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<b>IntelliAg Systems</b> .....	<b>1-5</b>
<b>Land Manager</b> .....	<b>6-9</b>
Systems .....	6-7
System Kits .....	8
Parts .....	9
System and Kit Descriptions .....	10-14
<b>CCS 100 / CMS 100</b> .....	<b>15-19</b>
CCS 100 Liquid Systems .....	15
CCS 100 Granular & NH3 Systems .....	16
CMS 100 Sprayer & Speed/Area Monitors .....	18
CCS 100 /CMS 100 Parts .....	19
<b>Boom Shutoff Control</b> .....	<b>20</b>
<b>Ground Speed Sensors</b> .....	<b>21-22</b>
Radar .....	21
GPS / Wheel / Speedometer / Hall Effect .....	22
<b>Implement Lift Switch</b> .....	<b>23</b>
<b>Pressure Sensors</b> .....	<b>23</b>
<b>Flowmeters</b> .....	<b>23-25</b>
NH3 .....	23
Raven Adapter .....	23
Stainless Steel NPT Threads .....	24
Nylon / Nylon & SS .....	24
Nylon Parts.....	25
<b>Switch Modules</b> .....	<b>26</b>



<b>Valve Drivers</b> .....	<b>27</b>
<b>Valves / Drivers / Actuators</b> .....	<b>28-30</b>
Hydraulic .....	28-29
Ball / NH3 / Butterfly .....	30
<b>Application Rate / Level Sensors</b> .....	<b>31</b>
<b>Radar Y Cables</b> .....	<b>31-36</b>
<b>Planter Monitor Consoles &amp; Harnesses</b> .....	<b>37-41</b>
<b>Planter Chutes &amp; Sensors</b> .....	<b>41-43</b>
<b>Planter Monitor System Parts</b> .....	<b>44-45</b>
<b>Air Seeder &amp; Drill Monitors</b> .....	<b>46-48</b>
<b>Air &amp; Drill Seeder Sensors</b> .....	<b>49</b>
<b>TSM10</b> .....	<b>50</b>
<b>Seed Simulator and Seed Tester</b> .....	<b>51</b>
<b>Test Equipment Seed Simulator - Adapters</b> .....	<b>52</b>
<b>Grain Loss Monitors</b> .....	<b>53</b>
<b>Grain Moisture Testers</b> .....	<b>54-56</b>
<b>Hay Moisture Tester</b> .....	<b>57-58</b>
<b>Cotton Moisture Tester</b> .....	<b>61-62</b>



<b>Soil Compaction Tester .....</b>	<b>63</b>
<b>Lightbar Guidance Systems .....</b>	<b>64-66</b>
<b>Control System Parts: Exploded Views .....</b>	<b>67-84</b>
<b>Weather Pac Connector Kits .....</b>	<b>85-86</b>
<b>AMP Connector Kits .....</b>	<b>87-88</b>
<b>Notes .....</b>	<b>89</b>





IntelliAg



WSMT



WSMB

Part Number	Description
467980600S1	Terminal Mounting Hardware
467890124	Master On/Off Switch
467980150	WSMT Harness
467981200	WSMB Harness
467980160	Actuator/Sensor Harness
467980130	40' Hitch Extension
467980131	20' Hitch Extension
467980132	10' Hitch Extension
467980140	20' WSMB Extension
467980141	10' WSMB Extension
467980142	5' WSMB Extension
467980170S1	WSMT Mounting Hardware
467980500	ISO Terminal Monochrome Display
467980501	ISO Terminal Color Display
467980110S1	PDC WSMT Module
467980210S1	ACC WSMT Module
467981100S1	WSMB Module
467980121	Tractor Harness w/o IBBC

### DICKY-john IntelliAg System

is a control and monitoring system that is compatible with ISO implements being delivered today.

Use for planting, spraying, spreading and NH3. Modules can be added and configured to fit a variety of needs.

It consists of a virtual terminal that interfaces with specific application control modules referred to as Working Set Master (WSMT) and Working Set Members (WSMB). The WSMT is in control of the application of material by interfacing with proportional hydraulic valves and feedback sensors. The WSMB only accepts inputs from seed sensors and hopper level sensors.

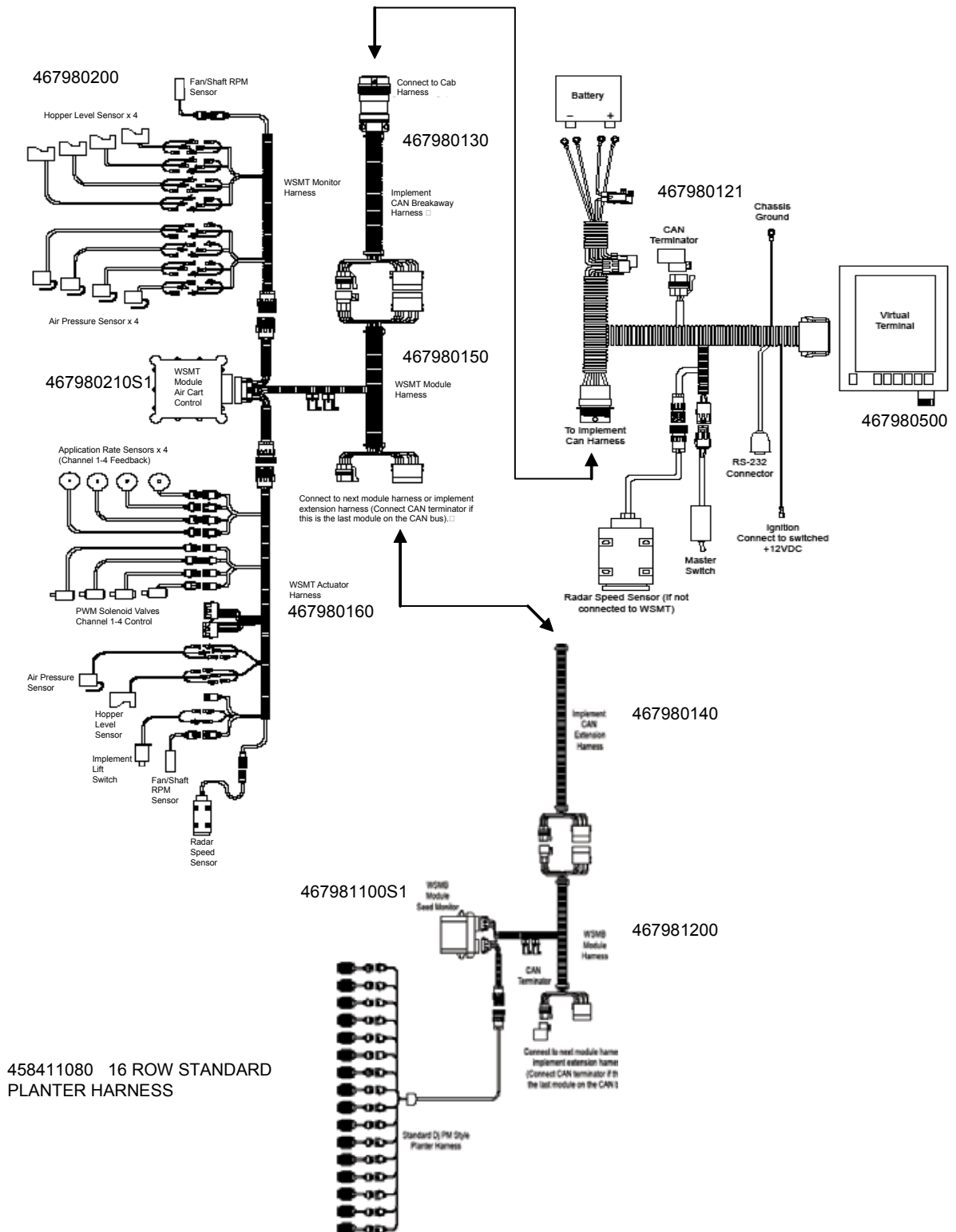
There are two application specific versions of the WSMT, one contains the central processor and control software for Air Cart Control (ACC) and the second for Planter/Drill Control (PDC)

The PDC WSMT has 4 channels of control and is factory preset for Planter Seeding Control on Channel 1 (seeds per acre). However, Channel 1 can be reconfigured by the end user for Drill Seeding Control (lbs/acre). Channels 2-4 can be configured in any combination for Planter Control, Drill Control or Granular Fertilizer control. In addition the PDC WSMT can accept inputs from 1 Hopper Level, 1 Shaft Sensor, 1 Lift Switch, 1 Ground Speed Sensor and 16 Seed Sensors.

The ACC WSMT has 4 channels of Granular Seeding (lbs/acre) or Fertilizer Control (lbs/acre). In addition the ACC WSMT can accept inputs from 5 Hopper Level, 4 Air Pressure, 3 Shaft Sensors, 1 Lift Switch and 1 Ground Speed Sensor when used with the Auxiliary Sensor Input Harness. The ACC WSMT will not accept inputs directly from Seed Sensors, requiring a WSMB to be connected for input of up to 18 Seed Sensors.

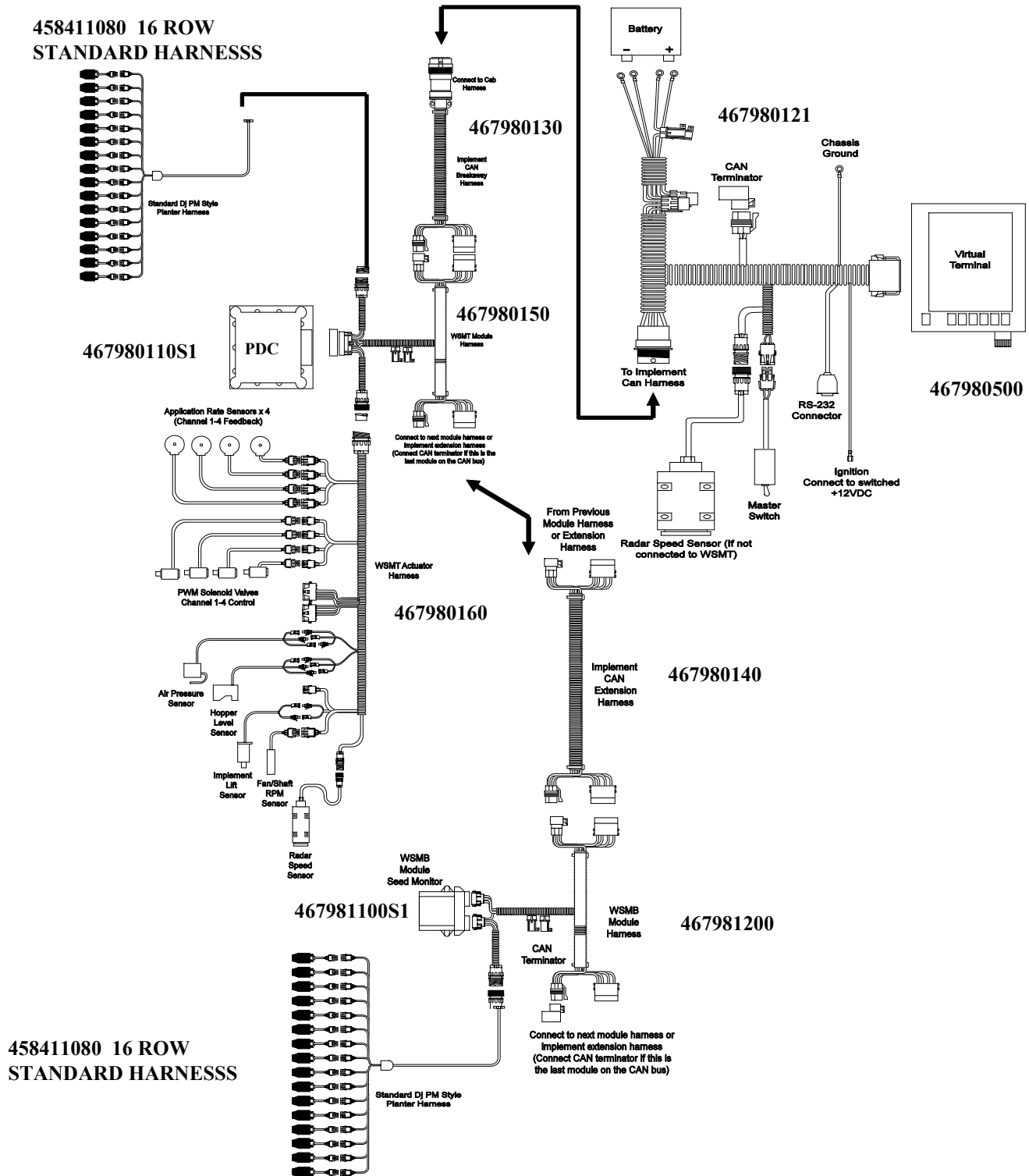
The WSMB is a slave to the WSMT. Each WSMB can accept up to 18 rows of seed sensors and passes this information on to the WSMT.

IntelliAg / ISO 11783 System Diagram ACC (Air Cart Control)





IntelliAg / ISO11783 SYSTEM DIAGRAM PDC (Planter Drill Control)





ISO A2 Monochrome Terminal



WSMB Module



Planter Drill Control "PDC" Module



Air Cart Control "ACC" Module

**Part Number**

**ISO PARTS**

467980600S1	Terminal Mounting Hardware
467890124	Master On/Off Switch
467980150	WSMT Harness
467981200	WSMB Harness
467980160	Actuator/Sensor Harness
467980200	Air Seeder Accessory Input Harness
467980130	40' Hitch Extension
467980131	20' Hitch Extension
467980132	10' Hitch Extension
467980140	20' WSMB Extension
467980141	10' WSMB Extension
467980142	5' WSMB Extension
467980170S1	WSMT Mounting Hardware
467980500	ISO A2 Monochrome Terminal
467980501	ISO A2 Terminal Color
467980110S1	PDC Module
467980210S1	ACC Module
467981100S1	WSMB Module
467980121	Tractor Harness w/o IBBC

**Description**

**OPTIONS**

**SEED SENSORS**

467420010S1	Recon I
467420350	Recon II 1.5" hose
467420360	Recon II 1.5" - 2.25" hose
452440971	Hi Rate with chute
465260010S1	Hi Rate Grain Drill

**PLANTER HARNESS**

458410980	2 Row Harness
458410530	4 Row Harness
458410550	6 Row Harness
458410570	8 Row Harness
458410590	12 Row Harness
458411080	16 Row Harness

**MISC SENSORS**

466820720S3	Hopper Level Sensor
466820920S1	Air Pressure Sensor
464360176S1	Application Rate Sensor
466970014S1	Hall Effect Shaft Sensor
463720150S1	Implement Lift Switch

**GROUND SPEED SENSORS**

456401912	Radar Ground Speed Sensor
467832000	GPS Speed Sensor

**HYDRAULIC VALVES**

467092004S1	4 GPM Hydraulic Valve
467092008S1	8 GPM Hydraulic Valve

The basic IntelliAg system for Air Cart monitoring and control consist of the minimum following components. Select appropriate lengths for hitch extension and WSMB extension. Select seed, shaft, speed, hopper, air, rate sensors, planter harness, hydraulic valves and lift switch from the option section on previous page.

Part Number	Description
467980600S1	Terminal Mounting Hardware
467890124	Master On/Off Switch
467980150	WSMT Harness
467981200	WSMB Harness
467980160	Actuator/Sensor Harness
467980130	40' Hitch Extension
467980131	20' Hitch Extension
467980132	10' Hitch Extension
467980140	20' WSMB Extension
467980141	10' WSMB Extension
467980142	5' WSMB Extension
467980170S1	WSMT Mounting Hardware
467980500	ISO Terminal
467980210S1	ACC WSMT Module
467981100S1	WSMB Module
467980121	Tractor Harness w/o IBBC

The basic IntelliAg system for Planter monitoring and control consist of the minimum following components The PDC module allows for monitoring 16 seed sensor inputs. Select appropriate lengths for hitch extension and WSMB extension. Select seed, shaft, speed, hopper, air, rate sensors, planter harness, hydraulic valves, lift switch from the option section on the previous page. To monitor seed sensors beyond 16 rows add the WSMB module.

Part Number	Description
467980600S1	Terminal Mounting Hardware
467890124	Master On/Off Switch
467980150	WSMT Harness
467980160	Actuator/Sensor Harness
467980130	40' Hitch Extension
467980131	20' Hitch Extension
467980132	10' Hitch Extension
467980140	20' WSMB Extension
467980141	10' WSMB Extension
467980142	5' WSMB Extension
467980170S1	WSMT Mounting Hardware
467980500	ISO Terminal
467980110S1	PDC WSMT Module
467980121	Tractor Harness w/o IBBC

## 1 Channel Land Manager Systems

Part Number	Description
LM1/CCS RETRO	LAND MANAGER CONSOLE WITH CCS RETRO HARNESS
LM1E	EUROPEAN LM SYSTEM- Sprayer Harness
LM1ER	EUROPEAN LM SYSTEM- Sprayer Harness w/Radar
LM1EU	EUROPEAN LM SYSTEM- Sprayer Harness w/UDS
LM1EY	EUROPEAN LM SYSTEM- Sprayer Harness w/Y Cable
LM1PL	System w/ Pull Type Long Harness
LM1PLR	LM1 System w/ Pull Type Long Harness & Radar
LM1PLU	LM1 System w/ Pull Type Long Harness & UDS
LM1PLY	LM1 System w/ Pull Type Long Harness & Y Cable
LM1PS	LM1 System w/ Pull Type Short Harness
LM1PSR	LM1 System w/ Pull Type Short Harness & Radar
LM1PSU	LM1 System w/ Pull Type Short Harness & UDS
LM1PSY	LM1 System w/ Pull Type Short Harness & Y Cable
LM1T	LM1 System w/Truck Harness
LM1TR	LM1 System w/Truck Harness & Radar
LM1TU	LM1 System w/Truck Harness & UDS
LM1TY	LM1 System w/Truck Harness & Y Cable



DICKEY-john Land Manager® Controls Liquid, Granular or NH3 Liquid Flow or Pressure Based Two Digital Accessories- Fan RPM, Hopper Level, One Analog Accessory- Pressure Sensor, Temperature Sensor Standard RS232 port for GPS or Printer 10 Boom Section Inputs

## 2 Channel Land Manager Systems

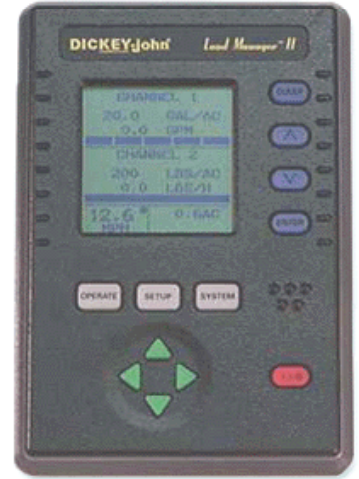
Part Number	Description
LM2/CCS RETRO	LM2 Retro System to CCS100 Harness
LM2PL	LM2 System w/ Pull Type Long Harness
LM2PLR	LM2 System w/ Pull Type Long Harness & Radar
LM2PLU	LM2 System w/ Pull Type Long Harness & UDS
LM2PLY	LM2 System w/ Pull Type Long Harness & Y Cable
LM2PS	LM2 System w/ Pull Type Short Harness
LM2PSR	LM2 System w/ Pull Type Short Harness & Radar
LM2PSU	LM2 System w/ Pull Type Short Harness & UDS
LM2PSY	LM2 System w/ Pull Type Short Harness & Y Cable
LM2T	LM2 System w/Truck Harness
LM2TR	LM2 System w/Truck Harness & Radar
LM2TU	LM2 System w/Truck Harness & UDS
LM2TY	LM2 System w/Truck Harness & Y Cable

LM1 = One Channel Land Manager  
LM2 = Two Channel Land Manager  
LMSE= Land Manager SE Version  
T = Truck Harness  
PS = Pull Type Short Harnessing  
PL = Pull Type Long Harnessing  
R = Radar  
U= Universal Distance Sensor  
Y= Radar "Y" Cable

*Refer to pages 10 - 14 for complete system and kit descriptions.*

### Land Manager SE Systems

Part Number	Description
LMSE / CCS RETRO	Land Manager SE to CCS100 System Kit
LMSEP	Land Manager SE w/ Pull Type Harness
LMSEPR	Land Manager SE w/ Pull Type Harness & Radar
LMSEPU	Land Manager SE w/ Pull Type Harness & UDS
LMSEPY	Land Manager SE w/ Pull Type Harness & Y Cable
LMSET	Land Manager SE w/ Truck Harness
LMSETR	Land Manager SE w/ Truck Harness & Radar
LMSETU	Land Manager SE w/ Truck Harness & UDS
LMSETY	Land Manager SE w/ Truck Harness & Y Cable



*Refer to pages 10 - 14 for complete system and kit descriptions.*

#### Configuring A Land Manager Control System

First, select the Land Manager system that best suits your needs. Land Manager systems are available with your choice of a Land Manager 1, Land Manager II, or the Land Manager SE. Within those systems you can select a radar speed sensor, universal distance (magnetic) sensor, a radar Y cable, or elect to use an existing speed sensor you already have. Once you have chosen the Land Manager system, refer to page 3 to select the control system kit for your application. If you have questions regarding a specific application call our Technical Support hotline at 1-800-637-3302. Below is a listing of radar Y cables available with the Land Manager systems

DICKEY-john Land Manager SE® Controls Liquid, Granular or NH3 Liquid Flow or Pressure Based One Digital Accessory-Fan RPM, Hopper Level, Vapor Detector 6 Boom Section Inputs

### Radar Y Cables

Part Number	Description
15295-0002	RADAR 'Y' (Dj radar to 2 console)
45640-2520S3	RADAR 'Y' (Dj radar to John Deere dash and console)
45640-2530S3	RADAR 'Y' (John Deere Magnavox radar to dash and console)
45640-3030	RADAR 'Y' (Challenger AorB series Cat radar to dash and console)
45640-4360S1	RADAR 'Y' (Challenger C series Cat radar to dash and console)
45640-4440	RADAR 'Y' (Ford Genesis radar to Genesis dash and console)
45640-4670	RADAR 'Y' (Steiger & Maxum radar to dash and console)
45640-4810	RADAR 'Y' (John Deere in-cab radar convenience plug adapter)

Note: See Page 33 for a complete listing of tractor model numbers and "Y" cables



**Liquid Flow Rate Formula**

To Calculate Liquid Flow Rates (GPM) use the Following Formula.

Width x Speed x Application Rate (GPA) x .00202

Example: 60 ft. x 15mph x 20gpa x .00202 = 36.36 GPM

**NH3 or Granular Flow Rate Formula**

To Calculate NH3 or Granular Flow Rates (lbs./hr) use the Following Formula.

Width x Speed x Application Rate (GPA) x .1212

Example: 42.5 ft. x 6mph x 200lbs NH3 x .1212 = 6181 lbs./hr

**Nylon Liquid Flowmeter Ratings**

Flowmeter	Flow Rate
1/2"	.79-7.9 GPM
3/4"	1.85-18.5 GPM
1"	2.64-26.4 GPM
1.5"	9.25-92.5 GPM
2"	19.00-198 GPM
3"	39.6-396 GPM
4"	79.0-790 GPM

\*Note: Maximum flow on pressure kits is based on 100 PSI.

Maximum flow rate for NH3 is based on 110 PSI tank pressure.

Make sure to account for these pressures when calculating for systems. See above table when selecting the correct flowmeter for your flow range. Refer to page 6 for information regarding proper NH3 system sizing

**Pressure Kits**

Part Number	Description	Valve Size	Maximum Flow Rate
L1/2P	1/2" VALVE WITH 100 PSI TRANSDUCER	1/2"	20 GPM
L3/4P	3/4" VALVE WITH 100 PSI TRANSDUCER	3/4"	45 GPM
L1P	1" VALVE WITH 100 PSI TRANSDUCER	1"	80 GPM
L2P	2" VALVE WITH 100 PSI TRANSDUCER	2"	220 GPM
L3P	3" VALVE WITH 100 PSI TRANSDUCER	3"	600 GPM
LSP	HYDRAULIC VALVE W/ 100 PSI PRESSURE TRANSDUCER	SPECIFY	

**Nylon Flow Kits**

Part Number	Description	Valve Size	Maximum Flow Rate
L1/2POLYF	3/8" BALL VALVE WITH 1/2" FLOWMETER	3/8"	.79-7.9 GPM
L3/4POLYF	1/2" BALL VALVE WITH 3/4" FLOWMETER	1/2"	1.85-18.5 GPM
L1POLYF	3/4" BALL VALVE WITH 1" FLOWMETER	3/4"	2.64-26.4 GPM
L1.5POLYF	1" BALL VALVE WITH 1.5" FLOWMETER	1"	9.25-92.5 GPM
L2POLYF	2" BALL VALVE WITH 2" FLOWMETER	2"	19-198 GPM

**Granular**

Part Number	Description	Valve Size	Maximum Flow Rate
GS	HYDRAULIC VALVE W/ APPLICATION RATE SENSOR	3/8"	.79-7.9 GPM
GP4	1/2" BALL VALVE WITH 3/4" FLOWMETER	1/2"	1.85-18.5 GPM
GP8	3/4" BALL VALVE WITH 1" FLOWMETER	3/4"	2.64-26.4 GPM

**NH3 Kits**

Part Number	Description	Valve Size	Maximum Flow Rate
CCSNH3KIT	CCS NH3 SYSTEM	3/4"	4200 LBS./HR.
CCSNH3KIT1	CCS NH3 SYSTEM	1"	5500 LBS./HR.
CCSNH3KIT2TTU	CCS NH3 SYSTEM	1" 2-TTU	680 LBS./HR.
CONTNH3KIT	CONTINENTAL NH3 KIT	1 1/4"	9600 LBS./HR.

Refer to pages 10 - 14 for complete system and kit descriptions.

