

SPRAG CLUTCH RETAINING RING

for CH210A, CH260A, CH290A, and PD21A hoists

The hoist models listed below are special models within these series: CH210A, CH260A, CH290A, and PD21A. These hoists use two retaining rings (part number 28734) in the inner race of the overrunning clutch (sprag clutch).

BRADEN hoist part numbers affected by this issue include the following:

1. 05023 – Model CH210A-SPL-50C2C-04G SAE C
2. 05161 – Model CH210A-SPL-50D4D-03G SAE D
3. 05216 – Model CH210A-SPL-50P065-03G SAE D
4. 05361 – Model CH210A-SPL-50C2C-03G SAE C
5. 05532 – Model CH210A-SPL-36P065-03G SAE D
6. 06894 – Model CH210A-E2-50C2C-030G SAE C
7. 06856 – Model CH260A-SPL-50C2C-04G SAE C
8. 06944 – Model CH290A-E2-50D24D-04G SAE D
9. 06440 – Model PD21A-SPL-50V060/041-08G SAE D
10. 06446 – Model PD21A-SPL-50V065/037-08G SAE D
11. 06947 – Model CH290A-E2-50D24D-07G SAE D

Units with SAE C motors also have an SAE D to SAE C spline adapter (part number 103445) and a spacer (part number 103446). These two retaining rings, spline adapter, and spacer must be installed when servicing the hoist.

▲ WARNING ▲

A missing sprag clutch retaining ring or motor cover spacer may result in the load dropping, which could result in property damage, severe personal injury, or death.

If these parts are not installed:

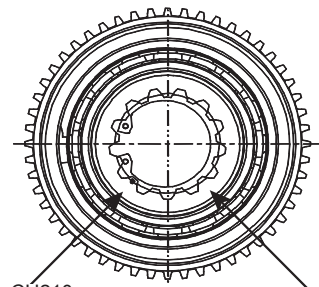
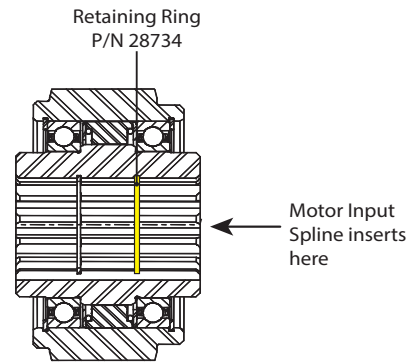
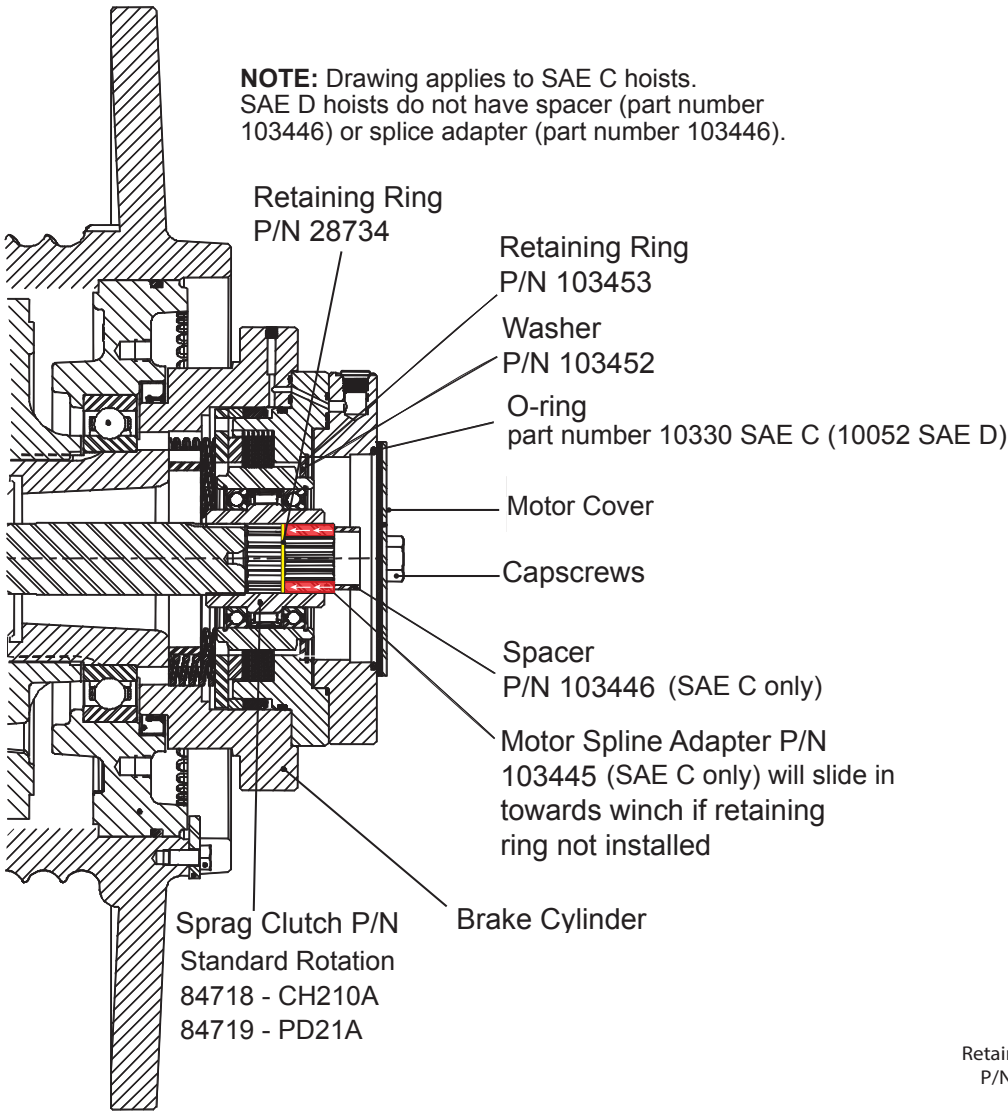
- In the hoists listed with SAE C motors, the motor spline adapter (part number 103445) can slide toward the hoist, disengaging from the input spline of the hydraulic motor and resulting in a dropped load.
- In hoists listed with SAE D motors, the overrunning clutch assembly is retained by a retaining ring (part number 103453) and washer (part number 103452). The second snap ring provides additional protection to prevent the overrunning clutch assembly from sliding toward the motor.

