DURA PRODUCTS
Technology with Lasting Value

FASTBATCH MULTIJET

QUICK-START GUIDE

Congratulations on your new FastBatch MultiJet Chemical Mixing System! Follow these simple steps to get started.

WHAT YOU NEED

- FastBatch MultiJet Skid Assembly
- Transfer Pump (if not purchased with unit)
- 12V Automotive Battery (minimum 750 CCA), alternator or charger also required
- Chemical Totes, any additional chemical jugs and/or powders

Hose to make water supply connection, note, less restriction means faster loading
A 2" or 3" cam lock fitting is included for the inlet to the high flow carrier meter, likewise use of cam lock fittings is recommended where applicable for simpler rinsing and winterization. Other connection types may be placed on the inlet, however straight fittings are required for proper meter performance.

SETUP INSTRUCTIONS

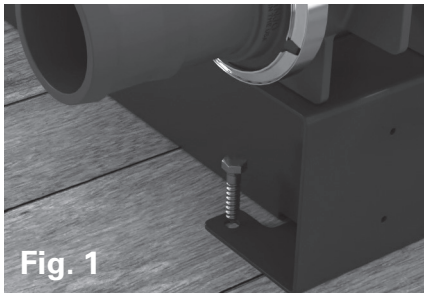
Fig. 1

1. Secure the FastBatch MultiJet
Choose a suitable location in your shop or on a tender trailer for your FastBatch MultiJet. Ensure it is fastened securely, stable and accessible. We have provided mounting screw holes in the frame (Fig.1)

Mount the Transfer Pump (if not purchased together)
Attach the transfer pump to the skid using the existing holes in the frame and included rubber isolation mounts. Ensure it is securely fastened.

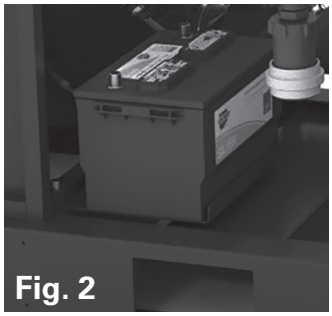
Fig. 2

Connect the Battery
Place your 12V automotive battery in the tray provided.
Use the supplied alligator clips to connect the battery;
Red to Positive, Black to Negative. Secure battery to tray (Fig.2).

Connect Chemical Totes and Water Supply
Connect your chemical totes to the injection system. Use the supplied 11' hoses with cam locks to connect at the tote's bottom valve. It's okay for the totes to be elevated above the system. The included Dura EV actuated valves will prevent leakage and eliminate the need for additional check valves. Make water connections as short and secure as possible, without tight turns or restrictions. Do not reduce 3" plumbing down to 2".

Important Plumbing Setup – Bypass
Before operating the FastBatch MultiJet, plumb a bypass hose back to the carrier supply/tank using Dura's custom pressure relief valve (Fig.3). The minimum recommended hose size is 1".


Fig. 3

The pressure relief bypass valve is located after the Auto-Batch High-Flow meter, on a tee, just before the 2" or 3" Electric Valve. **Refer to the plumbing diagram in the full user manual for more details.**

Calibrate Meters

Calibrate the carrier water AutoBatch High-Flow meter.

Calibrate each of the Auto-Batch chemical meters with the associated chemicals intended to be mixed. ***Before starting the calibration process, make sure the 1" Dura electric valves are closed with the red indicator illuminated. Disconnect the associated Dura electric valve at its' Deutsch direct plug connection (see Fig. 4). This is imperative to prevent concentrated chemical from entering the injection manifold.***


Fig. 4

For more information refer to the Dura Meter calibration guide and the meter calibration supplement at the end of this guide.

Set Batch Sizes

Set your desired carrier water batch size on the Auto-Batch High-Flow Meter (Fig.5).

Fig. 5

Configure each chemical amount per batch on the respective Auto-Batch Meters (Fig.6).

Remember it's always a good idea to keep your recipe total at least 50 gallons less than your sprayer capacity.

Fig. 6

Start Mixing

You are now ready to start making a hot load!

Start your carrier water batch with the Auto-Batch High Flow Meter (Fig.7).

Fig. 7

Start your transfer pump.

Turn on the injection tower and start your chemical meter batches, largest volume
first (Fig.8).

Fig. 8

Watch the injection manifold pressure. If above 12 PSI it can slow or even stop chemical injection. Transfer pump throttle reduction will reduce pressure (Fig.9).


Fig. 9

Induce liquid or powdered chemical at the cone tank.

Open the valve at the bottom of the tank (Fig.10).

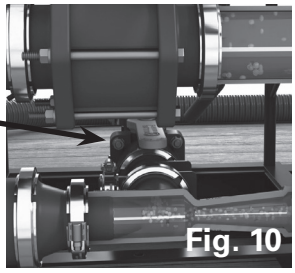
Fig. 10

The jug rinse is on the left side of the cone tank (Fig. 11).

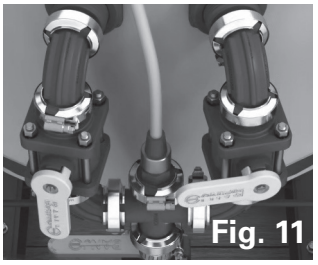
Fig. 11

The venturi will function best with the bypass valve throttled down or closed (Fig.12). Return the bypass to full open once induction is complete to expedite the balance of carrier water.

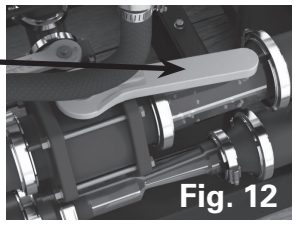
Fig. 12

Be sure to run the swirl rinse on the right side of the cone tank after each chemical (Fig. 13).

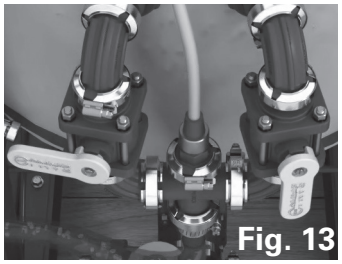
Fig. 13

When the carrier batch is completed and closes the carrier valve, shut down your transfer pump.

Your hot load is now complete.

Additional Tips

Refer to detailed user manuals for troubleshooting and advanced settings.

Always follow safety guidelines when handling chemicals.

Chemical totes can be recirculated by running hose from the calibration dry poppet back into the top of the tote. ***Before turning on the pump, make sure the 1" Dura electric valves are closed, with the red indicator illuminated. Disconnect the associated Dura electric valve at its' Deutsch direct plug connection. This is imperative to prevent concentrated chemical from entering the injection manifold. See above image for calibration for reference.*** Turn on the pump using manual control from the meter's menu. Be sure to adhere to the 30 minute max run-time.

Enjoy your efficient mixing experience with the FastBatch MultiJet!

Meter Calibration – Supplemental Information

Meter calibration is critical for accurate fluid measurement. Variations in fluid characteristics, viscosity shift due to temperature changes, plumbing differences, and varying flowrates can affect the accuracy. An accurate measurement jug or scale is important to facilitate the verification and calibration process. The Dura Products calibration jug provides an accurate, economical calibration measure for water-based fluids in small volumes. For carrier water flow, fill a tote or other large container with at least 150 gallons, using weight to determine the amount measured. Your calibration will only be as accurate as your measuring method. Another factor in accurate calibration is system prime. Both the chemical and carrier meters will read air, as well as chemicals and water. Removing all the air from the system by priming before calibration will help ensure accuracy.

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