ROUBLESHOOTING GUIDE		
<u>Symptom</u>	Problem	Solution
Scale drops off/ doesn't show up	Digistar VT does not show up on home page	Check Digistar ISO connection, the 6 pin Deutsch connector (18" whip out the bottom of the SL2140 ISO control box) for corrosion/damage/bad connection.
		Remove cover (4 screws) on the SL2140 ISO. On the right side there should be 4 blue LED on, and the 3 status LED on the left side should be off.
		Check system voltage, on Montag screen, under diagnostic button, under ECU, voltage should be 12.2V or greater.
		Check ISO Connector at tractor for corrosion/connection.
		Restart tractor, let screen power up for 20 sec before start- ing tractor.
		Verify all ISO connections are correct. Verify correct ISO terminations are in place.
		If using a monitor that requires a USB key for data, try a different USB key, or try removing it.
Digistar VT good, not on Montag home page	Scales not set up	Verify scale system setting is set to "Yes" on Montag VT.
Scales showing errat- ic readings	Possible bad Scale Link ISO node, j-box, or load cell	Verify correct Digistar Cal # for both tanks are setup 115030 and cal 5333.
U		Remove 2 blank plugs and check for moisture. Blow out j-block if moisture to see if problem goes away.
		If customer using grease, clean with alcohol. Grease draws moisture and should not be used with scales.
		Look for areas of tank hang-up or binding so as load cells not getting actual weight
		Use GT 400 interactive troubleshooting guide and watch trouble shooting video under controller info tab on Montag website for troubleshooting diagnostics.
		If testing load cell by tap test, if bad will jump 1000-2000 lbs.
Calculated weight and actual weight off	Set-up incorrect	In hopper screen equalize weights and recheck.
		Check cal factor correct, check density of the product with Density scale.
		Check # of rows and total implement width.
		Configure a new product and retry.
		Example set-up 200lb/ac, 5 mph, 65lb/ft3, 12 row, 30' total width, Cal factor .03, the auger speed should be 31 ± 1 RPM auger speed.

	Calibration factor off Calibration does not stay on	Do calibration test- either catch or no-catch test. Test must be started with fan on and ended with fan on. Also start and stop on level ground for scale accuracy.
		Verify no sheared couplers.
		Verify hydraulic motor drive shaft couplers are properly connected.
		May have bridging issue. Consider turning air pressure down a little at a time. If have access to a camera, put a camera on the augers to see if they run empty (bridging). By shutting off the fan, the auger will fill back up.
Montag screen	Montag VT does not show up	Check ISO Connector at tractor for corrosion/connection.
drops off/doesn't show up	on home page	Restart tractor, let screen power up for 20 sec before start- ing tractor.
		Verify all ISO connections are correct. Verify correct ISO terminations are in place.
		If using a monitor that requires a USB key for data, try a different USB key, or try removing it.
		Make VT1 post monitor and VT2 Armrest (Deere only).
		Check Digistar ISO connection, the 6 pin Deutsch connector (18" whip out the bottom of the SL2140 ISO control box) for corrosion/damage/bad connection.
		Delete object pool on monitor.
		If other ISOBUS controllers are on system, unplug to see if just Montag and Digistar come online
Controller not work-	Erratic and inconsistent results from controller	Delete object pool on monitor.
ing		Check system voltage, on Montag screen, under diagnostic button, under ECU, voltage should be 12.2V or greater.
Slide gate will not	Slide gate will not function	Make sure hydraulics are engaged.
open		If in road mode, push road mode button to get to applica- tion mode.
		Check slide gates from diagnostics screen.
		Verify solenoid and position sensor harness connections are good and harness is in good condition.
	Slide gates open/close oppo- site controller	If hydraulics were disconnect and reinstalled backwards, or harness remove and red and green wire swapped.
No Product being delivered -All rows	Fan not turning	Verify all tractor hydraulic couplers are fully engaged.
		With tractor off and key removed, see if fan rotates by hand. If fan is not binding on housing, and does not rotate by hand, replace fan motor.
		Fan not calibrated or out of calibration. Calibrate per in- structions in ISO Dry Rate Controller Operation Manual.

