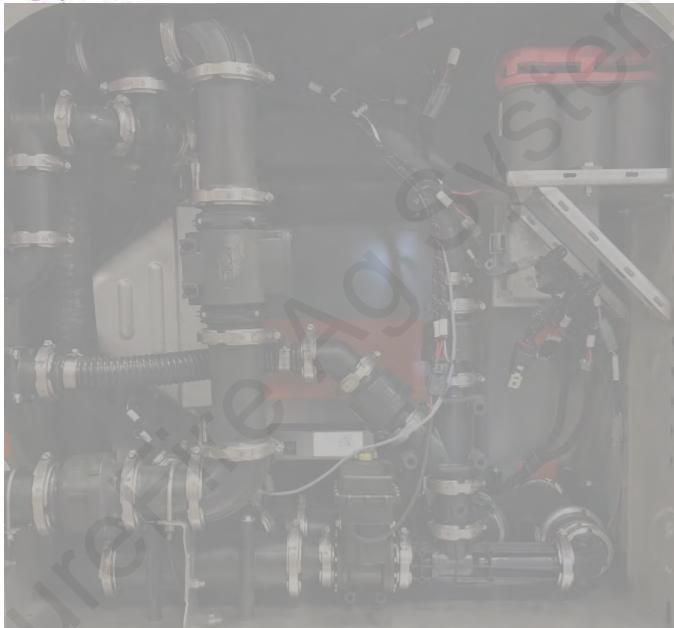


396-4495Y1 QuickDraw^{MAX} 3000 Master Wiring Overview





396-4495Y1 - QuickDraw 3000 Master Harness Overview Page 1 © 2020 SureFire Ag Systems, Inc.



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QuickDraw Power Wiring (Page 5)



Gas Engine Wiring (Pages 6-8, 15)



Electric Motor Wiring (Pages 9-11, 15)



Hydraulic Motor Wiring (Pages 12-14, 15)



Remote Connectivity (Page 16)



Hose Reel Wiring (Page 19)



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Electric Carrier Fill Valve (Page 20)

396-4495Y1 - QuickDraw 3000 Master Harness Overview Page 2 © 2020 SureFire Ag Systems, Inc.



QuickDraw Harnessing Table of Contents

<u>QuickDraw Harnesses</u>

- QuickDraw Main Harness
 - 208-05-4312Y1 12" Controller Leg (Standard)
 - 606-05-400100 QuickDraw Extended Harness Kit 10' Controller/E-Stop Extension
 - 606-05-400200 QuickDraw Extended Harness Kit 25' Controller/E-Stop Extension

Power Connections

- Requires 208-NAPA7578 12 Volt Battery, BCI Group 78 (Or customer provided battery)
- 205-2213Y1 40 Amp 480MP Power Cable 20' 6AWG
- 208-02-2191Y1 Power Supply 25Amp, 110VAC to 12VDC with 480 MP Tower Connector
- 206-02-220_Y1 2 Pin 480MP Extension Cables
 - 5 Foot: 206-02-2206Y1 (10 AWG)
 - 10 Foot: 206-02-2207Y1 (8 AWG)
 - 20 Foot: 206-02-2208Y1 (8 AWG)
 - 30 Foot: 206-02-2209Y1 (6 AWG)
 - 40 Foot: 206-02-2210Y1 (6 AWG)
 - 60 Foot: 206-02-2211Y1 (6 AWG)
- 201-4241Y1 40A Y Cable: 480MP Tower to (2) 480MP Shroud

Gas Engine Pumps

- 208-05-2414Y1 QuickDraw Pump Stop Harness Set (See Manual 396-2944Y1)
 - 208-05-2802Y1 QuickDraw Pump Stop Harness
 - 208-05-2633Y1 QuickDraw Pump Stop Harness (Grounded Coil)
- 208-05-2430Y1 QuickDraw Electric Pump Start Gas Engine 12V Supply Harness
- 208-05-3944Y1 QuickDraw Gas Engine Push Button Start

Electric Pumps

- 208-05-3955Y1 QuickDraw Electric Pump Start-Stop Harness (See Manual 396-3684Y1)
 - Stop/Start Starter Panel with QuickDraw Start and Stop Harnesses Installed
 - On/Off Motor Starter with QuickDraw Start and Stop Harnesses Installed

Hydraulic Pumps

- 208-05-3774Y1 Hydraulic Booster Pump Harness
- 208-05-4240Y1 Hydraulic Transfer Pump Solenoid Start Harness

Remote Connectivity (Cloud Based Connections)

606-05-300150 - QuickDraw Remote Connectivity Kit

Multiple Carrier Valve Wiring

- 208-05-3363Y2 QuickDraw CAN Valve Expansion Harness
- 206-04-291_Y1 4-Pin Deutsch Extension Cable
 - 5 ft 206-04-2913Y1
 - 10 ft 206-04-2914Y1
 - 20 ft 206-04-2915Y1

