Disassembly and Assembly
TH62, TH63, TH82, TH83 and TH103 Telehandlers Machine Systems

Hydraulic Oil Lines (Boom) - Remove

Removal Procedure

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<td>Required Tools</td>
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<table>
<thead>
<tr>
<th>Tool</th>
<th>Part Number</th>
<th>Part Description</th>
<th>Qty</th>
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<tr>
<td>A</td>
<td>180-3034</td>
<td>Jack Stand Gp</td>
<td>1</td>
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Start By:

A. Release the hydraulic system pressure. Refer to Disassembly and Assembly, "Hydraulic System Pressure - Release".

⚠️ WARNING

Personal injury can result from hydraulic oil pressure and hot oil.

Hydraulic oil pressure can remain in the hydraulic system after the engine has been stopped. Serious injury can be caused if this pressure is not released before any service is done on the hydraulic system.

Make sure all of the work tools have been lowered to the ground, and the oil is cool before removing any components or lines. Remove the oil filler cap only when the engine is stopped, and the filler cap is cool enough to touch with your bare hand.
NOTICE

Care must be taken to ensure that fluids are contained during performance of inspection, maintenance, testing, adjusting and repair of the product. Be prepared to collect the fluid with suitable containers before opening any compartment or disassembling any component containing fluids.

Refer to Special Publication, NENG2500, "Caterpillar Tools and Shop Products Guide" for tools and supplies suitable to collect and contain fluids on Caterpillar products.

Dispose of all fluids according to local regulations and mandates.

1. Put identification marks on all lines, on all hoses, and on all tubes for installation purposes. Plug all lines, all hoses, and all tubes in order to prevent fluid loss and help keep contaminants from entering the system.

2. Park the machine on firm level ground and engage the parking brake. Install tool (A) in order to support the boom.
3. Remove two bolts (1) and two washers (2) in order to remove cover plate (3).

4. Remove six bolts (4), six washers (5), and shims (6). Remove lock bolt (7) in order to remove bolt (8) and washer (9).

5. Remove four bolts (10), four washers (11) and plate (12). Remove four bolts (13), four washers (14), and four nuts (15). Remove four bolts (16), four washers (17), and four nuts (18).

6. With the aid of a second person, remove bracket (19). The weight of bracket (19) is 18 kg (39.6 lb).
7. Remove two bolts (20) and two washers (21) in order to remove cover plate (22).

8. Loosen two retaining nuts (23) and disconnect two tubes (24). Loosen two retaining nuts (25) and disconnect two hoses (26). Move tubes (24) and hoses (26) aside. Remove two bolts (27), two washers (28), two plates (29), and four half clamps (30).
9. Attach a rope to two tubes (31) and two tubes (32) for installation purposes.

![Illustration 8](g00748887)

10. Disconnect chain case (33) that protects two hoses (34) and move the chain case toward the rear of the boom.

![Illustration 9](g00748904)

11. Pull hoses (34) out of the boom enough to gain access to tubes (31). Loosen two retaining nuts (34) and disconnect hoses (35).
12. On the underside of the boom, loosen two retaining nuts (36) and disconnect two tubes (37).

13. At the rear of the boom, firmly attach a rope to two hoses (34). With an assistant at the rear of the boom, withdraw the hoses through chain case (33) toward the front of the machine. Detach the ropes from each hose (34). Leave the ropes in chain case (33) in order to assist with the installation.
14. Loosen two retaining nuts (38) in order to remove two tubes (37) from two hoses (34).

15. Repeat steps 10 through 14 in order to remove the hoses from the opposite side.