



RoadSaver II Fiber Feeder Guide



Rayner Equipment Systems Co.

www.roadsaver.com

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Introduction

Rayner Equipment Systems division of California Pavement Maintenance Company, Inc.

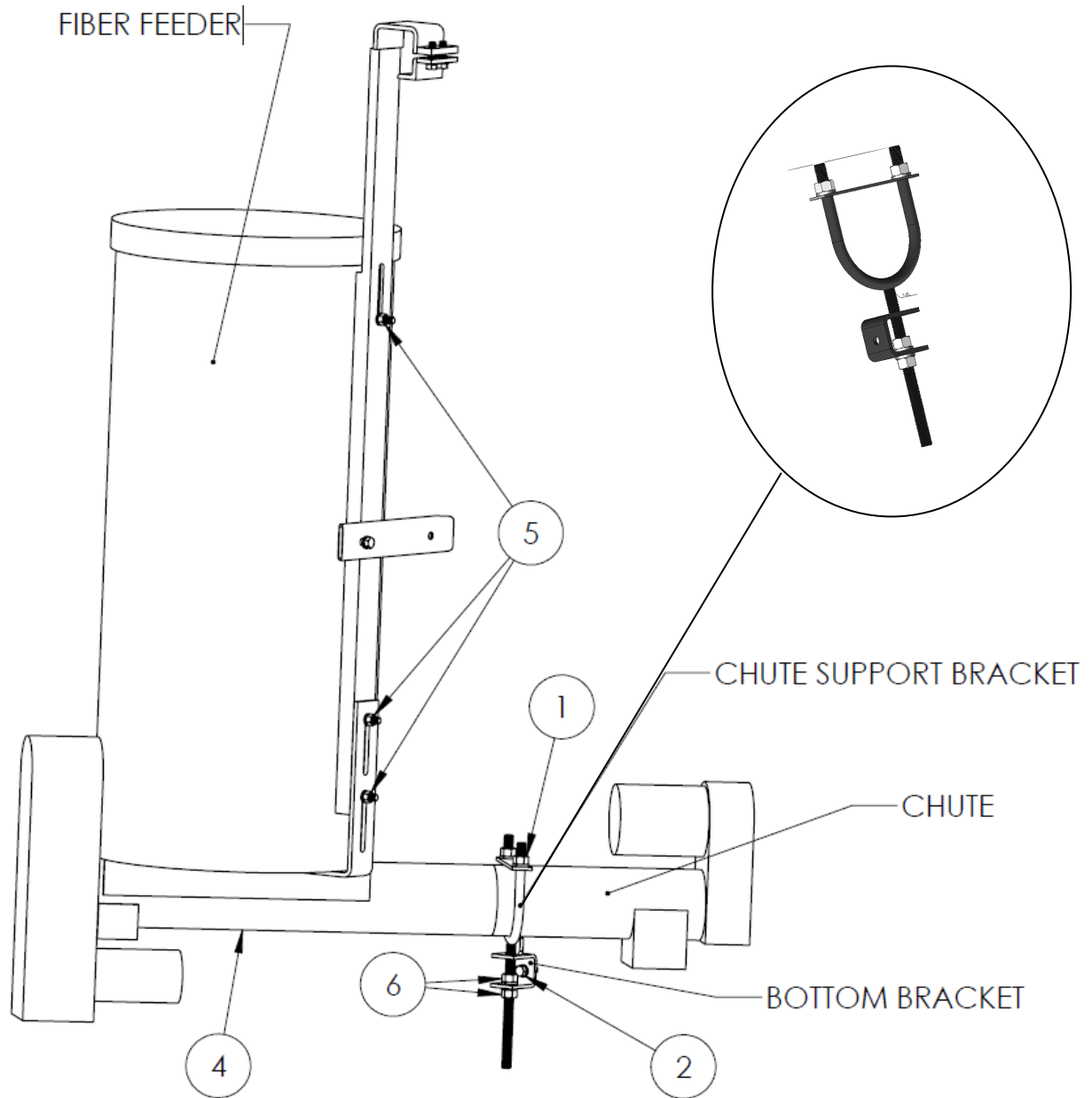
In the world market, the RoadSaver is established as the top performer for production Slurry/MicroSurfacing.