Hose Reel

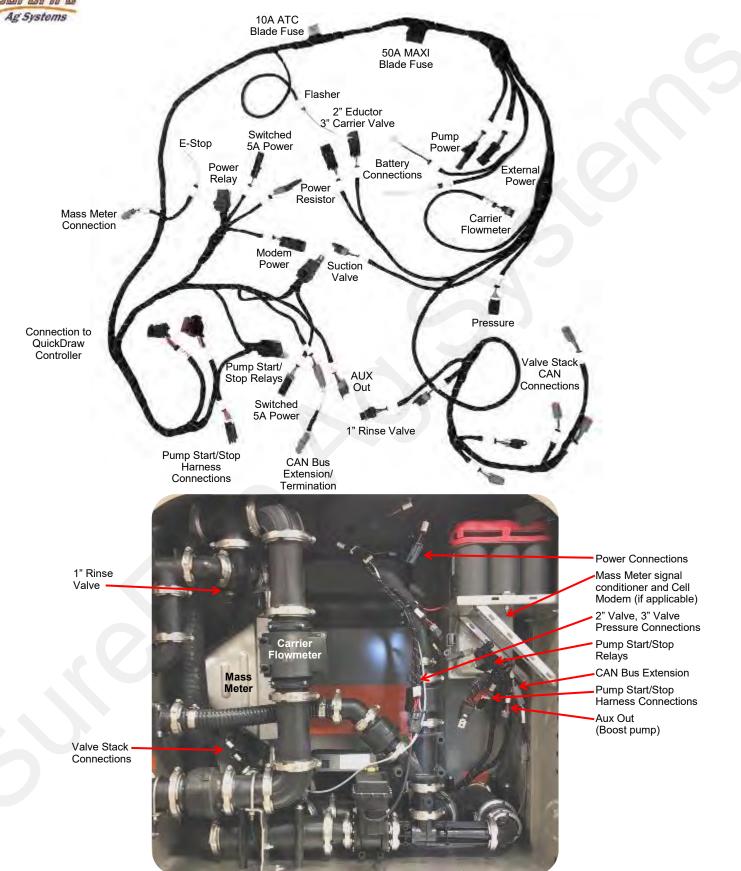
- Requires 208-NAPA7578 12 Volt Battery, BCI Group 78 (Or customer provided battery)
- 205-2213Y1 40 Amp 480MP Power Cable 20' 6AWG
- 201-4241Y1 40A 480MP Tower x 2 480MP Shroud Y Cable

Electric Carrier Fill Valve Kit

• 208-05-4193Y1 - Electric Carrier Fill Valve Control Harness



QuickDraw Main Harness



396-4495Y1 - QuickDraw 3000 Master Harness Overview Page 4 © 2020 SureFire Ag Systems, Inc.

Power Connections



Power Essentials

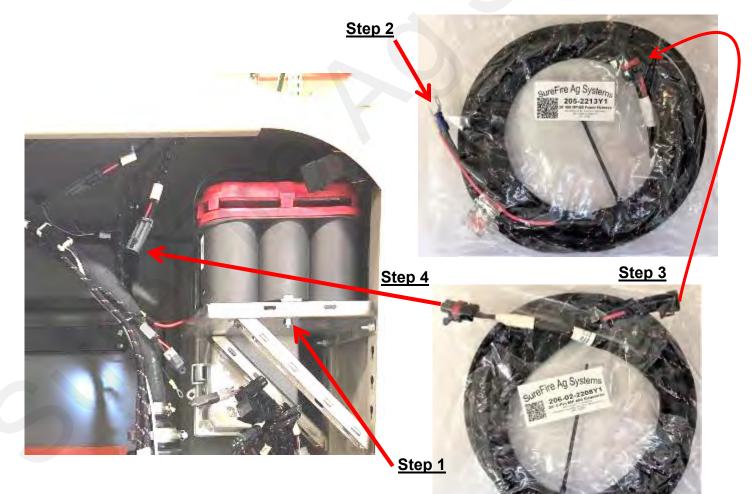
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- 208-NAPA7578 12 Volt Battery, BCI Group 78
- 205-2213Y1 40 Amp 480MP Power Cable 20' 6AWG
- 206-02-220 Y1 2 Pin 480MP Extension Cable
 - 5 Ft: 206-02-2206Y1 (10 AWG) 30 Ft: 206-02-2209Y1 (6 AWG)
 - 10 Ft: 206-02-2207Y1 (8 AWG) 40 Ft: 206-02-2210Y1 (6 AWG)
- - 20 Ft: 206-02-2208Y1 (8 AWG) 60 Ft: 206-02-2211Y1 (6 AWG)

QuickDraw Power Connections:

- 1. Install battery and tighten battery hold downs. Note: Battery is not always provided by SureFire due to shipping constraints.
- 2. Connect the ring terminals of the 205-2213Y1 harness to the truck/tractor battery and route to the trailer hitch or disconnection point.
- 3. Use the appropriate length or combination of 2-pin 480MP extension cables to route from the hitch to inside the QuickDraw. 20 ft is most commonly used.
- 4. Connect the extension harness to the connector inside the QuickDraw labeled External Power.

* In lieu of a battery and harnessing in stationary/plant applications a 110V to 12V power supply is used. SureFire P/N: 208-02-2191Y1 - Power Supply - 25Amp, 110VAC to 12VDC





Gas Engine Pump Start/Stop and Power

Pump Wiring Essentials

- 208-05-2414Y1 QuickDraw Pump Stop Harness Set (See Manual 396-2944Y1)
 - 208-05-2802Y1 QuickDraw Pump Stop Harness
 - 208-05-2633Y1 QuickDraw Pump Stop Harness (Grounded Coil)
- 208-05-2430Y1 QuickDraw Electric Pump Start Gas Engine 12V Supply Harness
- 208-05-3944Y1 QuickDraw Gas Engine Push Button Start