## Land Manager Console

Part Number	Description
46639-0025S1	Land Manager I Console
46639-0026S1	Land Manager II Console
46639-0029S1	Land Manager SE Console

## Land Manager harness, Adapters & Hardware

43940-0024	10 Ft. Ground Speed Sensor Extension
45790-1810	Sensor Ext. 15 Ft.
45790-1811	Sensor Ext. 30 Ft.
45790-1820	Valve Ext. 15 Ft.
45790-1891S1	LMSE Implement Harness
45790-1892	LMSE Main Harness (Requires 46639-1260S1)
45790-2770S1	LMSE Main Harness Extension 20 Ft.
46350-0090	20 Ft. Hall Effect Extension (Fan RPM)
46350-0120	Hall Effect to Radar Ext. 15.5 Ft.
46436-0210	LM Truck Harness (Requires 46639-1260S1)
46605-0030	Land Manager Switch Module
466390970S1	Land Manager Switch Module Bracket
46639-0910S1	Land Manager Mounting Bracket
46639-1000S1	Land Manager 1 Channel Main Harness (short)
46639-1003S1	Land Manager 1 Channel Main Harness (long)
46639-1030S1	Land Manager 1 Channel Implement Harness
46639-1031S1	Land Manager 2 Channel Implement Harness
46639-1050S1	Actuator Power Harness
46639-1051S1	2 Channel Actuator Power Harness
46639-1081S1	1 Channel Truck Harness
46639-1090S1	Land Manager Power Harness /RS232
46639-1101S1	LM to CCS Adaptor Harness
46639-1120S1	LM European J1 Cab Harness
46639-1130S1	LM European Sprayer Implement Harness
46639-1140S1	LM European Planter/Granular Implement Harness
46639-1150S1	LM European Speed & Area Implement Harness
46639-1210S1	2 Channel Truck Harness
46639-1220S1	25' Main Harness Extension
46639-1260S1	LMSE to CCS Adaptor Harness





### LM1E

Component	Item Description	Qty
LM1CSL0PT1	CSL, LAND MANAGER, PICK TO ORDER	1
466390910S1	MTG BRACKET KIT LM	1
466050030	MASTER SW MODULE ASY	1
110112820	TY WRAP BUNDLE	1
466391090S1	HARN ASSY, J2	1
466391120S1	HARNESS ASSY., CAB HARNESS 1CH J1 A/S	1
466391130S1	HARNESS ASSY., SPRAYER HARN. 1CH A/S	1
110011351	LAND MANGER OPERATORS MANUAL I/II	1
110011090	INST INSTR LAND MAN	1

### LM1ER

Component	Item Description	Qty
LM1CSL0PT1	CSL, LAND MANAGER, PICK TO ORDER	1
466390910S1	MTG BRACKET KIT LM	1
466050030	MASTER SW MODULE ASY	1
110112820	TY WRAP BUNDLE	1
466391090S1	HARN ASSY, J2	1
466391120S1	HARNESS ASSY., CAB HARNESS 1CH J1 A/S	1
466391130S1	HARNESS ASSY., SPRAYER HARN. 1CH A/S	1
467831000S1	DJRVSIII, UNIVERSAL	1
456402100	DJRVSII PIPE MTG BKT	1
467830760	DJRVSIII HARDWARE KIT	1
110011351	LAND MANGER OPERATORS MANUAL I/II	1
110011090	INST INSTR LAND MAN	1

### LM1EU

Component	Item Description	Qty
LM1CSL0PT1	CSL, LAND MANAGER, PICK TO ORDER	1
466390910S1	MTG BRACKET KIT LM	1
466050030	MASTER SW MODULE ASY	1
110112820	TY WRAP BUNDLE	1
466391090S1	HARN ASSY, J2	1
466391120S1	HARNESS ASSY., CAB HARNESS 1CH J1 A/S	1
466391130S1	HARNESS ASSY., SPRAYER HARN. 1CH A/S	1
459100150	SPEED SENSOR	1
110011351	LAND MANGER OPERATORS MANUAL I/II	1
110011090	INST INSTR LAND MAN	1

### LM1EY

Component	Item Description	Qty
LM1CSL0PT1	CSL, LAND MANAGER, PICK TO ORDER	1
466390910S1	MTG BRACKET KIT LM	1
466050030	MASTER SW MODULE ASY	1
110112820	TY WRAP BUNDLE	1
466391090S1	HARN ASSY, J2	1
466391120S1	HARNESS ASSY., CAB HARNESS 1CH J1 A/S	1
466391130S1	HARNESS ASSY., SPRAYER HARN. 1CH A/S	1
RADARY0PT1	RADAR Y OPTIONAL CABLES	1
110011351	LAND MANGER OPERATORS MANUAL I/II	1
110011090	INST INSTR LAND MAN	1

### LM1PL

Component	Item Description	Qty
466390025S1	CSL[CE]LAND MANAGER	1
466390910S1	MTG BRACKET KIT LM	1
466050030	MASTER SW MODULE ASY	1
110112820	TY WRAP BUNDLE	1
466391090S1	HARN ASSY, J2	1
466391003S1	CAB HARN J1 LONG	1
466391030S1	IMP HARN 1 CHANNEL	1
110011351	LAND MANGER OPERATORS MANUAL I/II	1
110011090	INST INSTR LAND MAN	1

### LM1PLR

Component	Item Description	Qty
466390025S1	CSL[CE]LAND MANAGER	1
466390910S1	MTG BRACKET KIT LM	1
466050030	MASTER SW MODULE ASY	1
110112820	TY WRAP BUNDLE	1
466391090S1	HARN ASSY, J2	1
466391003S1	CAB HARN J1 LONG	1
466391030S1	IMP HARN 1 CHANNEL	1
467831000S1	DJRVSIII, UNIVERSAL	1
456402100	DJRVSII PIPE MTG BKT	1
467830760	DJRVSIII HARDWARE KIT	1
110011351	LAND MANGER OPERATORS MANUAL I/II	1
110011090	INST INSTR LAND MAN	1

### LM1PLU

Component	Item Description	Qty
466390025S1	CSL[CE]LAND MANAGER	1
466390910S1	MTG BRACKET KIT LM	1
466050030	MASTER SW MODULE ASY	1
110112820	TY WRAP BUNDLE	1
466391090S1	HARN ASSY, J2	1
466391003S1	CAB HARN J1 LONG	1
466391030S1	IMP HARN 1 CHANNEL	1
459100150	SPEED SENSOR	1
110011351	LAND MANGER OPERATORS MANUAL I/II	1
110011090	INST INSTR LAND MAN	1

### LM1PLY

Component	Item Description	Qty
466390025S1	CSL[CE]LAND MANAGER	1
466390910S1	MTG BRACKET KIT LM	1
466050030	MASTER SW MODULE ASY	1
110112820	TY WRAP BUNDLE	1
466391090S1	HARN ASSY, J2	1
466391003S1	CAB HARN J1 LONG	1
466391030S1	IMP HARN 1 CHANNEL	1
RADARY0PT1	RADAR Y OPTIONAL CABLES	1
110011351	LAND MANGER OPERATORS MANUAL I/II	1
110011090	INST INSTR LAND MAN	1

### LM1PS

Component	Item Description	Qty
466390025S1	CSL[CE]LAND MANAGER	1
466390910S1	MTG BRACKET KIT LM	1
466050030	MASTER SW MODULE ASY	1
110112820	TY WRAP BUNDLE	1
466391090S1	HARN ASSY, J2	1
466391000S1	CAB HARN J1	1
466391030S1	IMP HARN 1 CHANNEL	1
110011351	LAND MANGER OPERATORS MANUAL I/II	1
110011090	INST INSTR LAND MAN	1

### LM1PSR

Component	Item Description	Qty
466390025S1	CSL[CE]LAND MANAGER	1
466390910S1	MTG BRACKET KIT LM	1
466050030	MASTER SW MODULE ASY	1
110112820	TY WRAP BUNDLE	1
466391090S1	HARN ASSY, J2	1
466391000S1	CAB HARN J1	1
466391030S1	IMP HARN 1 CHANNEL	1
456402100	DJRVSII PIPE MTG BKT	1
467831000S1	DJRVSIII, UNIVERSAL	1
467830760	DJRVSIII HARDWARE KIT	1
110011351	LAND MANGER OPERATORS MANUAL I/II	1
110011090	INST INSTR LAND MAN	1



**LM1PSU**

Component	Item Description	Qty
466390025S1	CSL[CE]LAND MANAGER	1
466390910S1	MTG BRACKET KIT LM	1
466050030	MASTER SW MODULE ASY	1
110112820	TY WRAP BUNDLE	1
466391090S1	HARN ASSY, J2	1
466391000S1	CAB HARN J1	1
466391030S1	IMP HARN 1 CHANNEL	1
459100150	SPEED SENSOR	1
110011351	LAND MANGER OPERATORS MANUAL I/II	1
110011090	INST INSTR LAND MAN	1

**LM1PSY**

Component	Item Description	Qty
466390025S1	CSL[CE]LAND MANAGER	1
466390910S1	MTG BRACKET KIT LM	1
466050030	MASTER SW MODULE ASY	1
110112820	TY WRAP BUNDLE	1
466391090S1	HARN ASSY, J2	1
466391000S1	CAB HARN J1	1
466391030S1	IMP HARN 1 CHANNEL	1
RADARYOPT1	RADAR Y OPTIONAL CABLES	1
110011351	LAND MANGER OPERATORS MANUAL I/II	1
110011090	INST INSTR LAND MAN	1

**LM1T**

Component	Item Description	Qty
466390025S1	CSL[CE]LAND MANAGER	1
466390910S1	MTG BRACKET KIT LM	1
466050030	MASTER SW MODULE ASY	1
110112820	TY WRAP BUNDLE	1
466391090S1	HARN ASSY, J2	1
466391081S1	HARN ASY CNTL SYS J1	1
110011351	LAND MANGER OPERATORS MANUAL I/II	1
110011090	INST INSTR LAND MAN	1

**LM1TR**

Component	Item Description	Qty
466390025S1	CSL[CE]LAND MANAGER	1
466390910S1	MTG BRACKET KIT LM	1
466050030	MASTER SW MODULE ASY	1
110112820	TY WRAP BUNDLE	1
466391090S1	HARN ASSY, J2	1
466391081S1	HARN ASY CNTL SYS J1	1
467831000S1	DJRVSIII, UNIVERSAL	1
456402100	DJRVSII PIPE MTG BKT	1
467830760	DJRVSIII HARDWARE KIT	1
110011351	LAND MANGER OPERATORS MANUAL I/II	1
110011090	INST INSTR LAND MAN	1

**LM1TU**

Component	Item Description	Qty
466390025S1	CSL[CE]LAND MANAGER	1
466390910S1	MTG BRACKET KIT LM	1
466050030	MASTER SW MODULE ASY	1
110112820	TY WRAP BUNDLE	1
466391090S1	HARN ASSY, J2	1
466391081S1	HARN ASY CNTL SYS J1	1
459100150	SPEED SENSOR	1
110011351	LAND MANGER OPERATORS MANUAL I/II	1
110011090	INST INSTR LAND MAN	1

**LM1TY**

Component	Item Description	Qty
466390025S1	CSL[CE]LAND MANAGER	1
466390910S1	MTG BRACKET KIT LM	1
466050030	MASTER SW MODULE ASY	1
110112820	TY WRAP BUNDLE	1
466391090S1	HARN ASSY, J2	1
466391081S1	HARN ASY CNTL SYS J1	1
RADARYOPT1	RADAR Y OPTIONAL CABLES	1
110011351	LAND MANGER OPERATORS MANUAL I/II	1
110011090	INST INSTR LAND MAN	1

**LM2CCS RETRO**

Component	Item Description	Qty
466390026S1	CSL[CE]LAND MAN II	1
466391101S1	HARN ASSY CCS ADAPT	1
466050030	MASTER SW MODULE ASY	1
466390910S1	MTG BRACKET KIT LM	1
466391051S1	HARNASS,POWER	1
110011351	LAND MANGER OPERATORS MANUAL I/II	1
110011090	INST INSTR LAND MAN	1

**LM2PL**

Component	Item Description	Qty
466390026S1	CSL[CE]LAND MAN II	1
466390910S1	MTG BRACKET KIT LM	1
466050030	MASTER SW MODULE ASY	1
110112820	TY WRAP BUNDLE	1
466391090S1	HARN ASSY, J2	1
466391003S1	CAB HARN J1 LONG	1
466391031S1	IMP HARN 2 CHANNEL	1
110011351	LAND MANGER OPERATORS MANUAL I/II	1
110011090	INST INSTR LAND MAN	1

**LM2PLR**

Component	Item Description	Qty
466390026S1	CSL[CE]LAND MAN II	1
466390910S1	MTG BRACKET KIT LM	1
466050030	MASTER SW MODULE ASY	1
110112820	TY WRAP BUNDLE	1
466391090S1	HARN ASSY, J2	1
466391003S1	CAB HARN J1 LONG	1
466391031S1	IMP HARN 2 CHANNEL	1
467831000S1	DJRVSIII, UNIVERSAL	1
456402100	DJRVSII PIPE MTG BKT	1
467830760	DJRVSIII HARDWARE KIT	1
110011090	INST INSTR LAND MAN	1
110011351	LAND MANGER OPERATORS MANUAL I/II	1

**LM2PLU**

Component	Item Description	Qty
466390026S1	CSL[CE]LAND MAN II	1
466390910S1	MTG BRACKET KIT LM	1
466050030	MASTER SW MODULE ASY	1
110112820	TY WRAP BUNDLE	1
466391090S1	HARN ASSY, J2	1
466391003S1	CAB HARN J1 LONG	1
466391031S1	IMP HARN 2 CHANNEL	1
459100150	SPEED SENSOR	1
110011351	LAND MANGER OPERATORS MANUAL I/II	1
110011090	INST INSTR LAND MAN	1



**LM2PLY**

Component	Item Description	Qty
466390026S1	CSL[CE]LAND MAN II	1
466390910S1	MTG BRACKET KIT LM	1
466050030	MASTER SW MODULE ASY	1
110112820	TY WRAP BUNDLE	1
466391090S1	HARN ASSY, J2	1
466391003S1	CAB HARN J1 LONG	1
466391031S1	IMP HARN 2 CHANNEL	1
RADARY0PT1	RADAR Y OPTIONAL CABLES	1
110011351	LAND MANGER OPERATORS MANUAL I/II	1
110011090	INST INSTR LAND MAN	1

**LM2PS**

Component	Item Description	Qty
466390026S1	CSL[CE]LAND MAN II	1
466390910S1	MTG BRACKET KIT LM	1
466050030	MASTER SW MODULE ASY	1
110112820	TY WRAP BUNDLE	1
466391090S1	HARN ASSY, J2	1
466391000S1	CAB HARN J1	1
466391031S1	IMP HARN 2 CHANNEL	1
110011351	LAND MANGER OPERATORS MANUAL I/II	1
110011090	INST INSTR LAND MAN	1

**LM2PSR**

Component	Item Description	Qty
466390026S1	CSL[CE]LAND MAN II	1
466390910S1	MTG BRACKET KIT LM	1
466050030	MASTER SW MODULE ASY	1
110112820	TY WRAP BUNDLE	1
466391090S1	HARN ASSY, J2	1
466391000S1	CAB HARN J1	1
466391031S1	IMP HARN 2 CHANNEL	1
467831000S1	DJRVSIII, UNIVERSAL	1
456402100	DJRVSII PIPE MTG BKT	1
467830760	DJRVSIII HARDWARE KIT	1
110011351	LAND MANGER OPERATORS MANUAL I/II	1
110011090	INST INSTR LAND MAN	1

**LM2PSU**

Component	Item Description	Qty
466390026S1	CSL[CE]LAND MAN II	1
466390910S1	MTG BRACKET KIT LM	1
466050030	MASTER SW MODULE ASY	1
110112820	TY WRAP BUNDLE	1
466391090S1	HARN ASSY, J2	1
466391000S1	CAB HARN J1	1
466391031S1	IMP HARN 2 CHANNEL	1
459100150	SPEED SENSOR	1
110011351	LAND MANGER OPERATORS MANUAL I/II	1
110011090	INST INSTR LAND MAN	1

**LM2PSY**

Component	Item Description	Qty
466390026S1	CSL[CE]LAND MAN II	1
466390910S1	MTG BRACKET KIT LM	1
466050030	MASTER SW MODULE ASY	1
110112820	TY WRAP BUNDLE	1
466391090S1	HARN ASSY, J2	1
466391000S1	CAB HARN J1	1
466391031S1	IMP HARN 2 CHANNEL	1
RADARY0PT1	RADAR Y OPTIONAL CABLES	1
110011351	LAND MANGER OPERATORS MANUAL I/II	1
110011090	INST INSTR LAND MAN	1

**LM2T**

Component	Item Description	Qty
466390026S1	CSL[CE]LAND MAN II	1
466390910S1	MTG BRACKET KIT LM	1
466050030	MASTER SW MODULE ASY	1
110112820	TY WRAP BUNDLE	1
466391090S1	HARN ASSY, J2	1
466391210S1	HARN ASY CNTL SYS J1	1
466391051S1	HARNNESS,POWER	1
110011351	LAND MANGER OPERATORS MANUAL I/II	1
110011090	INST INSTR LAND MAN	1

**LM2TR**

Component	Item Description	Qty
466390026S1	CSL[CE]LAND MAN II	1
466390910S1	MTG BRACKET KIT LM	1
466050030	MASTER SW MODULE ASY	1
110112820	TY WRAP BUNDLE	1
466391090S1	HARN ASSY, J2	1
466391210S1	HARN ASY CNTL SYS J1	1
466391051S1	HARNNESS,POWER	1
467831000S1	DJRVSIII, UNIVERSAL	1
456402100	DJRVSII PIPE MTG BKT	1
467830760	DJRVSIII HARDWARE KIT	1
110011351	LAND MANGER OPERATORS MANUAL I/II	1
110011090	INST INSTR LAND MAN	1

**LM2TU**

Component	Item Description	Qty
466390026S1	CSL[CE]LAND MAN II	1
466390910S1	MTG BRACKET KIT LM	1
466050030	MASTER SW MODULE ASY	1
110112820	TY WRAP BUNDLE	1
466391090S1	HARN ASSY, J2	1
466391210S1	HARN ASY CNTL SYS J1	1
466391051S1	HARNNESS,POWER	1
459100150	SPEED SENSOR	1
110011351	LAND MANGER OPERATORS MANUAL I/II	1
110011090	INST INSTR LAND MAN	1

**LM2TY**

Component	Item Description	Qty
466390026S1	CSL[CE]LAND MAN II	1
466390910S1	MTG BRACKET KIT LM	1
466050030	MASTER SW MODULE ASY	1
110112820	TY WRAP BUNDLE	1
466391090S1	HARN ASSY, J2	1
466391210S1	HARN ASY CNTL SYS J1	1
466391051S1	HARNNESS,POWER	1
RADARY0PT1	RADAR Y OPTIONAL CABLES	1
110011351	LAND MANGER OPERATORS MANUAL I/II	1
110011090	INST INSTR LAND MAN	1



### LM1/CCS RETRO

Component	Item Description	Qty
466390025S1	CSL[CE]LAND MANAGER	1
466391101S1	HARN ASSY CCS ADAPT	1
466050030	MASTER SW MODULE ASY	1
466391050S1	HARN,ACT PWR	1
466390910S1	MTG BRACKET KIT LM	1
110011090	INST INSTR LAND MAN	1
110011351	LAND MANGER OPERATORS MANUAL I/II	1

### LMSECCS RETRO

Component	Item Description	Qty
466390029S1	CSL[CE]LAND MANAGER SE	1
466391260S1	HARNESS ASSY ADAPT, LAND MANAGER SE	1
466050030	MASTER SW MODULE ASY	1
466390910S1	MTG BRACKET KIT LM	1
466391050S1	HARN,ACT PWR	1
110011248	LAND MANAGER SE VERS. 1.5SW MANUAL	1
110011197	INSTALLATION INSTR LAND MANAGER SE	1

### LMSEP

Component	Item Description	Qty
466390029S1	CSL[CE]LAND MANAGER SE	1
466390910S1	MTG BRACKET KIT LM	1
466050030	MASTER SW MODULE ASY	1
110112820	TY WRAP BUNDLE	1
466391260S1	HARNESS ASSY ADAPT, LAND MANAGER SE	1
457901892	HARNESS,MAIN,CCS100	1
457901891S1	HARNESS,IMPLEMENT	1
466391050S1	HARN,ACT PWR	1
110011248	LAND MANAGER SE VERS. 1.5SW MANUAL	1
110011197	INSTALLATION INSTR LAND MANAGER SE	1

### LMSEPR

Component	Item Description	Qty
466390029S1	CSL[CE]LAND MANAGER SE	1
466390910S1	MTG BRACKET KIT LM	1
466050030	MASTER SW MODULE ASY	1
110112820	TY WRAP BUNDLE	1
466391260S1	HARNESS ASSY ADAPT, LAND MANAGER SE	1
457901892	HARNESS,MAIN,CCS100	1
457901891S1	HARNESS,IMPLEMENT	1
467831000S1	DJRVSIII, UNIVERSAL	1
456402100	DJRVSII PIPE MTG BKT	1
467830760	DJRVSIII HARDWARE KIT	1
466391050S1	HARN,ACT PWR	1
110011248	LAND MANAGER SE VERS. 1.5SW MANUAL	1
110011197	INSTALLATION INSTR LAND MANAGER SE	1

### LMSEPU

Component	Item Description	Qty
466390029S1	CSL[CE]LAND MANAGER SE	1
466390910S1	MTG BRACKET KIT LM	1
466050030	MASTER SW MODULE ASY	1
110112820	TY WRAP BUNDLE	1
466391260S1	HARNESS ASSY ADAPT, LAND MANAGER SE	1
457901892	HARNESS,MAIN,CCS100	1
457901891S1	HARNESS,IMPLEMENT	1
459100150	SPEED SENSOR	1
466391050S1	HARN,ACT PWR	1
110011248	LAND MANAGER SE VERS. 1.5SW MANUAL	1
110011197	INSTALLATION INSTR LAND MANAGER SE	1

### LMSEPY

Component	Item Description	Qty
466390029S1	CSL[CE]LAND MANAGER SE	1
466390910S1	MTG BRACKET KIT LM	1
466050030	MASTER SW MODULE ASY	1
110112820	TY WRAP BUNDLE	1
466391260S1	HARNESS ASSY ADAPT, LAND MANAGER SE	1
457901892	HARNESS,MAIN,CCS100	1
457901891S1	HARNESS,IMPLEMENT	1
152950002	Y CABLE,RADAR SENSOR	1
466391050S1	HARN,ACT PWR	1
110011248	LAND MANAGER SE VERS. 1.5SW MANUAL	1
110011197	INSTALLATION INSTR LAND MANAGER SE	1

### LMSET

Component	Item Description	Qty
466390029S1	CSL[CE]LAND MANAGER SE	1
466390910S1	MTG BRACKET KIT LM	1
466050030	MASTER SW MODULE ASY	1
110112820	TY WRAP BUNDLE	1
466391260S1	HARNESS ASSY ADAPT, LAND MANAGER SE	1
464360210A	HARN CCS MAIN TRUCK	1
110011248	LAND MANAGER SE VERS. 1.5SW MANUAL	1
110011197	INSTALLATION INSTR LAND MANAGER SE	1

### LMSETR

Component	Item Description	Qty
466390029S1	CSL[CE]LAND MANAGER SE	1
466390910S1	MTG BRACKET KIT LM	1
466050030	MASTER SW MODULE ASY	1
110112820	TY WRAP BUNDLE	1
466391260S1	HARNESS ASSY ADAPT, LAND MANAGER SE	1
464360210A	HARN CCS MAIN TRUCK	1
467831000S1	DJRVSIII, UNIVERSAL	1
456402100	DJRVSII PIPE MTG BKT	1
467830760	DJRVSIII HARDWARE KIT	1
110011248	LAND MANAGER SE VERS. 1.5SW MANUAL	1
110011197	INSTALLATION INSTR LAND MANAGER SE	1

### LMSETU

Component	Item Description	Qty
466390029S1	CSL[CE]LAND MANAGER SE	1
466390910S1	MTG BRACKET KIT LM	1
466050030	MASTER SW MODULE ASY	1
110112820	TY WRAP BUNDLE	1
466391260S1	HARNESS ASSY ADAPT, LAND MANAGER. SE	1
464360210A	HARN CCS MAIN TRUCK	1
459100150	SPEED SENSOR	1
110011248	LAND MANAGER SE VERS. 1.5SW MANUAL	1
110011197	INSTALLATION INSTR LAND MANAGER SE	1

### LMSETY

Component	Item Description	Qty
466390029S1	CSL[CE]LAND MANAGER SE	1
466390910S1	MTG BRACKET KIT LM	1
466050030	MASTER SW MODULE ASY	1
110112820	TY WRAP BUNDLE	1
466391260S1	HARNESS ASSY ADAPT, LAND MANAGER. SE	1
464360210A	HARN CCS MAIN TRUCK	1
152950002	Y CABLE,RADAR SENSOR	1
110011248	LAND MANAGER SE VERS. 1.5SW MANUAL	1
110011197	INSTALLATION INSTR LAND MANAGER SE	1



**L1/2P**

Component	Item Description	Qty
464820200S1	ACTUATOR 1.0" VALVE	1
457902480S1	VALVE, BALL 1/2"(12MM)	1
465700010	XDUCER, 100PSI CCS	1

**L3/4P**

Component	Item Description	Qty
464820200S1	ACTUATOR 1.0" VALVE	1
457902490S1	VALVE, BALL,3/4"(19MM)	1
465700010	XDUCER, 100PSI CCS	1

**L1P**

Component	Item Description	Qty
464820200S1	ACTUATOR 1.0" VALVE	1
464820210S1	BUNDLE 1" VALVE	1
465700010	XDUCER, 100PSI CCS	1

**L2P**

Component	Item Description	Qty
464820170S1	VALVE & ACTUATOR 2"	1
465700010	XDUCER, 100PSI CCS	1
110040228	HARDWARE PKG-DJSC	1

**L3P**

Component	Item Description	Qty
465800010S1	VALVE & ACTUATOR 3"	1
465700010	XDUCER, 100PSI CCS	1

**LSP**

Component	Item Description	Qty
HV0PT1	HYDRAUL. VALVE OPTION SET, GRAN. VALVES	1
464360030A	VALVE ACTUATOR DRIVER	1
465700010	XDUCER, 100PSI CCS	1

**L1/2POLYF**

Component	Item Description	Qty
PM00370018S1	FLOWMETER/SNSR, 1/2", 0.79-7.9 GPM	1
464820200S1	ACTUATOR 1.0" VALVE	1
457903750S1	VALVE, BALL 3/8"	1

**L3/FPOLYF**

Component	Item Description	Qty
PM00370023S1	FLOWMETER/SNSR, 3/4", 1.85-18.5 GPM	1
464820200S1	ACTUATOR 1.0" VALVE	1
457902480S1	VALVE, BALL 1/2"(12MM)	1

**L1POLYF**

Component	Item Description	Qty
PM00370030S1	FLOWMETER/SNSR, 1", 2.64-26.4 GPM	1
464820200S1	ACTUATOR 1.0" VALVE	1
457902490S1	VALVE, BALL,3/4"(19MM)	1

**L1.5POLYF**

Component	Item Description	Qty
PM00370040S1	FLOWMETER/SNSR, 1.5", 9.25-92.5 GPM	1
464820200S1	ACTUATOR 1.0" VALVE	1
464820210S1	BUNDLE 1" VALVE	1

**L2POLYF**

Component	Item Description	Qty
PM00370048S1	FLOWMETER/SNSR, 2", 19.0-198 GPM	1
464820170S1	VALVE & ACTUATOR 2"	1

**GS**

Component	Item Description	Qty
HV0PT1	HYDRAUL. VALVE OPTION SET, GRAN. VALV..	1
110040179	HARDWARE PKG-AP/RATE SENSOR	1
464360030A	VALVE ACTUATOR DRIVER	1
ARS0PT1	APPLICATION RATE SENSOR OPTION SET	1

**GP4**

Component	Item Description	Qty
ARS0PT1	APPLICATION RATE SENSOR OPTION SET	1
464210431S1	DRIVER VALVE PCS	1
467092004S1	4 GPM HYDRAULIC VALVE ASSY A/S	1
110040179	HARDWARE PKG-AP/RATE SENSOR	1

**GP8**

Component	Item Description	Qty
ARS0PT1	APPLICATION RATE SENSOR OPTION SET	1
464210431S1	DRIVER VALVE PCS	1
467092008S1	8 GPM HYDRAULIC VALVE ASSY A/S	1
110040179	HARDWARE PKG-AP/RATE SENSOR	1

**CCSNH3KIT**

Component	Item Description	Qty
457902490S1	VLVE,BALL,3/4"(19MM)	1
457901610S1	FLOWMETER,CCS100	1
457902500A	TTU	1
457902280BS1	PIPE HARDWARE KIT	1
464820200S1	ACTUATOR 1.0" VALVE	1
110010882	MANUAL, NH3 OPERATING	1

**CCSNH3KIT1**

Component	Item Description	Qty
464820210S1	BUNDLE 1" VALVE	1
464820200S1	ACTUATOR 1.0" VALVE	1
457901610S1	FLOWMETER,CCS100	1
457902500A	TTU	1
457902280BS1	PIPE HARDWARE KIT	1
110010882	MANUAL, NH3 OPERATING	1
206510011	NIPPLE,1.0X2.0 NPT	2

**CCSNH3KIT2TTU**

Component	Item Description	Qty
464820210S1	BUNDLE 1" VALVE	1
464820200S1	ACTUATOR 1.0" VALVE	1
457901610S1	FLOWMETER,CCS100	1
457902500A	TTU	2
457902281AS1	HARDWARE KIT	1
110010882	MANUAL, NH3 OPERATING	1

**CONTNH3KIT**

Component	Item Description	Qty
457903320B	SUPER FLOW ASSY	1
457903380	BALL VALVE, CONTROL	1
457903390	BRACKET, ACTUATOR MOUNT	1
464820200S1	ACTUATOR 1.0" VALVE	1
457901610S1	FLOWMETER,CCS100	1
457903310S1	HARDWARE KIT CONT	1
110010882	MANUAL, NH3 OPERATING	1
110011326	CONT. INSTALL INSTRUCTIONS	1
457903550	HARDWARE KIT NH3 VALVE CONT	1

## Liquid Systems

Part Number	Description	Valve Size	Maximum Flow Rate
CCS1E1001/2	CCS Liquid System w/ 1/2" Valve	1/2"	20 GPM
CCS1E100R1/2	CCS Liquid System w/ 1/2" Valve & Radar	1/2"	20 GPM
CCS1E100U1/2	CCS Liquid System w/ 1/2" Valve & Universal Sensor	1/2"	20 GPM
CCS1E100Y1/2	CCS Liquid System w/ 1/2" Valve & Radar Y Cable	1/2"	20 GPM
CCS1E1003/4	CCS Liquid System w/ 3/4" Valve	3/4"	45 GPM
CCS1E100R3/4	CCS Liquid System w/ 3/4" Valve & Radar	3/4"	45 GPM
CCS1E100U3/4	CCS Liquid System w/ 3/4" Valve & Universal Sensor	3/4"	45 GPM
CCS1E100Y3/4	CCS Liquid System w/ 3/4" Valve & Radar Y Cable	3/4"	45 GPM
CCS1E1001	CCS Liquid System w/ 1" Valve	1"	80 GPM
CCS1E100R1	CCS Liquid System w/ 1" Valve & Radar	1"	80 GPM
CCS1E100U1	CCS Liquid System w/ 1" Valve & Universal Sensor	1"	80 GPM
CCS1E100Y1	CCS Liquid System w/ 1" Valve & Radar Y Cable	1"	80 GPM
CCS1ELIQ2R	CCS Liquid System w/ 2" Valve & Radar	2"	220 PGM
CCS1ELIQ3R	CCS Liquid System w/ 3" Valve & Radar	3"	600 GPM
CCSLIQ30R	CCS Liquid System w/ 30 GPM Hydraulic Valve & Radar	Hydraulic	30 GPM Hydraulic

### Liquid Flow Rate Formula

To Calculate Liquid Flow Rates (GPM) use the Following Formula.

