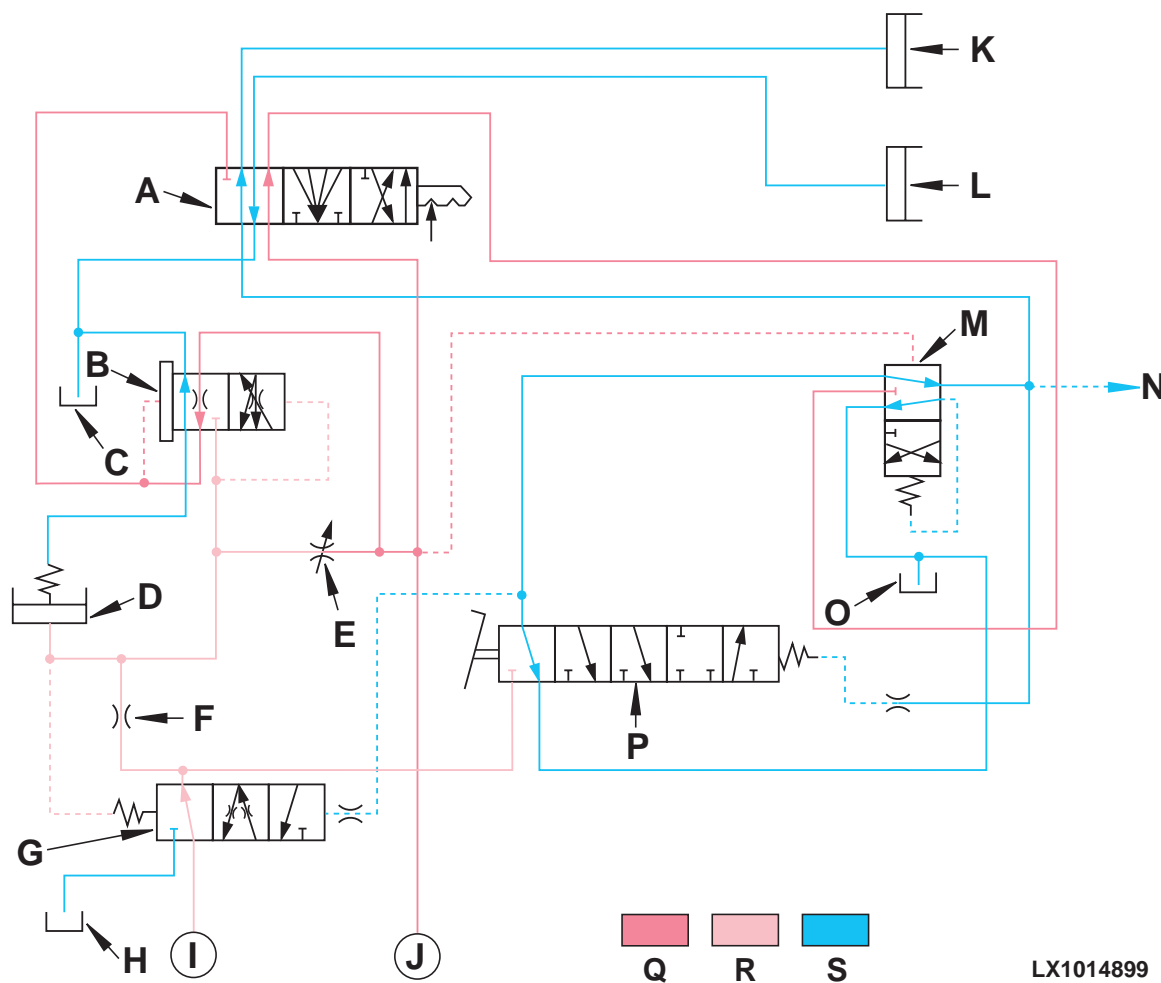


Reference 251-20-190, Power Reverser Module—Operation of Clutch Pedal Valve



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|-------------------------|----------------------|-----------------------------|----------------------|
| A—Forward/reverse valve | F—Restrictor | K—Clutch piston | P—Clutch pedal valve |
| B—Sump valve | G—Modulator valve | L—Brake piston | Q—Oil, system 1 |
| C—Sump | H—Sump | M—Engagement override valve | R—Oil, system 2 |
| D—Accumulator piston | I—Oil, from system 2 | N—Pilot cooling oil | S—Pressure-free oil |
| E—Adjustable restrictor | J—Oil, from system 1 | O—Sump | |

Illustration shows tractor driving forward normally, with clutch pedal depressed

When the clutch pedal is released, oil from system 2 flows through modulator valve (G), clutch pedal valve (P), engagement override valve (M) and forward/reverse valve (A) to the clutch piston (K). See also the illustration “Tractor driving forward normally”.

When the clutch pedal is depressed, the clutch pedal valve interrupts the flow of oil to the clutch piston. The

disk clutch is disengaged by spring force and it ceases to transmit power to the transmission. When the clutch pedal is released, oil flows into the clutch piston again and the clutch is engaged.

The speed of engagement is determined via the clutch pedal. The slower (or faster) the clutch pedal is depressed or released, the less (or more) oil flows through the valve. The duration of the disengagement and engagement processes can thus be controlled at will.

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