



Model: See Affected Models Serial #: N/A	Jun. 11, 2025
Product Bulletin # TDS-268 Rev 1	

High Torque Gearcase Intermediate Shaft Bearing Upgrade Kit

Canrig has upgraded the intermediate shaft bearing configuration on its C500 and C750 high ratio top drives to enhance performance and reliability in demanding drilling conditions.

The new high torque gearcase upgrade kit (Canrig P/N: AY28071) features redesigned intermediate shaft bearings using high-capacity tapered roller bearings, offering improved resistance to axial and radial loads under rough drilling or jarring conditions.

NOTICE

Refer to the drive product manual for inspection guidelines following rough drilling or jarring events.

Affected Models

C500-865 and C750-865 Top Drives

Upgrade Information

The intermediate shaft bearing upgrade requires full disassembly of the top drive in a shop facility by a qualified technician.

We recommend scheduling this upgrade to coincide with the top drive's Level IV recertification.

NOTICE

Prior to starting the disassembly, drain the gearcase oil by removing the drain plug at the bottom of the gearcase. Remove the drain plug at the bottom of the rotary manifold to remove any oil in the manifold.

Refer to Table 1 on page 2 for components required for the new high torque gearcase upgrade kit.



Model: See Affected Models
Serial #: N/A

Jun. 11, 2025

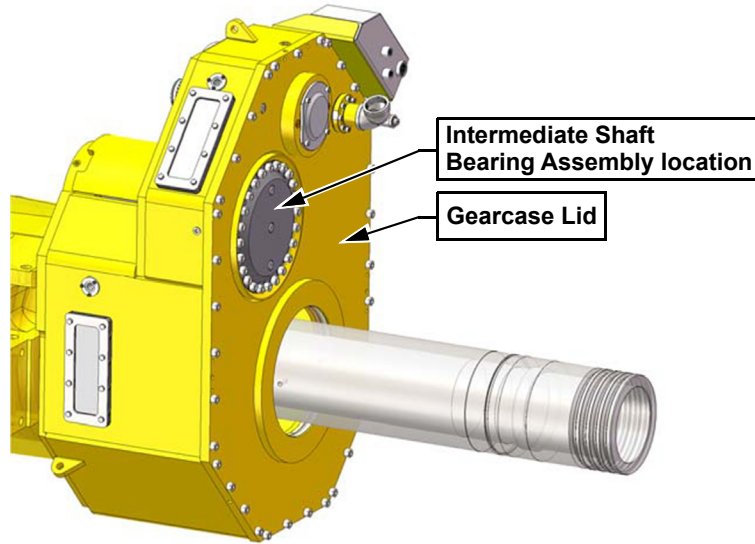


Figure 1: Intermediate Shaft Bearing Assembly and gearcase lid

Table 1: 8.65:1 Gearcase Upgrade Kit (P/N: AY28071)

Item	Qty	Description	Canrig P/N
1	1	CAP, BRG, GEARCASE, INT BTM, 8.65:1	DT27370
2	1	UPPER SPACER, 5.122 ID x 7.00 OD x .53	DT27371
3	1	BRG, TPRD ROL, 130MM ID 230MM OD 67.75MM	M20045
4	1	BRG, TPRD ROL, 140MM ID 250MM OD 45.75MM	M20044
5	1	SHIM, .001, TPRD ROL BRG, CAP, GEARCASE	DT27372-001
5A	1	SHIM, .002, TPRD ROL BRG, CAP, GEARCASE	DT27372-002
5B	1	SHIM, .003, TPRD ROL BRG, CAP, GEARCASE	DT27372-003
5C	1	SHIM, .004, TPRD ROL BRG, CAP, GEARCASE	DT27372-004
5D	1	SHIM, .010, TPRD ROL BRG, CAP, GEARCASE	DT27372-010
5E	1	SHIM, .020, TPRD ROL BRG, CAP, GEARCASE	DT27372-020
6	24	CAPSCR, HEX SOC HD, 5/8-11UNC x 1.25, W	SH-0625NC-0125-W
7	24	LOCKWASHER, 5/8 NORD-LOCK	LW-0625-NL
8	3	PLUG, SOC HEX, 1/2 ORB	H15-090109B-08
9	4 ft	WIRE ROPE, 1/16 IN, 7 x 7, SS	M21-2000-010
10	4	FERRULE, 1/16, OVAL, ALUMINUM	M19-3006-010
11	1	SHIM, .001, TPRD ROL BRG, CAP, GEARCASE	DT27392-001
11A	1	SHIM, .002, TPRD ROL BRG, CAP, GEARCASE	DT27392-002
11B	1	SHIM, .003, TPRD ROL BRG, CAP, GEARCASE	DT27392-003



Model: See Affected Models
Serial #: N/A

Jun. 11, 2025

Table 1: 8.65:1 Gearcase Upgrade Kit (P/N: AY28071) (Continued)

Item	Qty	Description	Canrig P/N
11C	1	SHIM, .005, TPRD ROL BRG, CAP, GEARCASE	DT27392-005
11D	1	SHIM, .010, TPRD ROL BRG, CAP, GEARCASE	DT27392-010
11E	1	SHIM, .020, TPRD ROL BRG, CAP, GEARCASE	DT27392-020
11F	1	SHIM, .030, TPRD ROL BRG, CAP, GEARCASE	DT27392-030
11G	1	SHIM, .050, TPRD ROL BRG, CAP, GEARCASE	DT27392-050

NOTICE

After completing the gearcase upgrade, refill the gearcase with Canrig-recommended gearcase oil. Refer to the top drive product manual for correct oil type and capacity.

Contact your Canrig representative to implement this upgrade.