

Drive Chain

Note: The drive chain, even though enclosed, operates in a harsh, dusty environment. The following maintenance procedures should be carried out diligently to ensure maximum chain life.

Greasing and Checking Tension

- 1 Remove securing bolts **A** and take off chain case cover **B**.
- 2 Smear the chain with grease.
- 3 Measure the slack in the chain at point **C**. It should be approximately 10 mm (0.4 in). If necessary adjust the tension (see **Adjusting Tension** below).
- 4 Refit and secure the chain case cover.

Adjusting Tension

- 1 Loosen locking nut **D**.
- 2 Adjust bolt **E** to achieve the required slack in the chain (see **Greasing and Checking Tension** above).
- 3 Tighten the locking nut.
- 4 Refit and secure the chain case cover.

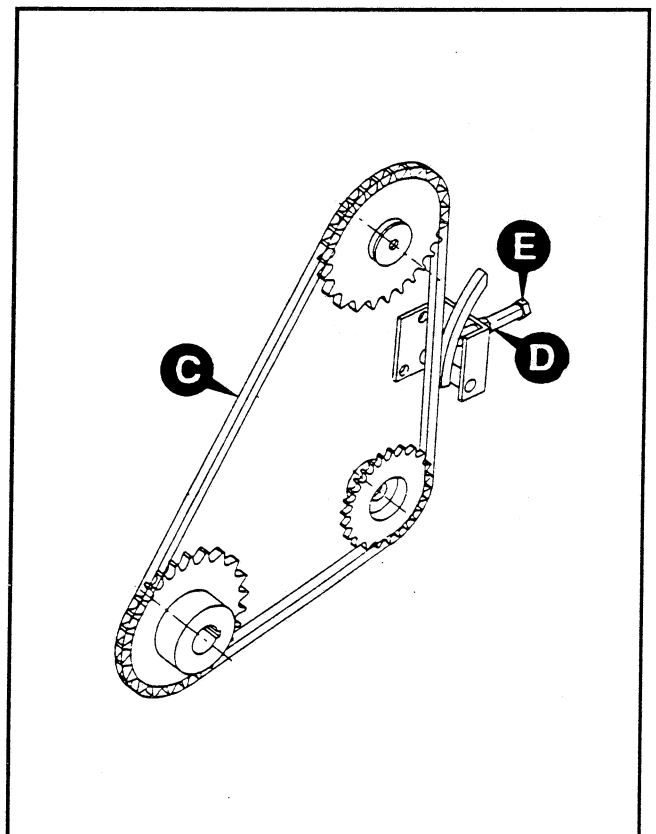
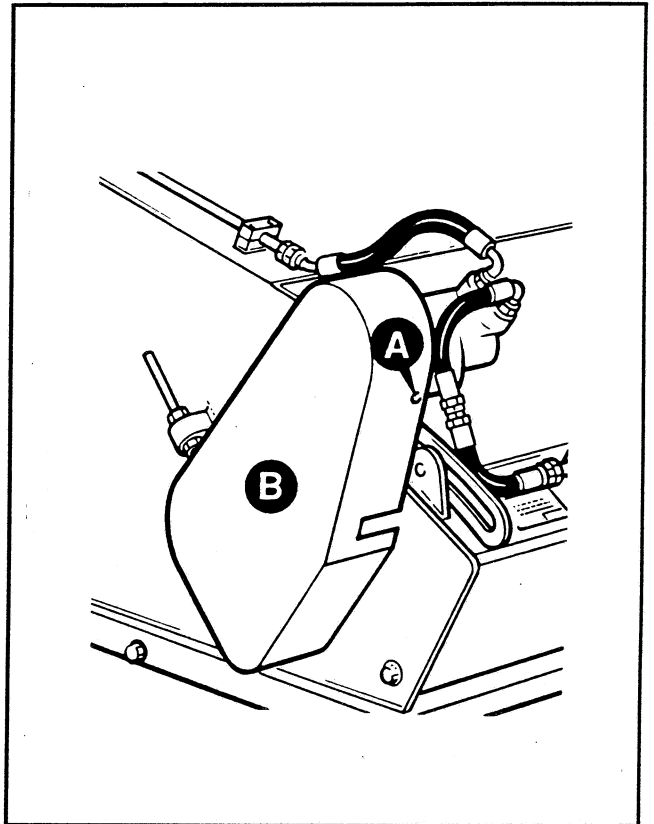
Note: If the full range of adjustment of bolt **E** is used up, it will be necessary to shorten the chain or fit a new one (see **Shortening/Renewing** below).