To order a replacement overrunning clutch assembly for these units, use the part number listed below which comes with both inner race retaining rings (part number 28734) installed:

- For CH210A, CH260A, and CH290A standard rotation hoists – part number 84718
- For PD21A standard rotation hoists – part number 84719

(OVER)

NOTE: Drawing applies to SAE C hoists.
 SAE D hoists do not have spacer (part number 103446) or splice adapter (part number 103445).



In models CH210, CH260A, and CH290A, the inner race rotates freely in the Counter-clockwise direction when viewed from the input side

In hoist model PD21A, the inner race rotates freely in the clockwise direction when viewed from the input side

Disassembly and inspection instructions for overrunning clutch on CH210A, CH260A, CH290A, PD21A hoists listed on first page of this bulletin:

1. Remove brake release hose connection at hoist.
2. Remove capscrews from motor flange and remove motor. If new hoist installation, remove capscrews from the motor cover plate.
3. Remove motor pilot O-ring.
4. For SAE C UNITS – Remove the spacer (part number 103446) and motor spline adapter (part number 103445).
5. Inspect the following:
 - Examine inner brake race ID on sprag clutch (part number 82). There must be TWO retaining rings seated in the grooves in the inside of the inner brake race.
 - Examine brake cylinder (part number 82963) to ensure that washer (part number 103452) and retaining ring (part number 103453) are present and in position.

After a thorough inspection, complete the following procedure:

1. For SAE C units – Replace motor spline adapter (part number 103445).
2. Install motor pilot O-ring (SAE C part number 10330; SAE D 10052).
3. For SAE C units – Install spacer (part number 103446) over motor splined shaft.
4. Install hydraulic motor on hoist and secure with motor flange fasteners.
5. Complete hydraulic motor connections.
6. If oil was lost, fill hoist with approved oil from Service Bulletin 503 Rev 8.
7. Allow oil to settle and check oil level. Repeat if necessary.
8. Test hoist for proper raising and lowering operation.
9. Install rope and test for proper operation.

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3. 05216 – Model CH210A-SPL-50P065-03G
4. 05361 – Model CH210A-SPL-50C2C-03G
5. 05532 – Model CH210A-SPL-36P065-03G
6. 06894 – Model CH210A-E2-50C2C-030G
7. 06856 – Model CH260A-SPL-50C2C-04G
8. 06944 – Model CH290A-E2-50D24D-04G
9. 06440 – Model PD21A-SPL-50V060/041-08G
10. 06446 – Model PD21A-SPL-50V065/037-08G
11. 06947 – Model CH290A-E2-50D24D-07G SAE D

For inquiries regarding your BRADEN planetary hoist or this service bulletin, please contact BRADEN Service Department at 918-251-8511, Monday through Friday, 8:00 a.m. to 4:30 p.m. (CST), or by fax at 1-918-259-1575.