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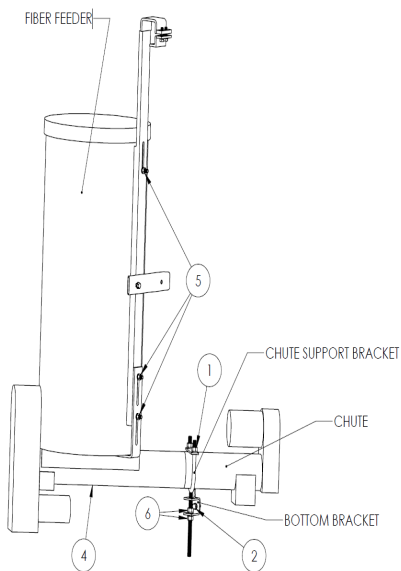


Fiber Feeder Guide RoadSaver II

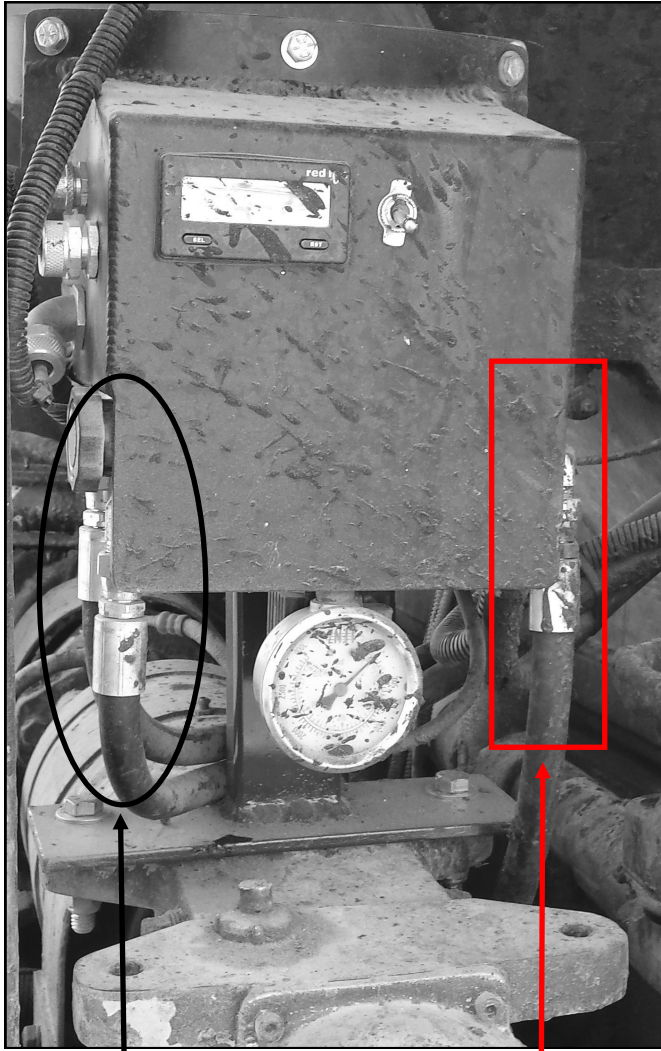


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STEP	BALLOON	DESCRIPTION
1	1	LOOSEN NUTS WITH 3/4" WRENCH AND TAP CROSS BAR LOOSE
2	2	LOOSEN BOLT WITH 9/16" WRENCH
3	3	SLIDE BRACKET OFF OF PUGMILL BOLT
4	4	MANUALLY SUPPORT FIBER FEEDER THROUGH STEP 7
5	5	LOOSEN NUTS WITH 9/16" WRENCH
6	-	ADJUST FIBER FEEDER VERTICALLY
7	5	TIGHTEN NUTS WITH 9/16" WRENCH
8	6	LOOSEN NUTS WITH 3/4" WRENCH UNTIL BRACKET CAN BE PLACED BACK ON PUGMILL BOLT
9	2	PLACE BOTTOM BRACKET BACK ON PUGMILL BOLT AND LOOSELY TIGHTEN
10	6	ADJUST NUTS UNTIL CHUTE SUPPORT BRACKET CONTACTS BOTTOM OF CHUTE AND THEN TIGHTEN
11	2	FULLY TIGHTEN PUGMILL BOLT WITH 9/16" WRENCH
12	1	TIGHTEN NUTS UNTIL JUST SNUG

