

Dura-ABS™ Direct Injection System Assembly Guide

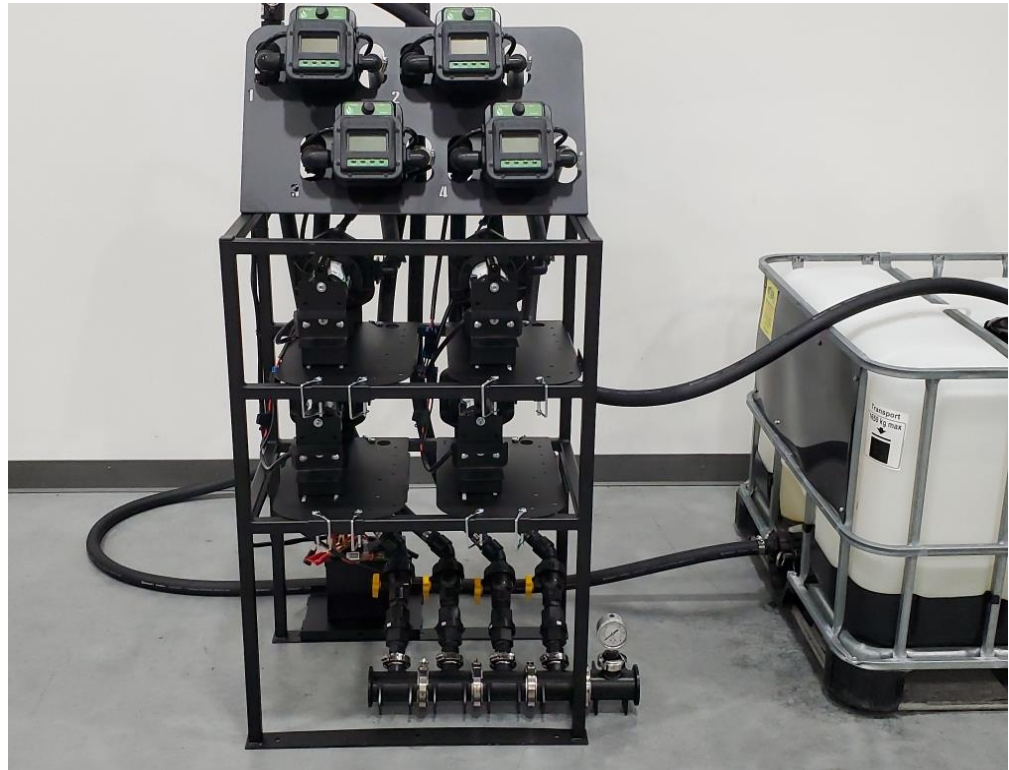
System Contents:

Dura-ABS™ Pump & Meter System. 1-4 Units

Dura-ABS™ Direct Injection System Frame. 1 unit

Dura-ABS™ DI 2" or 3" Kit. 1-4 units. (Kit to match Nbr of pumps).

Dura-ABS™ DI 2" or 3" Gauge Kit. 1 unit.



