

396-7211Y1 PR30 Pump, Orion 3 DN17 Sure Point Flowmeter Retrofit Kit Instructions



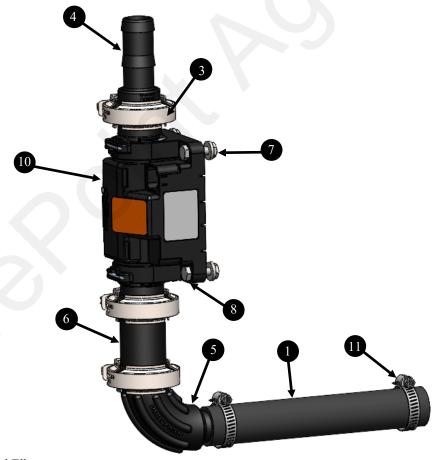
Kit Number:

500-02-2403: DN17 Orion 3 Flowmeter Retrofit Kit for PR30



Parts List and Exploded View

ITEM #	Part Number	Description	QTY
1	280-100-AG200	1" AG200 Bulk	8 in
2	105-100G-H	1" EPDM Manifold Gasket	3
3	105-FC100	1" Manifold Clamp	3
4	105-100BRB	1" Manifold x 1" HB	1
5	105-100BRBSWP90	1" Manifold x 1" HB - 90 Degree Sweep	1
6	105-100CPG	1" Manifold Coupling	1
7	323-04-SS	1/4" Flange Nut - SS	4
8	300-040100-SS	1/4" x 1" Hex Head Bolt - SS	4
9	201-5954Y1	Adaptor Cable - 3-Pin Amp Superseal to 6-Pin Deutsch Orion 3 (EMag Flowmeter)	1
10	204-01-462034A-DN17	EMag Flowmeter, Orion 3, 1.45 - 58 GPM, M100 Flange	1
11	350-1608	SS Hose Clamp - Size 16 - 1-1/2" Diameter (fits AG200)	2



Reuse Hose and Elbow already on Pump



Parts List and Exploded View

ITEM #	Part Number	Description	QTY
1	204-01-462034	EMag Flowmeter, Orion 3, 1.45 - 58 GPM, T3F	1
2	120-M100T3M	M100 to T3M for DN17 Meter	2
3	124-01-G11058-V	Viton O-Ring for T3 Fittings	2
4	124-02-010003	T3 Fork	2
5	398-20-6856Y1	Decal, EMAG (Orion 3) Flowmeter 1.45 - 58 GPM	1





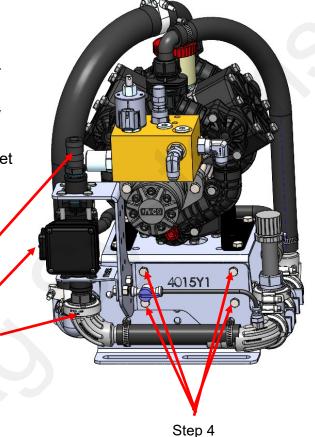
Step by Step Instructions Old Flowmeter Removal

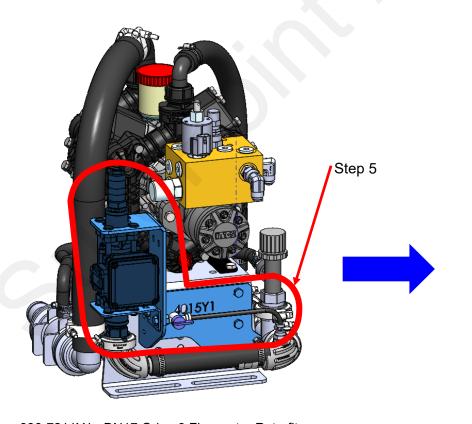
- 1. Disconnect harness from flowmeter electrical connection point.
- 2. Detach hose from flowmeter outlet. Hose and hose-clamp will be reused if possible.
- 3. Loosen 1" manifold clamp at flowmeter inlet. Elbow and hose will remain connected to pump.
- 4. Remove 4x 5/16" hex bolts holding flowmeter bracket to pump base.
- 5. Remove and discard flowmeter/bracket assembly.