Width x Speed x Application Rate (GPA) x .00202

Example: 60 ft. x 15mph x 20gpa x .00202 = 36.36 GPM



### DICKY-john CCS100

Controls Liquid, Granular or NH3  
Easy Setup and operation  
Liquid Displays Rate & Pressure  
NH3 & Granular Displays Rate & lbs./hr



### DICKY-john CMS100

Monitors the Following:

Speed	Field Product
Area	Total Product
Total Area	Distance Counter
Field Area	Application Rate
Product Level	



NH3 or Granular Flow Rate Formula  
To Calculate NH3 or Granular Flow Rates  
(lbs./hr) use the Following Formula.  
Width x Speed x Application Rate (lbs./  
Acre) x .1212  
Example: 42.5 ft. x 6mph x 200lbs NH3 x  
.1212 = 6181 lbs./hr



**Granular Systems**

Part Number	Description	Valve Size	Maximum Flow Rate
CCS/CMS11GPMGRAN	CCS & CMS Granular System	Hydraulic	11 GPM Hydraulic
CCS/CMS20GPMGRAN	CCS Granular System	Hydraulic	20 GPM Hydraulic
CCS/CMS25GPMGRAN	CCS Granular System	Hydraulic	25 GPM Hydraulic
CCS/CMS30GPMGRAN	CCS Granular System	Hydraulic	30 GPM Hydraulic
CCS/CMSGRANR	CCS Granular System-Radar	Hydraulic	Specify
CCS/CMSGRANS	CCS Granular System-Mechanical Speed Sensor	Hydraulic	Specify
CCSGRANR	CCS Granular System	Hydraulic	Specify
CCSGRANS	CCS Granular System	Hydraulic	Specify

**NH3 Systems**

Part Number	Description	Valve Size	Maximum Flow Rate
CCSCONT	CCS Continental NH3 System	1 1/4"	9600 lbs./hr
CCSCONTR	CCS Continental NH3 System w/ Radar	1 1/4"	9600 lbs./hr
CCSCONTU	CCS Continental NH3 System w/ Universal Sensor	1 1/4"	9600 lbs./hr
CCSCONTY	CCS Continental NH3 System w/ Radar Y Cable	1 1/4"	9600 lbs./hr
CCS1EF3/4	CCS NH3 System w/ 3/4" Valve	3/4"	4200 lbs./hr
CCS1EFR3/4	CCS NH3 System w/ 3/4" Valve & Radar	3/4"	4200 lbs./hr
CCS1EFU3/4	CCS NH3 System w/ 3/4" Valve & Universal Sensor	3/4"	4200 lbs./hr
CCS1EFY3/4	CCS NH3 System w/ 3/4" Valve & Radar Y Cable	3/4"	4200 lbs./hr
CCS1EF1	CCS NH3 System w/ 1" Valve	1"	5500 lbs./hr
CCS1EFR1	CCS NH3 System w/ 1" Valve & Radar	1"	5500 lbs./hr
CCS1EFU1	CCS NH3 System w/ 1" Valve & Universal Sensor	1"	5500 lbs./hr
CCS1EFY1	CCS NH3 System w/ 1" Valve & Radar Y Cable	1"	5500 lbs./hr
CCS1EF12TTU	CCS NH3 System w/ 1" Valve	1" 2-TTU	6800 lbs./hr
CCS1EFR12TTU	CCS NH3 System w/ 1" Valve & Radar	1" 2-TTU	6800 lbs./hr
CCS1EFU12TTU	CCS NH3 System w/ 1" Valve & Universal Sensor	1" 2-TTU	6800 lbs./hr
CCS1EFY12TTU	CCS NH3 System w/ 1" Valve & Radar Y Cable	1" 2-TTU	6800 lbs./hr

**\*NH3 Kits**

Part Number	Description	Valve Size	Maximum Flow Rate
CCSNH3KIT	CCS NH3 System	3/4"	4200 lbs/hr
CCSNH3KIT1	CCS NH3 System	1"	5500 lbs/hr
CCSNH3KIT2TTU	CCS NH3 System	1" 2-TTU	6800 lbs/hr
CONTNH3KIT	Continental NH3 Kit	1 1/4"	9600 lbs/hr

Note: Maximum flow on pressure kits is based on 100 PSI. Maximum flow rate for NH3 is based on 110 PSI tank pressure. Make sure to account for these pressures when calculating for systems. Refer to the flowmeter rating chart when selecting the correct flowmeter for your flow range.

\*Note: These kits are used to add NH3 capability to an existing CCS100 liquid control system or as a kit with a Land Manager system.

---

## Control System Application Notes & Conversions

### Important

To ensure the highest possible flow rates, your applicator plumbing must be sized properly. The following is a guideline for transfer of NH<sub>3</sub> from the nurse tank to the applicator.

LBS/HR	Plumbing Size
0-3600	1" Feed Line and Breakaway
3600-6800	1 1/4" Feed Line and Breakaway
6800 & Up	1 1/2" Feed Line and Breakaway

### NH<sub>3</sub> or Granular Flow Rate Formula

To Calculate NH<sub>3</sub> or Granular Flow Rates (lbs./hr) use the Following Formula.

Width x Speed x Application Rate (lbs./Acre) x .1212

Example: 42.5 ft. x 6mph x 200lbs. NH<sub>3</sub> x .1212 = 6181 lbs./hr

---

### NH<sub>3</sub> System Flow Rates

All maximum flow rates listed are at 110 PSI tank pressure. To account for application in cold conditions where tank pressures will be significantly lower, use the following conversion when sizing a NH<sub>3</sub> system. Approximately one third of the total system capacity is lost at one half of the tank pressure.

*Example: 42.5 ft. x 6mph x 200lbs NH<sub>3</sub> x .1212 = 6181 lbs./hr  
6181 lbs./hr x 1.335 = 8251 lbs./hr*

Based on the calculation above, you would need a system with at least 8251 LB/hr capacity to put on the required amount at 55 PSI tank pressure or in this instance a DICKY-john Continental system rated at 9600 LB/hr maximum flow rate.

---

### Liquid Flow Rate Formula

To Calculate Liquid Flow Rates (GPM) use the Following Formula.

Width x Speed x Application Rate (GPA) x .00202

Example: 60 ft. x 15mph x 20gpa x .00202 = 36.36 GPM



### Sprayer & Speed / Area Monitors



#### **DICKEY-john CMS100**

Monitors the Following:

- Speed
- Area
- Total Area
- Field Area
- Product Level
- Field Product
- Total Product
- Distance Counter
- Application Rate

### Sprayer Monitor Systems

Part Number	Description
CMS MT	Includes Console, Pressure Sensor, & Harnessing. No Speed Sensor
CMS MTU	Includes Console, Pressure Sensor, Harnessing, & Universal Speed Sensor
CMS MTH	Includes Console, Pressure Sensor, Harnessing, & Hall Effect Speed Sensor
CMS MTR	Includes Console, Pressure Sensor, Harnessing, & Radar Speed Sensor

### Speed Area Monitor Systems

Part Number	Description
CMS A	Includes Console, Area Harness. No Speed Sensor
CMS AU	Includes Console, Area Harness, & Universal Speed Sensor
CMS AH	Includes Console, Area Harness, & Hall Effect Speed Sensor
CMS AR	Includes Console, Area Harness, & Radar Speed Sensor

Part Number	Description
CMS Y	CMS Console, and Y Cable for use with CCS NH3 or Liquid System



## Control System Parts



### CCS100 Control Consoles

Part Number	Description
45790-2302S1	CCS100 Liquid & NH3 Console
45790-2305S1	CCS100 Granular Console
45790-2307S1	CCS100 Linear Drive Console (12vdc Motor Control)
45790-2304S1	CCS100 650 PSI Liquid Console
45790-2309S1	CCS100 PWM Drive Liquid Console

### CMS100 Monitor Consoles

Part Number	Description
46429-0011S1	CMS100 Liquid & NH3 Console
46429-0012S1	CMS100 Granular Console
46429-0017S1	CMS100 Granular Linear Drive Console

### CCS/ CMS Harnesses, Adapters & Hardware

Part Number	Description	Part Number	Description
45790-1892	Main Harness	45790-1820	Valve Ext. 15Ft.
45790-1891S1	Implement Harness	45790-1821	Valve Ext. 30Ft.
45790-2770S1	Main Harness Extension 20Ft.	46350-0120	Hall Effect Sensor To Radar Ext. 15.5 Ft.
46429-0140	CMS Y Cable (Liquid & NH3)	43940-0024	10 Ft. Ground Speed Sensor Extension
46429-0150	CMS Y Cable (Granular)	46429-0250	CMS 3 Boom Input Adapter
45790-3140	Console Ext. 6Ft.	46429-0290S1	CMS 6 Boom Input Adapter
46436-0210A	Truck Harness	46429-0350	CMS Speed & Area Harness
46482-0262	2 & 3 Inch Valve Power Ext. Harness	46429-0360	CMS Speed, Area & Flow Harness
45790-1810	Sensor Ext. 15Ft.	46429-0370	CMS to CCS Harness Adapter
45790-1811	Sensor Ext. 30Ft.	46429-0510	Dual Stack Mounting Bracket CCS & CMS
46350-0090	20 Ft. Hall Effect Extension (Fan RPM)		

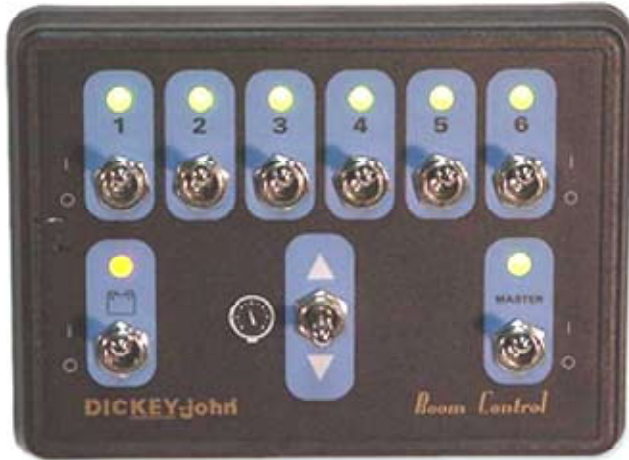
### Radar Y Cables

Part Number	Description
15295-0002	RADAR 'Y' (Dj radar to 2 console)
45640-2520S3	RADAR 'Y' (Dj radar to John Deere dash and console)
45640-2530S3	RADAR 'Y' (John Deere Magnavox radar to dash and console)
45640-3030	RADAR 'Y' (Challenger AorB series Cat radar to dash and console)
45640-4360S1	RADAR 'Y' (Challenger C series Cat radar to dash and console)
45640-4440	RADAR 'Y' (Ford Genisis radar to Genisis dash and console)
45640-4670	RADAR 'Y' (Steiger & Maxum radar to dash and console)
45640-4810	RADAR 'Y' (John Deere in-cab radar convenience plug adapter)

Note: See Page 33 for a complete listing of tractor model numbers and "Y" cables



Boom Shutoff Control Console



**DICKEY-john Boom Control**

- LED's provide instant recognition of active boom sections.
- Allows manual pressure adjustment.
- Sealed switches to prevent contamination.
- Compact size to provide simple installation.
- Harnesses available in 10' and 40' lengths.
- Compatible with most boom control valves and solenoids currently on the market.

**Boom Control**

Part Number	Description
BC10KIT	6 Section Boom Control box with 10' harness
BC40KIT	6 Section Boom Control box with 40' harness



Radar III



4 to 1 Radar Signal Adapter Used to run four electronic consoles off of 1 RVS II or RVS III

**Radar**

Part Number	Description
RVS III	Radar Kit With Mounting Brackets
46783-1000S1	Radar III Ground Speed Sensor Only
46783-0760	Radar Mounting Plate with Hardware
45640-2100	Radar Pipe Mounting Bracket
43940-0024	10 Ft. Ground Speed Sensor Extension
46787-0010S1	4 to 1 Radar Signal Adapter
43940-0064	25" Radar Ext.



DICKEY-john Product	Ground Speed Calibration Number
CCS100 and CMS100	5730
Land Manager SE, I, II	5730
PM300, 400, 500	5730
PM3000	1950 - requires adapter cable
SC1000	1950
Seed Manager / Seed Manager SE	5730
Seed Check	5730
TSM10	5730
IntelliAg	11,460

### ISpeed Ground Speed Sensor

Part Number	Description
46783-2000	Utilizes GPS for speed. Quick and easy installation. Adapter Required for PM3000



### Raven Ground Speed Sensor

Part Number	Description
46783-2010	Utilizes GPS for speed. Designed for connection to Raven Consoles.

### Universal Speed Sensor

Part Number	Description
45910-0150	Universal Speed Sensor Kit
45910-0190	Magnet Kit (60 Magnets)
43940-0024	10 Ft. Ground Speed Sensor Extension



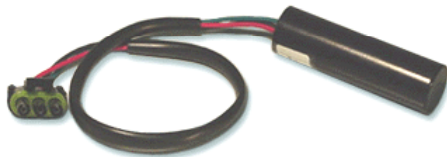
### Mechanical Speedometer Sensor

Part Number	Description
46436-0230S1	Mechanical Speedometer Sensor
43940-0024	10 Ft. Ground Speed Sensor Extension



### Hall Effect Speed Sensor

Part Number	Description
46350-0030S1	Hall Effect Speed Sensor (Smooth)
46697-0014S1	Hall Effect Speed Sensor (Threaded)
46350-0120	Hall Effect Sensor To Radar Ext. 15.5 Ft.
20040-0089	Jam Nut For Threaded Hall Effect Sensor



### Radar Y Cables

Part Number	Description
15295-0002	RADAR 'Y' (Dj radar to 2 console)
45640-2520S3	RADAR 'Y' (Dj radar to John Deere dash and console)
45640-2530S3	RADAR 'Y' (John Deere Magnavox radar to dash and console)
45640-3030	RADAR 'Y' (Challenger AorB series Cat radar to dash and console)
45640-4360S1	RADAR 'Y' (Challenger C series Cat radar to dash and console)
45640-4440	RADAR 'Y' (Ford Genisis radar to Genisis dash and console)
45640-4670	RADAR 'Y' (Steiger & Maxum radar to dash and console)
45640-4810	RADAR 'Y' (John Deere in-cab radar convenience plug adapter)

Note: See Page 33 for a complete listing of tractor model numbers and "Y" cables



### Implement Lift Switches

Part Number	Description
46372-0150S1	Lift Switch with WP Connector
45632-1070	Lift Switch with Mate-N-Loc Connector
10842-0001	30 Ft. Lift Switch Extension



### Pressure Sensors

Part Number	Description
46570-0010	0-100 PSI Pressure Sensor
46570-0020	0-650 PSI Pressure Sensor
46570-0030	0-60 PSI Pressure Sensor (SC1000)
46570-0040	0-225 PSI Pressure Sensor
46570-0050	0-225 PSI Pressure Sensor (SC1000)
46570-0070	0-300 PSI Pressure Sensor



### NH3 Flowmeter

Part Number	Description
45790-1610S1	NH3 Flowmeter Assembly
45790-1570AS1	Replacement Flowmeter Module
45790-3080S1	Replacement Flowmeter Paddle wheel kit



### Raven Flowmeter

Part Number	Description
46698-0040S1	Raven Flowmeter Adapter

**Stainless Steel Flowmeters NPT Threads**

Part Number	Description
PMNPT70116S1	1/2" SS Flowmeter NPT Threads
PMNPT70121S1	3/4" SS Flowmeter NPT Threads
PMNPT70126S1	1" SS Flowmeter NPT Threads
PMNPT70136S1	1.5" SS Flowmeter NPT Threads
PMNPT70146S1	2" SS Flowmeter NPT Threads



**Nylon Flowmeters**

Part Number	Description
PM00370018S1	1/2" Poly Flowmeter Assembly
PM00370023S1	3/4" Poly Flowmeter Assembly
PM00370030S1	1" Poly Flowmeter Assembly
PM00370040S1	1.5" Poly Flowmeter Assembly
PM00370048S1	2" Poly Flowmeter Assembly
PM00370048S2	2" Poly Flowmeter Assembly With 1 1/2" Hose Barbs
PM00370068	3" Flowmeter Only (No sensor or flanges)
PM00370068S1	3" Flowmeter Assembly w/ Flanges and Sensor
PM00370088	4" Flowmeter Only (No sensor or flanges)
PM00370088S1	4" Flowmeter Assembly w/ Flanges and Sensor

**1/2" - 2" Poly Flowmeter Assemblies include:**

- Flowmeter body with turbine, axle and bearings**
- Hall effect sensor with 3 pin weather pack connector**
- 2 Hose Barbs for inlet and outlet**
- 2 Viton O-rings**
- 2 Coupling Nuts**



Part Number	Description
PM00370001S1	Pony Flow Assembly



Part Number	Description
46788-1000S1	Reluctance Sensor Adapter

**Nylon & SS Flowmeters**

Flowmeter	Flow Rate	Flowmeter	Flow Rate
1/2"	.79-7.9 GPM	2"	19.00-198 GPM
3/4"	1.85-18.5 GPM	3"	39.6-396 GPM
1"	2.64-26.4 GPM	4"	79.0-790 GPM
1.5"	9.25-92.5 GPM		



2" Nylon Flowmeter



**Nylon Flowmeter Parts**

Part Number	Description
PM20005432	1.5" Coupling Nut
PM29300725S1	1/2" Turbine
PM29301899S1	1/2" Axle & Bearings
PM30005132	2" Coupling Nut
PM30301125S1	3/4" Turbine
PM30304999S1	Sensor Only (Poly Flowmeter )
PM30305099S1	3/4" Axle & Bearings
PM31300925S1	1" Turbine
PM31303199S1	1" Axle & Bearings
PM32300825S1	2" Turbine
PM32302099S1	1 1/2" Axle & Bearings ( Also 2")
PM32302099S1	2" Axle & Bearings (Also 1 1/2")
PM33302632	3" Flange w/Oring
PM33302732	3" Flange w/o Oring
PM34300325S1	1 1/2" Turbine
PM35300532	4" Flange w/Oring
PM35300632	4" Flange w/o Oring
PM65401732	1/2" Coupling Nut (Also fits 3/4" flowmeter)
PM65403132	1/2" Hose Barb (Also fits 3/4" flowmeter)
PM67401332	1" Coupling Nut
PM67402432	1" Hose Barb
PM80001432	1/2" O-ring (Viton) (Also fits 3/4" flowmeter)
PM80002232	2" O-ring (Viton)
PM80004832	1.5" O-ring (Viton)
PM80005432	1" O-ring (Viton)
PM82406532	2" Hose Barb
PM82416432	1.5" Hose Barb



4" Nylon Flowmeter Assembly

3" - 4" Nylon Flowmeter Assemblies include:  
 Flowmeter body with turbine, axle and bearings  
 Hall effect sensor with 3 pin weather pack connector  
 2 Flanges with Viton O-rings for inlet and outlet  
 2 Flat flanges (no O-rings)



**CCS100 Switch Module**

Part Number	Description
45790-2320S1	CCS100 Switch Module



**Land Manager Switch Module**

Part Number	Description
46605-0030	Land Manager Switch Module
46639-0970S1	Land Manager Switch Module Bracket





**Motor Driver Module**

Part Number	Description
46490-0010S1	+12vdc Motor Driver Module (Linear Drive) Maximum 30 Amp



**Hydraulic Valve Driver**

Part Number	Description
46421-0431S1	PWM Hydraulic Valve Driver



**Hydraulic Valve Driver Module**

Part Number	Description
46436-0030A	Hydraulic Valve Driver Module



**Rawson Drive Module**

Part Number	Description
46732-0050S1	Rawson Drive Module
46732-0030S1	Rawson Drive Module Cable

Rawson drive control module is used with Land Manager controller only. Not exactly as pictured.



15557 series hydraulic valves require a 46436-0030A Hydraulic Valve Driver Module listed at bottom of page

**Hydraulic Valve & Actuator**

**Part Number Description**

15557-0001	20 Ft. Cable and 30 GPM
15557-0002	10 Ft. Cable and 23 GPM
15557-0003	20 Ft. Cable and 9 GPM
15557-0004	20 Ft. Cable and 18 GPM
15557-0005	10 Ft. Cable and 28 GPM
15557-0006	20 Ft. Cable and 5 GPM
15557-0007	10 Ft. Cable and 30 GPM
15557-0008	10 Ft. Cable and 18 GPM
15557-0009	20 Ft. Cable and 28 GPM
15557-0010	20 Ft. Cable and 7 GPM
15557-0011	20 Ft. Cable and 13 GPM
15557-0012	10 Ft. Cable and 14 GPM
15557-0013	20 Ft. Cable and 16 GPM
15557-0014	20 Ft. Cable and 6 GPM
15557-0015	20 Ft. Cable and 25 GPM
15557-0016	20 Ft. Cable and 20 GPM
15557-0017	30 Ft. Cable and 30 GPM
15557-0018	11 Ft. Cable and 10 GPM
15557-0019	14 Ft. Cable and 20 GPM
15557-0022	20 Ft. Cable and 58 GPM



**Hydraulic Valve Driver Module**

**Part Number Description**

46436-0030A	Hydraulic Valve Driver Module
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**Part Number Description**

43940-0026	10 Ft. Hydraulic Valve Ext. Cable
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**4 & 8 GPM Proportional Valve Coil**

Part Number	Description
46709-0360	Replacement Coil - 4 or 8 GPM valve

**4 & 8 GPM Proportional Valve Coil**



**Proportional Valve Cartridge**

Part Number	Description
46709-0370	8 GPM Replacement Cartridge
46709-0380S1	4 GPM Replacement Cartridge

**Proportional Valve Cartridge**



**4 & 8 GPM Proportional Valve**

Part Number	Description
46709-2004S1	4 GPM Complete Valve Assembly
46709-2008S1	8 GPM Complete Valve Assembly

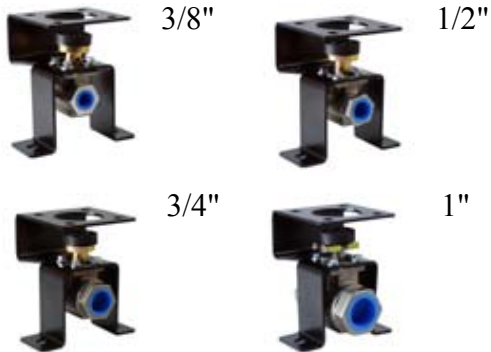
**4 & 8 GPM Proportional Valve** requires a 46421-0431S1 Proportional Valve Driver listed below.



**Proportional Valve Driver**

Part Number	Description
46421-0431S1	PWM Hydraulic Valve Driver

**Proportional Valve Driver**



**Ball Valves & Adapters**

Part Number	Description
45790-3750S1	3/8" Ball Valve
45790-2480S1	1/2" Ball Valve
45790-2490S1	3/4" Ball Valve
46482-0210S1	1" Ball Valve
46482-0430S1	Adapts 3/8", 1/2", 3/4" (Old Style) Stainless Valves to 1" Actuator (46482-0200S1)
46482-0070S1	Adapts 3/8", 1/2", 3/4" Cast Valves to 1" Actuator (46482-0200S1)

**Ball Valve & Adapters** require a 46482-0200S1 Valve Actuator listed below.



Part Number	Description
46482-0200S1	Valve Actuator



Part Number	Description
46482-0170S1	2" Butterfly Valve & Actuator
46580-0010S1	3" Butterfly Valve & Actuator
46482-0262	2 & 3 Inch Valve Power Ext. Harness



Part Number	Description
45790-3380	1 1/4" Control Valve (NH3 Only)
45790-3390	1" Valve Actuator Mounting Bracket to 1 1/4" Control Valve.



The Dj application rate sensor has a high resolution for measuring the rotational speed of the shaft to help ensure the accuracy of the system. Other features include:

- 360 pulses/revolution
- Environmentally tested for reliability
- Sealed assembly to prevent moisture ingress
- RPM Range from 2-2,500 RPM
- 12 Volt sensor with a square wave output



1" Shaft Coupler    1 1/4" Shaft Coupler



The application rate sensor tester can be used to quickly and effectively test application rate sensors even when sensors are installed on the truck. The tester provides an audible alarm with each degree of rotation from the application rate sensor.

