JCB

DRIVETRAIN SYSTEMS

Service Manual

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NOTE

All references in this manual to 'Forward' and 'Reverse' assume a front-mounted engine.

SD 70/PT AXLES

CENTRAL AND OFFSET DRIVE HEAD

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Lubricants & Capacities

ITEM	CAPACITY Litres	CAPACITY UK Gals	FLUID/LUBRICANT	INTERNATIONAL SPECIFICATION
Axle - SD70/PT Offset Drive Head				
Housing	18.0	3.96	Mobilube HD90	API-GL-5, MIL-L-2105C
Hubs (x2)	2.0	0.44		
Axle - SD70/PT Central Drive Head				API GL4, M2C-41B/134D,
Housing	18.0	3.96	Mobil Fluid 424	JD20C
Hubs (x2)	2.0	0.44		MF M1135/M1141/M1143
Grease Points	-	-	Mobil HP222	Mobil HP222
Brake System	-	-	Mobil DTE 11M **CAUTION:** Do not use ordinary brake fluid (J 1703)	ISO VG 15

Note 1: Mobil 424 should always be used for axles fitted with brakes. For Axles without brakes Mobilube HD90 or Mobil Fluid 424 can be used.

Note 2: Axles with limited slip differentials must use Mobil Fluid 424

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Dismantling and Assembly

Dismantling

Remove the parking brake assembly (see **Removal and Replacement**).

Remove the 2/4 wheel drive disconnect assembly (see **Removal and Replacement**).

Release circlip **3** and remove thrust washer **4**.

Remove lower drive **5**.

Remove bolts **6** and separate casing **1** and **2**.

Remove gear **8**, bearings **7**, **10** and drive **9**.

Remove washer **11**, release circlip **12** and remove thrust washer **13**.

Remove upper drive **14**.

Remove gear **17**, bearings **16** and **18**.

To remove mounting support **20** undo bolts **19**.

Assembly

Replacement is the reversal of the removal procedure.

Inspect bearing and bearing housings for wear and damage.

Discard old seals and fit new seals and 'O' rings.

Clean mating faces of the Dropbox and apply Loctite 574.

Use Loctite 262 on bolt **19**.

Torque Settings

Item	Nm	kgf m	lbf ft
6	20	6.1	44.25
19	120	12.2	88.5

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