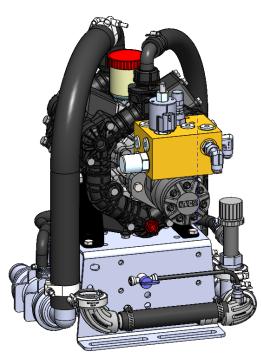
Step 2

Step 1

Step 3





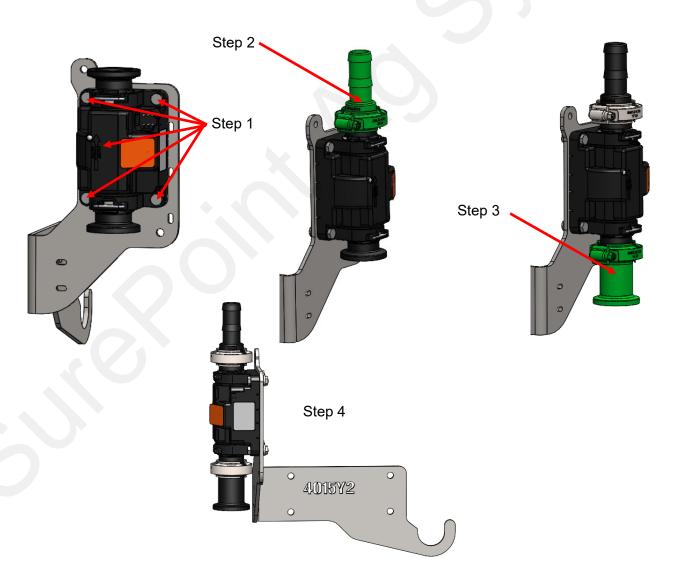




Step by Step Instructions Pre-Assembly– Flowmeter/Bracket

- 1. Attached new flowmeter assembly [204-01-462034A-DN17] to new bracket [410-4015Y2-BK], using four bolts [300-040100-SS 1/4" x 1" Hex Head Bolt SS] and nuts [323-04-SS 1/4" Flange Nut SS].

 Ensure Flowmeter flow direction arrow is pointing up.
- 2. Position 1" gasket [105-100G-H 1" EPDM Manifold Gasket], and 1" hose barb fitting [105-100BRB 1" Manifold x 1" HB] on the flowmeters outlet flange (top), and secure with 1" clamp.
- 3. Position 1" gasket [105-100G-H 1" EPDM Manifold Gasket], and 1" manifold coupling [105-100CPG 1" Manifold Coupling] on the flowmeters inlet side (bottom), and secure with 1" clamp.
- 4. Full flowmeter and bracket assembly is ready to assemble on to existing pump.

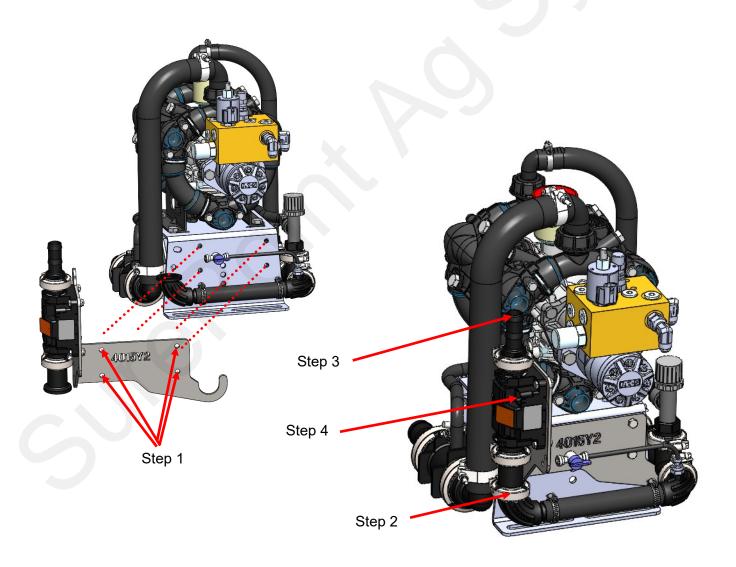


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Step by Step Instructions Assembly– Flowmeter/Bracket to Pump

- 1. Attach the new flowmeter/bracket pre-assembly to pump base, using 4 bolts [300-050012-SS 5/16" x 3/4" Hex Head Bolt SS] and nuts [323-05-SS 5/16" Flange Nut SS]. New flowmeter bracket will attach to pump base using same 4 holes in pump base that the old bracket was attached to.
- 2. Reattach 1" manifold elbow to inlet flange of new flowmeter, using gasket and clamp.
- 3. Reattach flowmeter outlet hose to flowmeter hose barb using hose clamp.
- 4. Using supplied harness adapter connect "flowmeter-labeled" harness lead to 6-pin connection point on new flowmeter.
- 5. Update flowmeter calibration number in controller settings (see next page).