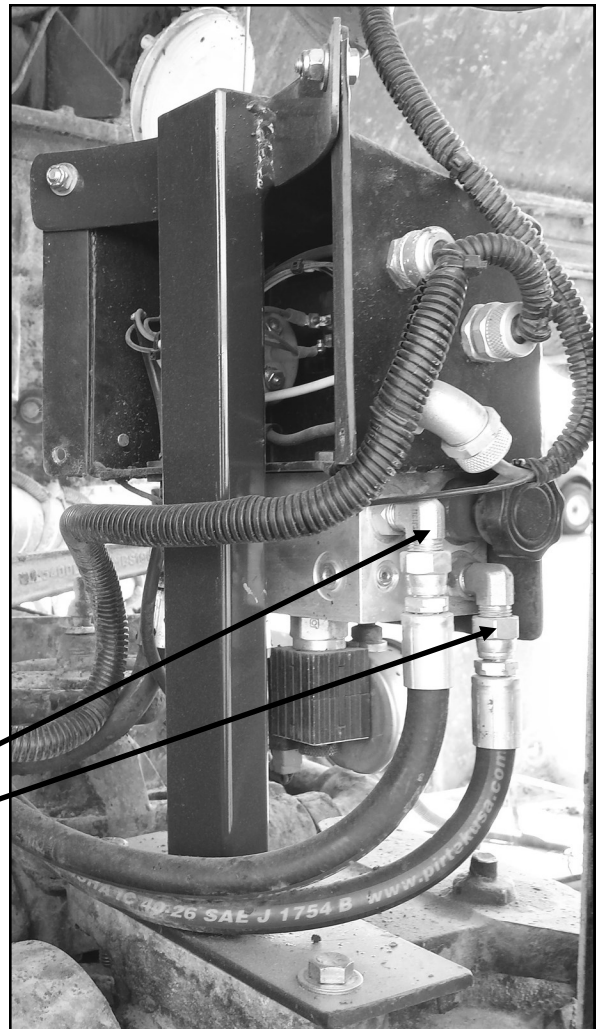
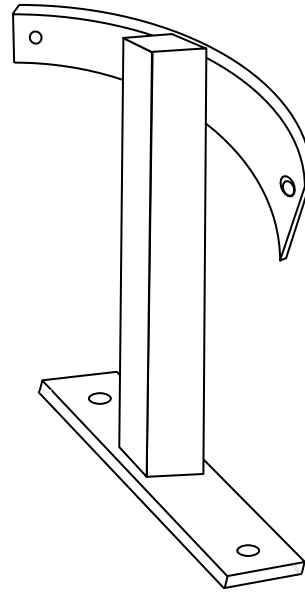


Fiber Feeder Guide RoadSaver II



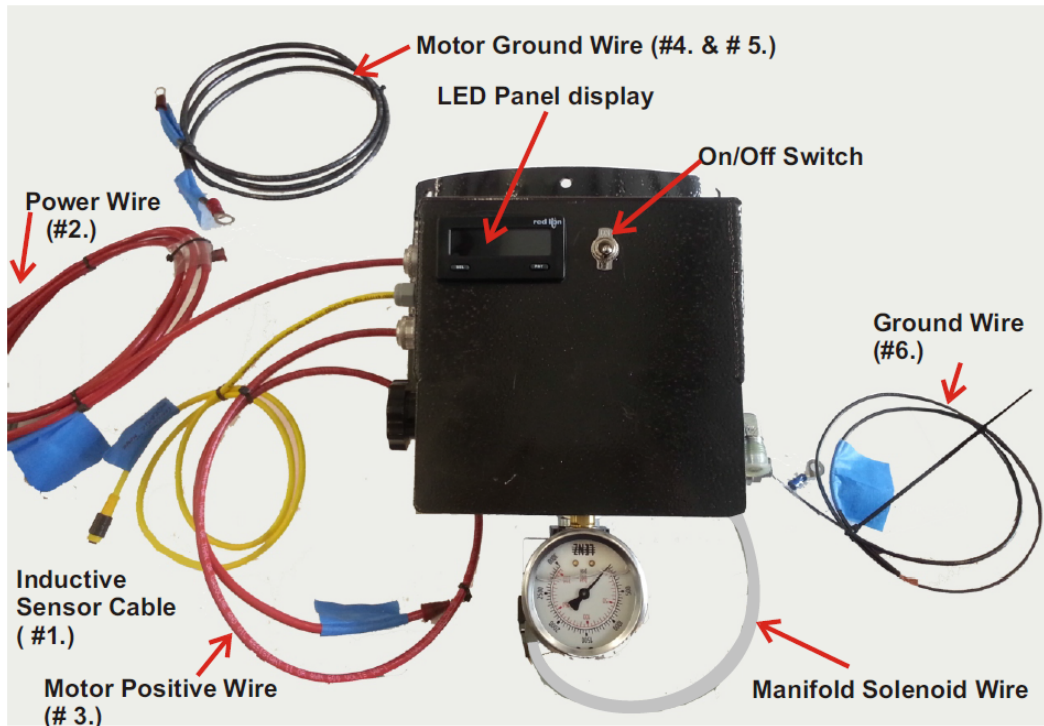
Motor ports

Pressure/Return ports



Motor ports

Step 4. Hooking up the electronics.