208-05-2430Y1 QuickDraw Electric Pump Start Gas Engine 12V Supply Harness

> 208-05-3944Y1 QuickDraw Gas Engine Push Button Start

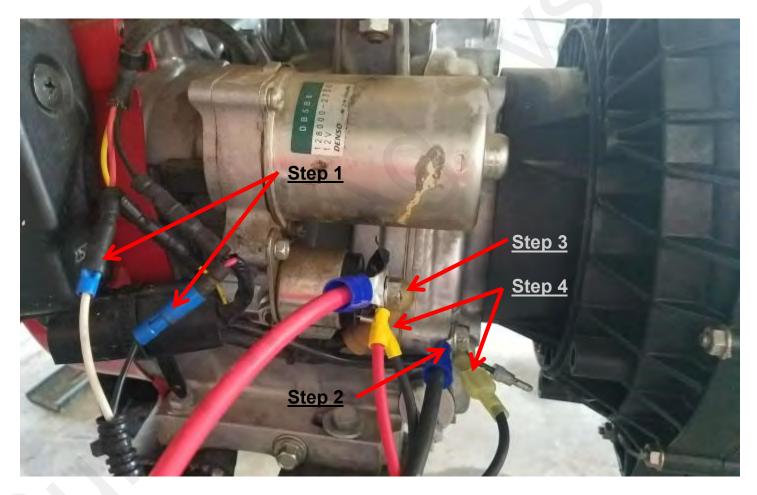
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Gas Engine Pump Start/Stop and Power Wiring

Pump Connections:

- 1. First, follow the steps on 396-2944Y1 QuickDraw Pump Stop Quick Help guide (located inside the 208-05-2414Y1 harness bag) to determine whether to use the standard or grounded pump stop harness. Use those instructions to connect the bullet connectors properly for your motor.
- 2. Connect the ground wire from the 208-05-2430Y1 harness, and pump stop grounded ring terminal if applicable, to motor ground.
- 3. Connect 12V power from 208-05-2430Y1 12V supply harness and 208-05-3944Y1 Push button start power cable (Red Ring Terminal) to the motor coil as shown.
- Remove the spade connector with black boot from the coil and connect the female spade connector of the 208-05-3944Y1 Push Button Start harness to the coil and the male connector to the boot previously removed.

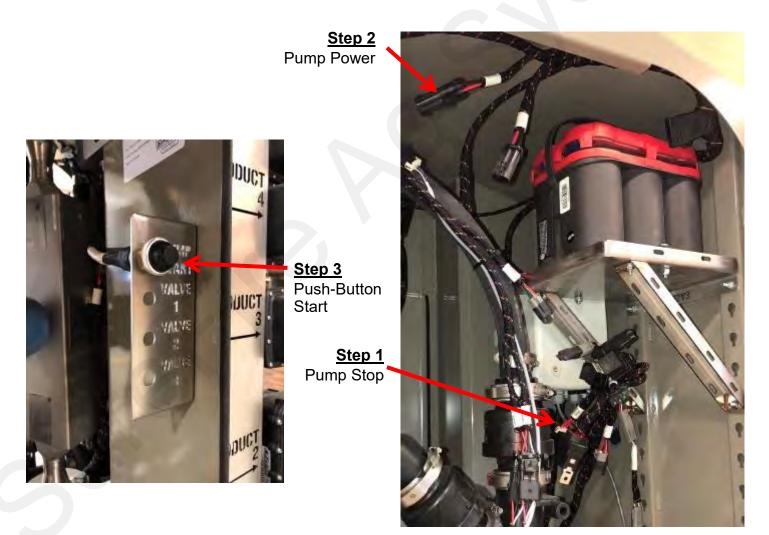




Gas Engine Pump QuickDraw Harness Connections

QuickDraw Connections:

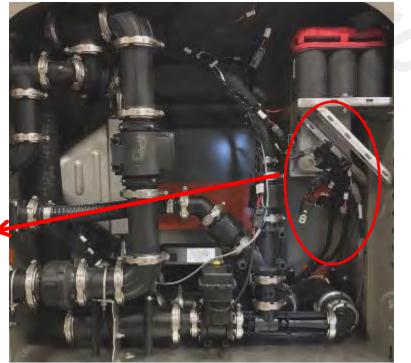
- Route Pump Stop harness (P/N 208-05-2802Y1 or 208-05-2633Y1) inside the QuickDraw cabinet and connect 150MP Shroud to male connector labeled *Pump Stop*. Note: The connector may have a dust cap that needs to be removed.
- Route 12V Pump Power Harness (P/N 208-05-2430Y1) inside the QuickDraw cabinet near the battery mount and connect to *Pump Power* on the main QuickDraw Harness. *Note: The connector may have a dust cap that needs to be removed.*
- Route 208-05-3944Y1 QuickDraw Push-Button Start Harness to inside the QuickDraw cabinet (or other desired start location). Install 475-4266Y1-SS - QuickDraw Aux Switch mounting bracket by removing 1/4" bolt for Product Valve label, then re-use bolt and install mounting bracket. Mount pump start button in the mounting bracket.
- 4. In the QuickDraw controller system settings, change the *Pump Start Mode* to MAINTAINED START.





Electric Pump Start/Stop Wiring Overview





Pump Start and Pump Stop Connections

- 1. 208-05-2431Y1 QuickDraw Electric Motor Drive Pump Start Harness (Connect to **Pump Start**)
- 208-05-2802Y1 QuickDraw Pump Stop Harness (Connect to *Pump Stop*)
- 3. See the following pages for Motor Control Panel Wiring.
- In the QuickDraw controller system settings, change the *Pump Start Mode* to either *Momentary* or *Maintained*, depending on motor control panel wiring. See Page 15.

