

Transmissions

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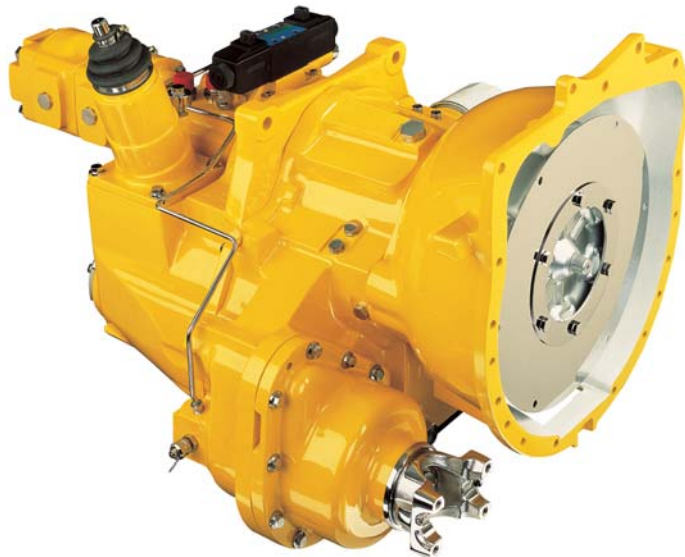
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Notes:

General Information

Service Manual - Transmissions

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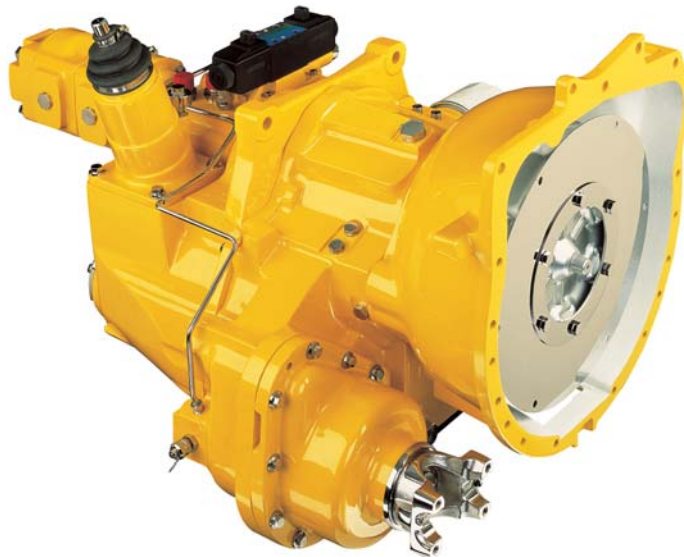
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Section 1 - General Information

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About This Manual

Scope

The publication is built up in a modular way to include procedures for dismantling, inspection and assembly of JCB axles and gearboxes. It should be noted that procedures given in this manual are for transmission assemblies only. Service procedures specific to machine transmission installations are given in the relevant machine service manual.

When applicable, procedures in this manual are referred to in the JCB machine service manual. To check the cross reference see the transmission Technical Data pages in the machine service manual. There are many transmission variants, ensure that you are referencing the correct procedures for the applicable transmission assembly.

Axles

Because axles are modular many axle sizes and types are manufactured using a small number of sub-assemblies.

For this reason the procedures in this manual are for axle sub-assemblies not complete axle assemblies. This means that procedures appear only once.

Axle Sub-assembly Identification

Sub-assembly	Section	Typical Axle Assemblies
Axle Hubs (Includes hubs with integral brakes)	A	
Axle Hub Swivels and Driveshafts	B	
Axle Integral Brakes	C	
Axle Drive Heads (Includes drive heads for 1 piece axles (A) and 3 piece axles (B))	D	

Applicable Machines

The tables show which transmission dismantle and assembly procedure is applicable to which machine. Use the cross references to the procedures in this manual.

Important: One machine model can have more than one transmission option. Always cross check the **Transmission Technical Data** in the applicable **Machine Service Manual** for the correct transmission component information.

- [⇒ Gearbox Procedures \(□ 1-3\)](#)
- [⇒ Front Axle Procedures \(□ 1-4\)](#)
- [⇒ Rear Axle Procedures \(□ 1-6\)](#)
- [⇒ Brakes Procedures \(□ 1-8\)](#)
- [⇒ Transfer Gearbox Procedures \(□ 1-9\)](#)

Table 1. Gearbox Procedures

Machines	Service Manual	Procedures	
		Manual Gearboxes ⁽¹⁾	Powershift Gearboxes ⁽¹⁾
Backhoe Loaders		Section E	Section F
2CX, 212 - 930000 on	9803/7130	SS500 Synchro Shuttle	-
3CX - 960001 on	9803/3290	SS700 Synchro Shuttle	-
3CX - 960001 on	9803/3290	SS700 Type 2 Synchro Shuttle	-
3CX, 4CX 960001 on	9803/3290	-	PS766 and PS764 - 2004 model Powershift
Loadalls			
Side Engined 768740 to 1185999	9803/3630	-	PS700 Powershift
Side Engined 768740 to 1185999	9803/3630	-	PS750 Powershift⁽²⁾
Side Engined up to 10.5m lift height - 1186000 to 1507999	9803/3730	-	PS750 Powershift, PS750 Powershift MkIII, PS766 and PS764 - 2004 model Powershift
Side Engined over 10.5m lift height - 1186000 to 1507999	9803/3730	-	PS750 Powershift , PS750 Powershift MkIII
Side Engined - 506-36, 507-42, 509-42, 510-55 - 1402000 on	9803/3740	-	PS750 Powershift MkIII, PS750 Powershift MKIV
Side Engined Construction Machines 1508000 on	9803/3750		PS750 Powershift MkIII, PS750 Powershift MKIV, PS766 and PS764 - 2004 model Powershift
Side Engined Agricultural Machines 1508000 on	9803/3760	SS700 Type 2 Synchro Shuttle	PS750 Powershift MkIII, PS750 Powershift MKIV, PS766 and PS764 - 2004 model Powershift
Rear Engined 1182000 on	9803/3710	SS600 Synchro Shuttle	PS750 Powershift, PS750 Powershift MkIII
Rough Terrain Fork Lifts			
921, 926, 930, 940 - 600001 on	9803/5100	SS600 Synchro Shuttle	-

(1) Includes procedures for 2WD and 4WD gearboxes if applicable

(2) Includes the 5 speed variant

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