### Application Rate Sensor

Part Number	Description
46436-0178S1	Sensor, AR with 1 Ft. Cable
46436-0176S1	Sensor, AR with 5 Ft. Cable
46436-0179S1	Sensor, AR with 6 Ft. Cable
46436-0170S1	Sensor, AR with 10 Ft. Cable
46436-0171S1	Sensor, AR with 15 Ft. Cable
46436-0177S1	Sensor, AR with 22 Ft. Cable
46436-0172S1	Sensor, AR with 30 Ft. Cable
11004-0305	AR Sensor Mounting Hardware (includes 1" coupler)
11004-0179	AR Sensor Mounting Hardware (includes 1 1/4" coupler)
21016-0009	1" Shaft Coupler
46421-1210S1	White Motor Sensor Adapter Cable
45790-1810	AR Sensor Extension Harness - 15 Ft.
45790-1811	AR Sensor Extension Harness - 30 Ft.
45790-1812	AR Sensor Extension Harness - 45 Ft.
45007-0066	AR Sensor Tester



\* Note: This sensor is not the same as the Hopper Level Sensor used on the planter monitors

### Hopper Level Sensor & Adapter Cables

Part Number	Description
45714-1180	4 Pin Round Amp Connector
46421-0518S1	4 Pin Square WeatherPac Connector
46436-0290	Adapts 45714-1180 To CCS
46645-0100	Adapts 46421-0518S1 To Land Manager

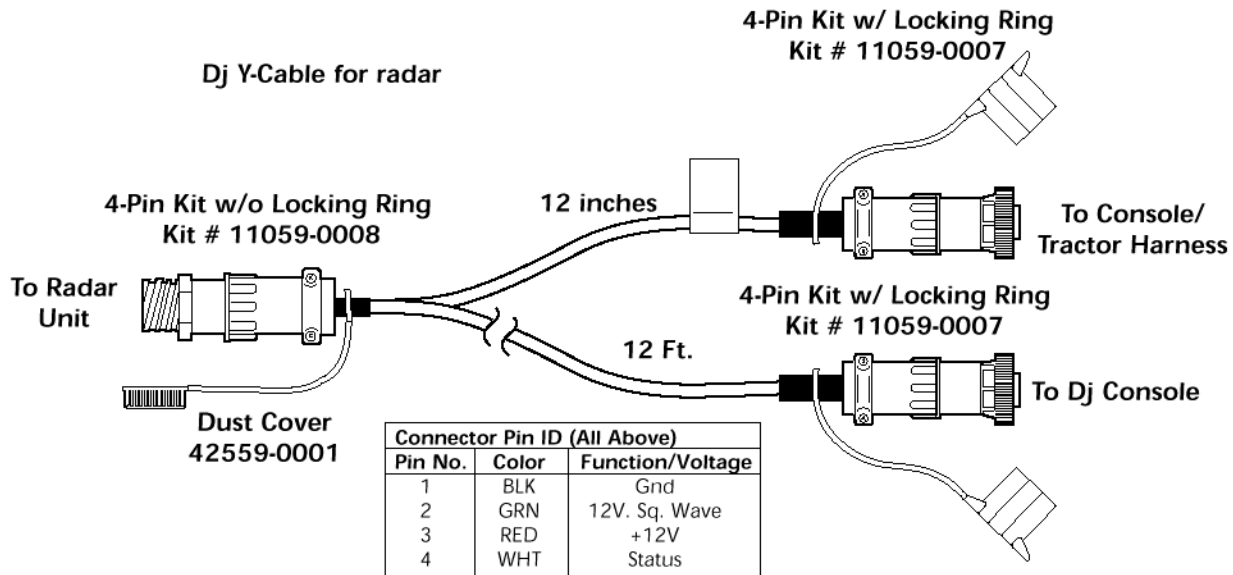


### Vapor Detector

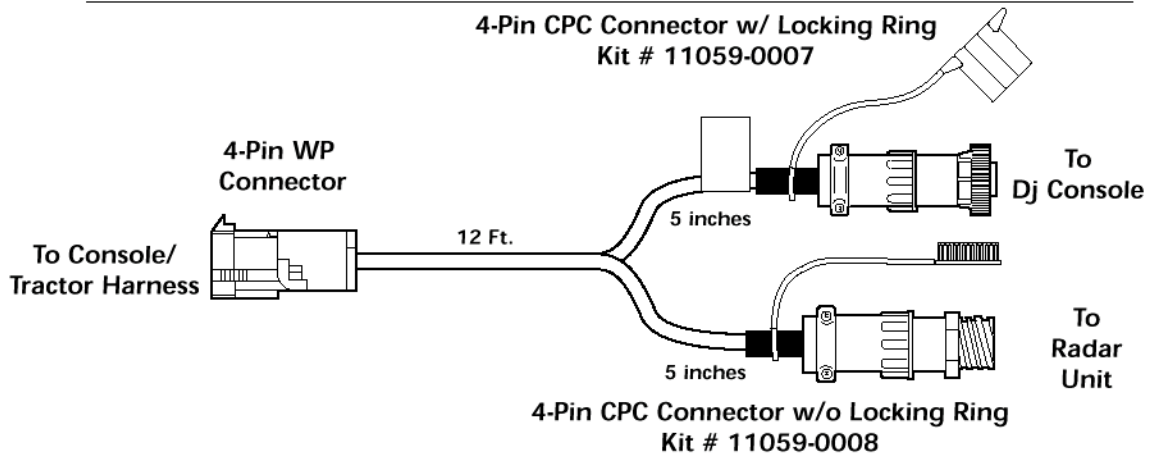
Part Number	Description
46431-0010S1	1.25 inch inlet and 1 inch outlet
46431-0011S1	1.25 inch inlet and 1.25 outlet
46431-0210S1	Sensor Replacement Kit
46645-0100	Adapts Vapor Detector to Land Manager

Radar Y Cables

**Figure 32. DICKEY-john Radar Y-Cable (15295-0002)**



**Figure 33. John Deere Radar Y-Cable (45640-2520S3)**



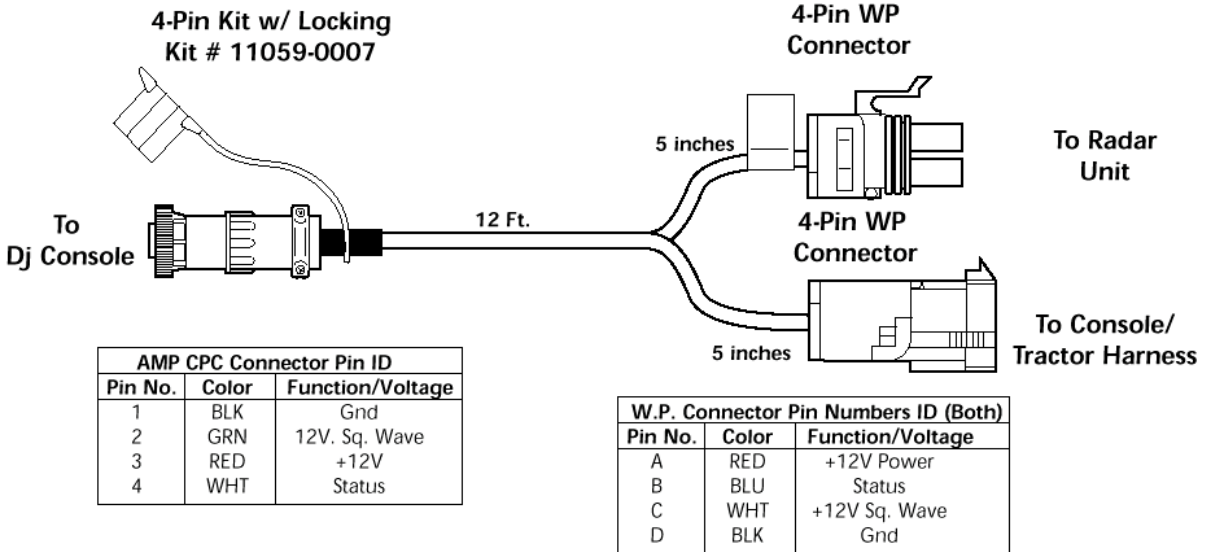
W.P. Connector Pin Numbers ID		
Pin No.	Color	Function/Voltage
1	BLK	Gnd
2	GRN	+12V Sq. Wave
3	RED	+12V Power
4	-	Plugged

AMP CPC Connector Pin ID w/Locking		
Pin No.	Color	Function/Voltage
1	BLK	Gnd
2	GRN	12V. Sq. Wave
3	RED	Jumped to pin 4
4	RED	Jumped to pin 3

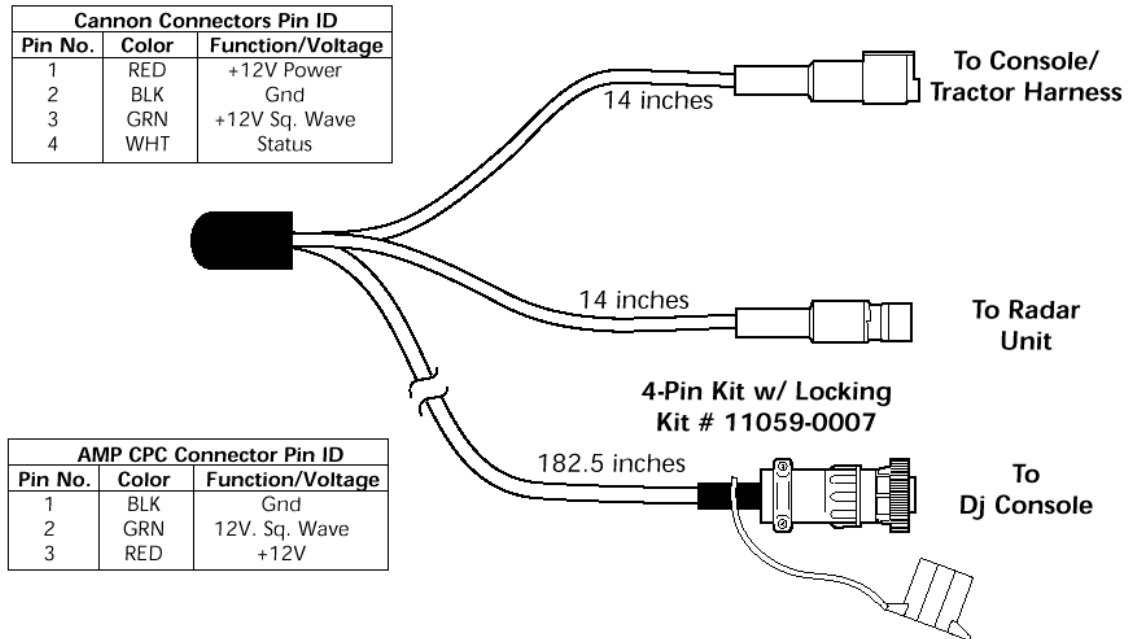
AMP CPC Connector Pin ID w/oLocking		
Pin No.	Color	Function/Voltage
1	BLK	Gnd
2	GRN	12V. Sq. Wave
3	RED	+12V

Radar Y Cables

**Figure 34. Magnavox Radar Y-Cable (45640-2530S3)**



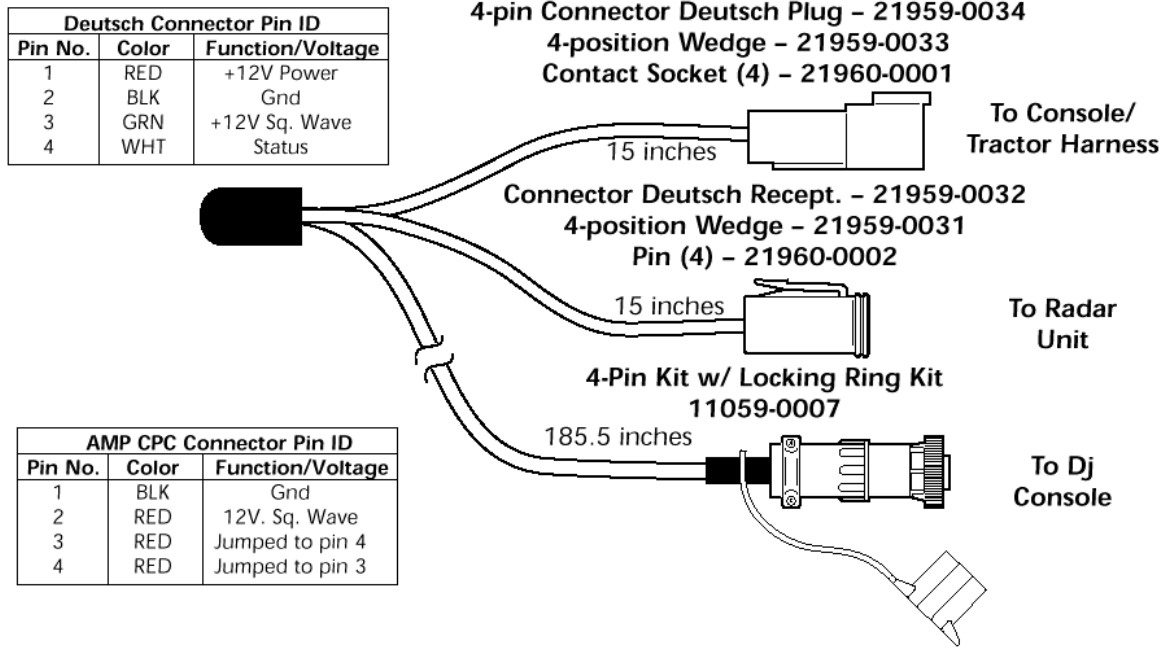
**Figure 35. Catapillar A & B Radar Y-Cable (45640-3030)**



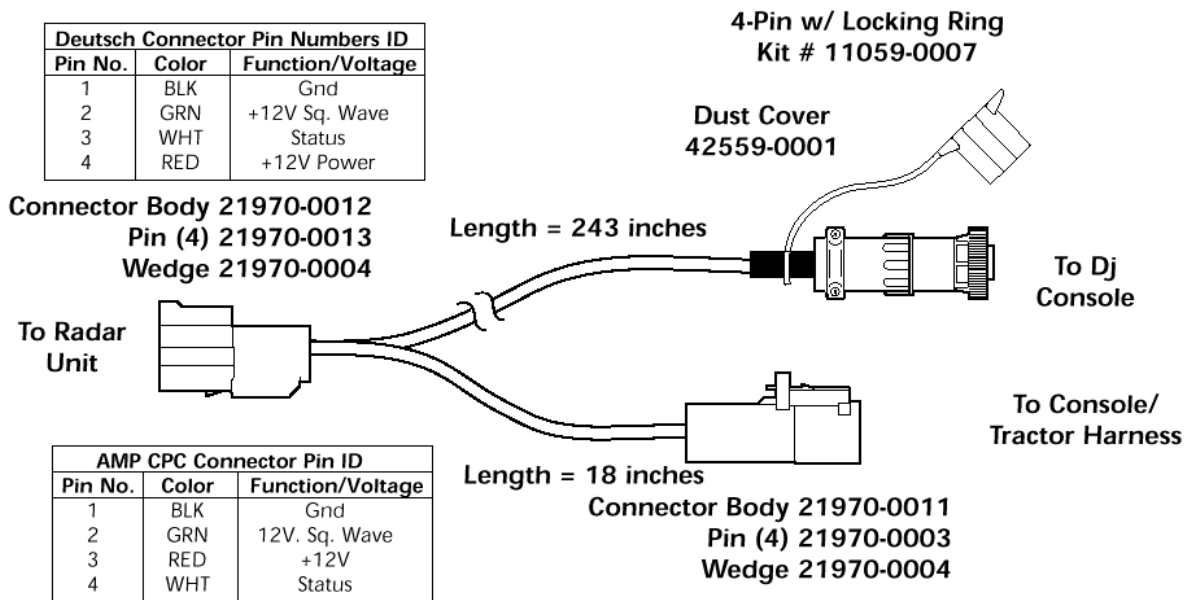


Radar Y Cables

**Figure 36. Catapillar C Radar Y-Cable (45640-4360S1)**



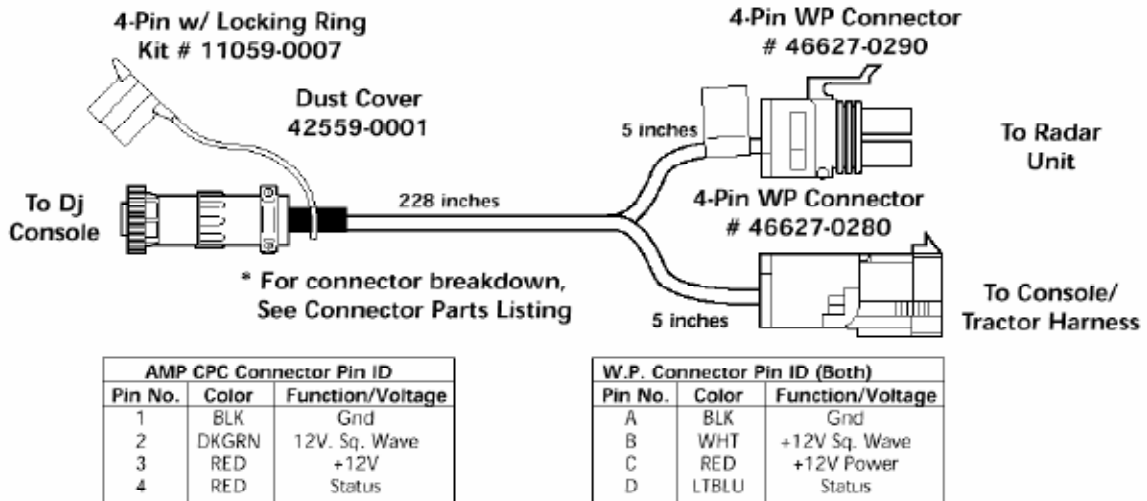
**Figure 37. Ford Genesis Radar Y-Cable (45640-4440)**





Radar Y Cables

**Figure 38. Steiger & Maxum Radar Y-Cable (45640-4670)**





Radars Y Cables

<b>Case IH</b>					
Model #	Y-Cable Part#	Model #	Y-Cable Part #	Model #	Y-Cable Part #
7110 Magnum	15295-0002	5210 Maxum	45640-4670	9210 Steiger	45640-4670
7120 Magnum	15295-0002	5220 Maxum	45640-4670	9230 Steiger	45640-4670
7130 Magnum	15295-0002	5230 Maxum	45640-4670	9240 Steiger	45640-4670
7140 Magnum	15295-0002	5240 Maxum	45640-4670	9250 Steiger	45640-4670
7150 Magnum	15295-0002	MX80	45640-4670	9270 Steiger	45640-4670
7210 Magnum	15295-0002	MX90	45640-4670	9280 Steiger	45640-4670
7220 Magnum	15295-0002	MX100	45640-4670	9310	45640-4670
7230 Magnum	15295-0002	MX110	45640-4670	9330	45640-4670
7240 Magnum	15295-0002	MX120	45640-4670	9350	45640-4670
7250 Magnum	15295-0002	MX130	45640-4670	9370	45640-4670
8910 Magnum	15295-0002	MX150	45640-4670	9380	45640-4670
8920 Magnum	15295-0002	MX170	45640-4670	9390	45640-4670
8930 Magnum	15295-0002	9110 Steiger	45640-4670	STX275	45640-4670
8940 Magnum	15295-0002	9130 Steiger	45640-4670	STX325	45640-4670
8950 Magnum	15295-0002	9150 Steiger	45640-4670	STX375	45640-4670
5110 Maxum	45640-4670	9170 Steiger	45640-4670	STX425	45640-4670
5120 Maxum	45640-4670	9180 Steiger	45640-4670	STX440	45640-4670
5130 Maxum	45640-4670	9190 Steiger	45640-4670	STX450	45640-4670
5140 Maxum	45640-4670				
<b>Caterpillar</b>					
Model #	Y-Cable Part #	Model #	Y-Cable Part #	Model #	Y-Cable Part #
65A	45640-3030	65C	45640-4360S1	85D	45640-4360S1
65B	45640-3030	75C	45640-4360S1	65E	45640-4360S1
75B	45640-3030	85C	45640-4360S1	75E	45640-4360S1
35	45640-4360S1	65D	45640-4360S1	85E	45640-4360S1
45	45640-4360S1	75D	45640-4360S1	95E	45640-4360S1
55	45640-4360S1				
<b>John Deere</b>					
Model #	Y-Cable Part #	Model #	Y-Cable Part #	Model #	Y-Cable Part #
4455	45640-2520S3	7400	45640-2520S3	7810	45640-2530S3
4555	45640-2520S3	7600	45640-2530S3	8000	45640-2530S3
4755	45640-2520S3	7700	45640-2530S3	8000T	45640-2530S3
4955	45640-2520S3	7800	45640-2530S3	8010	45640-2530S3
4560	45640-2520S3	7210	45640-2530S3	8010T	45640-2530S3
4760	45640-2520S3	7410	45640-2530S3	8300 Series*	45640-4810
4960	45640-2520S3	7610	45640-2530S3	9400 Series*	45640-4810
7200	45640-2520S3	7710	45640-2530S3		
*Note: In-Cab 2 Pin Convenience Plug					

Consoles & Harnessing



16 Row Monitoring, One Accessory input (fan, shaft, or flow).



36 Row Monitoring, One Accessory input (fan, shaft, or flow).



12 Row Monitoring, 12 Row tramline, Three Accessory input (fan, shaft, or flow).

**PM300 and 400 Features**

Adjustable Target population  
Hi and Low population alarms  
Population adjustment factor  
Population filter adjustment( Update rate)  
Speed Area Distance Mode  
Setup locks with password  
Adjustable audible alarm

3 saved planter configurations  
Two hopper monitors (Alarm Only)  
Lift switch input  
Alarm Cancel Feature  
Seed Count Mode Optional Feature/  
Back light dimming  
Metric/English Units

For expanded planter monitoring, nothing beats the **PM500**.

The PM500 offers 12-row monitoring and 12-row tramline, allowing you to shut off up to four rows simultaneously. It also includes right and left marker input, a CAN-based external row shut-off module, and three accessory inputs (fan, shaft, and rpm).

Unmatched precision and versatility  
Row and ground speed monitoring  
Area and population count  
Accessory monitoring  
Customizable settings



DICKEY-john PM100  
Available in 1-8 or 1-16 row version.  
Flashing lamps monitor seed flow and go out when seed flow stops. Adjustable lamp intensity for planting at night. Automatic sensor detection determines which rows have sensors connected.



**Consoles**

Part Number	Description
46794-0112S1	PM100E (1-8 ROWS)
46794-0111S1	PM100 (1-16 ROWS)
46799-0200S1	PM300 (1-16 ROWS)
46799-0300S1	PM400 (1-36 ROWS)
46799-0501S1	PM500 (1-12 ROWS)

**Row Shut Off Module**

Part Number	Description
46799-0400S1	Row Shut Off Module
46799-1140	12RSO harness
46799-1100	4RSO harness
46799-1110	6RSO harness
46799-1120	8RSO harness
46799-1130	10RSO harness

Consoles & Harnessing

**Case IH**

Part Number	Description
45841-0860	12 ROW HORIZONTAL FOLD
45968-0321	ALSO NEED 30' EXTENSION
45841-0610	16 ROW HORIZONTAL FOLD
45968-0321	ALSO NEED 30' EXTENSION

**John Deere**

Part Number	Description
45968-1030	8 ROW JD FRONT FOLDING
45968-1040	12 ROW JD FRONT FOLDING, WIDE
45968-1050	12 ROW JD FRONT FOLDING, NARROW
45968-1060	16 ROW JD FRONT FOLDING

**Kinze**

Part Number	Description
45841-0850	8 ROW REAR FOLD & TWIN LINE
45968-0321	ALSO NEED 30' EXTENSION
45841-0870	12 ROW REAR FOLD & TWIN LINE
45841-0880	16 ROW REAR FOLD & TWIN LINE
45841-0570	8 ROW ECONO FOLD
45841-0810	ALSO NEED 6' EXTENSION
45841-0590	12 ROW ECONO FOLD
45841-0810	ALSO NEED 6' EXTENSION

**Sensor Adaptors**

Part Number	Description
45960-0220S2	SENSOR ADAPTER (old style to new harness)
45960-0170S1	SENSOR ADAPTER (new style to old harness)
45968-1020S1	SENSOR ADAPTER (new style to CT harness)
45968-1140	SENSOR ADAPTER (CT style to new harness)

**Stacker Bar**

Part Number	Description
45841-1030	8 ROW
45841-1040	10 ROW
45841-1050	12 ROW
45841-1060	16 ROW

**Harness & Sensor Extensions**

Part Number	Description
45841-0810	6 FOOT HARNESS EXTENSION (16 row)
45968-0320	15 FOOT HARNESS EXTENSION (16 row)
45968-0321	30 FOOT HARNESS EXTENSION (16 row)
45841-0790	30 FOOT HARNESS EXTENSION (32 row)
45841-0820	15 FOOT HARNESS EXTENSION (32 row)
45968-0920	3 FOOT SENSOR EXTENSION
45968-0923S1	4 FOOT SENSOR EXTENSION
45968-0921	6 FOOT SENSOR EXTENSION
45968-0922	15 FOOT SENSOR EXTENSION

## Consoles & Harnessing

### Radar Y Cables

Part Number	Description
15295-0002	RADAR 'Y' (Dj radar to 2 console)
45640-2520S3	RADAR 'Y' (Dj radar to John Deere dash and console)
45640-2530S3	RADAR 'Y' (John Deere Magnavox radar to dash and console)
45640-3030	RADAR 'Y' (Challenger AorB series Cat radar to dash and console)
45640-4360S1	RADAR 'Y' (Challenger C series Cat radar to dash and console)
45640-4440	RADAR 'Y' (Ford Genisis radar to Genisis dash and console)
45640-4670	RADAR 'Y' (Steiger & Maxum radar to dash and console)
45640-4810	RADAR 'Y' (John Deere in-cab radar convenience plug adapter)

Note: See Page 30 for a complete listing of tractor model numbers and "Y" cables

### Console Adaptors

Part Number	Description
45802-0920	ADAPTER CABLE (10 pin harness to PM harness)
45841-1270	PM CONSOLE TO CT HARNESS

### Planter Monitor Connector Kits & Tools

Part Number	Description
11059-0005	37 PIN CPC CONNECTOR KIT (Harness side)
11059-0006	37 PIN CPC CONNECTOR KIT (Console side)
45968-1120	3 PIN PACKARD CONNECTOR KIT (6 harness side connectors)
45968-1110	3 PIN PACKARD CONNECTOR KIT (6 sensor side connectors)
11020-0010S1	PIN EXTRACTOR (CPC)
11020-0013	PIN EXTRACTOR (Packard)
11020-0002	CRIMPING TOOL (CPC)
42157-0003	DUST CAP (For CPC console connector)
42259-0003	DUST CAP (For CPC harness connector)

Consoles & Harnessing

**Console & Harness**

Part Number	Description
46682-2000S1	SEED MANAGER SE CONSOLE
46682-0133S1	Seed Manager SE Console Cab Harness (Short)
46682-0134S1	Seed Manager SE Console Cab Harness (Long)



**Modules**

Part Number	Description
46775-1120S1	12 Row - 2 Hopper Module
46775-1130S1	16 Row Module
46775-2020S1	Air Cart Monitoring Module



12 Row -  
2 Hopper Module



16 Row  
Module



Air Cart  
Module

**DICKY-john  
Seed Manager® SE**

Monitors Up to 96 Rows  
Population, Blockage or both  
Seed Spacing  
3 Area Counters  
High/Low Population Warnings

**Seed Manager SE Implement Harness**

Part Number	Description
46775-1300S1	12 ROW 7.5" HARNESS, SMSE
46775-1301S1	12 ROW 15" HARNESS, SMSE
46775-1302S1	12 ROW 30" HARNESS, SMSE
46775-1320S1	12 Row Tower Harness, SMSE
46775-1310S1	16 ROW 7.5" HARNESS, SMSE
46775-1311S1	16 ROW 15" HARNESS, SMSE
46775-1312S1	16 ROW 30" HARNESS, SMSE
46775-1330S1	16 Row Tower harness, SMSE
46775-2041S1	Air Cart Module Harness



**Seed Manager SE 485 Module Extensions**

Part Number	Description
46775-1200S1	4 Ft. Seed Manager SE 485 Module Extension
46775-1201S1	6 Ft. Seed Manager SE 485 Module Extension
46775-1202S1	10 Ft. Seed Manager SE 485 Module Extension
46775-1203S1	15 Ft. Seed Manager SE 485 Module Extension
46775-1204S1	20 Ft. Seed Manager SE 485 Module Extension
46775-1205S1	25 Ft. Seed Manager SE 485 Module Extension
46775-1206S1	30 Ft. Seed Manager SE 485 Module Extension
46775-1207S1	40 Ft. Seed Manager SE 485 Module Extension
46775-1208S1	45 Ft. Seed Manager SE 485 Module Extension
46775-1209S1	55 Ft. Seed Manager SE 485 Module Extension

**DICKY-john Seed  
Manager®SE Modules**

12 Row- 2 Hopper Input Module  
16 Row Module  
  
Air Cart Module:  
3 Hopper Inputs  
3 Shaft RPM  
2 Fan RPM  
2 Air Pressure  
1 Ground Speed Input

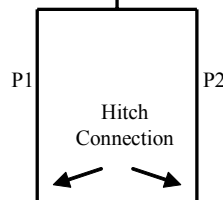
Consoles & Harnessing

**DICKEY-john Seed Manager<sup>®</sup> SE**

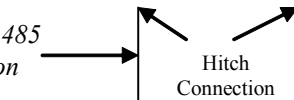
The DICKEY-john Seed Manager<sup>®</sup> SE is capable of monitoring material flow or population up to a total of 96 rows and can also monitor fan & shaft rpm, air pressure, and hopper levels. Any combination of modules can be used up to a maximum of 7 (seven) modules. Only 1 (one) Air Cart module may be used on a system and the other six would be a combination of 12 or 16.



*Console Harness  
46682-0132S1*



*Seed Manager SE 485  
Module Extension*



*Air Cart  
Module*



*Air Cart Module Harness  
46775-2040S1*



*Seed Manager SE 485  
Module Extension*

*Seed Manager SE 485  
Module Extension*



*Sensor Harness*

*Seed Manager SE 485  
Module Extension*

Planter Chute & Sensors

**John Deere 1700 Series**

Part Number	Description
45244-0971	Small Grain Curved Tube Small Hi-Rate
15125-0008	Small Tube A25925 (Standard Rate)
45244-0881A	Small Grain Curved Tube (Vacuum) Hi-Rate
45244-0931A	Small Grain Straight Tube (Vacuum) Hi-Rate
46153-0420S1	Small Tube (Vacuum)



**John Deere 7000/7100/7200 SERIES**

Part Number	Description
45244-0971	Small Grain Curved Tube Small Hi-Rate
15135-0008	Small Tube A25925
15134-2021	Large Tube A26019
15134-0071	Straight Tube
45244-0881A	Small Grain Curved Tube (Vacuum) Hi-Rate
45244-0931AS1	Small Grain Straight Tube (Vacuum) Hi- Rate
46153-0420S1	Small Tube (Vacuum)
15135-0008	Small Tube (Finger Pickup)

**\*\*Note:** Requires adapter cable when used with PM, Seed Check, and Seed Manager monitors.

**CASE IH**

Part Number	Description
46164-2230S3	400 Cyclo
46164-2230S3	500 Cyclo
46164-2230S3	92 Lister
46164-2230S3	800 Cyclo
46164-2230S3	900 Cyclo
45491-0750S1	800/900 Cyclo Air Hi-Rate
44351-2001	800Plate Planter (Beet Tube)
46776-0010S1	Case ASM Hi Rate (Sensor Only)

**AGCO White**

Part Number	Description
46172-0030S3	5100,5700
45244-1010S3	6100 Hi - Rate
46172-0400S2	6100



Planter Chute & Sensors

**Kinze**

Part Number	Description
15135-0008	Regular Rate Sensor (All Models)
45244-0971	Hi - Rate (All Models)

**MONOSEM**

Part Number	Description
45465-0271	PBC (Runner Opener) (PNU)
45465-0330S1	N G
45244-0990	N G Plus
45244-0980	N G Plus Hi - Rate
46770-0100S1	MS Vegetable (Requires Modified Shoe)
46770-0350S1	NG Plus-Meter Mounted (Use With Blank Tube)
46770-0090S1	Mecca 2000

**NODET**

Part Number	Description
15272-0021**	Pneumasem II (Mate & Lock Connector)
45352-0370S1	Planter II
45352-0360S1	Nodet Chute & Sensor (Weather Pak Connector)
45352-0350S1	Nodet Sensor Only (Weather Pak Connector)

**Stanhay**

Part Number	Description
46770-0220S1	Stanhay Dart II

**Misc. Planter Sensors**

Part Number	Description
46180-0060	Buffalo Till Plateless Plater
46170-0040S1	DEUTZ ALLIS (Allis Chalmers) 385
45244-1450S1	Small Grain Curved Tube Small Sure Rate
45244-0971	GREAT PLAINS Hi- Rate
15188-0011**	HEATH
46579-0010S3	JEANTILL PLASEM
46170-0030S1	LANDOLL
15135-0008	NEW IDEA
15135-0008	SLC
45244-0971	SLC Hi - Rate

**Sensor Adaptors**

Part Number	Description
45960-0220S2	SENSOR ADAPTER (old style to new harness)
45960-0170S1	SENSOR ADAPTER (new style to old harness)
45968-1020S1	SENSOR ADAPTER (new style to CT harness)
45968-1140	SENSOR ADAPTER (CT style to new harness)

11071-0328-200603



**\*\*Note:** Requires adapter cable when used with PM, Seed Check, and Seed Manager monitors.

Planter Monitors Parts



**Hopper Level**

Part Number	Description	Part Number	Description	Part Number	Description
46682-0720S3	Hopper Level Sensor	46686-0330S1	Seed Check External Alarm Kit	46682-0920S1	Air Pressure Sensor
46682-0711S3	Hopper Level Ext. 40 Ft.				
46682-0710S3	Hopper Level Ext. 20 Ft.				