Shortening/Renewing

- 1 Loosen locking nut **D** and unscrew bolt **E** to achieve maximum slack on the chain.
- 2 Take out the chain split link and remove the chain.
- 3 To shorten the chain, take out the half link.

Note: Removal of the chain half link is the maximum permissible amount by which the chain can be shortened. If the half link has already been removed, fit a new chain.

- 4 Install the shortened or new chain around the three sprockets and fit the split link.
- 5 Adjust the chain tension (see **Adjusting Tension** above, steps 2 - 4).
- 6 Refit and secure the chain case cover.



Brushes

Adjusting for Wear

As the bristles wear down the footprint can be adjusted to compensate (see attachment **Operator Handbook**). When no further adjustment is available, renew the brush segments.

Renewing Segments

- 1 Set the sweeper collector on its castors on flat, level ground. Switch off the carrier engine and remove the starter key.
- 2 Remove the drive chain as described under **Drive Chain, Shortening/Renewing**, steps 1 to 3.
- 3 Remove circlip **A** and remove brush shaft sprocket **B** and locating key **C**.
- 4 Slacken and remove adjusting nuts **D** on both side of the attachment. Remove the adjustment studding **E** from both bearing plates **F**.
- 5 Working on the side of the attachment opposite to the drive chain:
 - a Remove the grub screw which retains bearing **G** on shaft **H**.
 - b Remove the bolt and washers **J**.
 - c Remove the six bolts securing cover plate **K** to the attachment body, and then remove the assembly comprising items **F, G, K**.
- 6 Repeat step 5 for the corresponding parts on the drive chain side. Additionally remove spacer **L**.
- 7 Return to the side of the attachment opposite to the drive chain. Withdraw shaft **H**.
- 8 Start the machine and raise the attachment body, leaving the brush assembly on the ground.

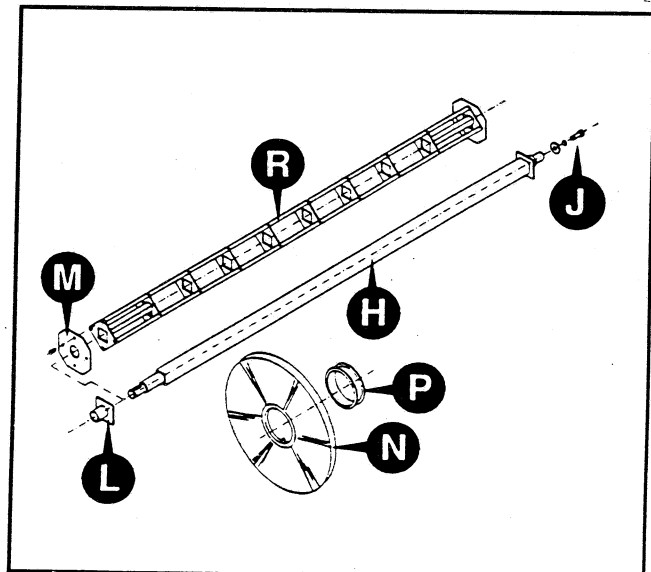
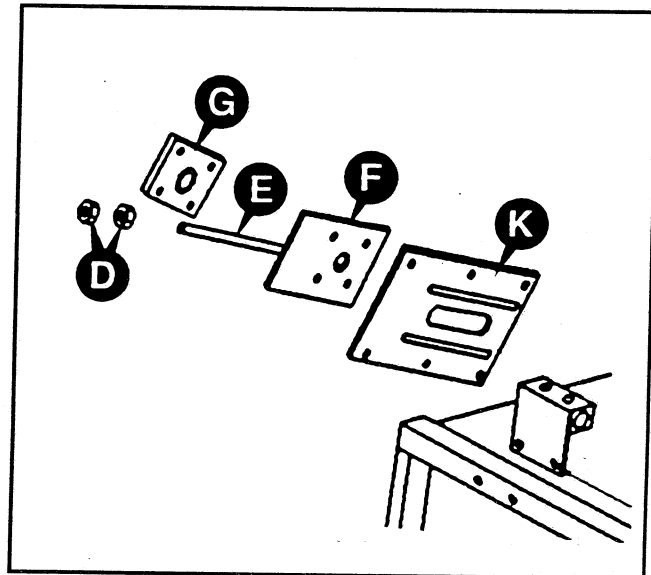
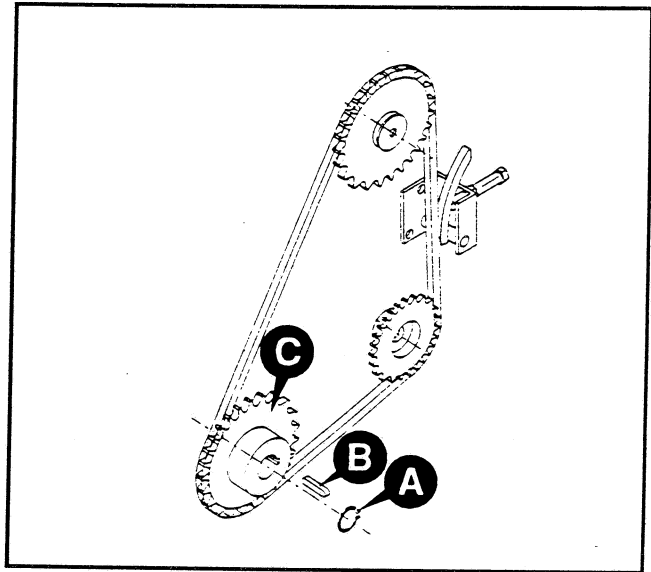
⚠ WARNING

