

Installation Instructions for SPRAG CLUTCH

Underwound and Mirror units ONLY

This instruction sheet provides information for service personnel to install and service the sprag clutch assembly. Use this sheet in conjunction with FA2.5A and FA2B Winch Parts, Operation and Maintenance Manuals MHD56114 and MHD56177.

PROCEDURES

Throughout this instruction sheet there are steps and procedures which, if not followed, may result in a hazard. Refer to the FA2.5A and FA2B Winch Parts, Operation and Maintenance Manuals MHD56114 and MHD56177 for an explanation of signal words used to identify the level of potential hazard. Read instructions listed in the "Maintenance" section of manual prior to performing this procedure.

CAUTION

- For mirror image units ONLY. Mirror image units are identified by air motor on left side when standing behind unit with wire rope haul-in/payout in front.

WARNING

- Incorrect assembly of the sprag clutch will adversely affect winch operation. In haul-in operation, sprag clutch will be engaged resulting in restricted winch operation. In neutral and payout positions, the sprag clutch can rotate resulting in brake not holding load. Ensure sprag clutch is correctly installed.

Disassembly

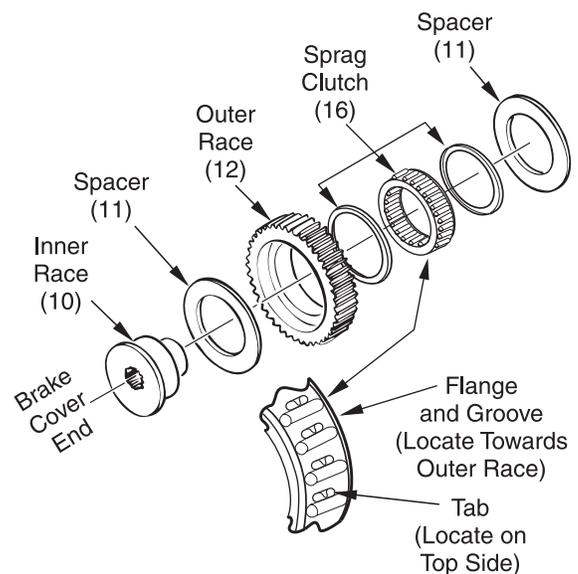
Disassembly procedures are the same as for standard units. Refer to Parts, Operation and Maintenance Manuals.

FA2.5A Sprag Clutch Assembly

Refer to Dwg. MHP0630 in manual MHD56114 and Dwg. MHP2042 on this page.

1. Install bearing (21) in support plate (19) and secure with retainer ring (22).
2. In this order, place spacer (11), sprag clutch (16), outer race (12) and spacer (11) on inner race (10). Test sprag clutch operation.
3. Sprag clutch must be installed opposite of standard units to function properly.

Sprag Clutch Assembly (Underwound and Mirror units ONLY)



(Dwg. MHP2042)

For replacement parts list, refer to FA2.5A Winch Parts, Operation and Maintenance Manual MHD56114.

NOTICE

- When placing sprag clutch on inner race tabs should face up or opposite of standard units.
- When viewed from the brake cover end of the sprag clutch assembly, correct sprag clutch installation prevents counterclockwise rotation of inner race when holding the outer race.

FA2B Sprag Clutch Assembly

Refer to Dwg. MHP1579 in manual MHD56177 and Dwg. MHP2138 on page 2.

1. Install bearing (95) in support plate (96) and secure with retainer ring (94).

Form MHD56214

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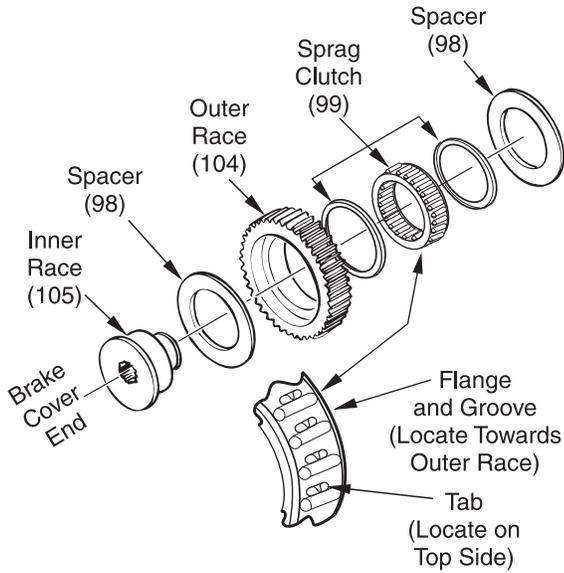
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2. In this order, place spacer (98), sprag clutch (99), outer race (104) and spacer (98) on inner race (105). Test sprag clutch operation.
3. The sprag clutch must be installed opposite of standard units to function properly

Sprag Clutch Assembly

(Underwound and Mirror units ONLY)



(Dwg. MHP2138)

For replacement parts list, Refer to FA2B Winch Parts, Operation and Maintenance Manual MHD56177.

NOTICE

- When placing sprag clutch on inner race tabs should face up or opposite of standard units.
- When viewed from the brake cover end of the sprag clutch assembly, correct sprag clutch installation prevents counterclockwise rotation of inner race when holding the outer race.

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