**Replacement Tubes**

Part Number	Description
46514-0040	Small Curved Tube; Hi-Rate Sensor-Fits Deere, Kinze, Great Plains
46514-0041	Small Curved Tube; Std Sensor-Fits Deere, Kinze, Great Plains
46514-0042	Small Curved Tube; Blank Tube-Fits Deere, Kinze, Great Plains
41873-0002A	Large Tube; Std Sensor- Fits Deere
45318-0030A	Large Straight Tube; Std Sensor- Fits Deere
46153-0522	Small Curved Vacuum Tube; Hi-Rate Sensor- Fits Deere (Replaces 46153-0042A)
46153-0062A	Small Straight Vacuum Tube; Hi-Rate Sensor- Fits Deere
46153-0040A	Small Curved Vacuum Tube; Std Sensor- Fits Deere
46514-0031B	AGCO/White 5100,5700,*6100 Tube for Std. Sensor * (6100 requires tube extension below)
46496-0010	AGCO Std Sensor Tube Extension (Use with 46514-0031B on AGCO 6100)
46514-0030B	AGCO/White 6100 Tube for Hi-Rate Sensor
43348-0004	Light Shield- Fits Older Riveted Tubes & New 2 Piece Seed Tubes

**Replacement Sensors**

Part Number	Description
45244-0891AS1	Hi-Rate Sensor Only- WeatherPak Connector
45244-1280S1	Sure Rate Sensor Only - WeatherPak Connector
46170-0270S1	Std Sensor Only- WeatherPak Connector
43350-0001S1	Std Sensor Only- Mate & Lock Connector
46153-0200S1	Std Sensor Only- Cannon Sure Seal Connector
46776-0010S1	Case ASM Hi Rate Sensor

## Planter Monitor Parts

DICKEY-john Product	Ground Speed Calibration Number
CCS100 and CMS100	5730
Land Manager SE, I, II	5730
PM300, 400, 500	5730
PM3000	1950 - requires adapter cable
SC1000	1950
Seed Manager / Seed Manager SE	5730
Seed Check	5730
TSM10	5730
IntelliAg	11,460

### ISpeed Ground Speed Sensor

Part Number	Description
46783-2000	Utilizes GPS for speed. Quick and easy installation. Adapter Required for PM3000



### Raven Ground Speed Sensor

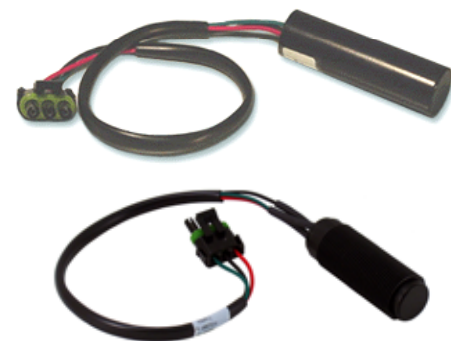
Part Number	Description
46783-2010	Utilizes GPS for speed. Designed for connection to Raven Consoles.



### Universal Speed Sensor

Part Number	Description
45910-0150	Universal Speed Sensor Kit
45910-0190	Magnet Kit (60 Magnets)
43940-0024	10 Ft. Ground Speed Sensor Extension

Universal Speed Sensor Cannot Be Used With Seed Check Console. Use Hall Effect Speed Sensor Below.



### Hall Effect Sensor

Part Number	Description
46350-0030S1	Hall Effect Sensor (Smooth)
46697-0014S1	Hall Effect Sensor (Threaded)
46350-0120	Hall Effect Sensor to Radar ext. 15.5 Ft.
20040-0089	Jam Nut for Threaded Hall Effect Sensor (2 per sensor)

### Radar Y Cables

Part Number	Description
15295-0002	RADAR 'Y' (Dj radar to 2 console)
45640-2520S3	RADAR 'Y' (Dj radar to John Deere dash and console)
45640-2530S3	RADAR 'Y' (John Deere Magnavox radar to dash and console)
45640-3030	RADAR 'Y' (Challenger AorB series Cat radar to dash and console)
45640-4360S1	RADAR 'Y' (Challenger C series Cat radar to dash and console)
45640-4440	RADAR 'Y' (Ford Genesis radar to Genesis dash and console)
45640-4670	RADAR 'Y' (Steiger & Maxum radar to dash and console)
45640-4810	RADAR 'Y' (John Deere in-cab radar convenience plug adapter)

Note: See Page 32 for a complete listing of tractor model numbers and "Y" cables

**Consoles & Harnessing**



**DICKY-john DjASMII**

Modular system.

128 row blockage monitoring capability.

Implement lift switch input.

16 row indicators with 7 segment DjASM II Module indicator.

Planting indicator.

OFF / ON / DIM-ALARM CANCEL toggle switch.

5 step LED dimming for full sunlight/ night time use.

Internal audible alarm.

Module and sensor self test.



16 Row Module

**Console & Module**

Part Number	Description
46794-2000S1	Dj ASMII Console & Harness
46794-2050S1	Dj ASMII 16 Row Input Module
46794-2052S1	Dj ASMII 15 Row / 1 Hopper Input Module

**Dj ASMII Module Harness**

Part Number	Description
46775-1300S1	12 ROW 7.5" HARNESS, Dj ASMII
46775-1301S1	12 ROW 15" HARNESS, Dj ASMII
46775-1302S1	12 ROW 30" HARNESS, Dj ASMII
46775-1320S1	12 Row Tower Harness, Dj ASMII
46775-1310S1	16 ROW 7.5" HARNESS, Dj ASMII
46775-1311S1	16 ROW 15" HARNESS, Dj ASMII
46775-1312S1	16 ROW 30" HARNESS, Dj ASMII
46775-1330S1	16 Row Tower Harness, Dj ASMII

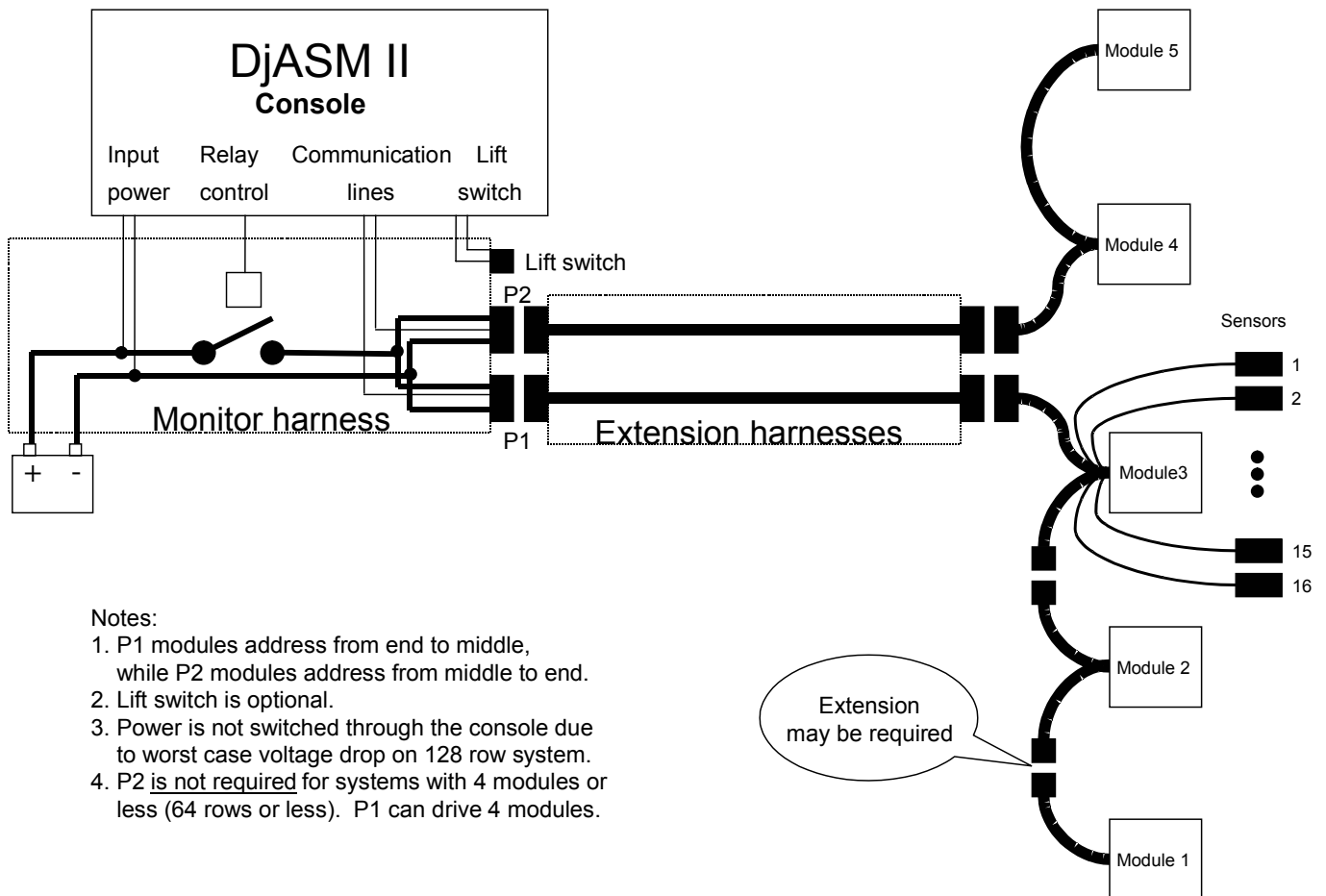
**Dj ASMII 485 Module Extensions**

Part Number	Description
46775-1200S1	4 Ft. Dj ASMII 485 Module Extension
46775-1201S1	6 Ft. Dj ASMI 485 Module Extension
46775-1202S1	10 Ft. Dj ASMI 485 Module Extension
46775-1203S1	15 Ft. Dj ASMI 485 Module Extension
46775-1204S1	20 Ft. Dj ASMI 485 Module Extension
46775-1205S1	25 Ft. Dj ASMI 485 Module Extension
46775-1206S1	30 Ft. Dj ASMI 485 Module Extension
46775-1207S1	40 Ft. Dj ASMI 485 Module Extension
46775-1208S1	45 Ft. Dj ASMI 485 Module Extension
46775-1209S1	50 Ft. Dj ASMI 485 Module Extension

Consoles & Harnessing



Dj ASMII Blockage Monitor  
System Diagram



Notes:

1. P1 modules address from end to middle, while P2 modules address from middle to end.
2. Lift switch is optional.
3. Power is not switched through the console due to worst case voltage drop on 128 row system.
4. P2 is not required for systems with 4 modules or less (64 rows or less). P1 can drive 4 modules.

Consoles & Harnessing



**DICKEY-john Dj DM100**

Monitor seed flow on up to 10 rows.

Monitor seed bin level on up to five hoppers.

No ground speed sensor required.

10 row indicators and 5 hopper level LED indicators.

OFF / ON / DIM-ALARM CANCEL toggle switch.

5 step LED dimming for full sun-light/night time use.

Internal audible alarm.

Minimum seeds per second alarm setting.

**Consoles & Miscellaneous**

Part Number	Description
467940080	DM100 Mounting Bracket
467940530	DM100 Power Harness
467940590	DM100 Cab Harness
467940105S1	DM100 Console Kit

467940105S1 DM100 console kit includes, mounting bracket, power harness and cab harness.

**Harnesses**

Part Number	Description
467940602	Harness 2R 1H
467940603	Harness 2R 2H
467940604	Harness 4R 2H
467940605	Harness 6R 3H
467940606	Harness 8R 4H
467940601	Harness 9R 3H
467940600	Harness 10R 5H

**Extensions**

Part Number	Description
458410810	Hitch Ext 6'
459680320	Hitch Ext 15'
459680321	Hitch Ext 30'

**Sensors**

Part Number	Description
46742-0350	ReconII 1.5"
46742-0360	ReconII 1.5"-2.25"
466820720S3	Hopper Level

### Air & Drill Seed Sensors



Hi Rate Drill Sensor



Recon Drill Sensor



Strap on Recon Sensor wraps around air seeder hose and fixed in position with ty wraps.

### Drill & Air Seeder Sensors

Part Number	Description
46526-0010S1	Hi-Rate Drill Sensor
46742-0010S1	Recon Drill & Air Seeder Sensor (Non-Counting)
46742-0350	Strap On Recon Sensor 1.5" strap
46742-0360	Strap On Recon Sensor 1.5" - 2.5" strap

### Sensor Tube Adapters

Part Number	Description
46526-0040	JD 750 Sensor Adapter Kit Rubber Tubes adapters for 4 sensors
46205-0860S1	Recon & Drill Sensor Adapter to 1 1/4" Tube
46205-0861	Gray Rubber Sensor Adapter- Recon or Hi Rate Drill Sensor
45007-0065N1	Sensor Tester 90

TSM 10



**DICKEY-john TSM10**

Reed-switch inputs for monitoring up to 6 rotating shafts.

Engine RPM as well as engine hours readout.

Ground speed readout.

Two additional inputs for shaft RPM.

The DICKEY-john TSM 10 Tach/Shaft Monitor is a versatile system designed for use in mobile equipment where monitoring of rotating shafts is critical to machine operation. The TSM 10 provides real-time display of current operating conditions and instantaneous alarms when pre-programmed high/low limits are exceeded.

**TSM10 Systems**

Part Number	Description
TSM10	TSM10 System Includes Console & Harnessing
TSM106	TSM106 System Includes Console, Harnessing, & 6 Reed Switch Kits

**TSM10 Parts**

Part Number	Description
46550-0010S1	TSM10 Console
46421-0860S1	Console Mounting Hardware Kit
46550-0090S1	Main Sensor Harness
46550-0080S1	20 Ft. Main Harness Extension
46550-0100S1	Battery/Ground Speed Harness
46550-0120S1	1" Reed Switch Kit
46550-0220S1	3/4" Reluctance Sensor
46682-0833S1	20 Ft. Reed Switch/Reluctance Sensor Extension

**Radar**

Part Number	Description
RVSIII	Radar Kit With Mounting Brackets
46783-1000S1	Radar III Ground Speed Sensor Only
46783-0760	Radar Mounting Plate w/hardware
45640-2100	Radar Pipe Mounting Bracket
43940-0024	10 Ft. Ground Speed Sensor Extension
46787-0010S1	4 to 1 Radar Signal Adapter



Part Number	Description
46152-0210AS1	Single Position Shaft Monitor



Seed Simulator



Part Number	Description
46790-1000S1	Seed Simulator

The DICKEY-john Seed Simulator provides outputs that simulate the seed sensor and radar ground speed signals that exist on the planter and tractor for up to 36 rows. This unit can be used to demonstrate the functionality of most DICKEY-john planter monitors such as, PM100, 300, 400, 500, 1000 and 3000 along with the Seed Manager SE and ASM II.

Select an adapter cable to connect to the planter monitor of choice. The Seed Simulator also checks the planter monitors +8 volt supply to the seed sensors, and +12 volt supply to radar. In addition the unit will simulate failure of one row or all rows, along with two seeding rates for corn and two seeding rates for soybeans.



Part Number	Description
45007-0065	Seed Tester 90

The DICKEY-john Seed Tester 90 accurately verifies sensor operation and is easy to use. The Seed Tester 90 is battery operated and requires no external power source.

Seed Simulator



PM100 Adapter



PM300 Adapter



PM400 Adapter



Simulator Adapter ASMII /  
Seed Manger SE



PM500 Adapter



Console Adapter ASMII / Seed  
Manger SE

Part Number	Description
46790-1000S1	Seed Simulator
46790-1010	PM100 Adapter
46790-1020	PM300 Adapter
46790-1030	PM400 Adapter
46790-1040	PM500 Adapter
46790-1050	Console Adapter ASM II / Seed Manager SE
FG051-0053-001	Cable: Controller to SLXg3, 10FT
46790-1060	Simulator Adapter ASM II / Seed Manager SE



Grain Loss Monitors - Service Parts Only



The GLM 200 is no longer available as a complete system for installation on a combine.

Following is a list of service parts still available.

**GLM200 Service**

Part Numbers	Description
441670001	Grain Loss Sensor Pads
438450019	Material Harness/Self Propelled Combine
438450022	Ground Speed Cable
438450033	Battery Cable
154400001	Ground Speed Sensor
108690001	Ground Speed Magnet Assemblies
108690002	Ground Speed Magnet Assemblies
108690003	Ground Speed Magnet Assemblies
108690004	Ground Speed Magnet Assemblies
108690005	Ground Speed Magnet Assemblies
108690006	Ground Speed Magnet Assemblies
108690007	Ground Speed Magnet Assemblies
108690008	Ground Speed Magnet Assemblies
108690022	Ground Speed Magnet Assemblies
108690023	Ground Speed Magnet Assemblies
108690024	Ground Speed Magnet Assemblies
108690019	Ground Speed Magnet Assemblies
108690020	Ground Speed Magnet Assemblies
108690021	Ground Speed Magnet Assemblies



Portable Moisture Testers



**Testers**

Part Number	Description
46789-0010S1	M-3G Moisture Tester (3 Grain)
46789-0502S1	M-20P Moisture Tester (20 Grain)

**Specifications:**

Corn (9-31%)  
Soybeans 8-22%  
Wheat 8-20%

- \* **Fill Technique:** Scoop or fast fill from auger
- \* **Repeatability:** +/- .5%  
Depending on grain (normal stored grain)
- \* **Grain Temperature Compensation:** Automatic
- \* **Resolution:** .1% moisture
- \* **Display:** Graphic LCD
- \* **Power:** One 9V alkaline battery
- \* **Warranty:** One Year
- \* **Weight:** 1 lb. 6 oz.
- \* **Communications:** USB port (type B connector)

Calibrations available at [www.dickey-john.com](http://www.dickey-john.com)

M-3G	M-20P
Corn	Corn
Soybeans	Milo
Wheat	Wheat
	Soybeans
	Barley 6 Row
	Barley 2 Row
	Sunflowers
	Peas
	Rice
	Durum
	Tritical
	Rye
	English Ray Grass
	Horsebean
	Dactyle
	Rape
	Oats
	Lupine
	Peanut

Portable Moisture



**Testers**

Part Number	Description
46233-1230S1	Harvest Hand Moisture Tester
46233-1223S1	Multi-Grain Moisture Tester

**Accessories**

Part Number	Description
46233-1300S1	50 Gram Accessory Weight
46233-1310S1	100 Gram Accessory Weight
46233-1060	Pouring Cup

**Specifications**

Power: 4 AA alkaline batteries  
 Operating Temperature: 32°F to 104°F (0°C to 40°C)  
 Repeatability: ±0.5% in normal moisture range for stored grain.  
 Bias Adjustment: May be independently adjusted for each grain.  
 Warranty: One Year  
 Display: Digital LCD  
 Weighs: Automatic  
 Temperature Correction: Automatic

Harvest Hand	Multi Grain
Corn	Barley
Soybeans	Corn
Wheat	Hard Wheat
Milo	Horsebeans
Oats	Oats
Barley	Peas
Sunflowers	Rapeseed
Canola	Rice
Rice	Rye
Popcorn	Soybeans
Millet	Soft Wheat
Rye	Sunflowers

Grain Moisture Testers



Part Number	Description
GAC500XT	Grain Moisture Tester

**DICKEY-john GAC500XT**

- Sixteen grain calibration memory
- Automatic moisture and temperature reading
- Approximate test weight reading
- Updateable calibrations



Part Number	Description
GAC2100Agri	Grain Moisture Tester

**DICKEY-john GAC2100 Agri**

- Fully automatic loading & unloading
- Eight grain calibration memory
- Automatic temperature correction
- Automatic moisture compensation

Hay Moisture Parts



DJF 2000

**DJF-2000 Hay Moisture Tester**

- Averages up to 100 accumulated readings.
- Displays average and highest of accumulated readings.
- 6% to 40% moisture range for alfalfa and hay.
- Digital readout.
- Built-in calibration check.
- Temperature-stable microcontroller circuit.
- Ergonomic case design.
- Includes one 9 volt battery.
- One year warranty.

**Hay Moisture Tester**

Part Number	Description
DJF2000-1235	Includes DJF2000 and 467912060 10" Probe



DJFX 2000

**DJFX-2000 Hay Moisture Tester**

- Takes two readings every second.
- Displays average and highest of eight accumulated readings.
- Readings updated every 8 seconds.
- Backlit display.
- 6% to 40% moisture range for alfalfa hay.
- Digital readout.
- Built-in calibration check.
- Temperature-stable microcontroller circuit.
- Ergonomic case design.
- Includes one 9 volt battery.
- One year warranty.

**Hay Moisture Tester**

Part Number	Description
DJFX2000	DJFX2000 Hay tester

## Hay Moisture Parts



Part Number	Description
DJF2000	Hay Moisture Tester without Probe
DJFX2000	On the go Hay Moisture Tester without Sensor



Part Number	Description
DJFX2000-1986	Includes DJFX2000 & 467912130 Bale Sensor



Part Number	Description
DJF2000-PKG	Includes DJF2000, 467912040 Handle, 467912070 10" Prod, 467912110 Short Pin Prod, 467912160 Carrying Case



Part Number	Description
DJFX2000-PKG	Includes DJFX2000, 467912040 Handle, 467912070 10" Prod, 467912110 Short Pin Prod, 467912130 Bale Sensor, 467912160 Carrying Case, 46791-2230 Power Adapter



## Hay Moisture Parts



For use with the DJ F2000 or DJFX200

Part Number	Description
467912060	10" Prod for baled Hay-connects directly to tester
467912090	18" Prod for baled hay-connects directly to tester



For use with the Hay Handle

Part Number	Description
467912100	36" Prod for baled Hay-requires 467912040 Handle
467912070	10" Prod for baled Hay-requires 467912040 Handle
467912080	18" Prod for baled Hay-requires 467912040 Handle



Used for testing wind rows, requires Hay Handle

Part Number	Description
467912110	Short pin prod



Part Number	Description
467912150	Split Baler Sensor (for Freeman Bales)



For use with 10", 18", and 36" Prod.

Part Number	Description
467912120	Handle Hay



For on the go accumulative readings.

Part Number	Description
467912130	Bale Sensor

Hay Moisture Parts



Part Number	Description
467912160	Carrying Case for Hay Tester



Part Number	Description
467912140	Extension for 467912130 Bale Sensor



Part Number	Description
467912170	Calibration Standard (16% & 22%)

**Part Number Description**

DJC2000-PKG Cotton Tester with Cotton Ball Cup and Case



DJC2000-PKG

**The Dj C2000-PKG offers the following features:**

- Designed to check the moisture content in lint cotton and seed cotton.
- Resistance technology recognized around the world as the most accurate method for measuring moisture.
- Averages up to 100 accumulated readings.
- 4-16% moisture range on lint cotton.
- 6-20% moisture range on seed cotton.
- Digital readout.
- Includes (1) 9-volt battery.
- Proven microcontroller circuit.
- One year warranty.

Cotton Moisture Parts



**Part Number Description**

467912020 For Fibers on Cones & Skeins



**Part Number Description**

467912010 Probe for Baled Fibers



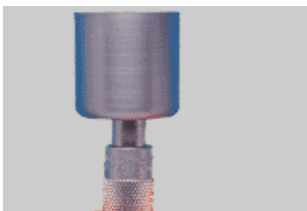
**Part Number Description**

467912120 Handle Hay



**Part Number Description**

467912050 For Modules 36" T-Handle



**Part Number Description**

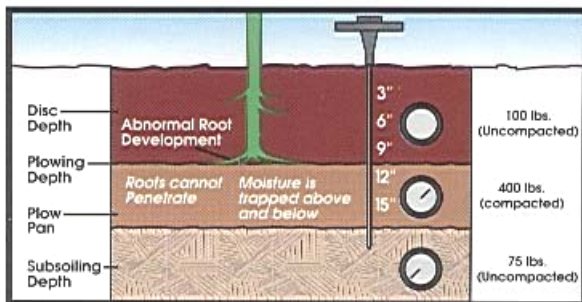
467912000 Cotton Ball Cup



**Part Number Description**

DJC2000 Cotton Tester with Cotton Ball Cup and Case

Soil Compaction Tester



Typical Compaction Situation

**Soil Compaction**

Part Number	Description
15585-0003AS1	Soil Compaction Tester
46347-0040	1/2" Replacement Tip
46347-0010	3/4' Replacement Tip

The DICKEY-john Soil Compaction Tester is a simple, easy to use management tool that can help you increase yields and decrease costs. The Soil Compaction tester can give you quick answers to the questions you need to ask about your tillage program and your field conditions. Is your soil compacted? How severe and how deep is the compaction layer? How deep do you need to till? How deep can your roots grow? Is soil compaction costing you?

**Features of the Soil Compaction Tester:**

Rugged, molded housing and handle.

Easy-to-read color coded stainless steel dial, liquid filled to reduce shock.

Stainless steel rod with marks every 3 inches to indicate depth.

Guidance Systems



User definable lightbar display-  
You decide the functions you  
want to see  
Guidance- Straight, Contour,  
Boundary, or Navigation to a  
saved point  
Simple to use and program  
Memory card & Software for  
logging field maps and applied  
areas (optional)

**Guidance Systems**

Part Number	Description
FG1	FieldGuide with WAAS Receiver
FG2	FieldGuide with WAAS & Beacon Receiver
FG3	FieldGuide with WAAS & Omnistar Receiver
FG4	FieldGuide with WAAS, Omnistar, & Beacon
FG5	FieldGuide (no GPS)
FGSWKIT	FieldGuide mapping software kit, card reader, 16MB SD card

DICKEY-john's new FieldGuide™ provides the simple answer to your complex decision of choosing a guidance system. It's quick and easy to install, and with FieldGuide's™ Start-up help mode, it steps you through selecting an initial guidance pattern, entering a swath width, and beginning a job. This means you'll be hitting the field sooner, saving time & money. In addition, at any time during your job, you can quickly switch between any of the guidance patterns.

The flexibility of FieldGuide™ also allows you to use an existing GPS receiver from your yield monitor or other GPS system, and provides a platform for future upgrades and enhancements.

