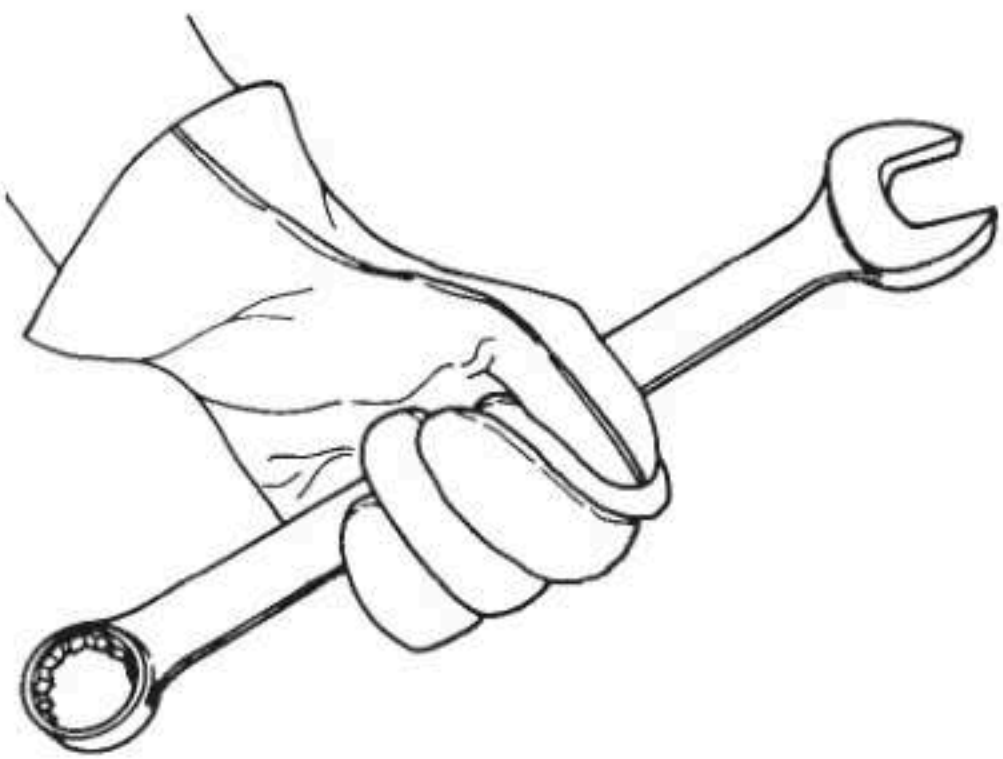
bobcat®

BACKHOE

SERVICE MANUAL



MELROE
INGERSOLL-RAND

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CONTROL VALVE (Cont'd)

