



APPLICATION UPDATE

Number 8
Revision 1

ADAPTING THE ACE FMC-HYD PUMP TO FORD GENESIS (70-SERIES) AND FORD VERSATILE (80-SERIES) TRACTORS

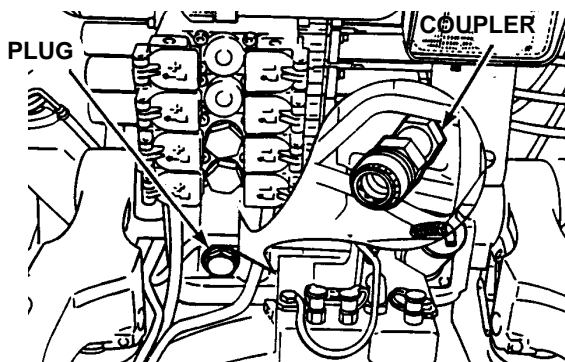
Ford 70-Series (8670, 8770, 8870 and 8970) and 80-Series (9280, 9480, 9680 and 9880) tractors have a **LOAD SENSING CLOSED CENTER** hydraulic system, also known as **Pressure Flow Compensating (PFC)** system.

PUMP SELECTION:

ACE recommends using the FMC-HYD-210, FMC-150-HYD-206, FMC-200-HYD-210, or the FMC-200-HYD-304 pump models on these tractors.

TO CONNECT THE PUMP:

1) Close the needle valve on the ACE motor by turning fully clockwise and tightening the jam nut.
2) **Do Not** install a restrictor orifice in the ACE motor. A flow limiter may be installed (not required) in the inlet port of the motor to prevent damage from possible motor overspeeding.
3) For 70-Series tractors, connect the pump to the 1st (lowest) remote control valve couplers with the pressure hose connected to the right retract coupler and the return hose connected to the low pressure return circuit. See illustration below.
4) For 80-Series tractors, connect the pump to the right side (color-code gray) remote control valve couplers with the pressure hose connected to the upper coupler and the return hose connected to the "ZERO" return line.



The pump will operate when the remote control valve lever is pulled back to the "RETRACT" position. Always use "FLOAT" position to turn the pump off.

TO SET THE FLOW CONTROL:

1a) On 70-Series tractors, the flow control knobs are located on the cab frame at the rear window opening. Flow control valve I, (color-coded green), is used to control the hydraulic flow to the ACE pump.
1b) On 80-Series tractors, the flow controls are located on the right console in the cab. Hydraulic flow to the ACE pump is controlled by a small lever that moves from left to right and is located directly in front of the gray circuit remote control lever. The flow control can only be adjusted while the remote valve is in the "FLOAT" position.
2) Before engaging hydraulic lever, make sure flow control valves are set in the least flow position to avoid damaging the pump.
3) Shut off boom and agitation valves on the sprayer.
4) Move hydraulic lever from "FLOAT" to "RETRACT".
5) Set the flow control knob (70-Series) or lever (80-Series) so the shut-off pressure shown on the sprayer pressure gauge does not exceed the maximum listed below.

MAXIMUM SHUT-OFF PRESSURE:

100 PSI for FMC-HYD Series

120 PSI for FMC-150-HYD-206

80 PSI for FMC-200-HYD-210

120 PSI for FMC-200-HYD-304

**CAUTION: DO NOT EXCEED THE
MAXIMUM SHUT-OFF PRESSURE**

6) Open agitation valve to get desired spraying pressure.