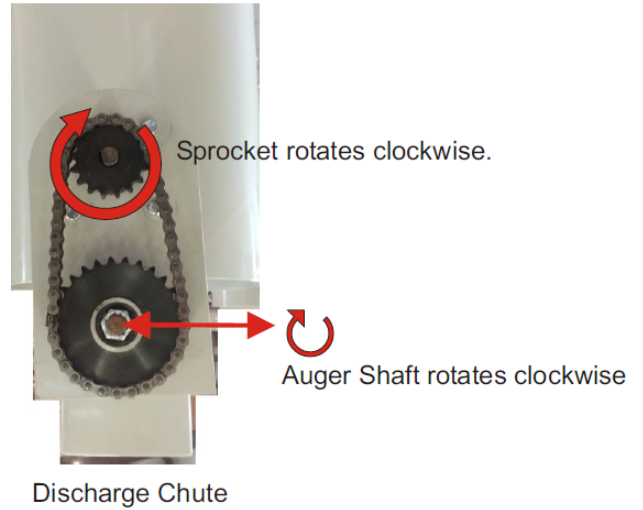


After the box is mounted to the dispenser, and the hydraulic hoses are mounted into place, the following connections need to be made.

1. Connect the yellow sensor cable (#1.) to the inductive sensor mounted onto the flange of the dispenser's hydraulic motor.
2. Connect the red wire (#2.) coming out of the top of the box to the 12v power source.
3. Connect the short red wire (#3.) from the bottom of the box to the 12VDC motor.
4. Connect one end of the black motor ground wire (#4.) to the 12VDC motor.
5. Connect the other end of the black motor ground wire (#5.) to the ground.
6. Connect the loose end of the black ground wire #6.) to the ground.
7. After all of the wires have been connected, turn on the 12VDC power supply and the main the hydraulic pump and then flip the power switch to the "on" position. The dispenser's auger motor and the 12VDC motor should turn and the LED panel display should illuminate.
8. The auger shaft and the 12VDC sprocket should both turn clockwise (see next page for testing an calibration).
9. If the LED panel display zero RPM's, turn the knob on the pressure compensated flow control valve.

Testing & Calibration

Both the auger shaft and the 12VDC sprocket turn clockwise.