Never stand or work beneath a raised attachment unless the carrier loader arm safety strut has been fitted, the engine switched off and the starter key removed.

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- 9 If possible, reverse the machine away from the grounded brush assembly. Alternatively, use a long rod to roll the assembly from beneath the raised attachment body.

Once the brush assembly is clear of the attachment body, lower the attachment body onto its castor. Switch off the engine and remove the starter key.
- 10 Remove the four socket head bolts securing brush core and plate **M** and remove the plate.

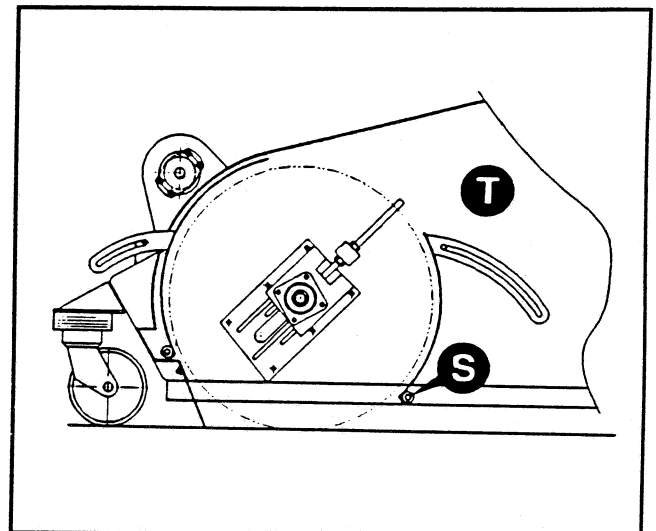
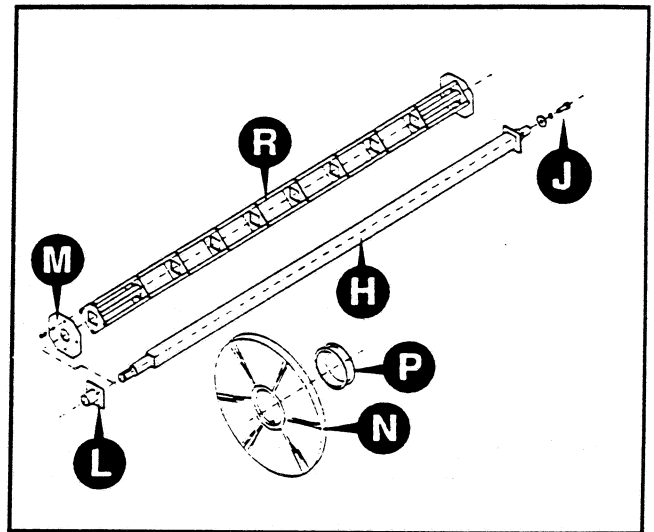


Brushes (cont'd)**Renewing Segments (cont'd)**

- 11 Remove the alternate brush segments **N** and spacers **P** from brush core **R**.