WARNING!

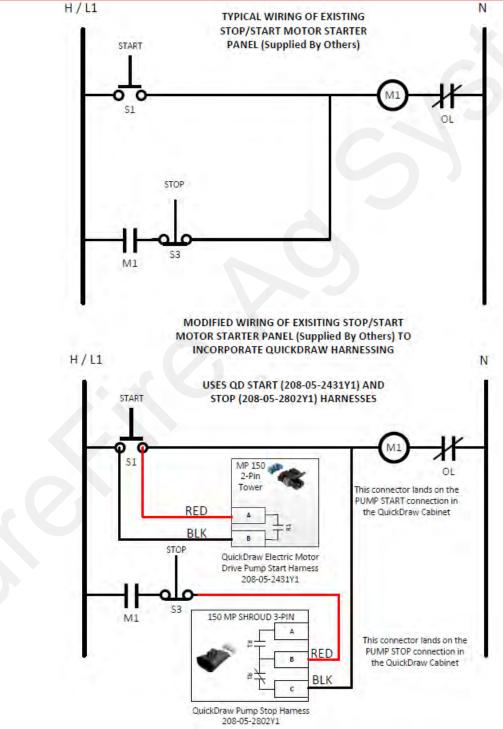
WIRING AN ELECTRIC MOTOR TO A CUSTOMER SUPPLIED MOTOR CONTROL PANEL AND THE QUICKDRAW MUST BE PERFORMED BY AN ELECTRICIAN. TYPICAL MOTOR CONTROL PANEL WIRING SCHEMATICS ARE SUPPLIED, BUT THE CUSTOMER IS RESPONSIBLE FOR PROVIDING THEIR OWN MOTOR CONTROL PANEL AND WIRING. SUREFIRE AG SYSTEMS DOES NOT SUPPLY THIS EQUIPMENT.



Electric Pump Stop/Start Starter Panel Wiring Diagram

WARNING!

WIRING AN ELECTRIC MOTOR TO A CUSTOMER SUPPLIED MOTOR CONTROL PANEL AND THE QUICKDRAW MUST BE PERFORMED BY AN ELECTRICIAN. TYPICAL MOTOR CONTROL PANEL WIRING SCHEMATICS ARE SUPPLIED, BUT THE CUSTOMER IS RESPONSIBLE FOR PROVIDING THEIR OWN MOTOR CONTROL PANEL AND WIRING. SUREFIRE AG SYSTEMS DOES NOT SUPPLY THIS EQUIPMENT.

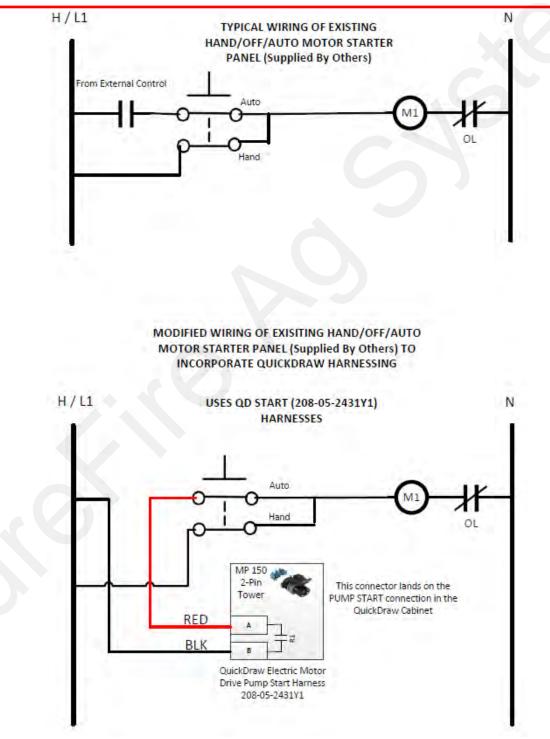




Electric Pump Hand/Off/Auto Motor Starter Panel Wiring

WARNING!

WIRING AN ELECTRIC MOTOR TO A CUSTOMER SUPPLIED MOTOR CONTROL PANEL AND THE QUICKDRAW MUST BE PERFORMED BY AN ELECTRICIAN. TYPICAL MOTOR CONTROL PANEL WIRING SCHEMATICS ARE SUPPLIED, BUT THE CUSTOMER IS RESPONSIBLE FOR PROVIDING THEIR OWN MOTOR CONTROL PANEL AND WIRING. SUREFIRE AG SYSTEMS DOES NOT SUPPLY THIS EQUIPMENT.