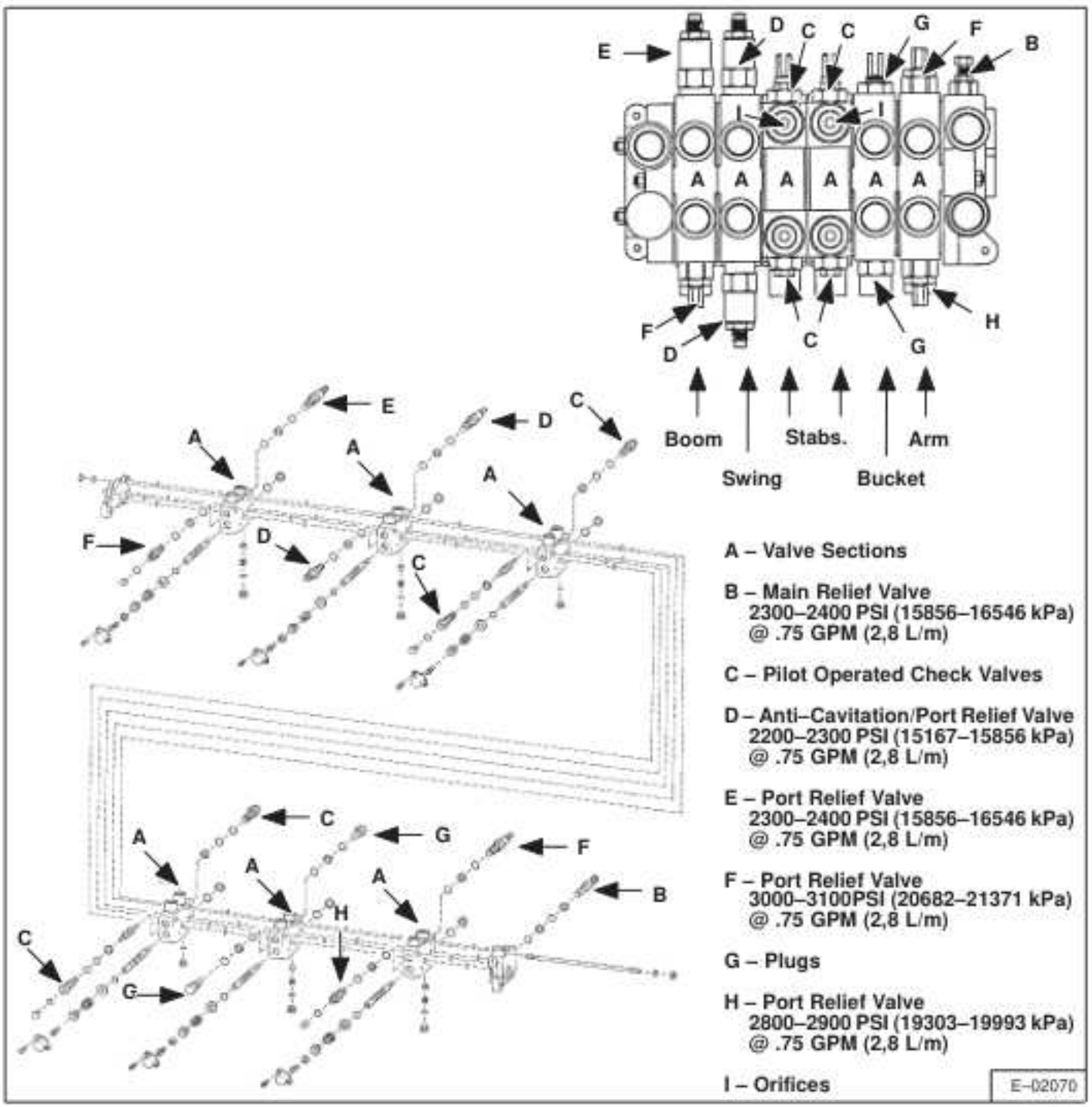
Description (Danfoss–Dukes – 811)

All parts are replaceable in the control valve. The spool and valve body are replaced as a unit.

The control valve has separate sections for each function of the backhoe. Each section can be repaired individually.

The boom, arm, and swing sections have relief valves that can be removed for repair or replacement without disassembling the control valve. DO NOT interchange relief valves.

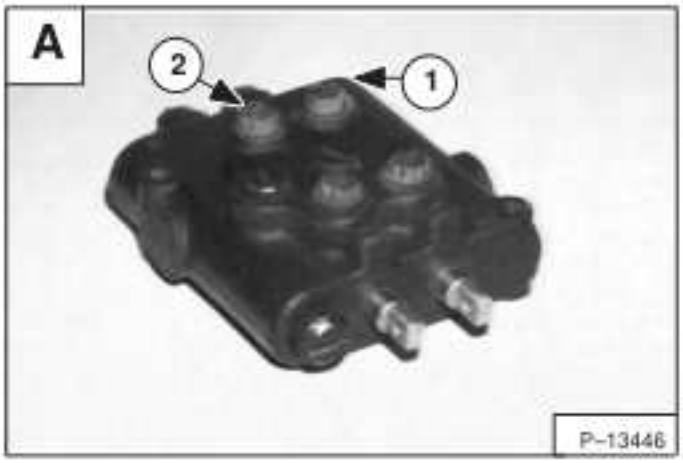
Parts Identification



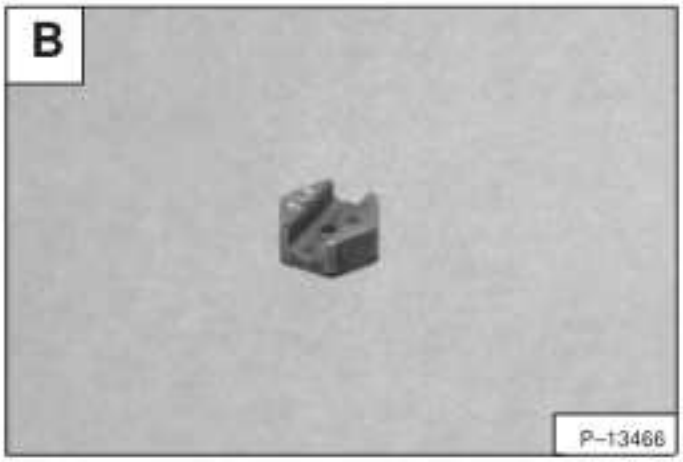
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Disassembly And Assembly (Cont'd)
(Eaton–905) (Cont'd)

