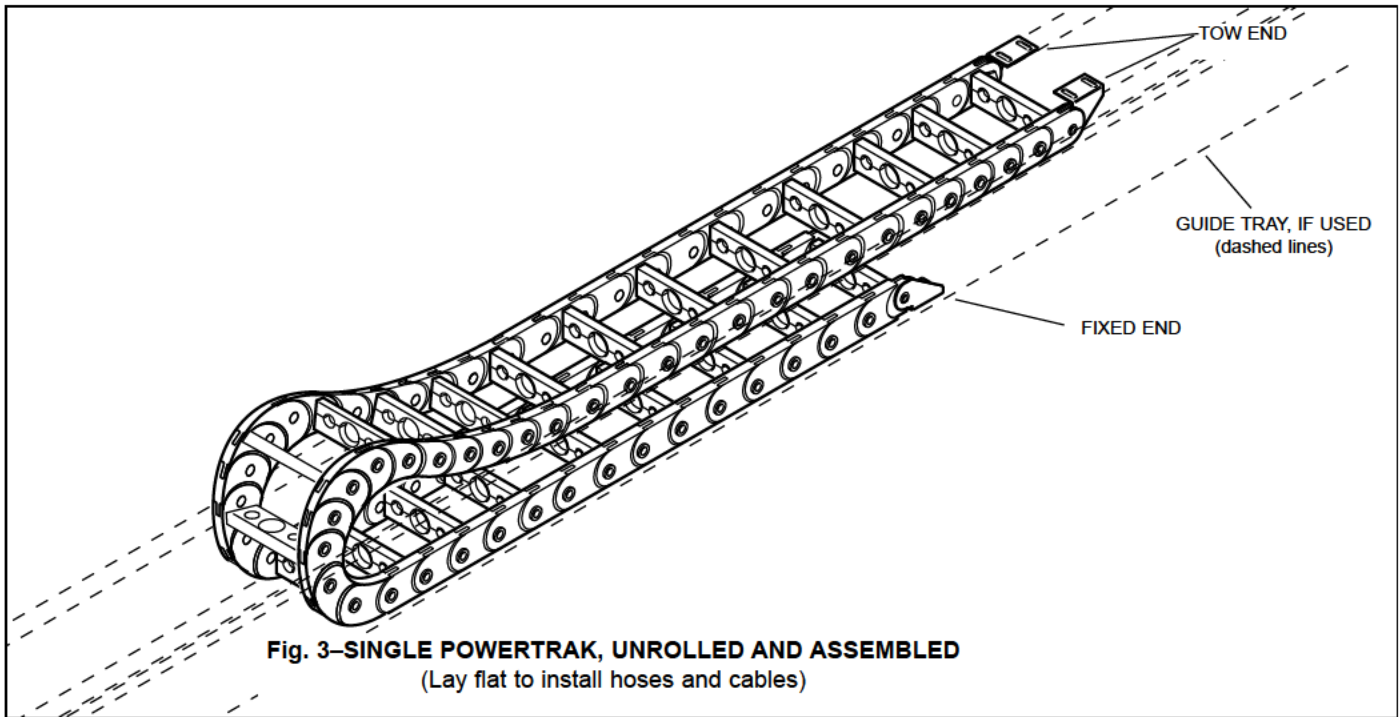
C: Position flat plate and thrust plate on sides of links as shown.

D: Using C-clamp, apply force to hinge pin until seated against link.

STEP 5a: If trak was shipped assembled and coiled, carefully lift coil using lifting strap looped through center of coil. Place in tray and unroll. Check for proper orientation (See Figs. 3 & 4).

STEP 6: Check length of trak(s) by clamping fixed end in position and moving tow end through entire range of machine motion. Add or remove trak

links if required. See MAINTENANCE on last page of these instructions.



STEP 7: Install cables and hoses.

A. On short traks and if carrier elements allow passage of couplings or plugs, hose and cable may be installed from the end. Carefully guide end of each cable or hose through carriers and pull until entire cable or hose is in trak.

B. On longer traks, or if fittings will not fit through carriers, use the following procedure:

1. Lay trak on blocks supported by guide tray. (See Fig. 5).
2. Remove upper carrier elements to allow access to compartments.
3. Arrange cables and hoses on lower carrier elements.
4. Check orientation of cables and hoses with machine hook-up requirements.