## Guidance Systems



Field Guide System



AgIQ



SLXg3

### System Components

Part Number	Description
FG806-2009-00A	FieldGuide Light Bar
FG806-3022-00A	FieldGuide Controller

### GPS Kits

Part Number	Description
AGIQ	WAAS Only Receiver
Mini Max	WAAS & Beacon Receiver
SLXG3	WAAS & Omnistar Receiver
SLXG3 COMBO	WAAS, Beacon, & Omnistar

### Receivers

Part Number	Description
FG802-1008-06A	SLXg3 Receiver
FG803-0024-08A	SLXg3 Combo Receiver (w/ beacon)
FG803-0027-01A	Mini MAX Receiver
FG804-0010-06A	AgIQ receiver/antenna (w/ mounting accessories)

### Antenna

Part Number	Description
FG804-0008-07A	SLXg3 Antenna
FG804-3003-05A	Mini MAX Antenna
FG804-3016-04A	SLXg3 Combo Antenna (w/ beacon)

### Power Cables

Part Number	Description
FG054-0034-000	Cable: Power To Cig Lighter, 3'
FG054-0036-000	Cable: Power To Male Spades, 3'
FG054-0037-000	Cable: Power To AC Adapter
FG054-0038-000	Cable: Power Cable 3' Extension
FG054-0043-001	Cable: Power to terminal connectors, 12 ft
FG054-0009-000	Cable: Mini MAX Pwr, 3M

### Data Cables

Part Number	Description
FG051-0009-000	Cable: Mini MAX Dual Data Ports, DB9's, 3M
FG051-0045-001	Cable: AgIQ standard power/data DB9, 16'
FG051-0058-000	Cable: AgIQ Power/Dual Port Data DB9
FG051-0073-000	Cable: SLX to Power/Dual Data Ports, DB9's
FG050-0011-022	Cable: Mini MAX Data, DB9's, 3M

## Guidance Systems

### Communication Cables

Part Number	Description
FG051-0053-001	Cable: Controller to SLXg3, 10FT
FG051-0056-000	Cable: Controller to AgIQ
FG051-0089-000	Cable: AgIQ extension cable, 20' (Deutsch to Deutsch)
FG051-0090-000	Cable: Generic GPS, FieldGuide to DB9 (M), 12"
FG051-0105-000	Cable: Controller to Mini MAX, Data/Pwr
FG054-0040-001	Cable: Controller to Power and Spray wires, 7 ft
FG054-0042-003	Cable: Controller to Light Bar, 25 ft
FG054-0052-000	Cable: Auxiliary to stripped wires

### Antenna Cables

Part Number	Description
FG050-0026-001	Cable: SLXg3 & SLXg3 Combo Antenna TNC to N, 15'
FG052-0005-000	Cable: MiniMAX Antenna TNC to TNC, 15'

### Accessories

Part Number	Description
FG710-0020-000	Receiver Mounting Kit
FG601-0003-005	Round Metal (Zinc) Disc, 3.4"
FG683-0001-001	Foam Adhesive Pad, 3.3"
FG710-0004-001	Antenna Mounting Kit (Antenna Base + 725-0007)
FG604-0003-001	Controller RAM mount
FG681-1012-001	AgIQ Screw Plug
FG710-0010-000	Relay Kit for Spray Wires
FG725-0007-014	Antenna Magnetic Mount

### Software & Data Transfer

Part Number	Description
FG710-0021-002	MapStar Software and Manual
FG132-0114-000	SLXMon Software, Diskette
FG750-0006-000	MultiMedia Card Reader (USB), SanDisk
FG750-1024-000	MultiMedia Card, 16MB, SanDisk

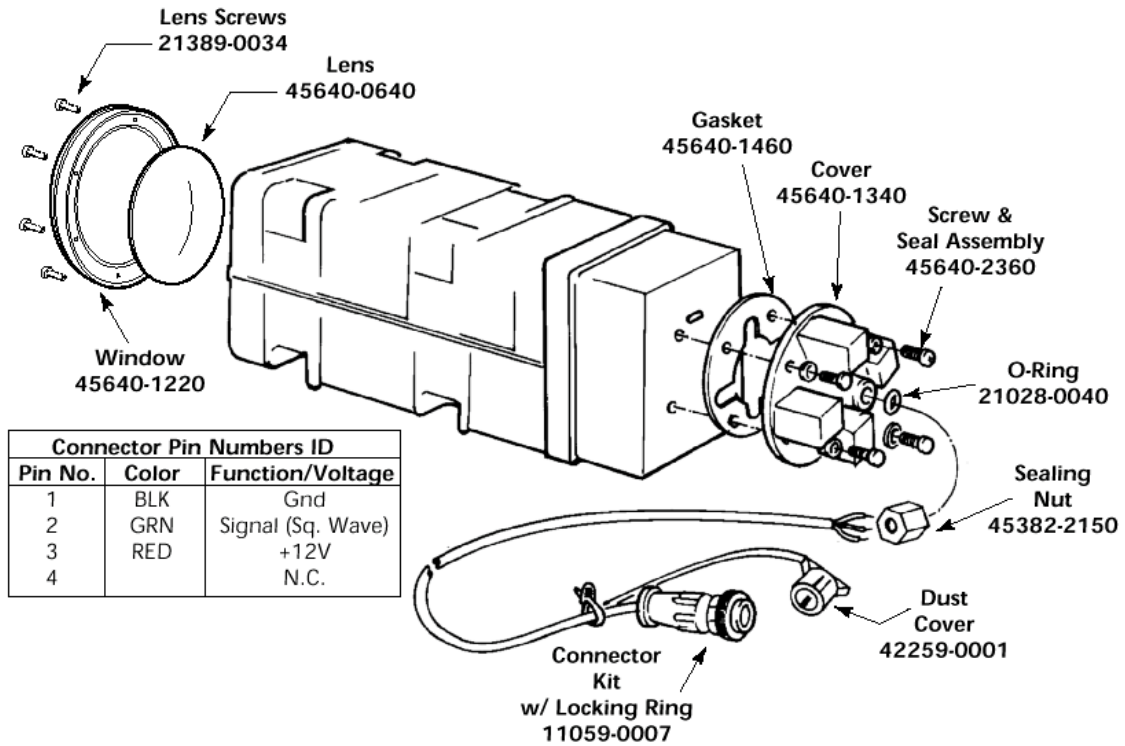
### Manuals

Part Number	Description
FG875-0042-000	SLXg3 Receiver Manual
FG875-0067-000	AgIQ Owner's Manual
FG875-0121-000	FieldGuide Operators Manual
FG875-0122-000	FieldGuide Quick Reference Guide
FG875-0124-000	Mini MAX Reference Manual

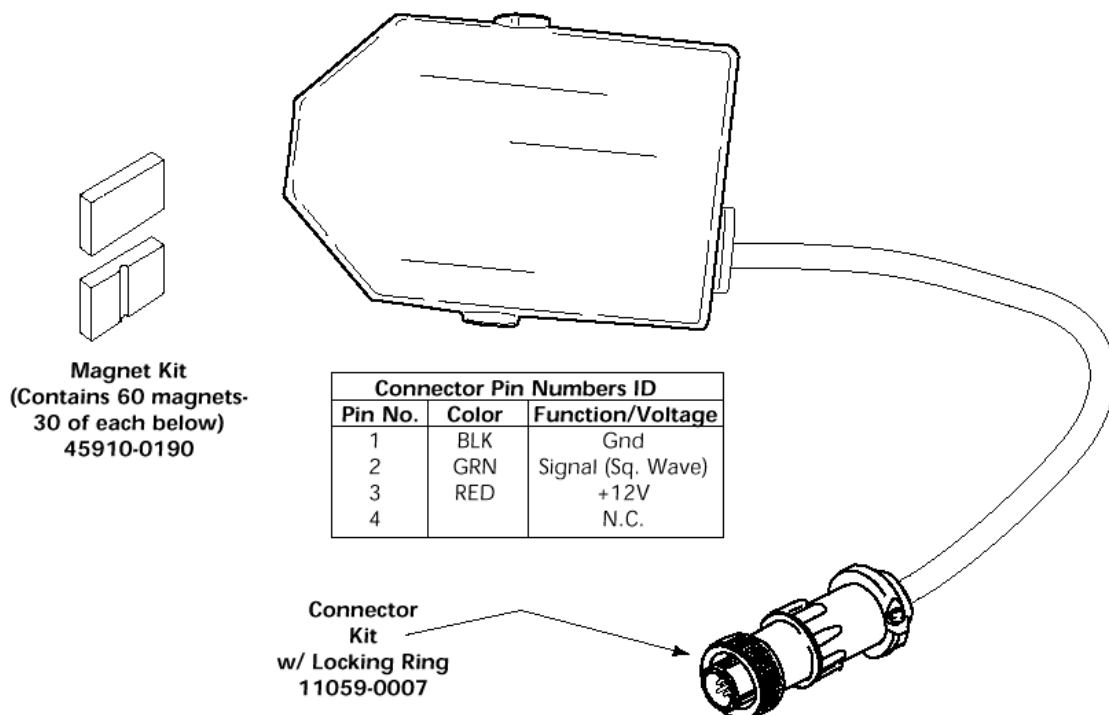


Control System Parts: Exploded Views

**Figure 1. Radar II Ground Speed Sensor (45640-1911)**

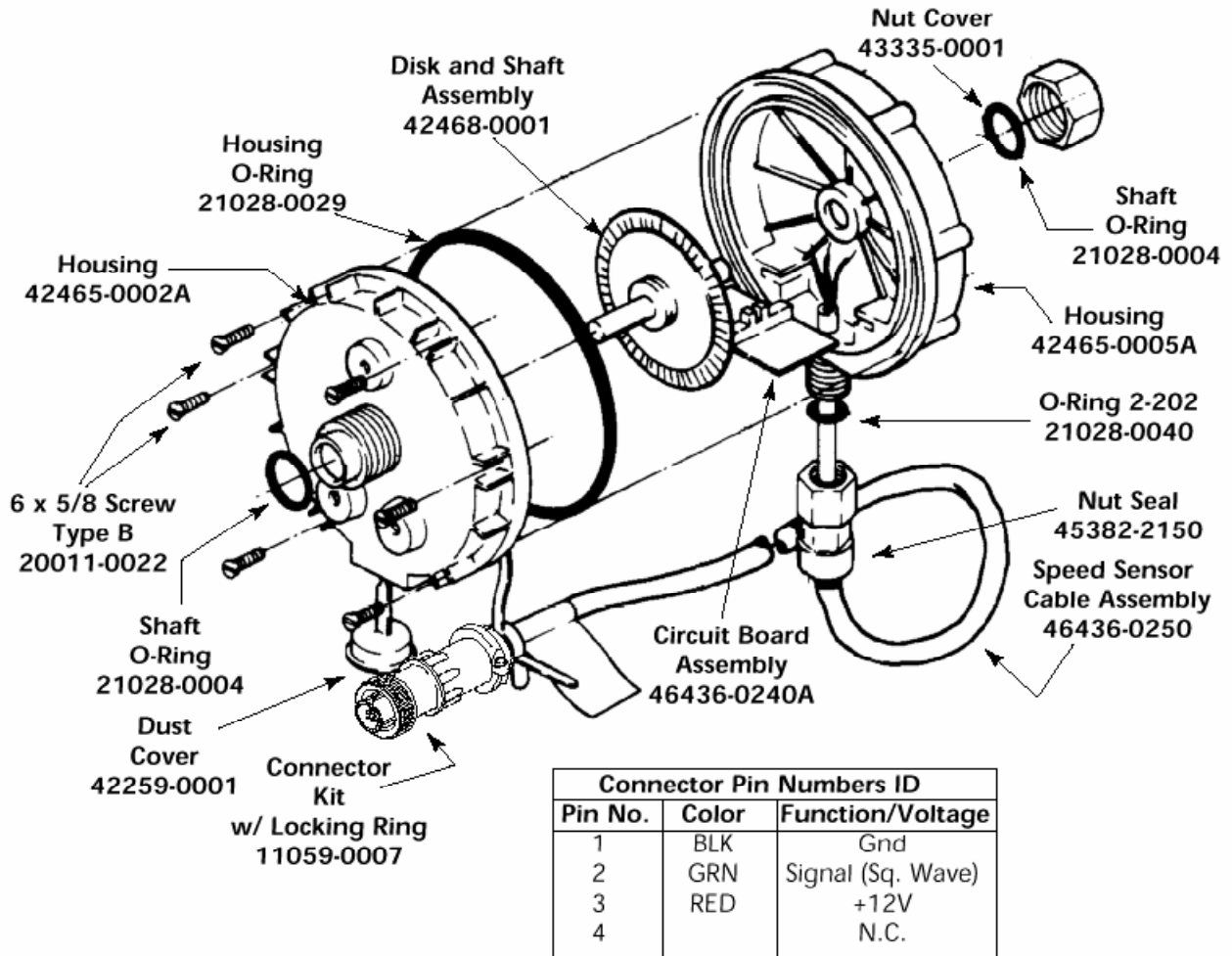


**Figure 2. Universal Speed Sensor (45910-0150)**



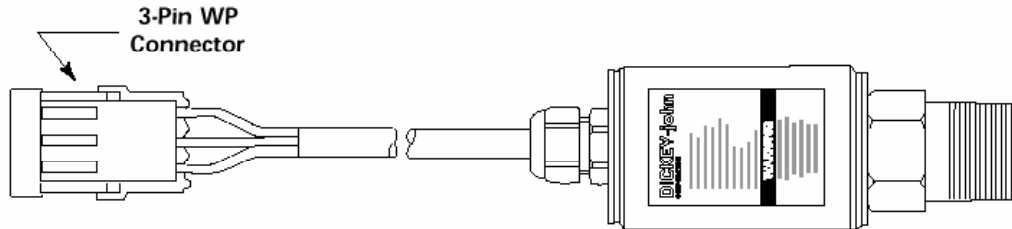
Control System Parts: Exploded Views

**Figure 3. Vehicle Ground Speed Sensor (46436-0230S1)**



Control System Parts: Exploded Views

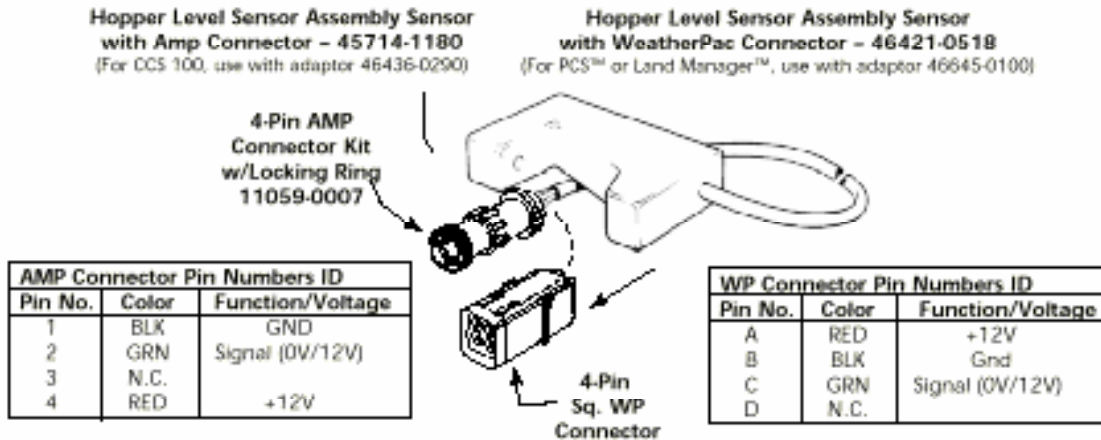
**Figure 4. Pressure Transducer (For part number, see table below)**



Connector Pin Numbers ID		
Pin No.	Color	Function/Voltage
A	RED	+12V
B	BLK	Gnd
C	GRN	(Pq) Signal (0-5)

Pressure Transducer Part Numbers		
System	PSI	Part No.
LM & CCS 100	0-100	46570-0010
LM & SC 1000	0-60	46570-0030
LM & CCS 100	0-650	46570-0020
LM & SC 1000	0-225	46570-0050

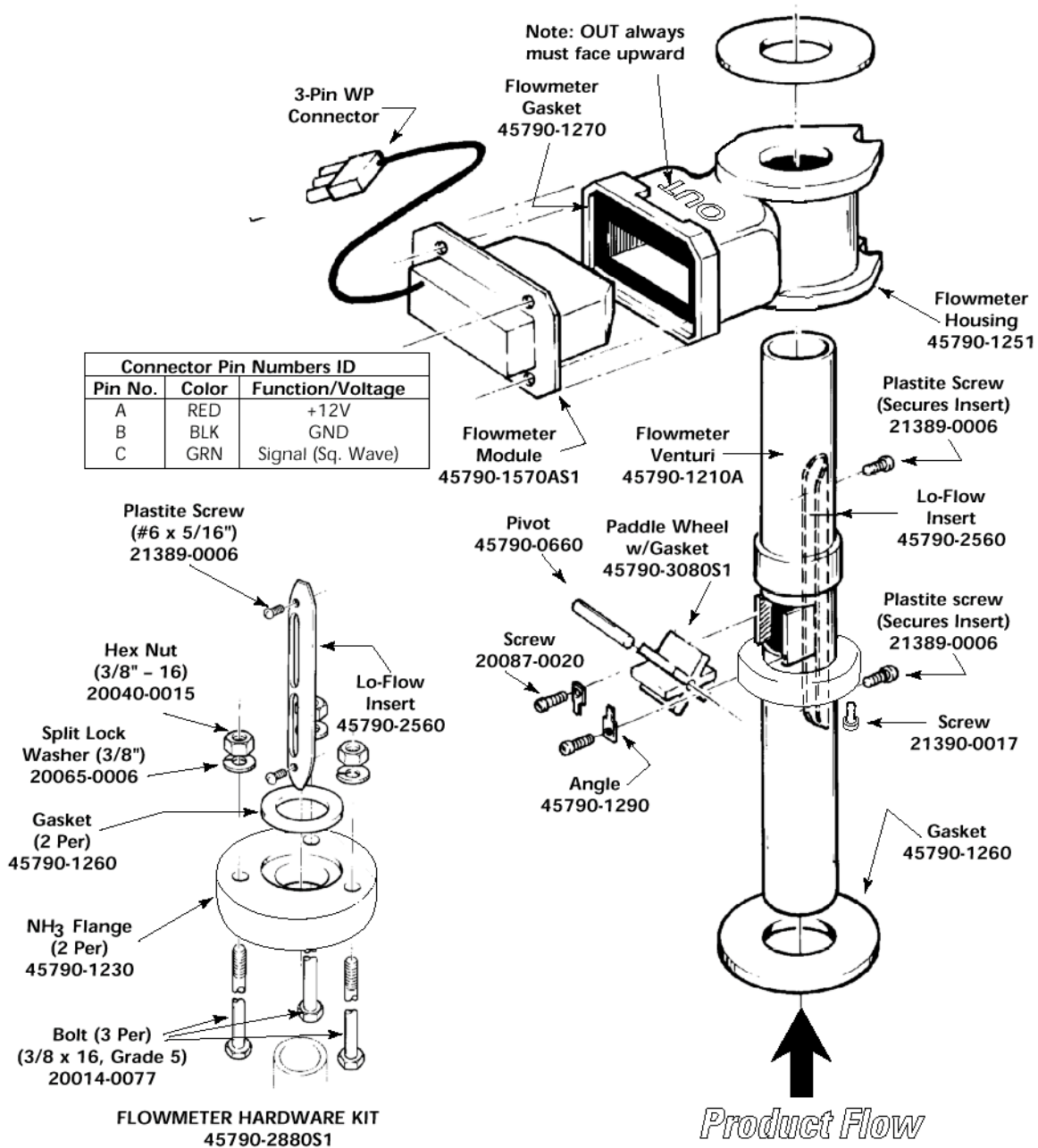
**Figure 7. Hopper Level Sensor (For part number, see below)**