Note: Unless they are damaged, the core and spacers can be re-used.

- 12 Re-assemble the brush by reversing steps 10 and 11.
- 13 On the sweeper collector body, remove the pivot bolt **S** on each side and swing rear shroud **T** backwards about 150 mm (6 in).
- 14 Start the machine and raise the attachment body high enough to clear the brush assembly. Manoeuvre the body and lower it over the brush assembly so that its castors are on the ground. Switch off the engine and remove the starter key.
- 15 Re-assemble the attachment by reversing steps 2 to 7.
- 16 Swing rear shroud **T** forward and secure it with bolts **S**.



* Technical data

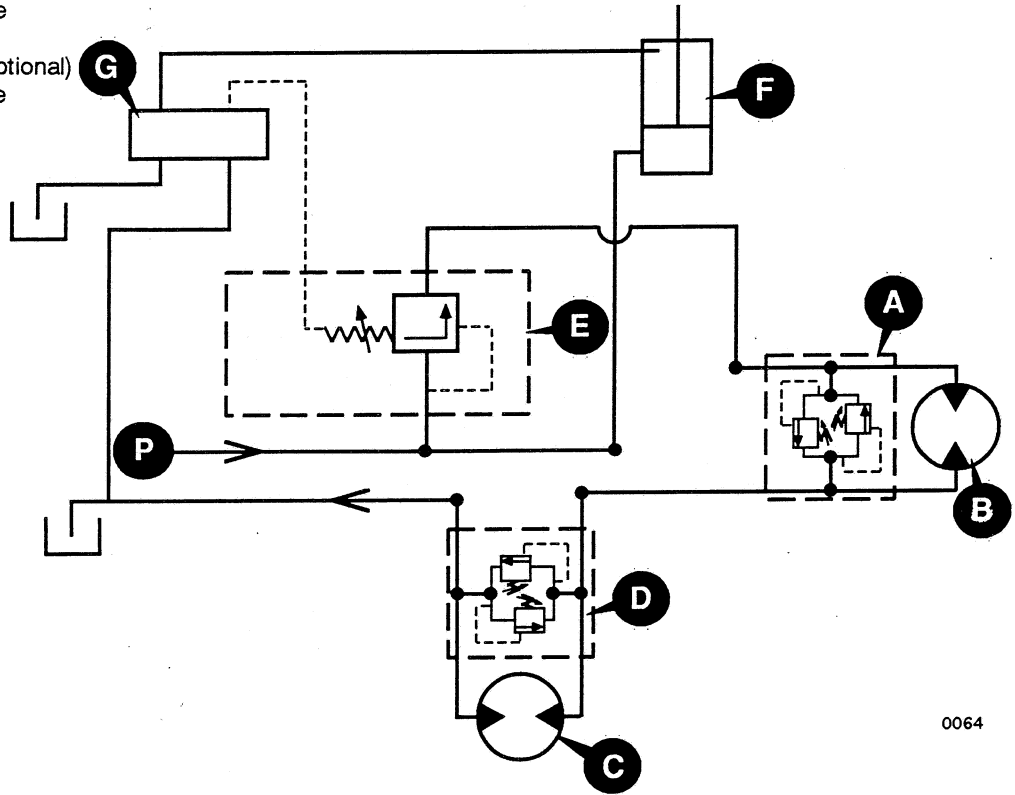
JCB Carrier	2CX	3CX/4CX/ Loadall/410	*Robot Skid Steer 150/165/1CX	*Robot Skid Steer 185
ALL MODELS				
Sweeper Collector	STYLE 2	STYLE 2	STYLE 1	STYLE 1
Overall Width	2 m (6 ft 7 in)	2.6 m (8 ft 6 in)	1.7 m (5 ft 7 in)	1.9 m (6 ft 3 in)
Working Width	1.8 m (5 ft 11 in)	2.4 m (7 ft 10 in)	1.5 m (4 ft 11 in)	1.7 m (5 ft 7 in)
Overall Length †	2 m (6 ft 7 in)	2 m (6 ft 7 in)	1.5 m (4 ft 11 in)	1.5 m (4 ft 11 in)
Brush Assembly - Brush segment O/D - Brush segment I/D - Number of Segments - Number of spacers - Type of bristles	686 mm (2 ft 3 in) 178 mm (7 in) 40 39 Polypropylene/Wire	686 mm (2 ft 3 in) 178 mm (7 in) 54 53 Polypropylene/Wire	610 mm (2 ft) 160 mm (6 3/8 in) 32 0 Polypropylene	610 mm (2 ft) 160 mm (6 3/8 in) 36 0 Polypropylene
Hydraulic Oil Flow - Litres (gal)/min	56 (12.3)	60 (13.2) regulated	65 (14.3)	95 (20.8) max.
Collector Capacity - yd ³ (m ³)	0.75 (0.57)	1 (0.76)	0.26 (0.2)	0.30 (0.23)
Optional Equipment - Water sprinkler - Gutter brush	Yes Yes	Yes Yes	Not available Not available	Not available Not available
Hydraulic Motor - Drive	Danfoss OMR A150	Danfoss OMR A200	ADAN COMPACT 150	ADAN COMPACT 150
EARLIER MODELS				
Hydraulic Motor - Gutter Brush	Danfoss OMP 315	Danfoss OMP 400	Not applicable	Not applicable
LATER MODELS				
Combination Valve - Model No. - Cross-line relief pressure setting - bar (lb/in ²)	HACV7890 140(2030)	HACV7890 140(2030)	Not applicable Not applicable	HACV658C 140 (2030)
Sequencing Pressure	Adjustable	Adjustable	Not applicable	Not applicable
Hydraulic Motor - Gutter brush	Danfoss OMP 100	Danfoss OMP 100	Not applicable	Not applicable