Dura-ABS™ Direct Injection System

Shown with Four (4) ABS pumps, Four (4) – 2" Kits & One (1) 2" Gauge Kit



Dura-ABS™ Direct Injection 2" Kit Assembly



Dura-ABS™ Direct Injection 2" Gauge Assembly



Dura-ABS™ Direct Injection 3" Kit Assembly



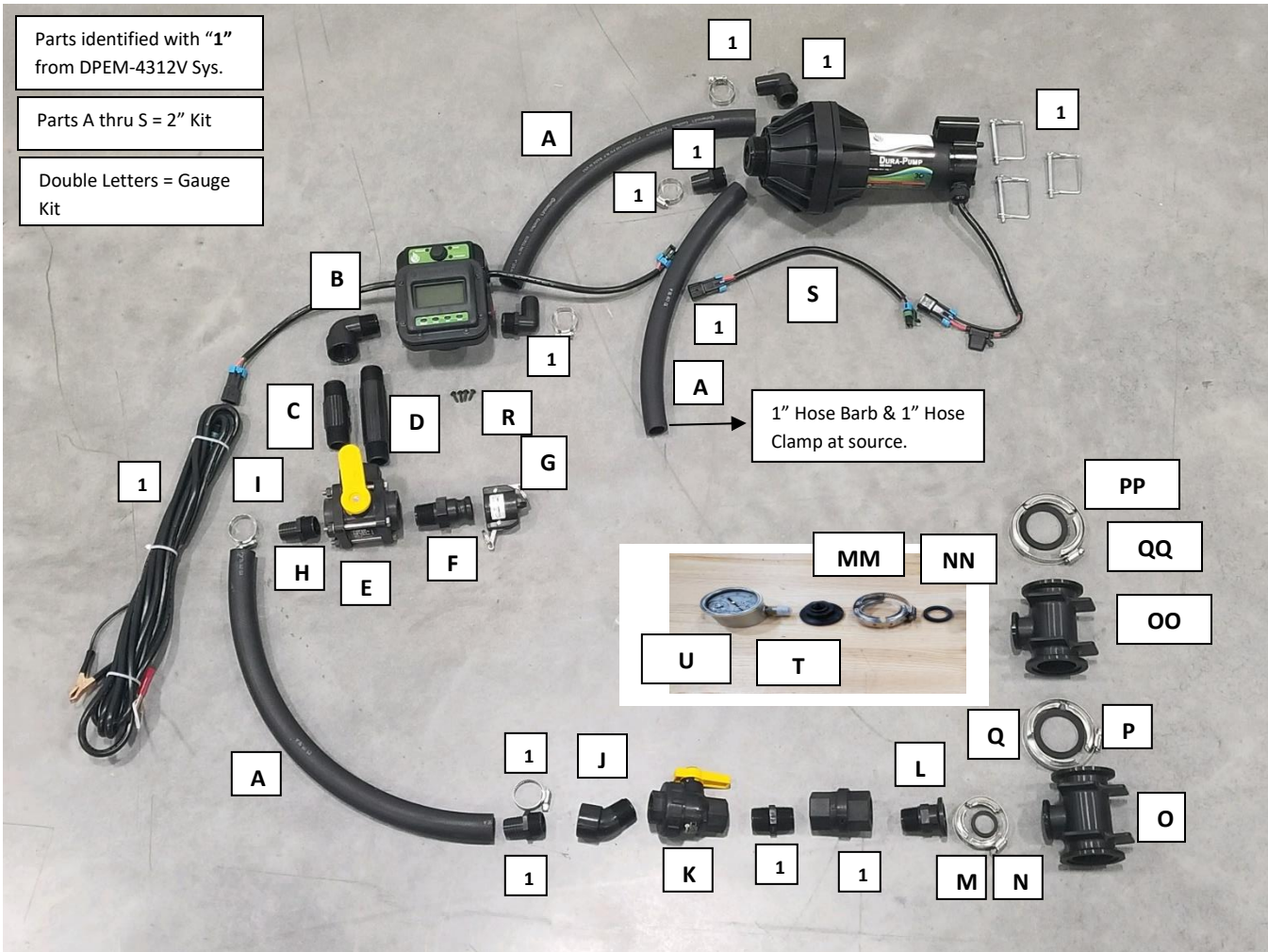
Dura-ABS™ Direct Injection 3" Gauge Assembly

Dura-ABS™ Direct Injection (DI) 2" Kit. Contents Include:

