

Hydraulic Motor Harness Kit with Pressure Sensor

Kit Components

QTY	Part Number	Part Name	Description
1	727186	Harness	Hydraulic Motor Harness, 15'
1	727007	Pressure Sensor	Hydraulic Pressure & Temp Sensor
1	726180	Valve Replicator	Valve Connector Cap w/ Resistor
1	726566	Diagnostic Tee	JIC -6

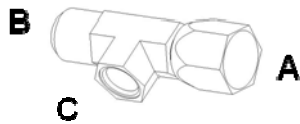
This kit is intended to provide connection from the Base Harness of the RowFlow system to PWM or 'Pulse Width Modulated' hydraulic control systems on CNH planters. Contact your local Precision Planting dealer for information on how to connect to planters with non-PWM controlled hydraulic systems (Rawson)

Installation of the 727185 Hydraulic Motor Harness Kit with Pressure Sensor may vary according to specific planter models and modifications.

A Hydraulic Pressure Sensor is included within the kit to provide pressure and temperature data on the hydraulic circuit where the drive motors are installed.



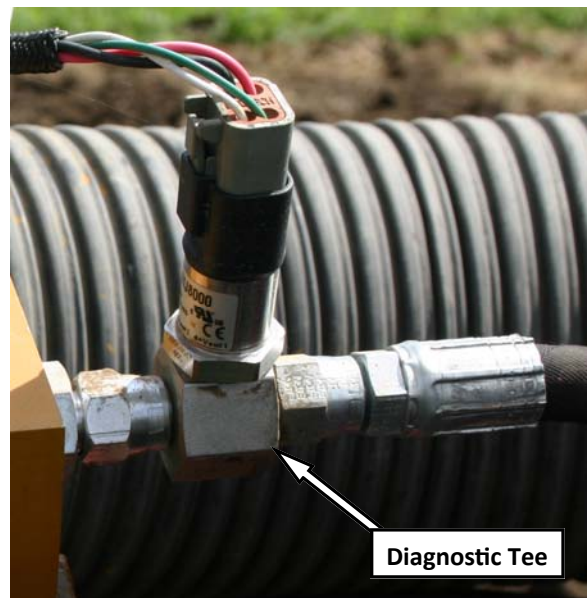
727007
Hydraulic Pressure Sensor



PART NUMBER	A	B	C	DESCRIPTION
726566	-6	-6	-4	JIC -6 DIAGNOSTIC TEE (3/8")
726567	-8	-8	-4	JIC -8 DIAGNOSTIC TEE (1/2")
726568	-10	-10	-4	JIC -10 DIAGNOSTIC TEE (5/8")
726569	-12	-12	-4	JIC -12 DIAGNOSTIC TEE (3/4")

A -6 JIC Diagnostic Tee (part number 726566) is included in this kit to enable the installation of the Hydraulic Pressure Sensor into the hydraulic circuits of the drive motors. If the hoses connecting the motors are not -6 in size; the chart above provides part numbers and description for ordering the appropriate fittings. Access to the hydraulic system for pressure measurements will be made in line with the hoses using these diagnostic tees. The image at right gives an example of how these components are installed.

Once the Diagnostic tee has been placed; in-line on the pressure side of the motor (specific placement may be driven by proximity to the valve solenoid as these two components are relatively closely spliced on the harness), install the pressure sensor to the side of the diagnostic tee. Connect the sensor to the harness to complete the installation.



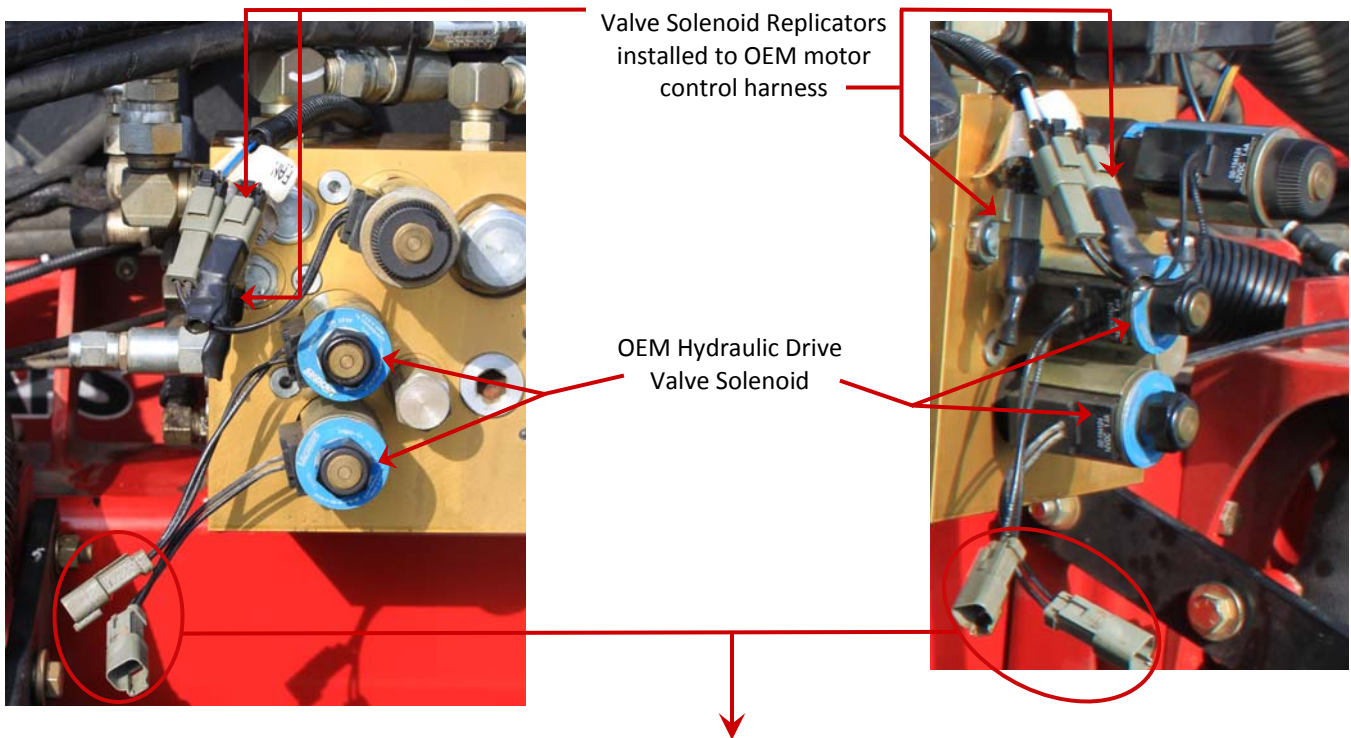
When installing RowFlow to control OEM factory installed hydraulic drives on a CNH 12XX series planter, simply unplugging the valve solenoid from the existing harness/monitor will cause nuisance warnings from the PRO600. To avoid complications with the PRO600 monitor, a Valve Solenoid Replicator (727180) has been included. Locate the hydraulic control block, usually located near the middle of the left wing. Disconnect the two pin Deutsch connector between the solenoid valve and the existing motor control harness. Install the Valve Solenoid Replicator into the OEM motor control harness. This replicator will simulate the presence of the solenoid within the PRO 600 system.