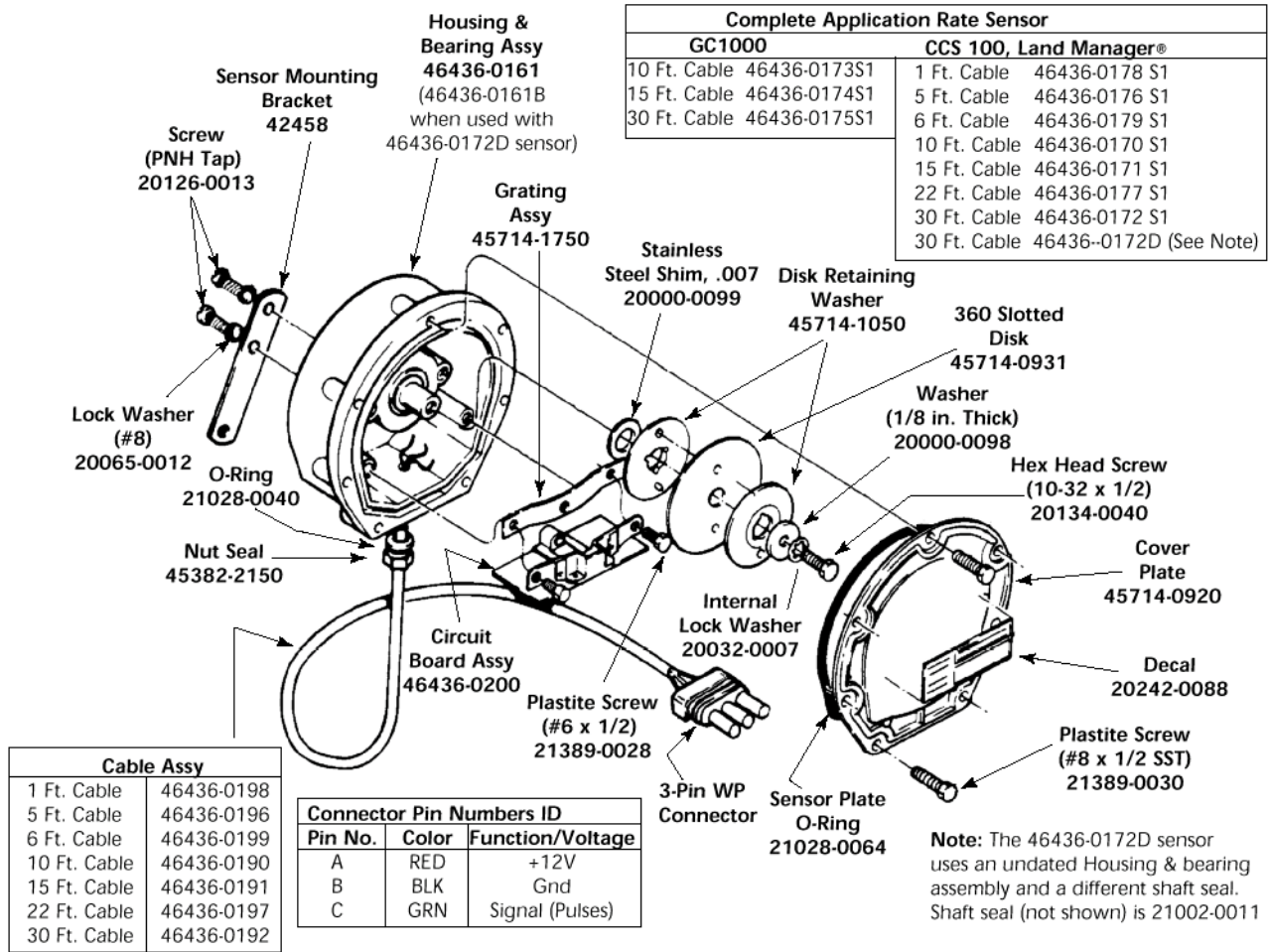
Control System Parts: Exploded Views

**Figure 5. Liquid Flowmeter (Paddle Wheel) (45790-1610S1)**

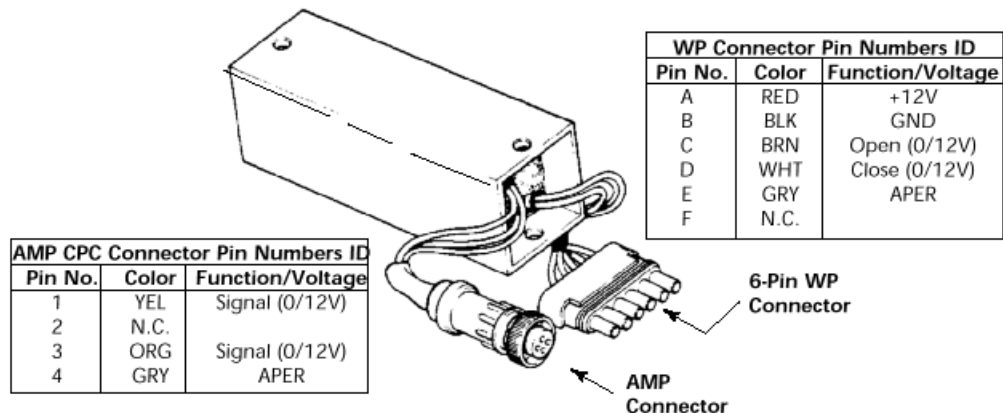


Control System Parts: Exploded Views

**Figure 8. Application Rate Sensor (For part number, see table below)**

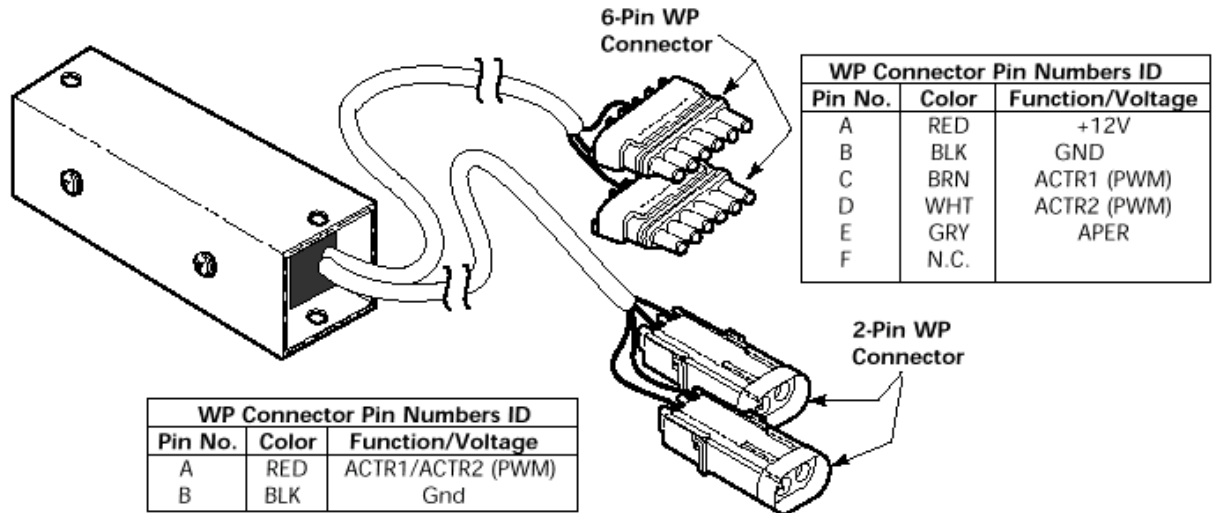


**Figure 11. Hydraulic Valve Driver (46436-0030A)**

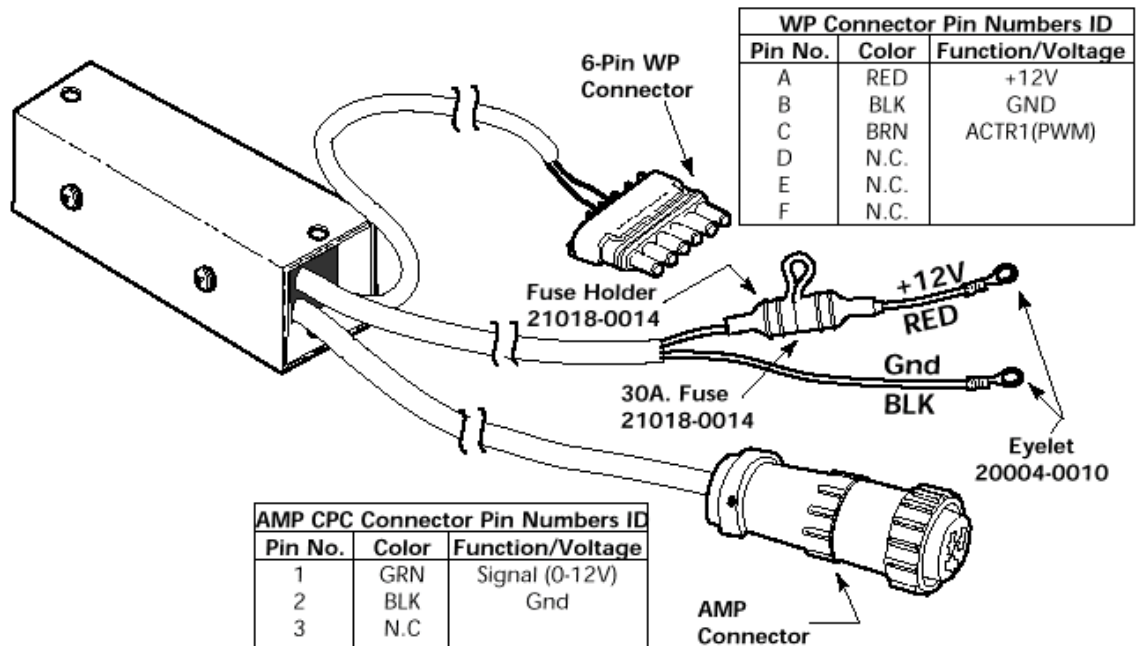


Control System Parts: Exploded Views

**Figure 9. Pulse Width Valve Driver (46421-0431S1)**

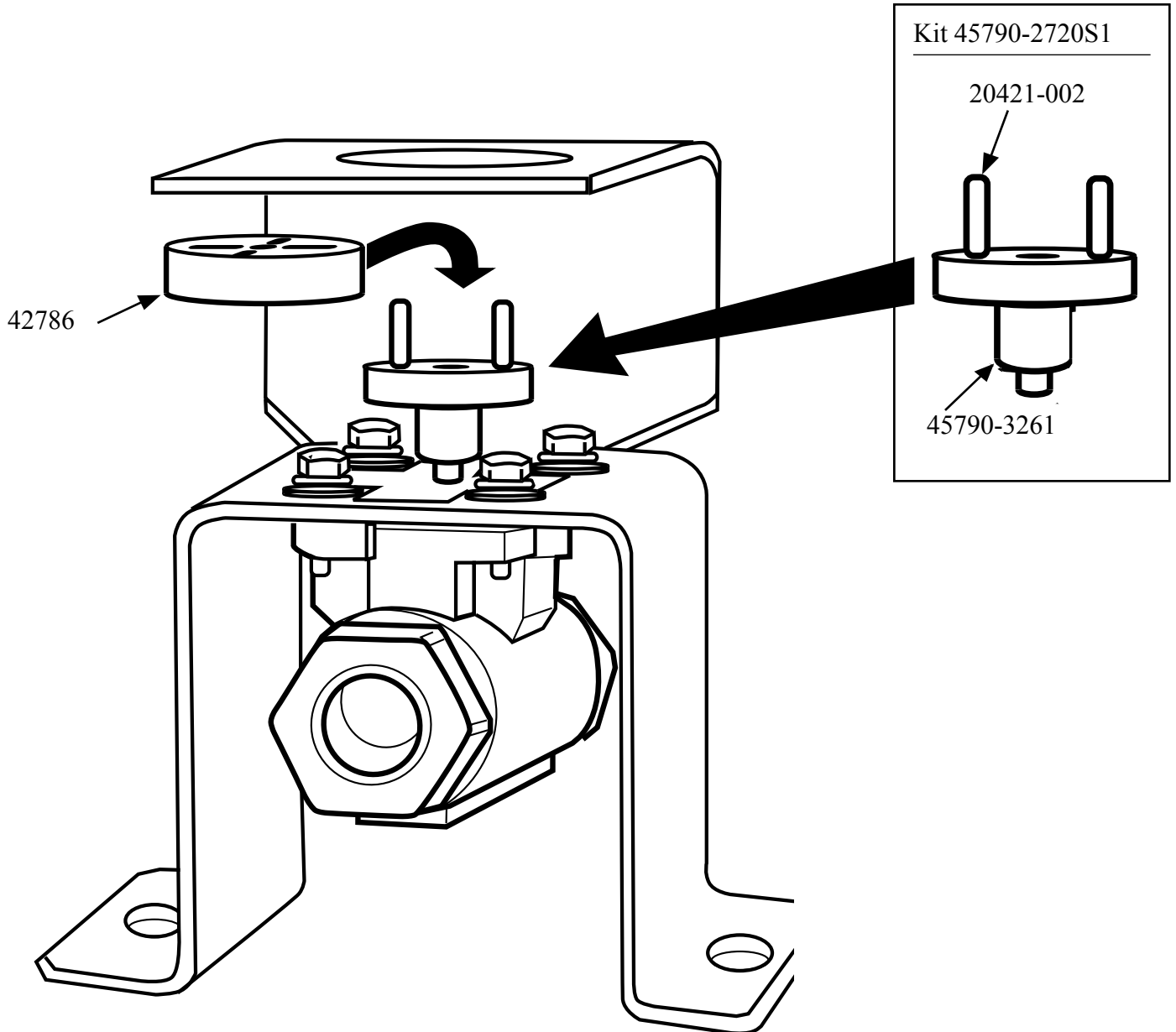


**Figure 10. Linear Valve Driver (46490-0010S1)**



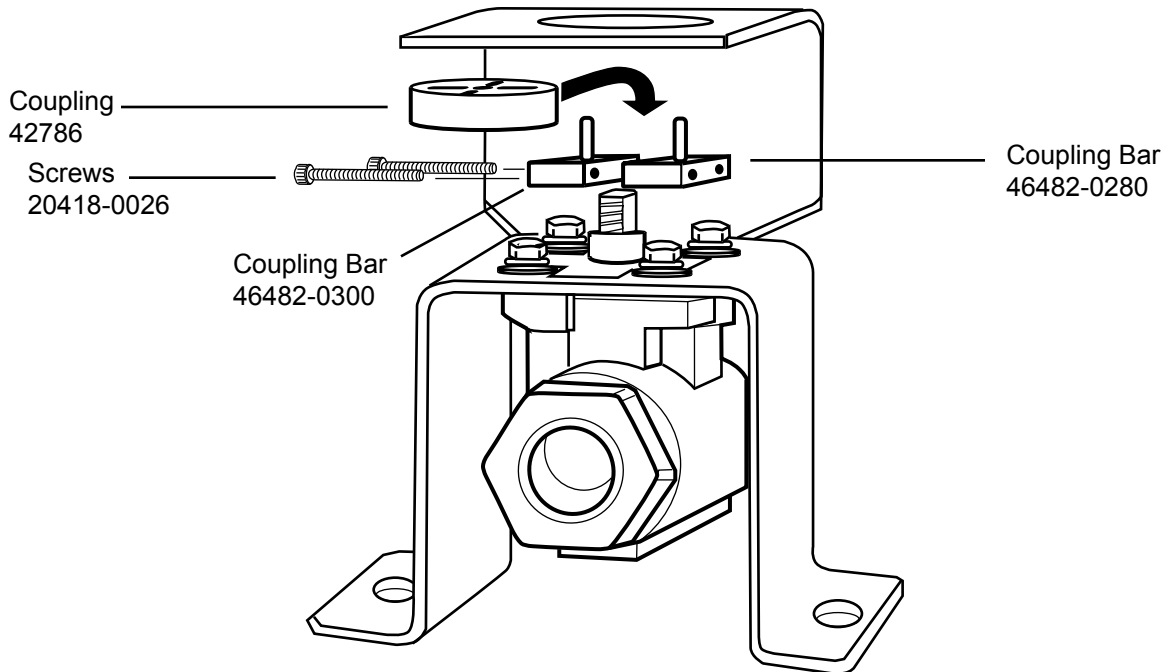
Control System Parts: Exploded Views

**Figure 12-13. 3/8, 1/2, and 3/4 inch Ball Valves**

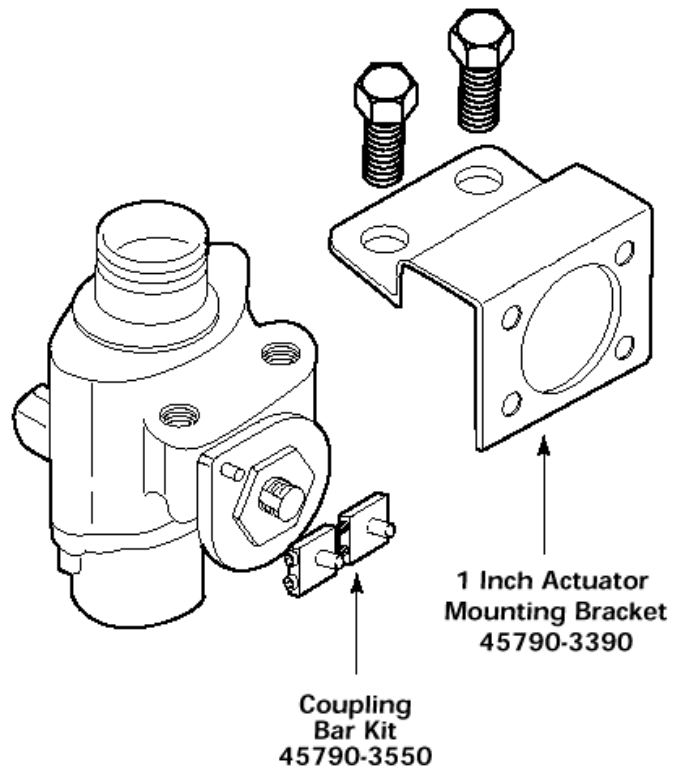


Control System Parts: Exploded Views

**Figure 14. 1 inch Ball Valve 46482-0210S1**



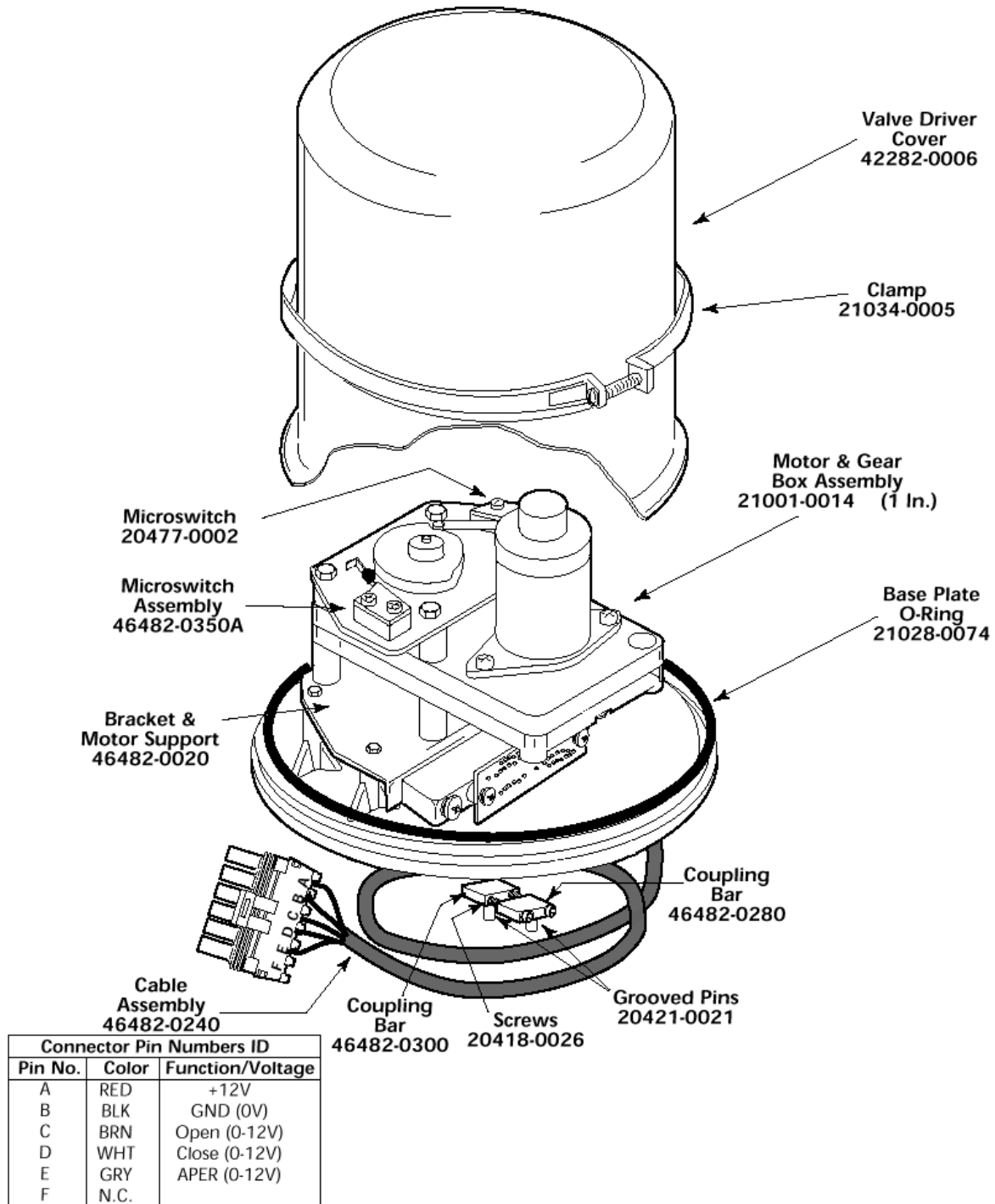
**Figure 15. 1.25 In. Ball Valve (45790-3380)**





Control System Parts: Exploded Views

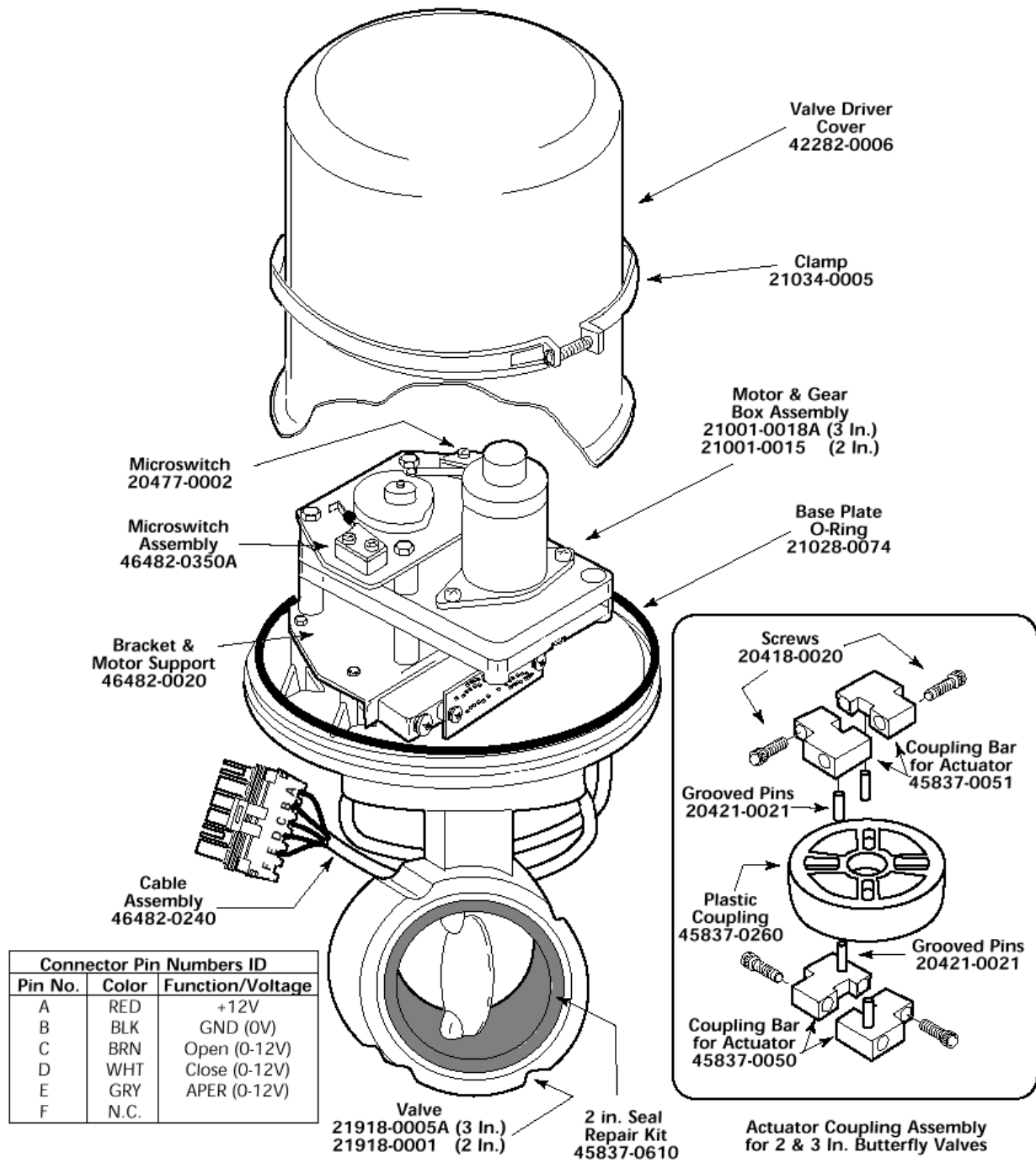
**Figure 16. 1 In. Actuator Valve (46482-0200S1)**





Control System Parts: Exploded Views

**Figure 17. Butterfly Valve with Actuator - 46482-0170S1 (2 inch valve)  
& 46580-0010S1 (3 Inch valve)**



Control System Parts: Exploded Views

**Figure 18. Hydraulic Valve (15557-xxxx - See table below)**

To make the following adjustments, place the system in operation. Both adjustments are located under the center plate.

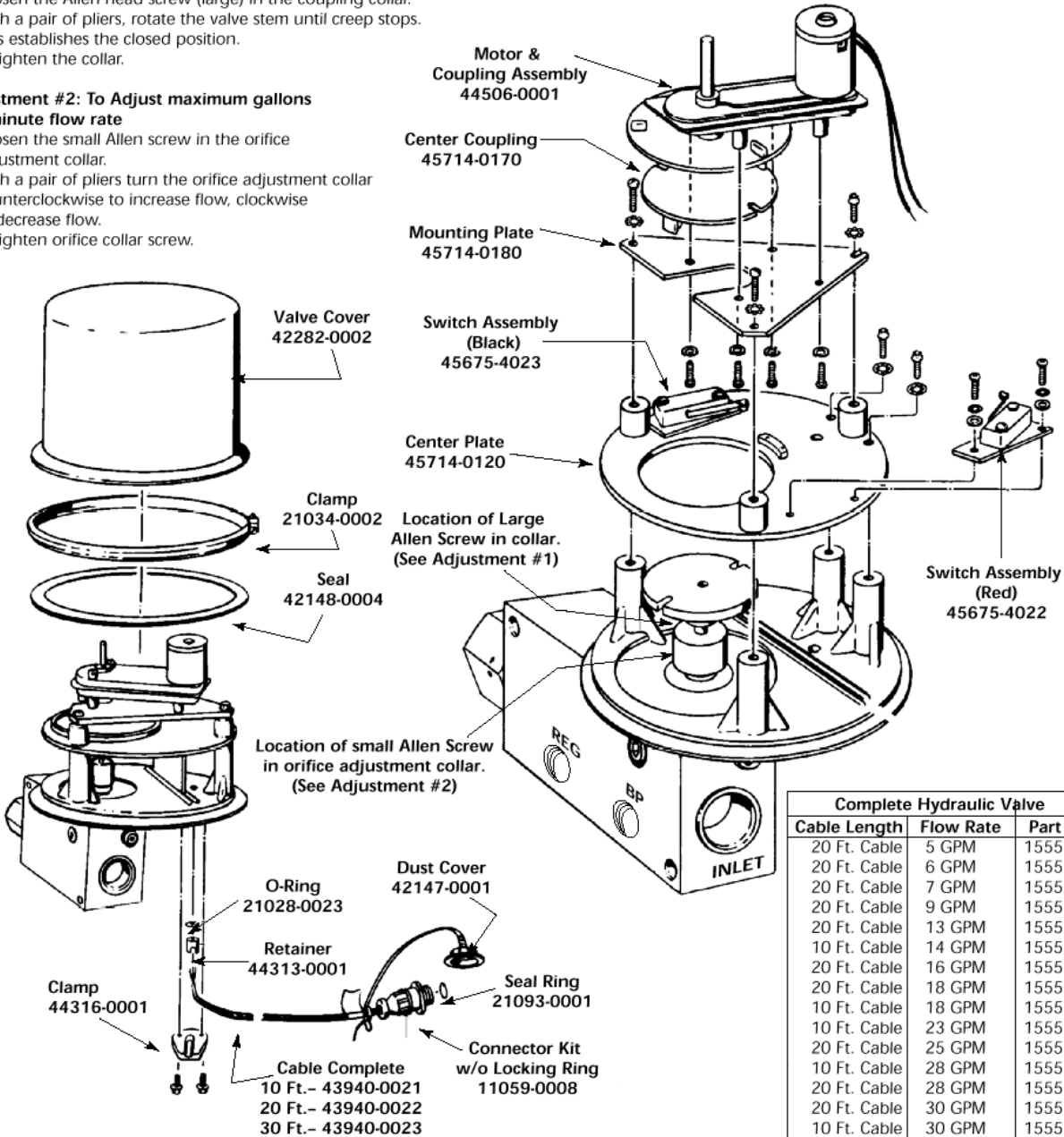
**CAUTION:** Be careful not to over speed Hydraulic motor.

**Adjustment #1: To eliminate creep**

1. Loosen the Allen head screw (large) in the coupling collar.
2. With a pair of pliers, rotate the valve stem until creep stops. This establishes the closed position.
3. Retighten the collar.

**Adjustment #2: To Adjust maximum gallons per minute flow rate**

1. Loosen the small Allen screw in the orifice adjustment collar.
2. With a pair of pliers turn the orifice adjustment collar counterclockwise to increase flow, clockwise to decrease flow.
3. Retighten orifice collar screw.

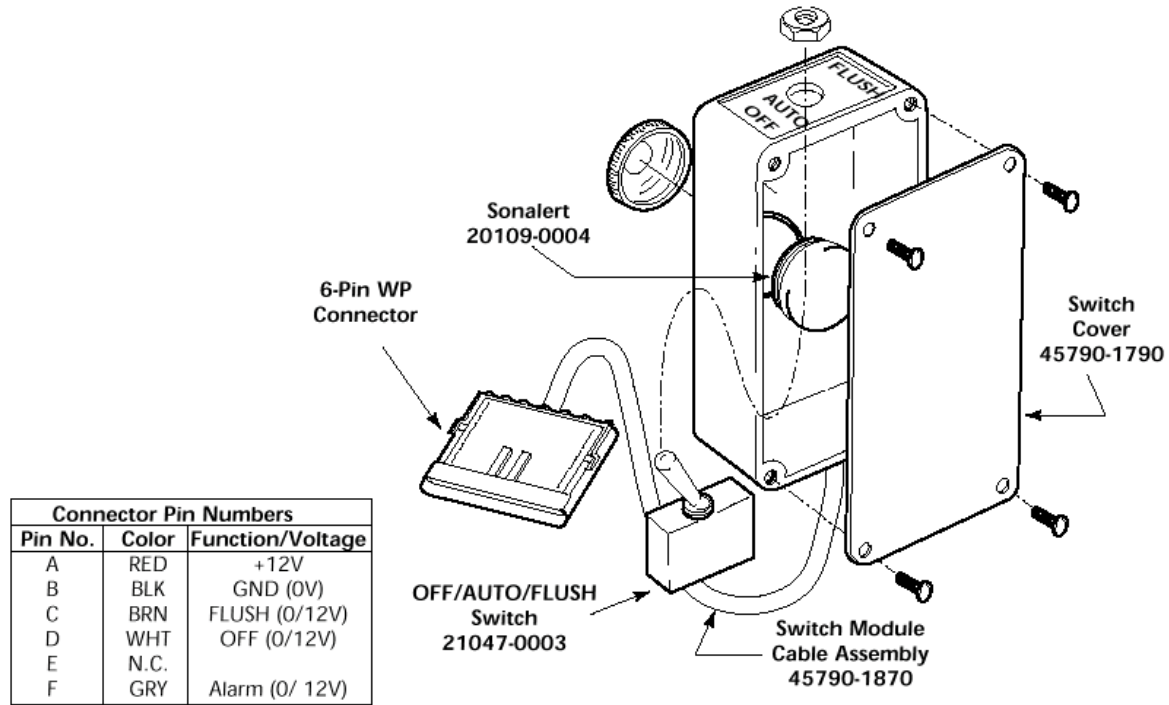


Complete Hydraulic Valve		
Cable Length	Flow Rate	Part No.
20 Ft. Cable	5 GPM	15557-0006
20 Ft. Cable	6 GPM	15557-0014
20 Ft. Cable	7 GPM	15557-0010
20 Ft. Cable	9 GPM	15557-0003
20 Ft. Cable	13 GPM	15557-0011
10 Ft. Cable	14 GPM	15557-0012
20 Ft. Cable	16 GPM	15557-0013
20 Ft. Cable	18 GPM	15557-0004
10 Ft. Cable	18 GPM	15557-0008
10 Ft. Cable	23 GPM	15557-0002
20 Ft. Cable	25 GPM	15557-0015
10 Ft. Cable	28 GPM	15557-0005
20 Ft. Cable	28 GPM	15557-0009
20 Ft. Cable	30 GPM	15557-0001
10 Ft. Cable	30 GPM	15557-0007
20 Ft. Cable	20 GPM	15557-0016
30 Ft. Cable	30 GPM	15557-0017
11 Ft. Cable	10 GPM	15557-0018
14 Ft. Cable	20 GPM	15557-0019
20 Ft. Cable	58 GPM	15557-0022

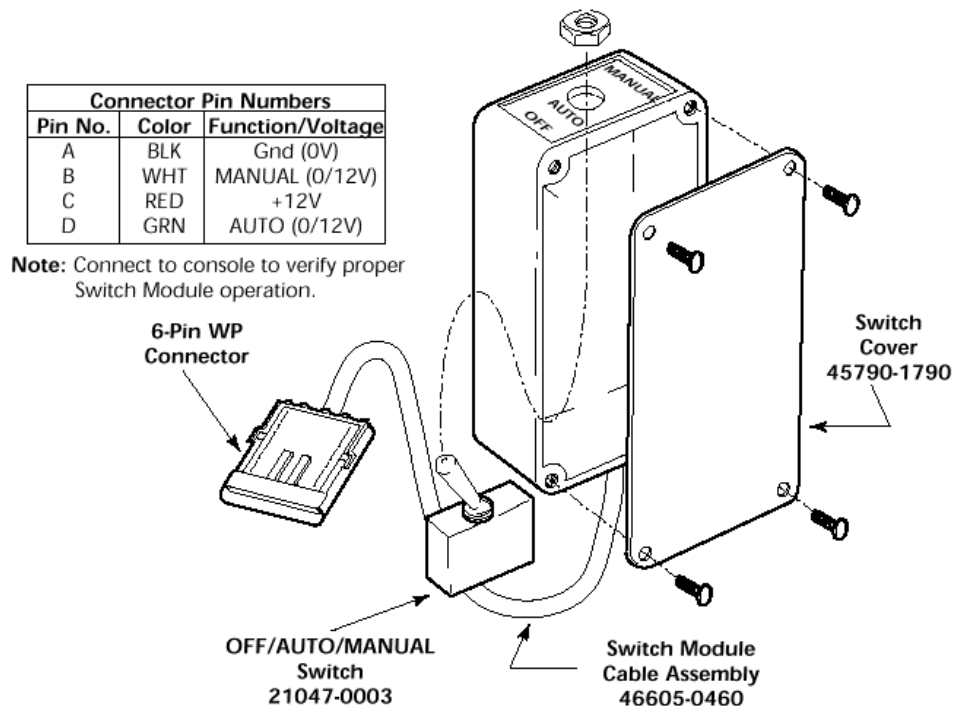
Connector Pin Numbers ID		
Pin No.	Color	Function/Voltage
1	RED	Signal (0/12V)
2	NC	NC
3	BLK	Signal (0/12V)
4	GRN	APER

Control System Parts: Exploded Views

**Figure 19 . CCS 100 Switch Module (45790-2320S1)**

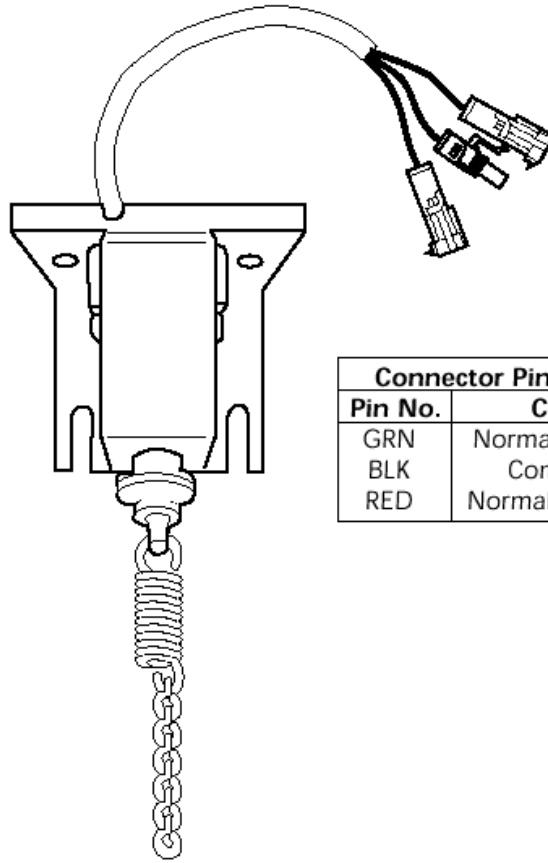


**Figure 20. Land Manager® Switch Module (46605-0030)**



Control System Parts: Exploded Views

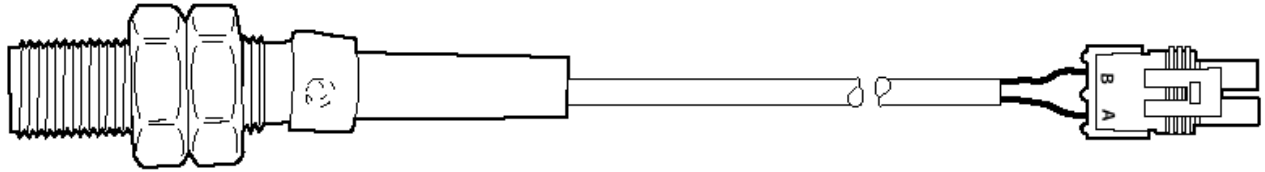
**Figure 21. Implement Lift Switch (46372-0150S1 w/WP Connector)  
Implement Lift Switch (45632-1070 w/Mate-N-Loc Connector)**