- | | | | |
|-------|-------------------------|---|--------|
| • (5) | DP-T4003raw | 1" EPDM Hose | Part A |
| • (1) | DP-BAN4001raw | 1" Street Elbow – 90-degree | Part B |
| • (1) | DP-BANNIP100-4raw | Banjo 1" x 4" Poly Nipple | Part C |
| • (1) | DP-BANNIP100-6raw | Banjo 1" x 6" Poly Nipple | Part D |
| • (1) | V100SL | Banjo 1" 3-Way Side Load Poly Valve | Part E |
| • (1) | DP-BAN100Fraw | 1" Male Adapter – 1" Male Thread | Part F |
| • (1) | DP-BAN100125CAP | 1" Cap X Male Adapter Poly Cam Lever Coupling | Part G |
| • (2) | DP-NF10PHBraw | 1" Poly Hose Barb | Part H |
| • (2) | DP-HC1000raw | 1" Hose Clamp | Part I |
| • (1) | DP-BANSL100-45raw | Banjo 1" Poly Street Elbow-45 Degree | Part J |
| • (1) | DP-BANSUV100FPrav | Banjo 1" Full Port Valve | Part K |
| • (1) | DP-BANM100MPT | 1" Flange x 1" Male Thread (NPT) | Part L |
| • (1) | DP-BANFC100 | 100 Series 1" Worm Screw Clamp | Part M |
| • (1) | DP-BANM100G | 1" EPDM Manifold Gasket | Part N |
| • (1) | DP-BANM220100TEE | 2" Full Port Flanged Tee x 1" Flanged Tee | Part O |
| • (1) | DP-BANFC220 | 220 Series 2" Worm Screw Clamp | Part P |
| • (1) | DP-BAN200G | 220 Series 2" Full Port EPDM Gasket | Part Q |
| • (4) | DP-ATF 45x1.63x14.5 | Torx Screw | Part R |
| • (1) | Pigtail / Meter-to-Pump | SP-LWA-PM1PM-3D2 | Part S |

Dura-ABS™ Direct Injection (DI) 2" Gauge Kit. Contents Include:

- | | | | |
|-------|-------------------|---|---------|
| • (1) | DP-BANM220100TEE | 2" Full Port Flanged Tee x 1" Flanged Tee | Part OO |
| • (1) | DP-BANFC220 | 220 Series 2" Worm Screw Clamp | Part PP |
| • (1) | DP-BAN200G | 220 Series 2" Full Port EPDM Gasket | Part QQ |
| • (1) | DP-BANFC100 | 100 Series 1" Worm Screw Clamp | Part MM |
| • (1) | DP-BANM100G | 1" EPDM Manifold Gasket | Part NN |
| • (1) | DP-BANM100PLG025 | 1" Flange plug with ¼" FPT | Part T |
| • (1) | DP-P4045 DI-Gauge | Pressure Gauge, 30 PSI Max 2 ½" | Part U |



Layout of Dura-ABS™ DI 2" System with 2" Gauge Kit

Assembly Steps for 2" DI System

1. Unpack DI Frame from box.
2. Assemble Meter Display to frame using the 4 Hex bolts & nuts.
3. Insert 2 tube caps on front corners of the frame.
4. Place Battery Plate on left rear side of the frame, tighten with 2 Hex nuts.
5. Unpack Pump System(s).

NOTE: Parts from the two Accessory kits in the Pump System box along with parts from the 2" DI kit will be used to assemble entire set-up.