5. Replace carrier elements. Tighten all screws holding carriers elements.
6. Adjust positions of separators (when supplied) to insure clearance around hoses and cables.

STEP 8: Bolt brackets on **FIXED END** of trak to bottom of guide tray or other support surface. (Refer to Figure 1.)

STEP 9: Install carriage, if used. See **GUIDE TRAY AND CARRIAGE ASSEMBLY** instruction sheet.

STEP 10: Bolt brackets on **TOW END** of trak to tow arm on machine. (Refer to Figure 1.)

STEP 11: Adjust tension of cables and hoses in trak. (See Figs. 6 & 7). Too

much tension can cause binding and undue wear. Too little tension increases wear because of "snaking" within the trak as it moves. Note that initial tension for hydraulic hoses is different than that for cables because hoses expand and lengthen under pressure.

STEP 12: Securely clamp cables and hoses in place within 20" (0.5m) of each end of trak.

STEP 13: Operate trak slowly through one complete cycle to verify capacity and operation. Consult Gleason Reel or your local Gleason Representative if you have questions or problems.

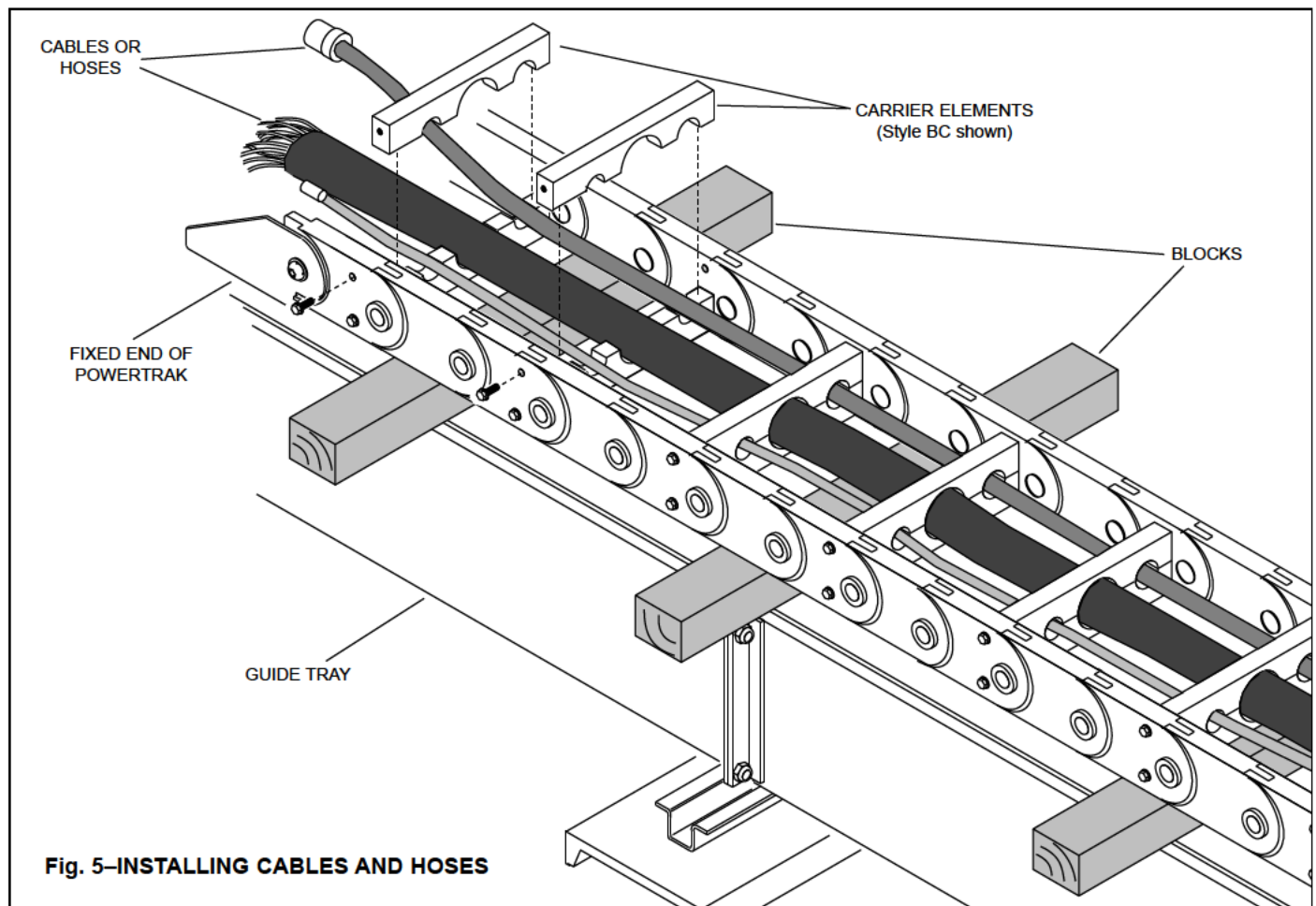


Fig. 5—INSTALLING CABLES AND HOSES

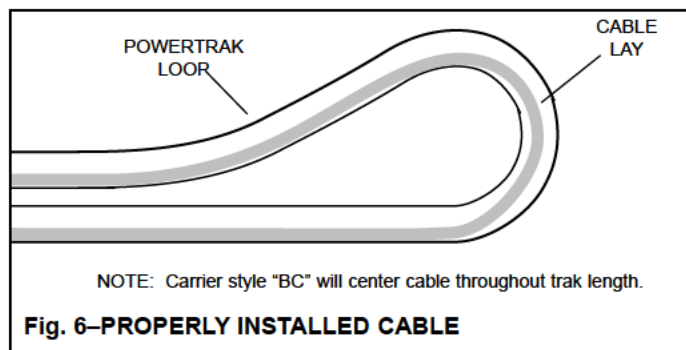


Fig. 6—PROPERLY INSTALLED CABLE

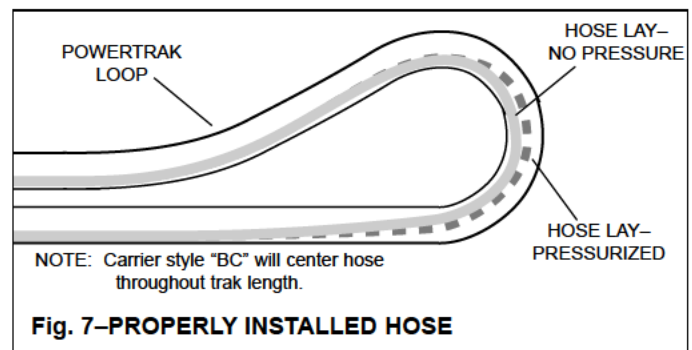


Fig. 7—PROPERLY INSTALLED HOSE

MAINTENANCE

ROUTINE MAINTENANCE:

No lubrication is required.

Thoroughly clean trak, tray and carriage assembly as required. Remove trash, metal shavings and other objects that could interfere with the proper operation of the trak and cause undue wear to the trak, cables and hoses.

Every 60 days, thoroughly inspect cables and hoses for wear and check tension. Repair or replace as needed. Hose splices are not permitted within confines of PowerTrak.

Every 90 days, inspect bolts affixing both ends of trak. tighten as required.

Inspect trak links for damage or excessive wear. Replace, if required, as shown below. Also, inspect all bolts holding carrier elements and mounting brackets to links. Tighten as required.

LINK DISASSEMBLY

- A: Align pin pusher with inside surface of hinge pin.
- B: Place ring socket thrust plate over outside flange of hinge pin.
- C: Use C-clamp to apply force with pin pusher until pin is free of links. **NOTE:** Pins may be reused if locking ears are in good shape.

LINK ASSEMBLY

- A: Slide trak links together.
- B: Align hinge pin with hole, flange end to outside.
- C: Place plates on both sides, as shown.
- D: Apply force to hinge pin until seated against the link using a C-clamp.