† Includes Quickhitch Mounting Plate.

Hydraulic Circuit (Style 2)

* Earlier Models

- A Cross Line Relief Valve
- B Brush Drive Motor
- C Gutter Brush Motor (Optional)
- D Cross Line Relief Valve
- E Sequence Valve
- F Ram
- G Connection Block

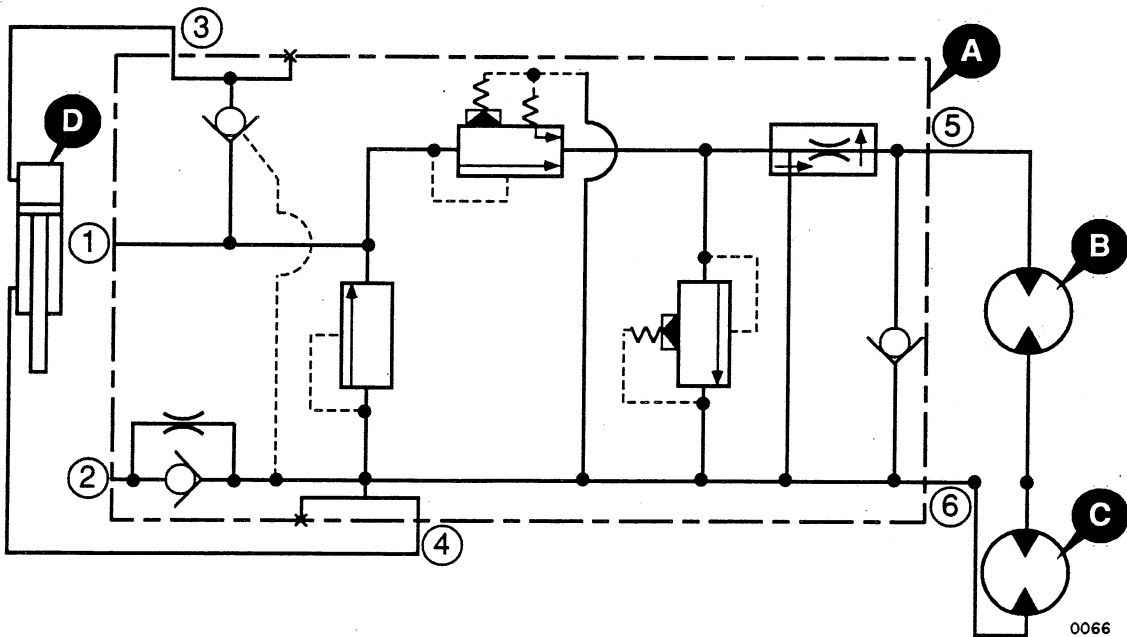


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* Later Models

- A Combination Valve
- B Brush Drive Motor
- C Gutter Brush Motor (Optional)
- D Ram

Note: The combination valve ports are numbered as shown.



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