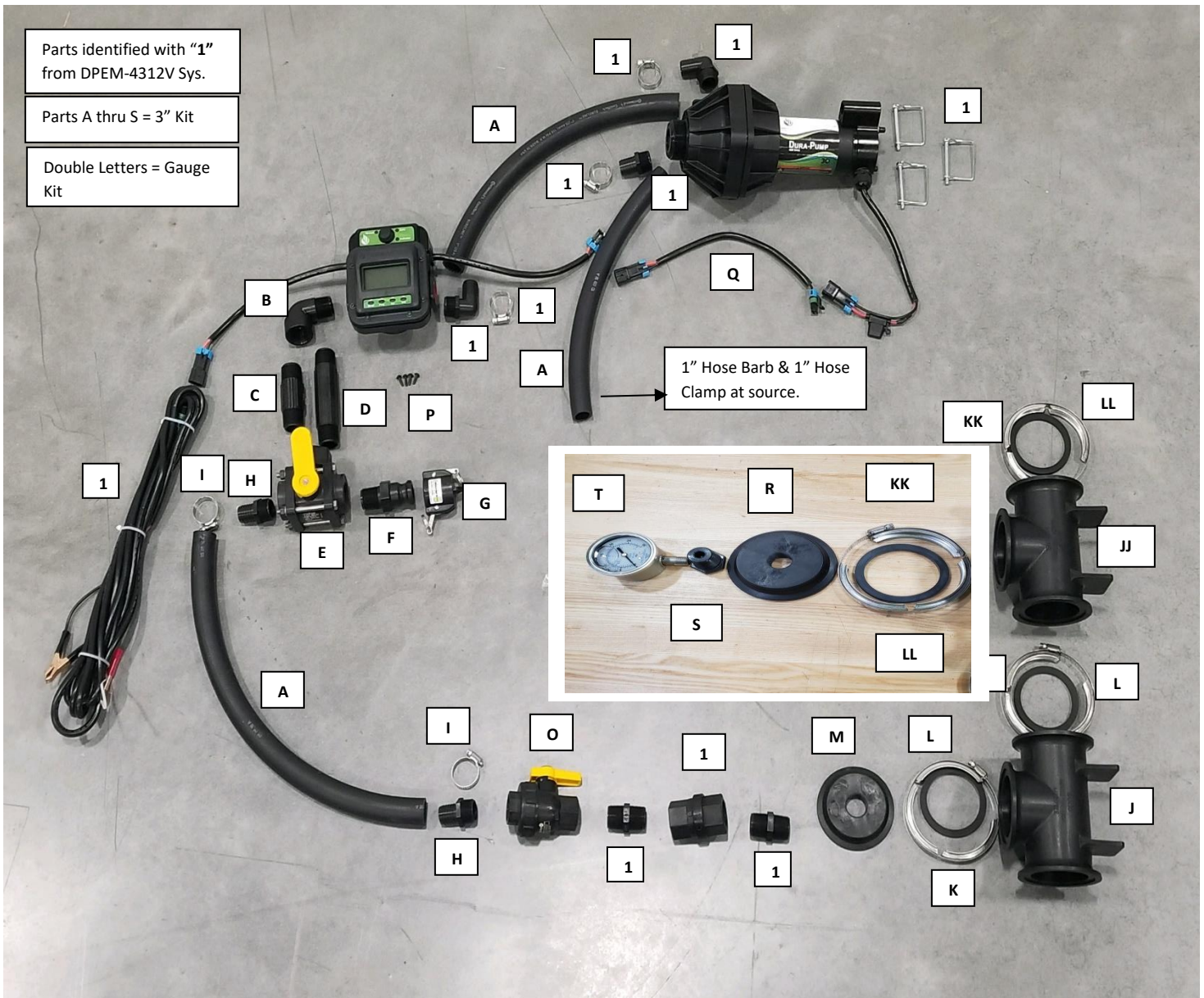
6. Using Instruction sheet from the DP-AB001 Accessory kit – (included in the pump box), plumb the pump.
7. Place pump into the DI frame, secure using 3 snap pins (1). Two in front, one in the rear.
8. Attach (B) to outlet of the meter.
9. Attach either (C) or (D) to (B).
 - a. For position 1 and 2, use (C).
 - b. For position 3 and 4, use (D).
10. Attach 1" Elbow Hose Barb (1) to the inlet of the meter.
11. Attach meter to the Meter Display using 4 Torx screws (R).
12. Insert (S) between pump power cord and the meter power cord.
13. Attach (E) to (C) or (D).
14. Attach (F) to the top of (E).
15. Place (G) on top of (F).
16. Insert (H) into bottom of the (E).
17. Attach 1" hose from inlet of meter to outlet of pump. Tighten with 1" Hose Clamp. Can cut hose to length.
18. Starting from Manifold
 - Attach (O) to (L) using parts (M) & (N).
 - Attach 1" Check Valve (1), make sure arrow on check valve points toward (O).
 - Attach 1" Poly Nipple (1) to Check Valve (1).
 - Attach Ball Valve (K).
 - Attach (J) to (K).
 - Attach 1" Hose barb (1) to (J).
 - Attach 1" hose from step 17 to the 1" hose barb (1) & tighten with 1" hose clamp (1).
19. To attach Gauge kit to Manifold
 - Attach (O) to (OO) using parts (P) & (Q).
 - Attach (T) to (OO) using parts (MM) & (NN).
 - Attach (U) to (T).
 - Attach (PP) and (QQ) to outlet of (OO).
20. Attach 1" hose from bottom of (E) to manifold.
21. Attach long power cord (I) from meter to battery.