PR 30 Electromagnetic Flowmeter Update Part Info Sheet

1.45 - 58 GPM Orion 3 DN17 Flowmeter P/N 204-01-462034A-DN17







6-Pin Deutsch connector

Use adapter 201-5954Y1 to connect to 3-pin AMP Superseal harness.

OR Alternate adapter 201-6647Y1 to connect to 3-pin MP Shroud

Controller- Flow Cals are listed in Pulses per Gallon unless noted	DN17 1.45-58 GPM Flow Cal Number	DN107 1.45-58 GPM Flow Cal Number with Divide by 8 Cable
Sentinel	2063	258
Commander	4126	516
Commander II	4126	516
John Deere	2063	258
Ag Leader	2063	258
Trimble	2063	258
Raven	2063	258
Topcon	2063	258
Case (ECU) Pulses per 10 Liters	Requires Divide by 8 Cable	681
Case (UCM) Pulses per Liter	545	68

Orion 3 Flowmeter will need to adapt from the 6-Pin Deutsch to the flowmeter plug on the harness. These adapters are listed on page 2.

The "Divide by 8" adapter harness must be used in applications where the controller will not accept the required flow cal number. The "Divide by 8" adapters listed on the next page could be on your system and will need to use the above flow cal number associated with your controller.

396-7211Y1 : DN17 Orion 3 Flowmeter Retrofit

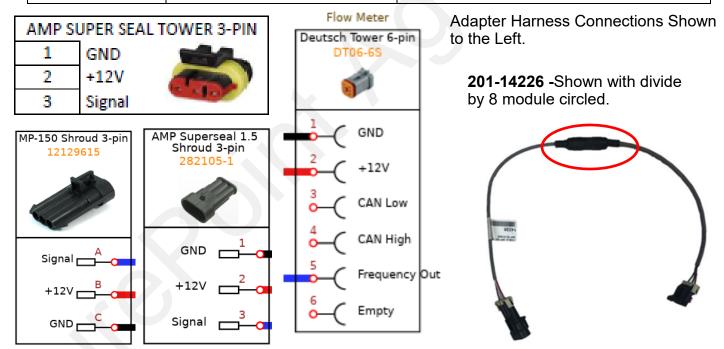
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PR30 Electromagnetic Flowmeter Update Part Info Sheet

1.45 - 58 GPM Orion 3 DN17 Emag Flowmeter P/N 204-01-462034A-DN17



Adapter Part Number	Description	Uses	
201-5954Y1	3-Pin AMP Superseal Shroud to 6-Pin Deutsch Tower	Pump final cable to Orion 3 Flowmeter	
201-6647Y1 3-Pin MP Shroud to 6-Pin Deutsch Tower		Pump final cable to Orion 3 Flowmeter used on Commander II and E-Mag Flowmeter with Blue Sticker and White Lettering.	
Divide by 8 Adapters	The "Divide by 8" adapter harness must be used in applications where the controller will not accept the required flow cal number.	Could be on your existing system and will need to use correct flow cal from chart on previous page.	
201-14226	3-Pin MP Shroud to 3-Pin MP Tower with divide by 8	Multiple Controllers	
201-17842 3-Pin MP Shroud to 3-Pin AMP Superseal Tower with divide by 8		Multiple Controllers	
201-19849 3-Pin AMP Superseal Shroud to 3-Pin AMP Superseal Tower with divide by 8		Used commonly with Case Planter with ECU	



SurePoint recommends you perform a catch test to verify the system is properly installed and configured. Adjust the flow cal as needed based on accurate catch tests with the actual product or

Warning!!!

- -Before doing any welding on the implement, unplug the cable to the flowmeter, or damage to the flowmeter may result.
- -Do not power wash the flowmeter. High pressure spray directed at the back edge of the face plate or at the wire connector may allow water into the flowmeter electronics.

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