396-4495Y1 - QuickDraw 3000 Master Harness Overview



Hydraulic Pump Transfer Pump Harnessing

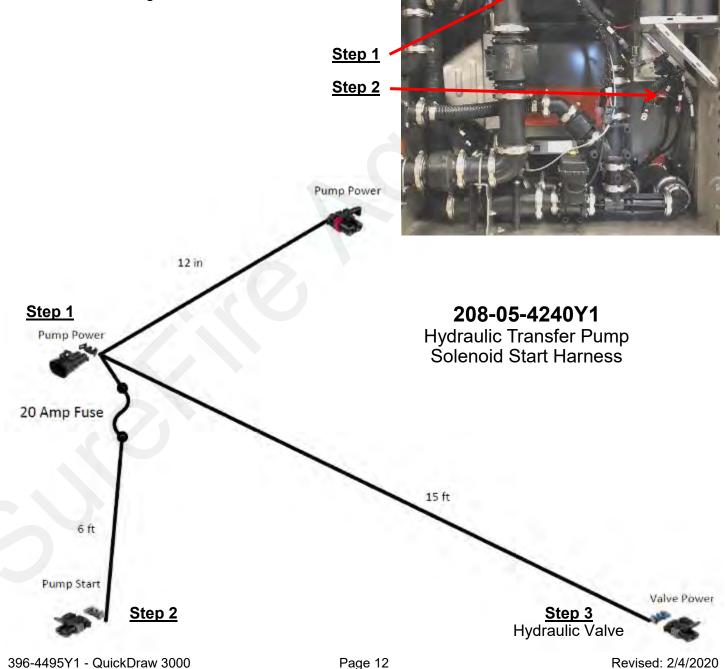
Hydraulic Pumps

- 208-05-3775Y1 Hydraulic Transfer Pump & Agitation Harness
- 208-05-4240Y1 Hydraulic Transfer Pump Hydraulic Solenoid Start Harness

Installation Instructions:

Master Harness Overview

- 1. Use the 208-05-4240Y1 harness and plug into the *Pump Power* connector in the QuickDraw.
- 2. Next, plug the Pump Start connection into the Pump Start connector in the QuickDraw.
- 3. Plug the 2-pin connector into the 150MP connection on the solenoid coil. See next page for typical solenoid installation.
- In the QuickDraw controller system settings, change the *Pump Start Mode* to MAINTAINED START. See Page 15.



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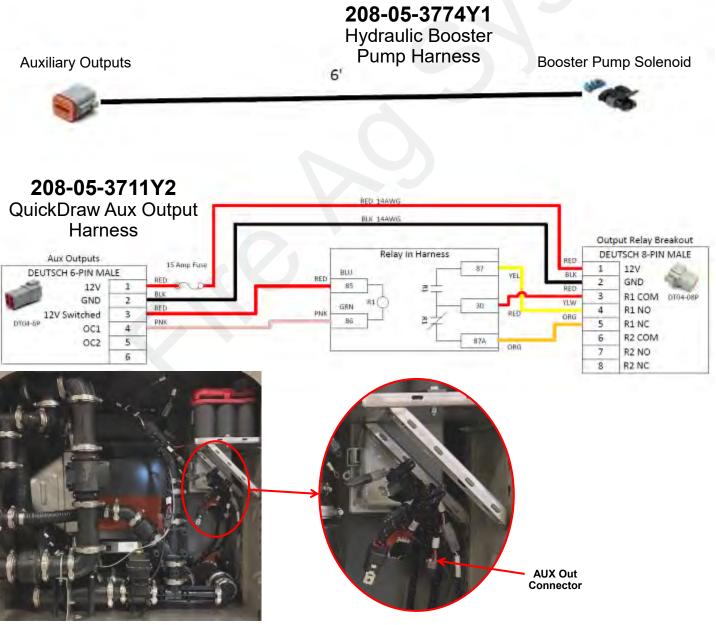
Hydraulic Pump Booster Pump Harnessing

This section is used for bulk products requiring more flow than is achievable by venturi suction. **Hydraulic Booster Pump Harnesses:**

- 208-05-3774Y1 Hydraulic Booster Pump Harness
- 208-05-3711Y2 QuickDraw Aux Output Harness

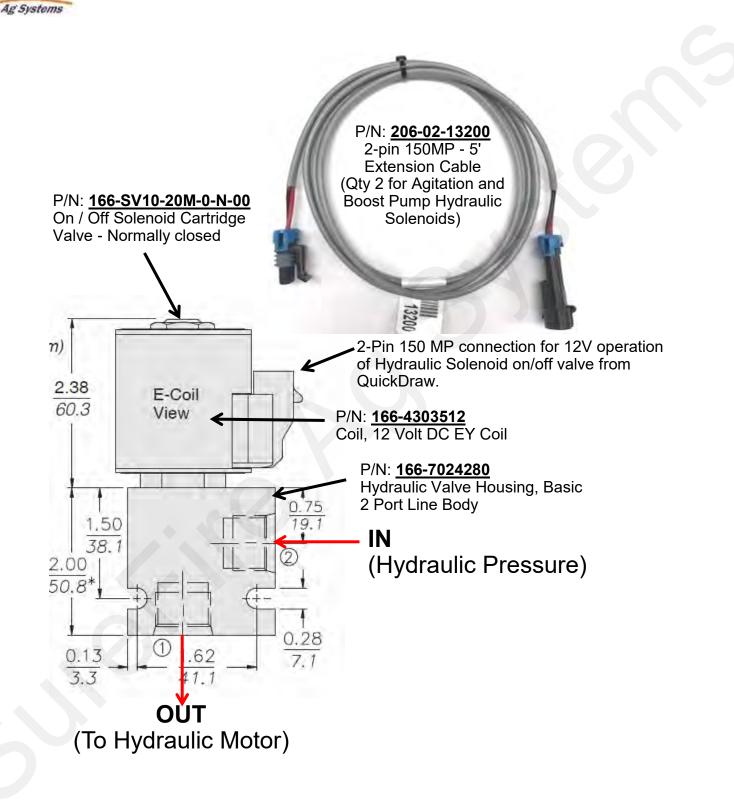
Installation Instructions:

- 1. Plug 208-05-3711Y2 Aux Output Harness into the QuickDraw Aux Outputs connector.
- Plug 208-05-3774Y1 Hydraulic Booster Pump Harness into the Auxiliary Outputs connector in the 208-05-3711Y2 harness
- Plug the 2-pin connector into the 150MP connection on the solenoid coil. See next page for typical solenoid installation.
- 4. Setup QuickDraw controller for Boost pump operation and select which product valve the boost pump is connected to. See Page 15.