Dura-ABS™ Direct Injection (DI) 3” Kit. Contents Include:

• (5)	DP-T4003raw	1” EPDM Hose	Part A
• (1)	DP-BAN4001raw	1” Street Elbow – 90-degree	Part B
• (1)	DP-BANNIP100-4raw	Banjo 1” x 4” Poly Nipple	Part C
• (1)	DP-BANNIP100-6raw	Banjo 1” x 6” Poly Nipple	Part D
• (1)	V100SL	Banjo 1” 3-Way Side Load Poly Valve	Part E
• (1)	DP-BAN100Fraw	1” Male Adapter – 1” Male Thread	Part F
• (1)	DP-BAN100125CAP	1” Cap X Male Adapter Poly Cam Lever Coupling	Part G
• (2)	DP-NF10PHBraw	1” Poly Hose Barb	Part H
• (2)	DP-HC1000raw	1” Hose Clamp	Part I
• (1)	DP-BANM300TEE	3” Flanged Tee	Part J
• (1)	DP-BANFC300	300 Series Worm Screw Clamp	Part K
• (1)	DP-BAN300G	300 Series EPDM Gasket	Part L
• (1)	DP-BANM300PLG100	3” Flange Plug with 1” FPT	Part M
• (1)	DP-BANSUV100FPrav	Banjo 1” Full Port Valve	Part O
• (4)	DP-ATF 45x1.63x14.5	Torx Screw	Part P
• (1)	Pigtail / Meter-to-Pump	SP-LWA-PM1PM-3D2	Part Q

Dura-ABS™ Direct Injection (DI) 3” Gauge Kit. Contents Include:

• (1)	DP-BANM300TEE	3” Flanged Tee	Part JJ
• (2)	DP-BANFC300	300 Series Worm Screw Clamp	Part KK
• (2)	DP-BAN300G	300 Series EPDM Gasket	Part LL
• (1)	DP-BANM300PLG075	3” Flange Plug with 3/4” FPT	Part R
• (1)	DP-BANRB075-025raw	3/4” MPT x 1/4” FPT Reducing Bushing	Part S
• (1)	DP-P4045 DI-Gauge	Pressure Gauge, 30 PSI Max 2 1/2”	Part T



Layout of Dura-ABS™ DI 3" System with 3" Gauge Kit

Assembly Steps for 3" DI System

1. Unpack DI Frame from box.
2. Assemble Meter Display to frame using the 4 Hex bolts & nuts.
3. Insert 2 tube caps on front corners of the frame.
4. Place Battery Plate on left rear side of the frame, tighten with 2 Hex nuts.
5. Unpack Pump System(s).

NOTE: Parts from the two Accessory kits in the Pump System box along with parts from the 3" DI kit will be used to assemble entire set-up.

6. Using Instruction sheet from the DP-AB001 Accessory kit – (included in the pump box), plumb the pump.
7. Place pump into the DI frame, secure using 3 snap pins (1). Two in front, one in the rear.
8. Attach (B) to outlet of the meter.
9. Attach either (C) or (D) to (B).
 - a. For position 1 and 2, use (C).
 - b. For position 3 and 4, use (D).
10. Attach 1" Elbow Hose Barb (1) to the inlet of the meter.
11. Attach meter to the Meter Display using 4 Torx screws (P).
12. Insert (Q) between pump power cord and the meter power cord.
13. Attach (E) to the (C) or (D).
14. Attach (F) to the top of (E).
15. Place (G) on top of (F).
16. Insert (H) into bottom of the (E).
17. Attach 1" hose from inlet of meter to outlet of pump. Tighten with 1" Hose Clamp. Can cut hose to length.
18. Starting from Manifold
 - Attach (J) to (M) using parts (K) & (L).
 - Attach 1" Poly Nipple to (M).
 - Attach 1" Check Valve (1), make sure arrow on Check Valve points toward (J).
 - Attach 1" Poly Nipple (1) to Check Valve (1), attach Ball Valve (O).
 - Attach 1" Hose barb (1) to Ball Valve (O).
 - Attach 1" hose from step 17 to the 1" hose barb (1) & tighten with 1" hose clamp (1).
19. To attach Gauge kit to Manifold
 - Attach (J) to (JJ) using parts (K) & (L).
 - Attach (JJ) TO (R) using parts (KK) & (LL).
 - Attach (S) to (R).
 - Attach (T) to (S).
20. Attach 1" hose from bottom of (E) to manifold.
21. Attach long power cord (I) from meter to battery.