Nomad Fiber Dispenser Calibration Guide for Slurry / Micro Surfacing

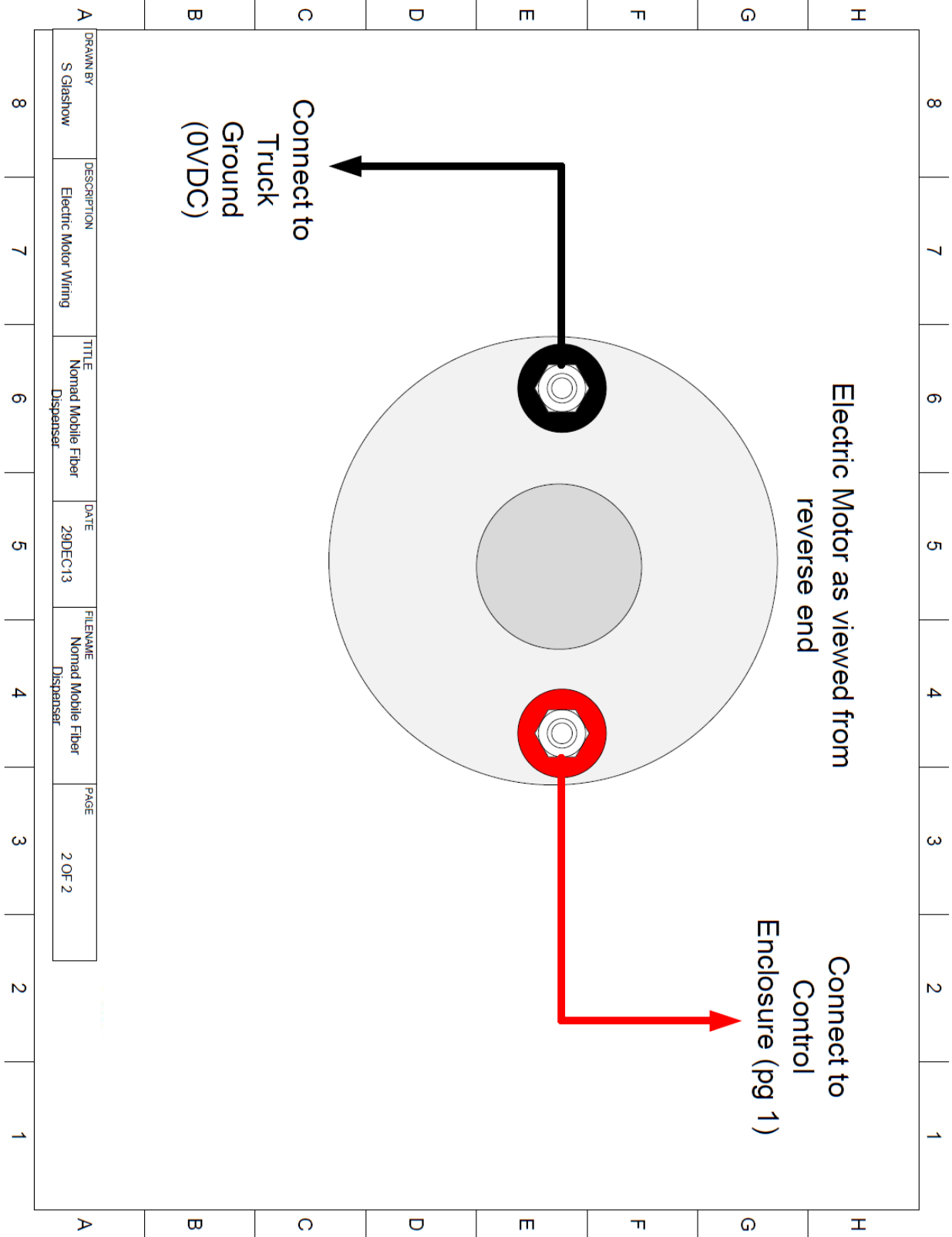
Aggregate / Minute	0.15%	0.20%	0.25%	0.30%	Motor RPM	Yield
2000	3.0	4.0	5.0	6.0	30	4.0
2500	3.8	5.0	6.3	7.5	40	6.0
3000	4.5	6.0	7.5	9.0	50	8.0
3500	5.3	7.0	8.8	10.5	60	10.0
4000	6.0	8.0	10.0	12.0	70	12.0
4500	6.8	9.0	11.3	13.5	80	14.0
5000	7.5	10.0	12.5	15.0	90	16.0

Color Ledged
Fiber as a percentage of Aggregate
Aggregate discharge per minute
Pounds per minute of Fiber needed from the dispenser
Motor RPM
Approximate pounds per minute dispensed