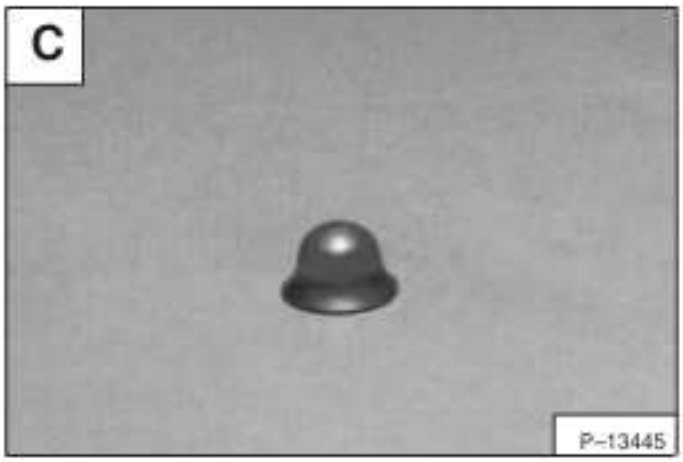
There are restrictors for the boom and swing circuits located in ports (Item 1 & 2) **[A]** on the control valve.



The restrictor **[B]** fits into the boom cylinder port (Item 1) **[A]** with the legs up.



The restrictor **[C]** fits into the swing cylinder port (Item 2) **[A]** with the crown up.



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HYDRAULIC CYLINDER (Cont'd)

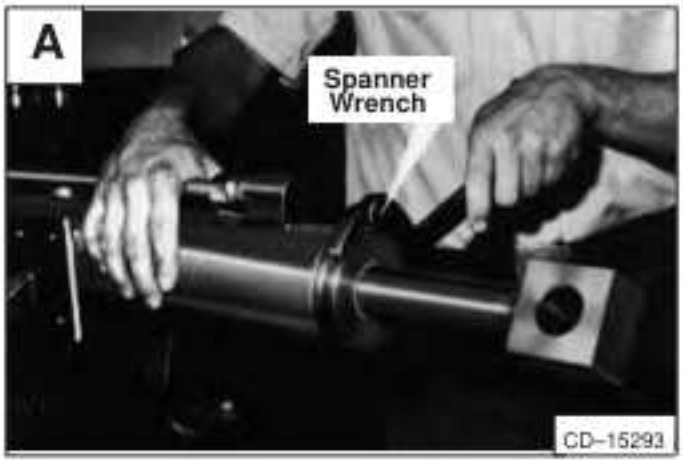
914B Extendable Cylinder Disassembly

Drain the hydraulic oil from the cylinder.

Use soft jaws in a vise when holding the cylinder.

Remove the set screw that secures the head.

Use a spanner wrench to remove the head **[A]**.



Put the rod end in the vise and remove the housing **[B]**.

NOTE: A slight tap on the housing may be needed to free the head.

Check the bearing on the rod for excessive play. the bearing inside diameter should be no more than .008 inch (0,203 mm) larger then the rod diameter. Replace bearing if worn. Replace the piston if worn.

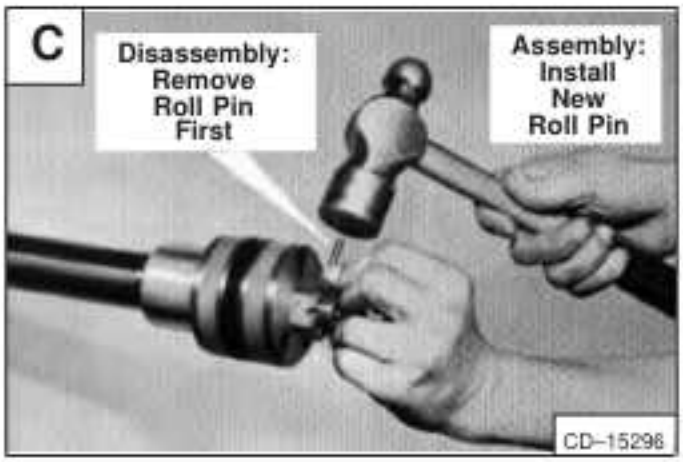


Remove the roll pin and nut from the rod **[C]**.

Remove the piston, cushion, and head.

Remove all seals from the piston, head and rod **[C]**.

Wash all parts with cleaning solvent and air dry.



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