727180
Valve Solenoid Replicator

Refer to the images of a two motor system below as an example.

These images are of the same location on the example planter from separate vantage points for ease of illustration.



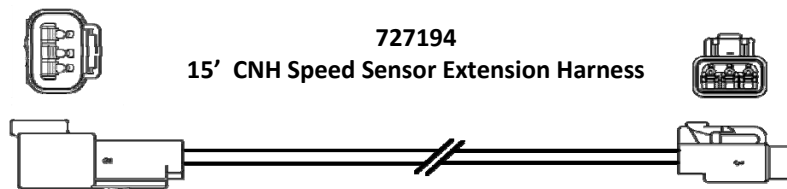
Connect the 2 pin Deutsch connector from the 727186 Motor Harness into the valve solenoids on the planter. Control of these valves will then be available within the 20/20 RowFlow system.

Continue the installation by locating the Speed Sensor, which is mounted directly onto the hydraulic drive. Trace the output cable from the sensor to its connector into the OEM motor control harness. Disconnect this sensor from the factory harness and connect to the 3 pin Deutsch connector on the 727186 Hydraulic Motor Harness.

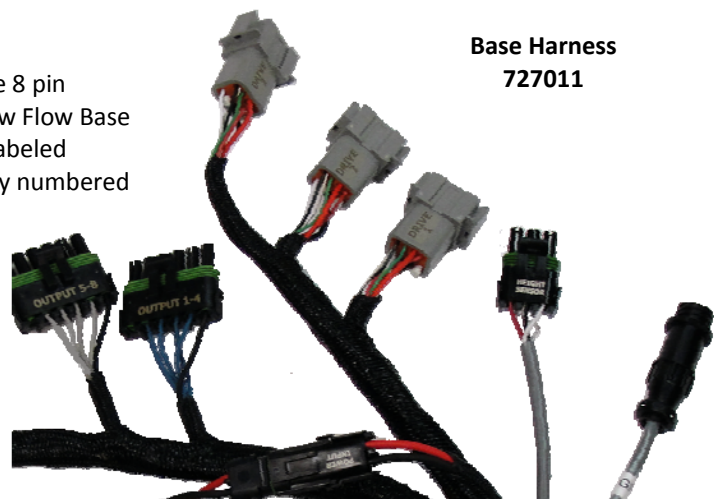
Trace the speed sensor output cable to this connector



If there is too much distance between the drive/speed sensor and the Solenoid Valve, it may be necessary to use an extension harness to extend the speed sensor output cable to reach the Hydraulic Motor Harness connector.



Complete the installation of this kit by connecting the 8 pin Deutsch connector on the motor harness into the Row Flow Base Harness. Install the connector into the appropriate labeled connector on the Base Harness. Drives are commonly numbered from left to right.



Use the image and tables provided below for further details on installing the harness and troubleshooting purposes.

A - Deutsch 8pin Plug		
From	Description	To
A1	Sensor Power +12V	B1, D2
A2	Valve Power +12V	C1
A3	Speed Sensor, Signal	B2
A4	Sensor Ground	B3, D1
A5	Pressure Signal	D4
A6	Temperature Signal	D3
A7	Valve Ground	C2
A8	Not Used, Plug	--

B - Deutsch 3pin Plug		
From	Description	To
B1	Speed Sensor Power	A1, D2
B2	Speed Sensor Signal	A3
B3	Speed Sensor Ground	A4, D1

C - Deutsch 2pin Plug		
From	Description	To
C1	Valve Power +12V	A2
C2	Valve Ground	A7

D - Deutsch 4pin Plug		
From	Description	To
D1	Pressure Sensor Ground	A4, B3
D2	Pressure Sensor Power	A1, B1
D3	Temperature Signal	A6
D4	Pressure Signal	A5