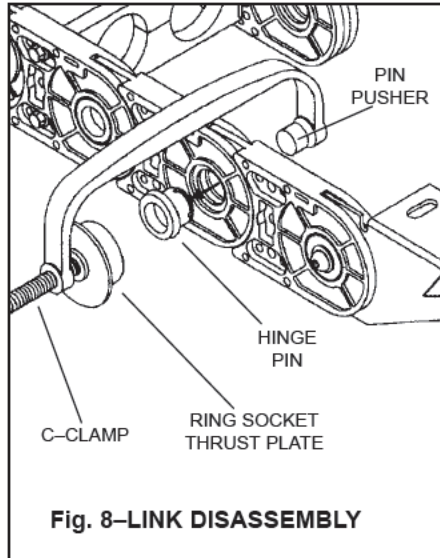


Fig. 8-LINK DISASSEMBLY

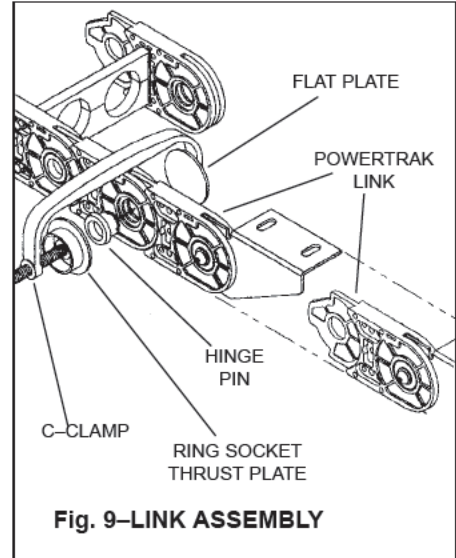


Fig. 9-LINK ASSEMBLY

MOUNTING BRACKET ATTACHMENT

Refer to Figs. 10 & 11 below.

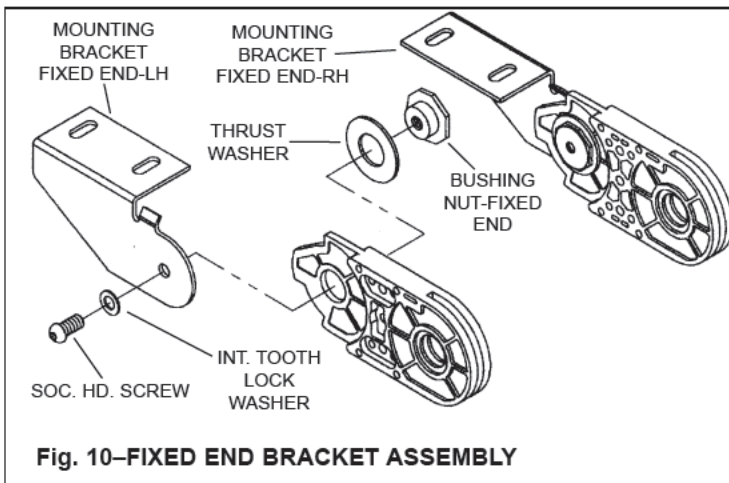


Fig. 10-FIXED END BRACKET ASSEMBLY

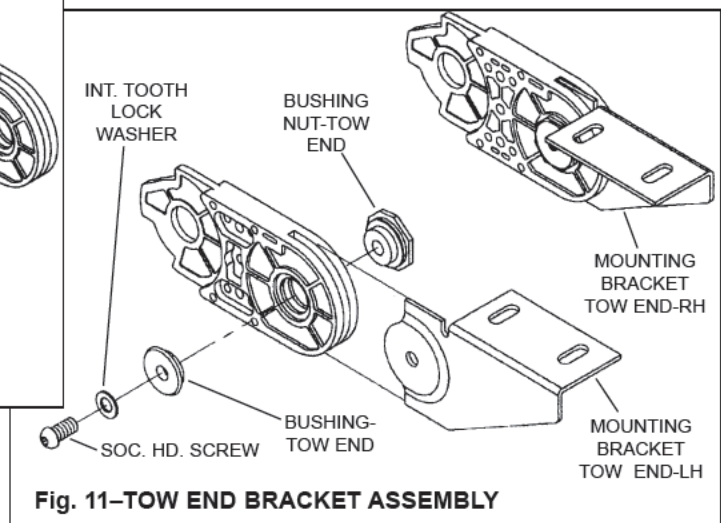


Fig. 11-TOW END BRACKET ASSEMBLY



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