396-4495Y1 - QuickDraw 3000 Master Harness Overview Page 13 © 2020 SureFire Ag Systems, Inc.

Hydraulic Pump Typical Hydraulic Solenoid Valve Detail



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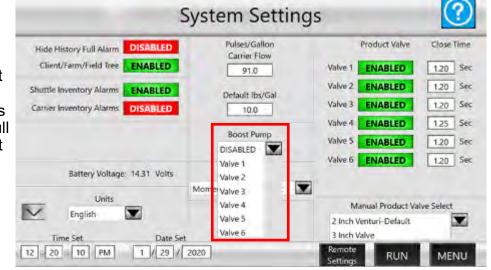
Controller Setup for Pumps



Manual Pump Start/Stop:

The Manual Controls Screen allows the user to start/kill the transfer pump or start/kill the boost pump when outside of running a batch.

	Manual Cont	rols			
Carrier Flow		SET POSITION	COMMAND POSITION	ACTUAL POSITION	
43.7 GPM RESET Valve 6	in .	0	0		
Aase Meter Flow Valve S	5	0	0	0	
37.6 GAL Valve 4		0	0	0	
0.0 GPM Valve 3	1	0	0	0	
RESET Valve 2	in the second se	0	o	0	
Pressure: 16.0 PSI Valve 1	(m	0	0	0	
IODUCT HOSE 2 Inc	h 3 Inch Valve Rins	Se Star	Kill Pun	np Start Boos	t
ASS METER DATA				RU	N
	System Setti	ings		(?)
Hide History Full Alarm DISABLED	System Setti Pulses/Gallon	ings	Product Vi	alve Clase	? Time
Hide History Full Alarm DISABLED Client/Farm/Field Tree ENABLED	Pulses/Gallon Carrier Flow	ings _{Valve}	_	100	7 Time
Client/Farm/Field Tree ENABLED	Pulses/Gallon Carrier Flow 91.0			D 1.20	
Client/Farm/Field Tree ENABLED huttle Inventory Alarms ENABLED	Pulses/Gallon Carrier Flow	Valve	1 ENABLE	D 1.20	Sec
Client/Farm/Field Tree ENABLED	Pulses/Gallon Carrier Flow 91.0 Default Ibs/Gal 10.0	Valve Valve	1 ENABLE 2 ENABLE 3 ENABLE	D 1.20 D 1.20 D 1.20	Sec
Client/Farm/Field Tree ENABLED	Pulses/Gallon Carrier Flow 91.0 Default Ibs/Gal	Valve Valve Valve	1 ENABLE 2 ENABLE 3 ENABLE 4 ENABLE	D 1.20 D 1.20 D 1.20 D 1.25	Sec Sec Sec
Client/Farm/Field Tree ENABLED Shuttle Inventory Alarms ENABLED Carrier Inventory Alarms DISABLED	Pulses/Gallon Carrier Flow 91.0 Default Ibs/Gal 10.0 Boost Pump DISABLED	Valve Valve Valve Valve	1 ENABLE 2 ENABLE 3 ENABLE 4 ENABLE 5 ENABLE	D 1.20 D 1.20 D 1.20 D 1.25 D 1.25] Sec] Sec] Sec] Sec
Client/Farm/Field Tree ENABLED huttle Inventory Alarms ENABLED Carrier Inventory Alarms DISABLED Battery Voltage: 14.33 Volts	Pulses/Gallon Carrier Flow 91.0 Default Ibs/Gal 10.0 Boost Pump	Valve Valve Valve Valve Valve	1 ENABLE 2 ENABLE 3 ENABLE 4 ENABLE 5 ENABLE	D 1.20 D 1.20 D 1.20 D 1.25 D 1.25] Sec] Sec] Sec] Sec] Sec
Client/Farm/Field Tree ENABLED huttle Inventory Alarms ENABLED Carrier Inventory Alarms DISABLED Battery Voltage: 14.33 Volts Units	Pulses/Gallon Carrier Flow 91.0 Default Ibs/Gal 10.0 Boost Pump DISABLED EVERD	Valve Valve Valve Valve Valve	1 ENABLE 2 ENABLE 3 ENABLE 4 ENABLE 5 ENABLE 6 ENABLE	D 1.20 D 1.20 D 1.20 D 1.25 D 1.25] Sec] Sec] Sec] Sec] Sec] Sec
Client/Farm/Field Tree ENABLED huttle Inventory Alarms ENABLED Carrier Inventory Alarms DISABLED Battery Voltage: 14.33 Volts Units English I	Pulses/Gallon Carrier Flow 91.0 Default Ibs/Gal 10.0 Boost Pump DISABLED DISABLED Pump Start Mode Momentary Start-Default Maintained Start	Valve Valve Valve Valve Valve Valve 2 Inc	1 ENABLE 2 ENABLE 3 ENABLE 4 ENABLE 5 ENABLE 6 ENABLE Manual Prode	D 1.20 ID 1.20] Sec] Sec] Sec] Sec] Sec] Sec
Client/Farm/Field Tree ENABLED Shuttle Inventory Alarms ENABLED Carrier Inventory Alarms DISABLED Battery Voltage: 14.33 Volts Units English I	Pulses/Gallon Carrier Flow 91.0 Default Ibs/Gal 10.0 Boost Pump DISABLED DISABLED Pump Start Mode Momentary Start-Default Maintained Start	Valve Valve Valve Valve Valve Valve 2 Inc	1 ENABLE 2 ENABLE 3 ENABLE 4 ENABLE 5 ENABLE 6 ENABLE Manual Produ h Venturi-Def.	D 1.20 D 1.20 D 1.20 D 1.20 D 1.20 D 1.20 ID ID ID ID ID ID ID ID ID ID ID ID ID <thid< t<="" td=""><td>] Sec] Sec] Sec] Sec] Sec</td></thid<>] Sec] Sec] Sec] Sec] Sec



