JCB

DRIVETRAIN SYSTEMS

Service Manual

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NOTE

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

PD70 SERIES AXLES

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Lubricants & Capacities

ITEM	CAPACITY Litres	CAPACITY UK Gal	FLUID/LUBRICANT	INTERNATIONAL SPECIFICATION
* PD70 Axle	23	5.0	**Mobil 424, Q8 T2000**	API GL4, M2C-41B/134D JD20C, MF M1135/M1141/M1143
* Grease	-	-	**Mobil HP222, Q8 Rubens EP2.5**	Mobil HP222
* Brake System	1.2	0.26	**Mobil DTE11M, Q8 Handel 15**	ISO VG15
			CAUTION: DO NOT USE ORDINARY BRAKE FLUID (J1703)	

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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Drivehead - Assembly (cont'd)

* **19** If rolling torque measured at step 18 is too high, fit the next larger size spacer. If rolling torque is too low, fit the next smallest size spacer. If a correct spacer is not available from the range, check that drive head is assembled correctly.

* **Note:** A yoke or brake flange may be fitted.

* **20** Remove adapter **C** and sleeve **B**. Fit a new oil seal, grease between seal lips before fitting. Fit the brake calliper bracket **D** if a park brake is fitted to this axle. Fit a Verbus Ripp bolt **E** and torque tighten to 166 Nm (37.32 lbf ft, 16.9 kgf m). Fit the brake disc/coupling and a NEW stake nut **16**.

*

21 Progressively torque tighten the stake nut, occasionally rotating coupling yoke, up to 250 Nm (184 lbf ft; 25.5 kgf m). Providing the correct size spacer has been selected the rolling torque should be between 2.3 and 3.4 Nm(1.7 and 2.5 lbf ft; 0.23 and 0.35 kgf m) including seal drag.

*

Note: The nut tightening torque can be increased to a maximum of 300 Nm provided that the pinion rolling torque does not exceed the maximum of 3.4 Nm (2.5 lbf ft; 0.35 kgf m).

*

22 Finally stake the nut **16** into the slot.

Note: Step 21 uses an M24 stake nut (for a yoke), for a brake disc type. Item 16 would be M30. Torque tighten to 370 Nm (273. lbf ft; 37 kgf m).

*

23 If both brake piston housings were removed, fit the one at the opposite end to the crownwheel, using the procedure in Step 24. Then install the crownwheel /differential assembly into the drive head.

*

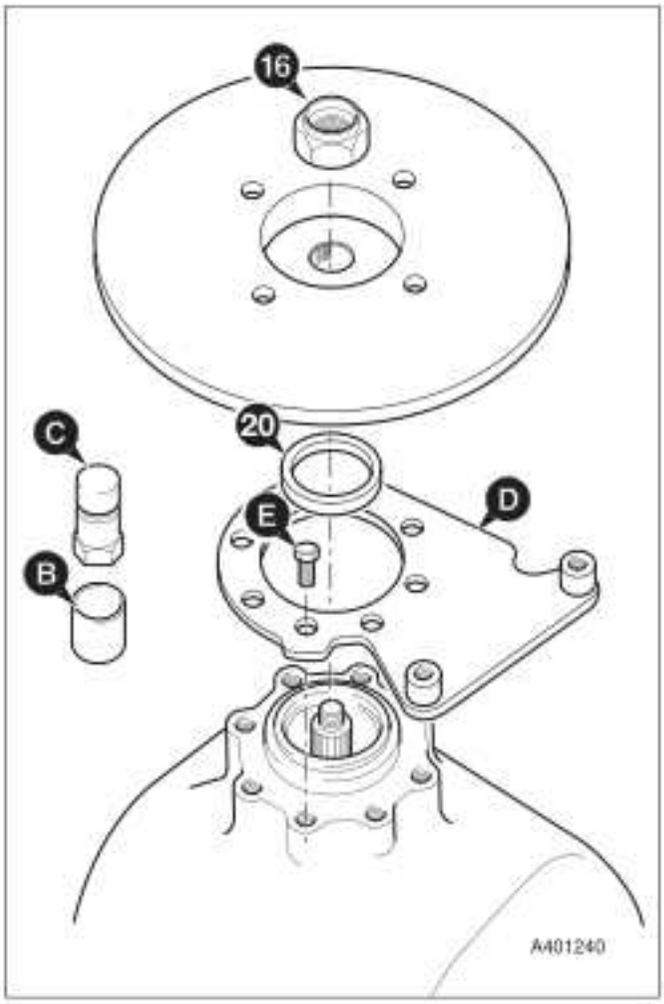
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24 Apply Loctite 574 to the drive head mating face, then fit the brake piston housing. Ensure that the match - marks made during dismantling are aligned. Fit capscrews **14**. Torque - tighten to 56 Nm (42 lbf ft, 5.7 kgf m). (Applies to both piston housings.)

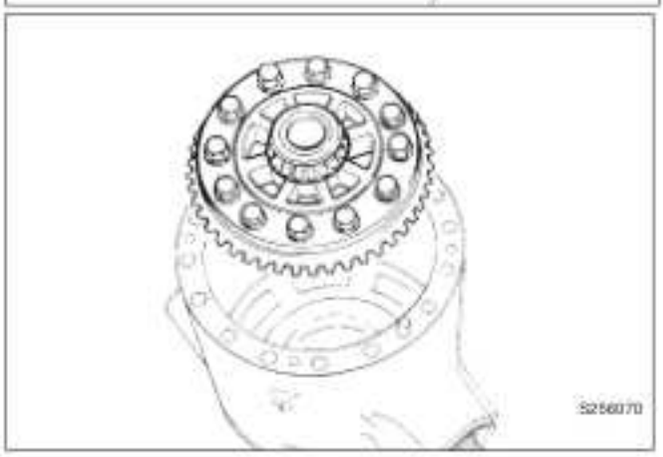
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25 Adjust differential side nuts **17** to give a bearing preload of 1.13-2.26 Nm (0.8-1.6 lbf ft; 0.1-0.2 kgf m). (Measure the preload by taking another rolling torque reading and subtracting the torque figure measured at step 21. The difference is the bearing preload.)

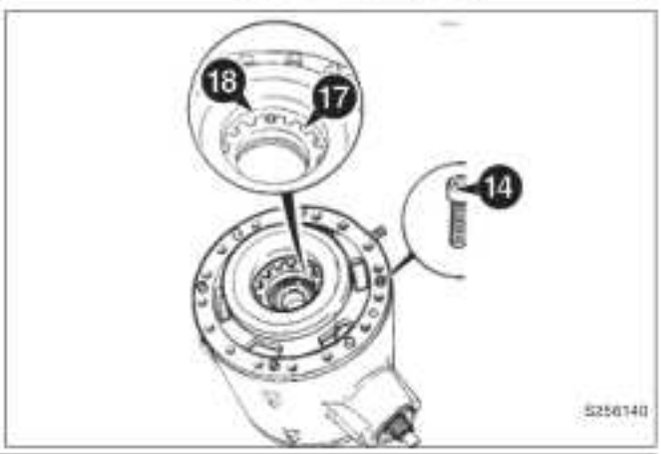
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