Removing brake drums and clutch shifters

Preparatory steps
(a) Remove operator's seat and seat bracket.
(b) Remove steering clutch levers and brake pedal.

Procedure
(1) Loosen off twelve bolts securing cover, and remove cover.

NOTE
Take out desiccant from inside the clutch case.

(2) Remove bolt (1), and separate arm (2) and spring (3). Loosen off set bolt (4).
(3) Remove grease fitting (nipple) (5), and disconnect hose (6) from clutch case.
(4) Remove set bolt (8) of cam (7) and set screw (10) of lever (9).

(5) Attach a lifting sling to tie pin, and have clutch drum and shifter suspended.

(6) Loosen off ten bolts (11) to separate final drive pinion from drum.

(7) Loosen off eight bolts (12) to separate drive shaft from shaft.

(8) Remove cover (13), and pull out shaft (14).

(9) Displace cam (7) in the direction of arrow to obtain about 50 mm (2 in.) in the clearance between the cam yoke roller (15).

(10) Lift clutch assembly within clutch case. Remove bolt from socket, and plumb up yoke. Displace cam (7) all the way in the direction of arrow A (toward the bevel gear side) and lever (9) in the...
direction of arrow B (toward the final drive side), and lift off steering clutch complete with brake and yoke.

Installing brake drums and clutch shifters

Procedure
(1) Place steering clutch complete with brake and yoke in clutch case.
(2) Install shaft (1) to brake lever.
(3) Install final drive pinion to drum.
(4) Connect drive shaft to shaft.

(5) Install set bolt and set screw.
(6) Connect hose to clutch case, and install grease fitting.
(7) Screw set bolt, and install arm and spring.
(8) Install cover with twelve bolts.

Subsequent steps
(a) Install steering clutch levers and brake pedal.
(b) Install operator’s seat bracket and seat.

Disassembling clutch and yoke

Clutch and yoke — disassembled view

1-Drum
2-Bolt
3-Lock washer
4-Washer
5-Spring pin
6-Shaft
7-Set screw
8-Nut
9-Guide (6 pcs)
10-Retainer (6 pcs)
11-Spring (6 pcs)
12-Drum
13-Plate (6 pcs)
14-Plate (6 pcs)
15-Pin (6 pcs)
16-Plate
17-Hose
18-Bolt (2 pcs)
19-Shifter
20-Bolt with washer (4 pcs each)
21-Seal case
22-Bearing
23-Seal
(5) With clutch plate assembly held on a bench, give a push to guide (7) (to compress spring under the guide), using a tool (A), and remove retainer (8).

(6) Remove guide (7), spring (9) and plate (10).

**NOTE**
A total of six retainers, six guides and six springs are used in each clutch.

(7) Disconnect hose (11) from clutch case, and remove shifter (12).
Assembling clutch and yoke

<table>
<thead>
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<th>Tool name</th>
<th>Tool number</th>
<th>Qt.</th>
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<tr>
<td></td>
<td>Steering clutch tool</td>
<td>58609-01900</td>
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Procedure
Assembly is the reverse of disassembly procedure.

NOTE
Align drive and driven plates with respect to their teeth.

Disassembling bevel gear and shaft

Bevel gear and shaft — disassembled view

1-Drive shaft
2-Coupling (2 pcs)
3-Bolt (2 pcs)
4-Lock washer (2 pcs)
5-Washer (2 pcs)
6-Bevel gear
7-Spacer
8-Bolt with washer (2 pcs each)
9-Locking plate (2 pcs)
10-Nut (2 pcs)
11-Set screw
12-Bearing cage
13-Bearing
14-Oil seal

Tool required

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<tr>
<td>Wrench</td>
<td>58309-01900</td>
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Procedure
(1) Loosen off bolt (1), and remove lock washer and washer at each end of drive shaft.

(2) Give blows of a soft-faced hammer or mallet to drive shaft, and remove bevel gear (2) and spacer (3).

(3) Remove right and left locking plates (4), and, using a wrench (A), loosen off right and left nuts (5).

(4) Remove bearing cages, each complete with bearing, oil seal and coupling, from gear case by loosening off set screws.

(5) Remove bearing, oil seal and coupling from each bearing cage.

Assembling bevel gear and shaft

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