Pump Start Mode: Momentary - The output is enabled for 3 seconds when the batch start is pressed Maintained - The output is constant for the duration of the batch For Hydraulic pumps, the pump start mode should be set to Maintained Start. For electric motors, depending on the electrical wiring and customer provided motor control center, either option may be selected. When using a start-stop pushbutton setup, Momentary Start should be selected.

Boost Pump:

Choose **DISABLED** if no boost pump is present, or select the product valve the boost pump is connected to. Typically the 2" full ported Valve 1 is best for boost pump applications.

396-4495Y1 - QuickDraw 3000 Master Harness Overview

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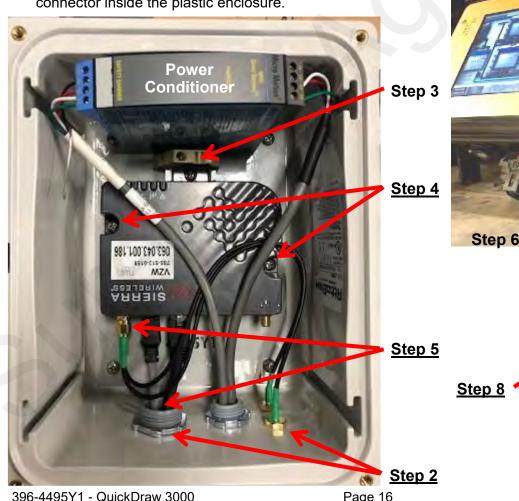
Remote Connectivity

SurgFire Typically, Remote Connectivity is installed at the time of order by SureFire Ag Systems. However, in some cases it may need to be installed in the field.

606-05-300150 - QuickDraw Remote Connectivity Kit Installation Instructions:

- 1. Remove 3/4" pipe plug and gray PVC hole plugs. The existing Power Conditioner will need to be temporarily removed and relocated.
- 2. Install 3/4" cable gland and (2) SMA coax cable bulkheads (P/N: 217-3353Y1) into the pre-drilled and plugged holes.
- Remove the existing 5" DIN rail and install the 4095Y1 mounting plate with (4) screws. Use 2" DIN rail and DIN rail stop to relocate the Mass Meter Power conditioner.
- 4. Install the QuickDraw modem using (2) Size 10 32 thread machine screws into the tapped mounting holes as shown.
- 5. Push the ethernet and power cable through the 3/4" cable gland and plug in.
- Connect the ethernet cable to the bottom right M12 ethernet port on the QuickDraw controller.
- 7. Route the power cable to the *Modem Power* connector (under the battery tray) for 12VDC.
- 8. Remove the plug and install the GPS/Modem in the hole in the top of the cabinet. Connect the cable labeled GPS to the GPS SMA cable and one of the LTE (yellow label) antenn cables to the SMA cable. Make sure these correspond to the right connector inside the plastic enclosure.





Master Harness Overview © 2020 SureFire Ag Systems, Inc.



Multiple Carrier Valve Wiring

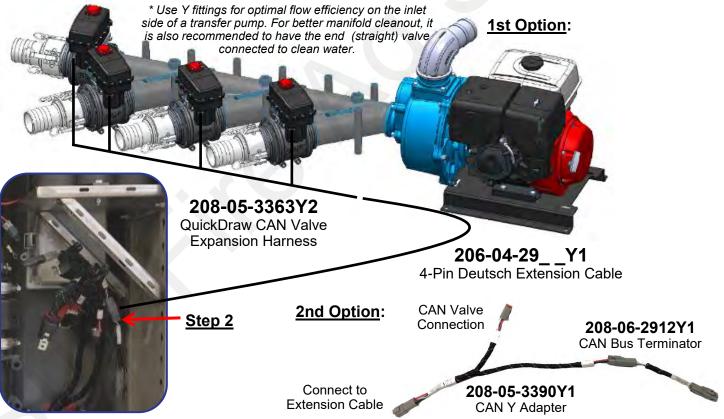
QuickDraw 3000 has the functionality for up to 4 carrier products. During a batch the QuickDraw can switch between the different carriers by opening and closing CAN controlled valves.

Multiple Carrier Connection

- 103-3366Y1 3" CAN Valve or 103-2102Y1 2" CAN Valve
- 208-05-3363Y2 CAN Valve Expansion Harness
- 208-05-3390Y1 CAN Y Adapter
- 206-04-29__Y1 4-Pin Deutsch Extension Cable
 - 5 ft 206-04-2913Y1
- 30 ft 206-04-2996Y1
 40 ft 206-04-2997Y1
- 10 ft 206-04-2914Y1 20 ft - 206-04-2915Y1
- 50 ft 206-04-2998Y1
- Installation Instructions:

Before plugging in any valves, you'll need to enable Multiple Carrier in the QuickDraw controller. See the next page for setup and addressing the valves.