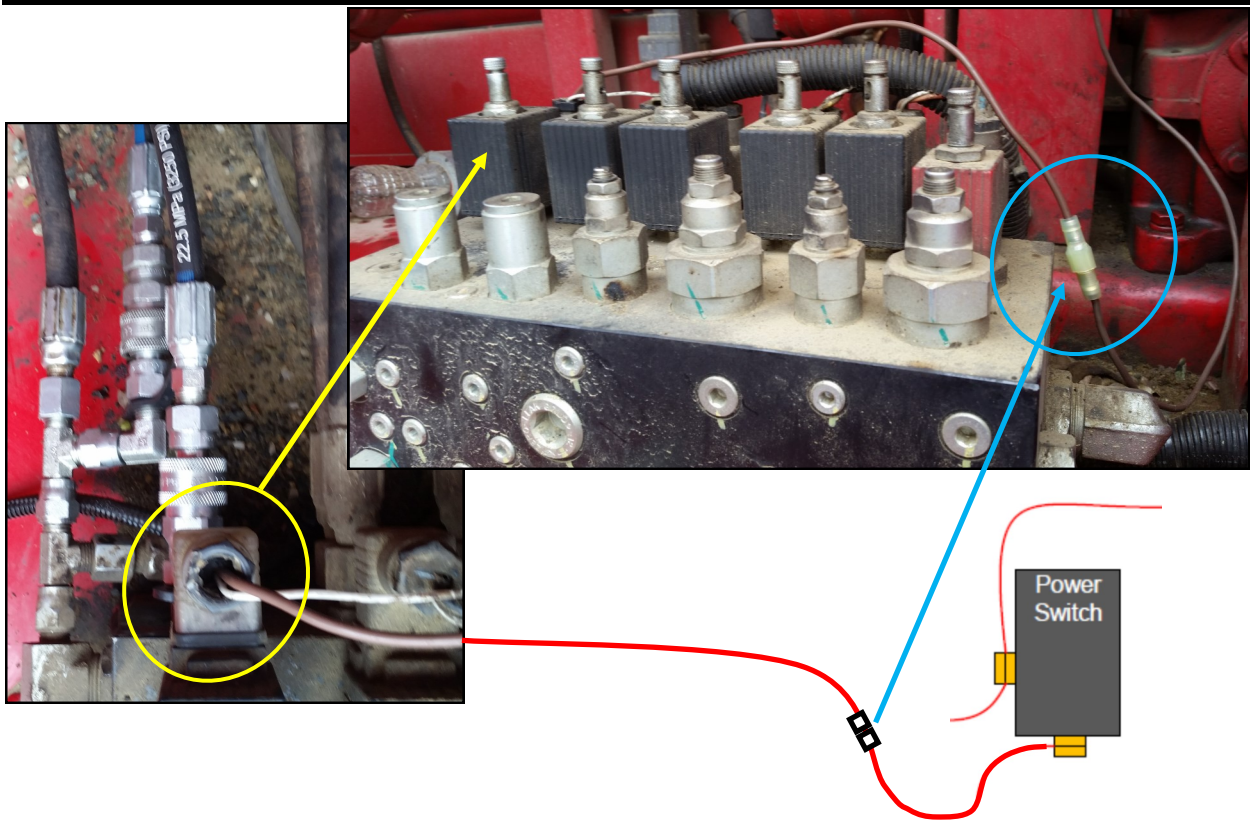
Instructions: Find the percentage of fiber specified in your mix design (yellow field). After calibrating your paver, determine the amount of aggregate you will be discharging (blue field). Then find the amount of fiber per minute you need (gray field). Go to the yield column (orange field) then move to the Motor RPM (green field) to determine the dispenser motor speed.

Note: After each dispenser is installed, we recommend that you run several calibration test to confirm your desired yield.

Fiber Feeder Guide RoadSaver II



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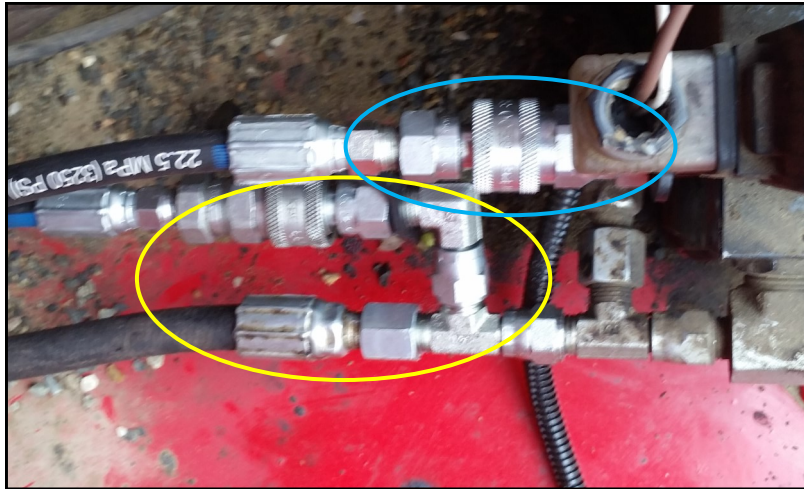
Make the electrical connections as shown here.

1. Connect the “VMFF Power Switch” inlet wire to the Conveyor/Clutch DIN connector. Use a shielded spade connector in line as shown below for ease of removal.

2. Connect the Supply power of Fiber Feeder control panel to the night light port as shown in the upper RH picture. (Alternate location is the output side of the RoadSavers System Power Solenoid.)



Fiber Feeder Guide RoadSaver II



Make the hydraulic connections as shown here.

1. Add an inline tee to the Tank return line as shown in the yellow circle. Then add a 90 and QD for ease of attaching the Fiber Feeder when needed.
2. Add a QD to the outlet port off the Conveyor/Clutch as shown in the blue circle.
3. Add mating QD's to the auger drive motor to assist in attaching/removing the Fiber Feeder from the RoadSaver. Green circle below.



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Just the beginning!