	Fan air gauge pressure less than 12 inch H2O	Fan rotation must be clockwise (CW) when viewed from the screen side of fan. If rotation is not CW, see Hydraulic Schematics in Montag manual and plumb as shown for your machine.
		If analog gauge reads correct, but digital transducer reads incorrect, calibrate air sensor following instructions in man- ual.
		Set gap between fan and shroud to 1/4 inch (6MM).
		Check for any air leaks in plenum tray or air chambers or anywhere in system.
	Augers turn wrong direction	Augers must turn CCW. Check hydraulic schematic and verify each hydraulic motor is in correct position.
		Check all augers and clean out system. Close slide gate and run meters in diagnostics mode. Check all augers for rota- tion and replace any sheared couplers. Clean out hoses and make sure air is coming out each hose at toolbar before starting to apply fertilizer.
	Auger(s) not turning	Confirm fan is running. Augers will only turn while fan is running. Confirm augers are not obstructed. Safely remove any obstructions by following instructions in Montag opera- tions manual.
		Check controller set-up is complete with correct product info (density, cal factor, rate, ground speed is registering.
		If using prescriptions, verify mapping is in correct format and entered correctly. Verify prescription icon is by rate on home screen, and a non-zero target rate is on display side.
		Turn off section control on your monitor. If augers turn, then your monitor/prescription is shutting it off. Be sure you are inside your boundary and not in an already applied area.
		Shut slide gate and run meters in diagnostic screen. If still does not run, set meters to 100% and check for 12 VDC at PWM valve. If 12 VDC, then check hydraulic motor to see if motor turning, but coupler slipped off. If no voltage, look for harness damage. If augers turn but no RPM, check encoder harness for given tank. Test for 12 VDC on pins 1 & 3 of encoder harness.
	Master switch/ work switch not set-up correctly	Follow instructions in manual for correct set-up. Work switch icon on status line will toggle on/off when toolbar is lowered/raised. When master is toggled on the off master icon on the meter will switch to augers and section boxes will become lit.
	Problem with encoder or PWM valve	Shut slide gate and run meters in diagnostic screen. If still does not run, set meters to 100% and check for 12 VDC at PWM valve. Look for harness damage. If augers turn but no RPM, check encoder harness for given tank. Test for 12 VDC on pins 1 & 3 of encoder harness. Remove plastic cap over encoder motor shaft to verify hydraulic flow at encoder motor. If 12VDC and motor turning replace sensor in motor. Follow replacement instructions (entire motor must be re- turned w/ speed sensor unadjusted if still under warranty).

	Controller not seeing speed	Check that controller is seeing speed and correct speed when machine is moving. Verify GPS and display is properly set-up and functioning.
No Fertilizer in 1 or more rows	Couplers sheared	Check all augers and clean out system. Close slide gate and run meters in diagnostics mode. Check all augers for rota- tion and replace any sheared couplers. Clean out hoses and make sure air coming out each hose at toolbar before starting to apply fertilizer. See instructions for calculated and actual weight off. If using bin chaining, verify set-up correct ly as directed in controller operations manual. Combined auger speeds should be less than 130 RPM.
	Product Bridging	With fan still running look at auger cartridge for bridging or obstruction which does not allow product to flow evenly. Shut off fan and then back on to see if issue persists.
		Air pressure may be too high.
		Open/close slide gate.
		Product is too moist or has too many fines.
	1 tank or 1 section	Check set screw on coupler is in and tight. If not, it may hit the side of trough and lock up motor.
Not holding rate	Alarm "Metering drive cannot maintain target rate"	Check for correct product info (density, cal factor, rate).
		Augers RPM should be between 5-105 range.
		Verify correct ground speed.
		Adjust meter amplification factor.
		Add a new product with correct numbers.
		Clear object pool by following monitor manufacturers in- structions.
		Power cycle controller.
		Verify correct cal factor for that specific meter.
		May need to increase ground speed if running to low of an auger speed (under 10 RPM).
One tank not hold- ing rate	Set-up incorrect	Check for correct product info (density, cal factor, rate).
	Bad speed sensor cable	Shut slide gate and run meters in diagnostic, verify shaft RPM's for both tanks.
		Check all harnesses and harness connections to motor en-
		coders and PWM valves.

Section Control not working	Sections turn off, but will not go back on	If running an Ag Leader, verify target rate entered on both Ag Leader and Montag.
		If section box gray with red X, then touch button again to shut off manual section button.
		If section box red, then map or controller is turning section off. If in a already applied area, section will be red. Move to an area not applied yet. If a prescription is loaded, move within map area.
		Verify look ahead and implement geometry settings are correct.
Mapping not work- ing	Layers not set-up correctly	Contact monitor dealer for set-up instruction for 2 product application. Typical for JD monitors.
Rate is not correct	Using Bin chaining	Follow instructions in controller operations manual. Total auger RPM must be under 130 RPM to prevent plugging.
Download box will	Not plugged in correctly	Make sure LED's are lit on download box
not load	Other implements plugged in after MDRC	Unplug any other implement plugged into Montag ISO Connection (located under Montag ECU).
Prescription not showing up	Map does not show up on JD side 4600-4640	Make sure products associated and mapped on JD side.
	Map does not show up on JD side 2630	Delete object pool.
		Update 2630.