Connector Pin Numbers	
Pin No.	Color
GRN	Normally Open
BLK	Common
RED	Normally Closed

Control System Parts: Exploded Views

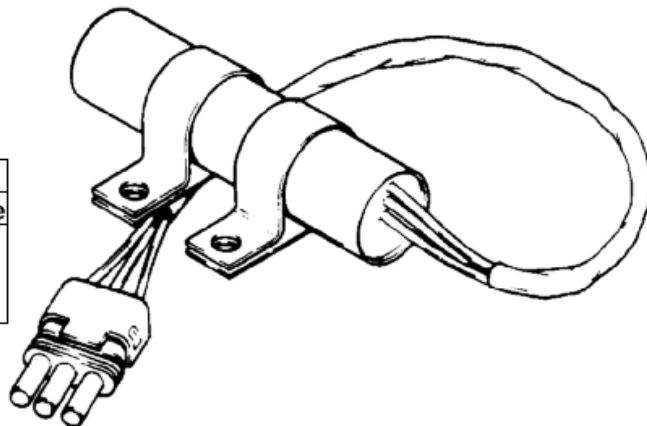
**Figure 22. Reluctance Sensor (46550-0220S1)**



Connector Pin Numbers		
Pin No.	Color	Function/Voltage
A	BLK	Signal (Low Voltage Sine Wave)
B	BLK	Signal (Low Voltage Sine Wave)

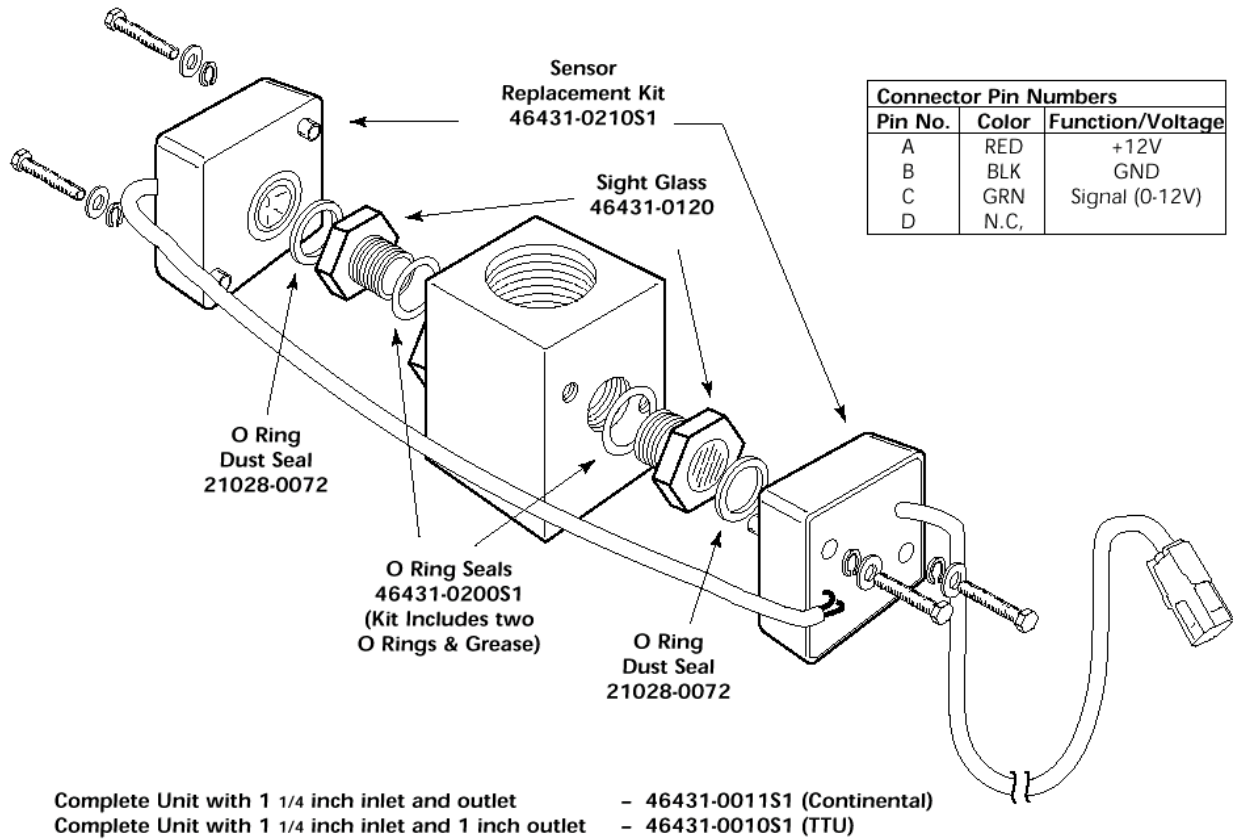
**Figure 23. Hall Effect Sensor (Fan RPM) (46350-0030S1)**

Connector Pin Numbers		
Pin No.	Color	Function/Voltage
A	RED	+12V
B	BLK	GND (0V)
C	GRN	Signal (Sq. Wave)



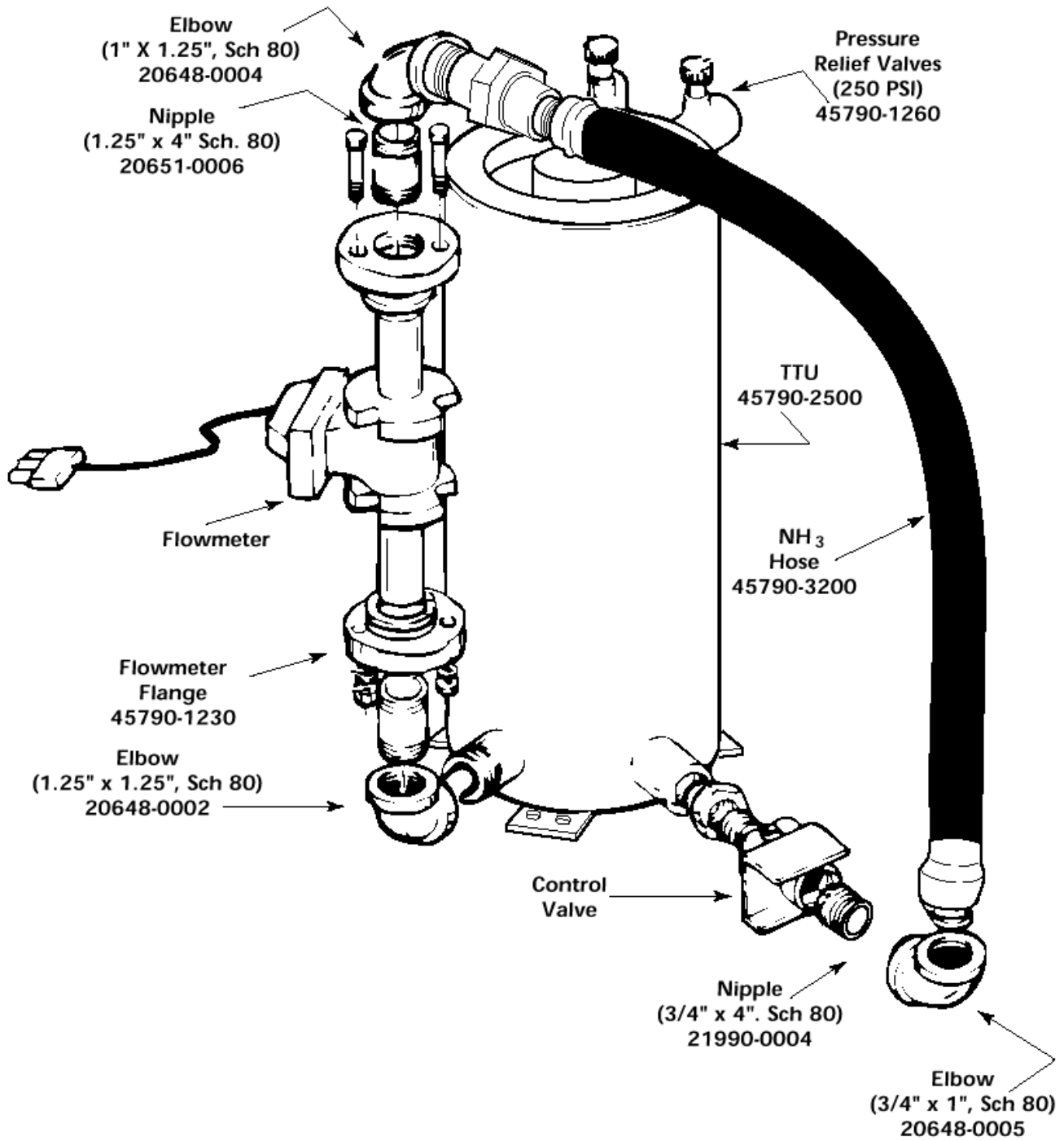
Control System Parts: Exploded Views

**Figure 24. Vapor Detector (For part number, see listing below)**



Control System Parts: Exploded Views

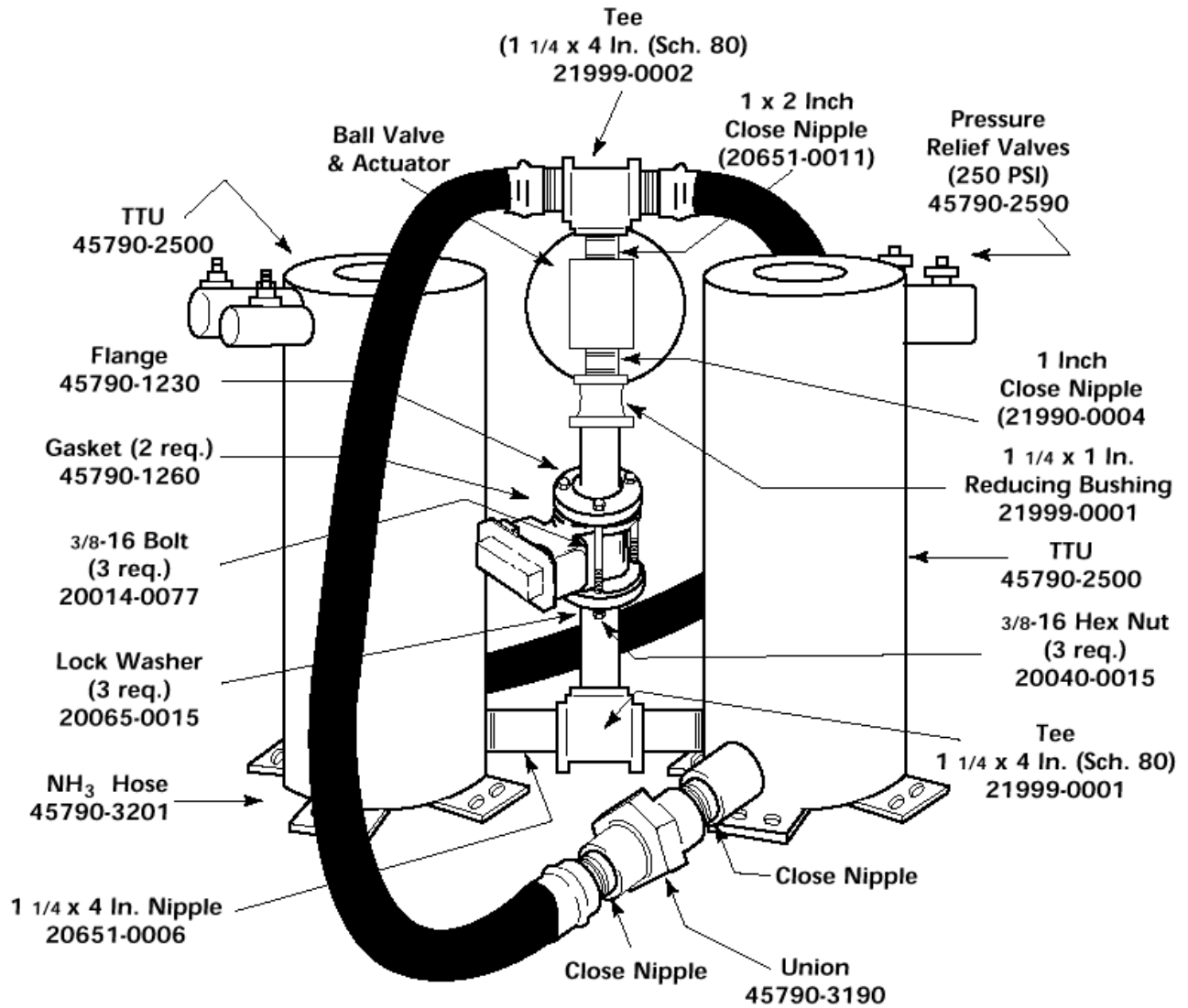
**Figure 25. Thermal Transfer Unit (TTU)/Hardware Kit (45790-2280BS1)**





Control System Parts: Exploded Views

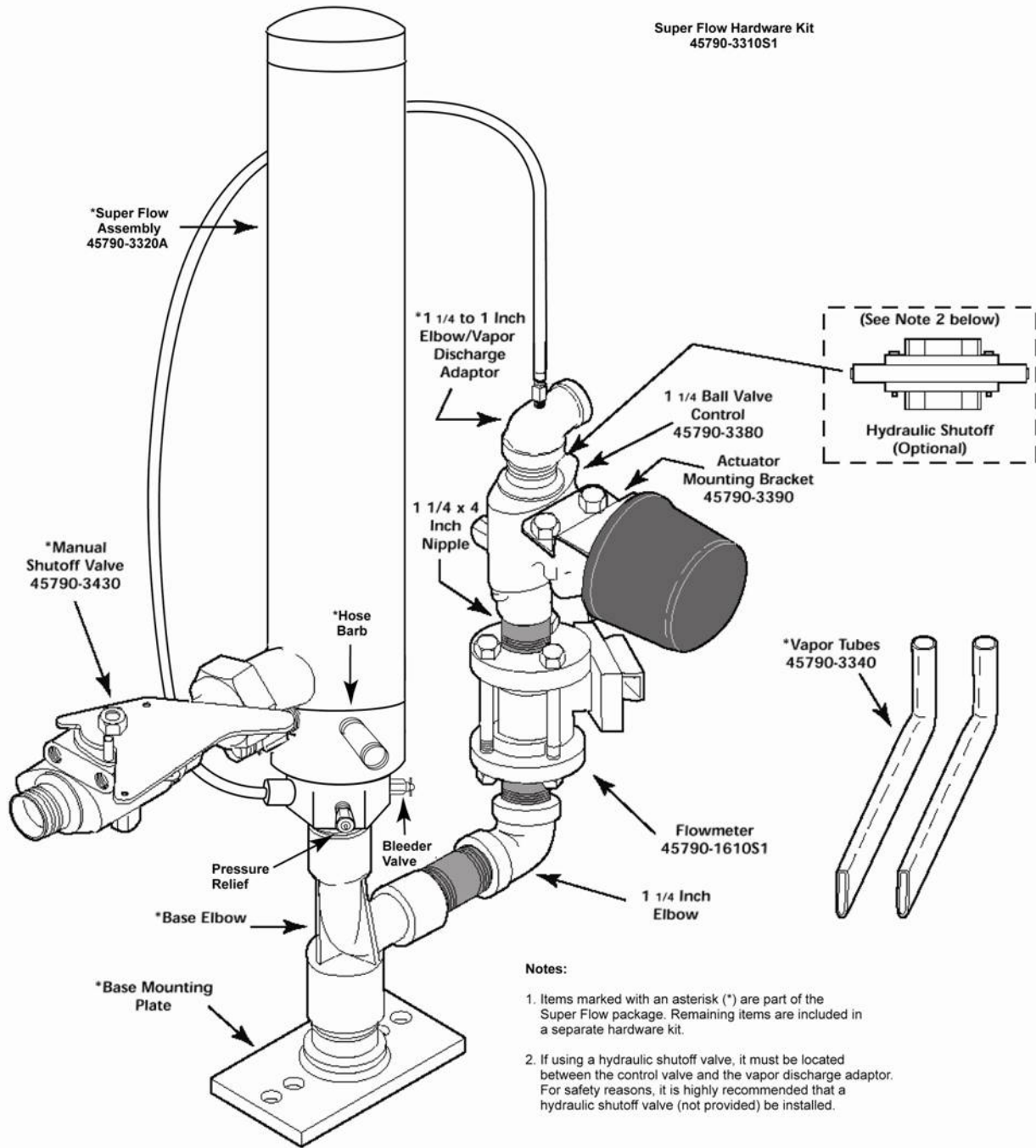
**Figure 26. Dual Thermal Transfer Units (TTU)/Hardware Kit (45790-2281AS1)**





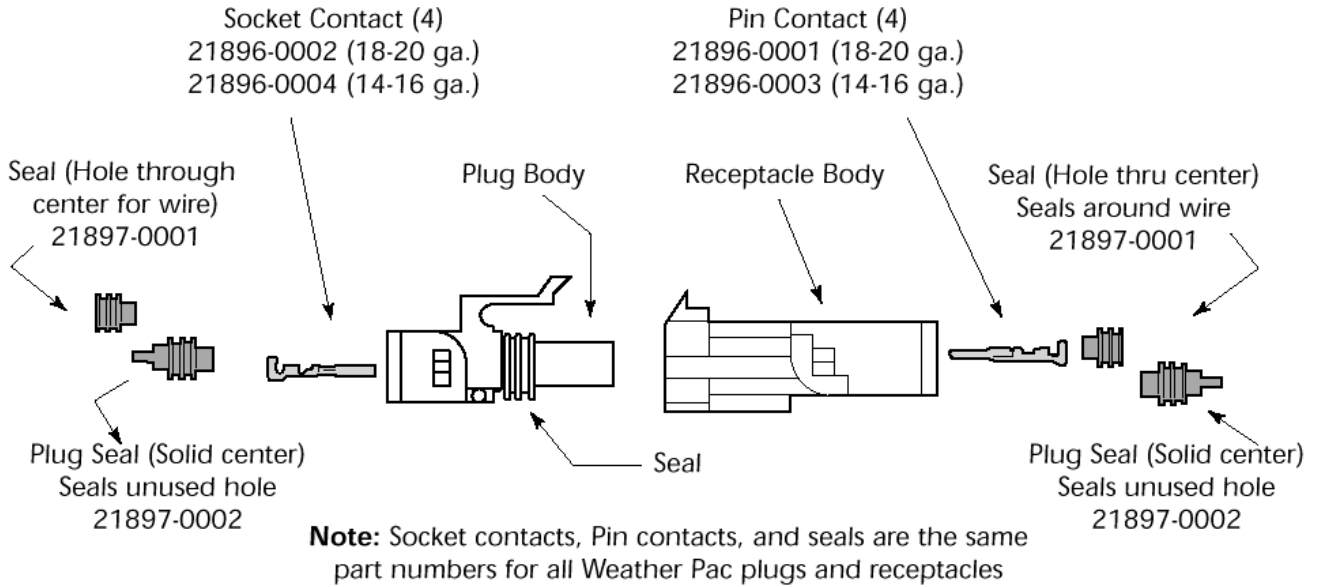
Control System Parts: Exploded Views

**Figure 27. Super Flow Assembly (45790-3320A)**



Connector Kits & Accessories

**Figure 28. Weather Pac Plug and Receptacle Anatomy**



Connector Kits & Accessories

**Figure 29. Weather Pac Plug and Receptacle Breakdowns**

**1- Pin Connector Kit - 46682-0770S1**

- Plug Body 21894-0001 (Male)
- Socket (4) 21896-0002 (18-20 ga.)
- Socket (4) 21896-0004 (14-16 ga.)
- Seal w/hole (4) 21897-0001
- Seal, solid (4) 21897-0002



**1- Pin Receptacle Kit - 46682-0770S1**

- Receptacle Body 21895-0001 (Female)
- Pin Contact (4) 21896-0001 (18-20 ga.)
- Pin Contact (4) 21896-0003 (14-16 ga.)
- Seal w/hole (4) 21897-0001
- Seal, solid (4) 21897-0002

**2- Pin Connector Kit - 46627-0250**

- Plug Body 21894-0002 (Male)
- Socket (4) 21896-0002 (18-20 ga.)
- Socket (4) 21896-0004 (14-16 ga.)
- Seal w/hole (4) 21897-0001
- Seal, solid (4) 21897-0002



**2- Pin Receptacle Kit - 46627-0240**

- Receptacle Body 21895-0002 (Female)
- Pin Contact (4) 21896-0001 (18-20 ga.)
- Pin Contact (4) 21896-0003 (14-16 ga.)
- Seal w/hole (4) 21897-0001
- Seal, solid (4) 21897-0002

**3- Pin Connector Kit - 46627-0270**

- Plug Body 21894-0003
- Socket (4) 21896-0002 (18-20 ga.)
- Socket (4) 21896-0004 (14-16 ga.)
- Seal w/hole (4) 21897-0001
- Seal, solid (4) 21897-0002

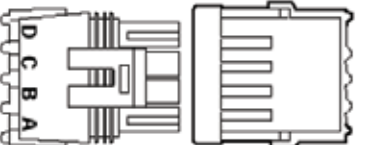


**3- Pin Receptacle Kit - 46627-0260**

- Receptacle Body 21895-0003
- Pin Contact (4) 21896-0001 (18-20 ga.)
- Pin Contact (4) 21896-0003 (14-16 ga.)
- Seal w/hole (4) 21897-0001
- Seal, solid (4) 21897-0002

**4- Pin Connector Kit, Flat - 46627-0710**

- Plug Body 21894-0004
- Socket (4) 21896-0002 (18-20 ga.)
- Socket (4) 21896-0004 (14-16 ga.)
- Seal w/hole (4) 21897-0001
- Seal, solid (4) 21897-0002



**4- Pin Receptacle Kit, Flat - 46627-0720**

- Receptacle Body 21895-0004
- Pin Contact (4) 21896-0001 (18-20 ga.)
- Pin Contact (4) 21896-0003 (14-16 ga.)
- Seal w/hole (4) 21897-0001
- Seal, solid (4) 21897-0002

**4- Pin Connector Kit, Square - 46627-0290**

- Plug Body 21894-0005
- Socket (4) 21896-0002 (18-20 ga.)
- Socket (4) 21896-0004 (14-16 ga.)
- Seal w/hole (4) 21897-0001
- Seal, solid (4) 21897-0002

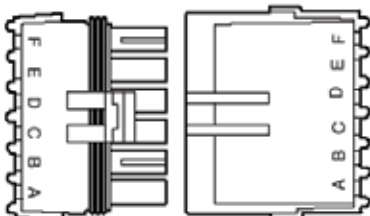


**4- Pin Receptacle Kit, Square-46627-0280**

- Receptacle Body 21895-0005
- Pin Contact (4) 21896-0001 (18-20 ga.)
- Pin Contact (4) 21896-0003 (14-16 ga.)
- Seal w/hole (4) 21897-0001
- Seal, solid (4) 21897-0002

**6- Pin Connector Kit, Flat - 46627-0730**

- Plug Body 21894-0006
- Socket (4) 21896-0002 (18-20 ga.)
- Socket (4) 21896-0004 (14-16 ga.)
- Seal w/hole (4) 21897-0001
- Seal, solid (4) 21897-0002

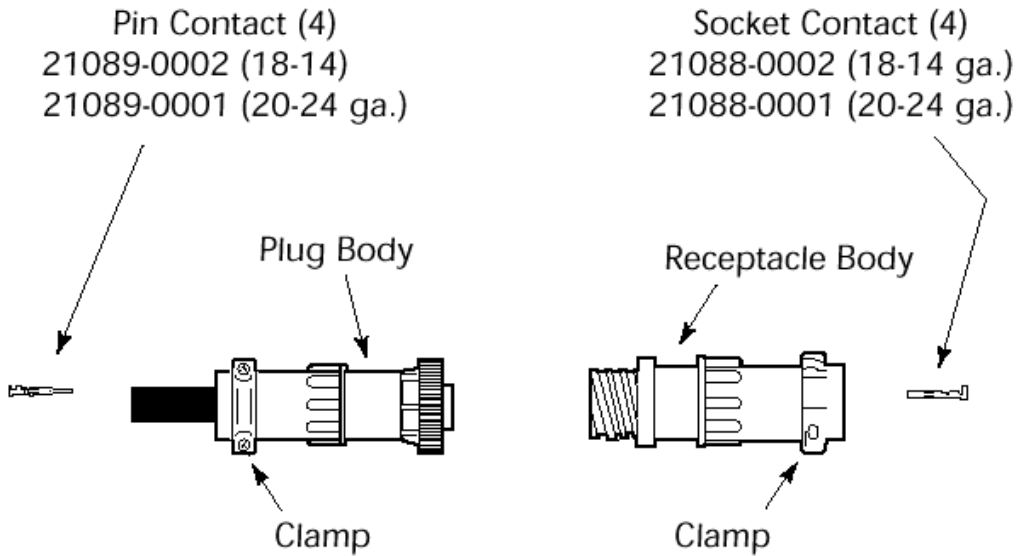


**6- Pin Receptacle Kit, Flat-46627-0740**

- Receptacle Body 21895-0006
- Pin Contact (4) 21896-0001 (18-20 ga.)
- Pin Contact (4) 21896-0003 (14-16 ga.)
- Seal w/hole (4) 21897-0001
- Seal, solid (4) 21897-0002

Connector Kits & Accessories

**Figure 30. AMP Plug and Receptacle Anatomy**



**Note:** Socket contacts, Pin contacts, and seals are the same part numbers for all CPC plugs and receptacles



Connector Kits & Accessories

**Figure 31. AMP Plug and Receptacle Breakdowns**

**4-Pin w/Locking Ring Kit – 11059-0007**

- Connector 21090-0001
- Connector 21090-0004
- Socket 21088-0002 (14-18 ga.)
- Socket 21088-0001 (20-24 ga.)
- Pin 21089-0002 (18-14 ga.)
- Pin 21089-0001 (20-24 ga.)
- Clamp 21092-0001



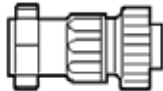
**4-Pin w/o Locking Ring Kit – 11059-0008**

- Connector 21091-0001
- Connector 21091-0003
- Socket 21088-0002 (14-18 ga.)
- Socket 21088-0001 (20-24 ga.)
- Pin 21089-0002 (18-14 ga.)
- Pin 21089-0001 (20-24 ga.)
- Clamp 21092-0001



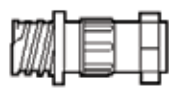
**9-Pin w/Locking Ring Kit – 11059-0009**

- Connector 21090-0006
- Socket 21088-0002 (14-18 ga.)
- Socket 21088-0001 (20-24 ga.)
- Clamp 21092-0004



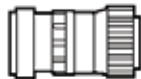
**9-Pin w/o Locking Ring Kit – 11059-0010**

- Connector 21091-0006
- Pin 21089-0002 (14-18 ga.)
- Pin 21089-0001 (20-24 ga.)
- Clamp 21092-0004



**14-Pin w/Locking Ring Kit – 11059-0011**

- Connector 21090-0003
- Pin 21089-0002 (14-18 ga.)
- Pin 21089-0001 (20-24 ga.)
- Clamp 21092-0007



**14-Pin w/o Locking Ring Kit – 11059-0012**

- Connector 21091-0004
- Socket 21088-0002 (14-18 ga.)
- Socket 21088-0001 (20-24 ga.)
- Pin 21089-0002 (14-18 ga.)
- Pin 21089-0001 (20-24 ga.)
- Clamp 21092-0007



**16-Pin w/Locking Ring Kit – 11059-0013**

- Connector 21090-0002
- Socket 21088-0002 (14-18 ga.)
- Socket 21088-0001 (20-24 ga.)
- Clamp 21092-0007



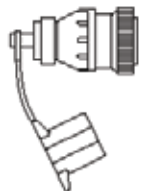
**16-Pin w/o Locking Ring Kit – 11059-0014**

- Connector 21091-0002
- Pin 21089-0002 (14-18)
- Pin 21089-0001 (20-24)
- Clamp 21092-0007



**37-Pin w/Locking Ring Kit – 11059-0005**

- Connector 21090-0005
- Socket 21088-0002 (14-18 ga.)
- Socket 21088-0001 (20-24 ga.)
- Clamp 21092-0003



**37-Pin w/o Locking Ring Kit – 11059-0006**

- Connector 21101-0005
- Pin 21089-0002 (14-18 ga.)
- Pin 21089-0001 (20-24 ga.)
- Clamp 21092-0003







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