- 1. Layout plumbing system and install CAN valve(s).*
- Remove the CAN Bus terminator (P/N 208-06-2912Y1) from the end of the QuickDraw harness connection labeled **Bus Extension/Termination.** This part may need to be re-used.
- 1st Option: If the CAN Valves are located close to each other, use the appropriate length extension harness and plug into the *Bus Extension/Termination* connector in the QuickDraw, then plug the 208-05 -3363Y2 QuickDraw CAN Valve Expansion Harness to the end of the extension.



- 3. **2nd Option:** If CAN Valves are not in close proximity, use the appropriate length extension harness to route from the *Bus Extension/Termination* connector in the QuickDraw to the closest CAN Valve. Use CAN Y Adapter (208-05-3390Y1) to connect to the valve and extension cable to the next valve. Repeat until all valves are connected, re-use CAN bus terminator harness (208-06-2912Y1) at the final Y adapter.
- 4. Plug in the CAN valves in desired order, one at a time, so they are properly addressed within the QuickDraw controller. Valve order can also be reset, see next page.

396-4495Y1 - QuickDraw 3000 Master Harness Overview

Multiple Carrier Initial Setup



Setup Instructions:

- 1. Go to the menu, select Settings.
- 2. Press the area just left of the Battery Voltage. Hit Enter on the keyboard that pops up.
- Select the appropriate number of Carriers (1-4). Press Menu. This will flash a CAN Bus error because the valves are not addressed.
- Plug in the 3" CAN valves in desired order, one at a time, so they are properly addressed within the QuickDraw controller.
- 5. If the numerical order of the valves needs to be changed, use the Reset Address Carrier buttons on the Maintenance screen to readdress the valves to the desired order.





Hose Reel Power Connection & Wiring

<u>Hose Reel Harnesses</u>

- 208-NAPA7578 12 Volt Battery, BCI Group 78 (Or customer provided)
- 205-2201Y1 40 Amp Y Cable (480 MP shroud x 2 480 MP tower's)
- 205-2213Y1 40 Amp 480MP Power Cable 20' 6AWG

QuickDraw Power Connections (From Power Connection Section on page 5):

- Connect the ring terminals of the 205-2213Y1 harness to the truck/tractor battery and route to the hitch or disconnection point. (May have already been completed)
- Use the appropriate length or combination of 2-pin 480MP extension cables to route from the trailer hitch to inside the QuickDraw.
- Connect the extension harness to the connector labeled *External Power*.

Hose Reel Power Connections:

- Provide battery cover and securely mount 12V dedicated hose reel battery. Connect the ring terminals of the 205-2213Y1 harness to the battery and route harness inside the QuickDraw Cabinet.
- Connect 201-4241Y1 (40A 480MP Tower x 2 480MP Shroud Y Cable) to the connector labeled *External Power* inside the QuickDraw.
- From the 201-4241Y1 (40A 480MP Tower x 2 480MP Shroud Y Cable), connect 206-02-220_Y1 (extension cable, length varies) from truck/tractor battery power supply harness and 205-2213Y1 (Fused Power Cable) from hose reel terminals.



Step 1



396-4495Y1 - QuickDraw 3000 Master Harness Overview Page 19 © 2020 SureFire Ag Systems, Inc.



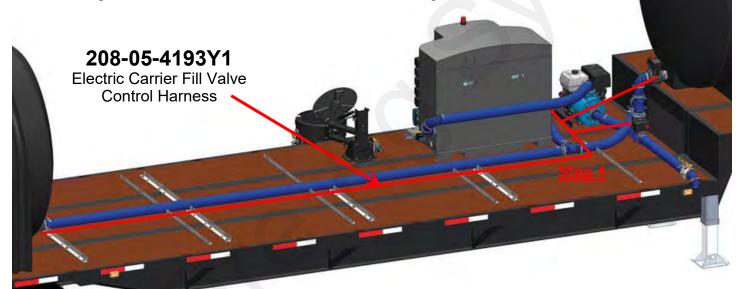
Electric Carrier Fill Valve Control Trailer Layout and Wiring

Custom Trailer Harness

- 606-04-100400 QuickDraw Trailer 3" Electric Valve Upgrade 2 Carrier Tanks
 - 208-05-4193Y1 Electric Carrier Fill Valve Control Harness
 - (2) 103-2417Y1 3" Manifold Electric Valve
- 606-04-100500 QuickDraw Trailer 3" Electric Valve Upgrade Single Carrier Tank
 - 208-05-4193Y1 Electric Carrier Fill Valve Control Harness
 - (2) 103-2417Y1 3" Manifold Electric Valve

Installation Instructions:

- 1. Route harness on trailer as shown and plug 3-pin connectors into the 3" valves. *Note: For single carrier tank installations, the rear valve won't be used.*
- 2. Connect the 2-Pin 480MP tower connector to **Pump Power** in the QuickDraw. Note: The harness is designed to extend the pump power connector for wiring the pump start/stop.
- 3. Remove 1/4" bolt for Product Valve label and install 475-4266Y1-SS QuickDraw Aux Switch mounting bracket. Mount valve switches in the mounting bracket.









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