

Table of Error Codes



<u>Code</u>	<u>Information or Fault Description</u>	<u>Comments and Corrective Action</u>
0810	TILLER FAULT-1	For all Throttle Potentiometer Circuit Diagnostic Codes:
0811	TILLER MAX WIPER DIFFERENCE ERROR	1- Check throttle wiring for shorts or opens. Repair or replace as necessary.
0812	TILLER MAX PULL DOWN DIFFERENCE ERROR	2- If Diagnostic Code is not cleared, then replace throttle.
0813	TILLER MAX PULL SAFE DIFFERENCE ERROR	" " " "
0814	TILLER REFERENCE ERROR	Throttle displaced during start up. Check throttle springs (Riders) or drive switches (ES or CPs)
0815	TILLER LO REFERENCE ERROR	1- Check throttle wiring for shorts or opens. Repair or replace as necessary.
0816	TILLER HI REFERENCE ISO ERROR	2- If Diagnostic Code is not cleared, then replace throttle.
0817	TILLER LO REFERENCE ISO ERROR	" " " "
0818	TILLER ERROR BOTH HAVE READINGS	" " " "
1310	EXCESSIVE CURRENT TRIP	Current draw of all output devices connected to TRIO+ exceeded 250 amp maximum limit.
1311	SOFT AUX1 OVERCURRENT OCCURRED	Brush Actuator on Aux-1 exceeded 21 amp max. current limit. Check wiring or replace device.
1312	SOFT AUX2 OVERCURRENT OCCURRED	Squeegee Actuator on Aux-2 exceeded 21 amp max. current limit. Check wiring or replace device.
1313	SOFT AUX3 OVERCURRENT OCCURRED	Water Pump on Aux-3 exceeded 7 amp max. current limit. Check wiring or replace device.
1314	SOFT AUX4 OVERCURRENT OCCURRED	Water Solenoid on Aux-4 exceeded 7 amp max. current limit. Check wiring or replace device.
1318	SOLUTION TANK EMPTY	Solution Tank Empty signal from float switch
131C	SOFT ALARM OVERCURRENT OCCURRED	Alarm circuit exceeded 2 amp max. current limit. Check wiring or replace device.
1321	AUX1 OVERCURRENT 2 OCCURRED	Device connected to Aux-1 exceeded 12 amps for > .1 sec. Check wiring or replace device.
1322	AUX2 OVERCURRENT 2 OCCURRED	Device connected to Aux 2 exceeded 12 amps for > .1 sec. Check wiring or replace device.
1411	ERROR AUX 1 POSITIVE SHORTED_LOW	Check Brush Actuator Motor and wiring. Repair or replace as necessary.
1412	ERROR AUX 1 NEGATIVE SHORTED LOW	Check Brush Actuator Motor and wiring. Repair or replace as necessary.
1413	ERROR AUX 2 POSITIVE SHORTED LOW	Check Squeegee actuator and wiring. Repair or replace as necessary.
1414	ERROR AUX 2 NEGATIVE SHORTED LOW	Check Squeegee actuator and wiring. Repair or replace as necessary.
1500	BRAKE FAULT OPEN CIRCUIT	Check Electric Brake circuit for a faulty connection.
1501	BRAKE FAULT 2	Check Electric Brake circuit for a faulty connection.
1507	BRAKE OVER CURRENT ERROR	Check Brake circuit wiring and brake. Repair or replace as necessary.
1600	HIGH BATTERY ERROR	Battery is overcharged or damaged. Replace battery.

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1D02	FRONT END SPEC CHANGE TRIP	Drive parameters have been reprogrammed. Cycle power with key switch.
1E03	INHIBIT ACTIVATED	Solution Tank Empty - Check float switch if tank is not empty
1E04	INHIBIT ACTIVATED2	Recovery Tank full
1E06	INHIBIT INPUT OUT OF RANGE	Invalid Inhibit signal. Check wiring and device. Repair or replace as necessary.
2C00	LOW BATTERY ERROR	Battery Charge to low. Recharge battery.
2C01	LOW BATTERY ERROR2	Battery Charge to low. Recharge battery.
2C02	SOFT BATTERY LOCKOUT OCCURRED	Battery Charge to low. Recharge battery.
2C03	SOFT BATTERY LOCKOUT 2 OCCURRED	Battery Charge to low. Recharge battery.
2F01	TILLER DISPLACED ERROR	Throttle displaced on Power-up. Release throttle and then re-engage throttle.
3A00	BAD SETTINGS	Illegal program parameter settings.
7000	STARTUP WITH PUSH SELECTED	Freewheel Input signal detected at startup. Disconnect Freewheel input.
7001	PUSH ACTIVATED IN DRIVE MODE	Freewheel Input signal activated while driving. Disconnect Freewheel input.
7500	TILLER COMMS TIMEOUT	Problem with LCD Module or wiring. Repair or replace as necessary.
7600	SOFT BRUSH MOTOR DISCONNECTED ERROR	Check Brush Motor wiring and connectors
7601	SOFT BRUSH CURRENT FOLDBACK	Too much Brush Pressure/Current. Check for jammed Brushes or Deck or Brush motor short.
7602	SOFT BRUSH CURRENT FOLDBACK2	Too much Brush Pressure/Current. Check for jammed Brushes or Deck or Brush motor short.
7603	SOFT BRUSH CURRENT FOLDBACK3	Too much Brush Pressure/Current. Check for jammed Brushes or Deck or Brush motor short.
7604	SOFT BRUSH INHIBIT	Brush Inhibit signal is active.
7605	BRUSH STARTUP OVERCURRENT DETECTION	Possible Brush motor problem or shorted brush circuit wiring.
7700	SOFT VACUUM MOTOR DISCONNECTED ERROR	Check Vacuum Motor wiring and connectors
7701	SOFT VACUUM CURRENT FOLDBACK	Too much Vac motor current. Check for shorted Vac motor or wiring.
7702	SOFT VACUUM CURRENT FOLDBACK2	Too much Vac motor current. Check for shorted Vac motor or wiring.
7703	SOFT VACUUM CURRENT FOLDBACK3	Too much Vac motor current. Check for shorted Vac motor or wiring.
7800	TRACTION MOTOR FAULT-1	Check Traction Motor wiring and connectors
7801	TRACTION MOTOR OVER CURRENT ERROR	Too much Traction motor current. Check for shorted Traction motor or wiring.
7802	TRACTION MOTOR IN FOLDBACK STATE	Traction Motor was overloaded for too long, Control limiting current to protect motor.
7803	MOTOR LINE VOLTAGES INSTABILITY TIMEOUT	Possible Traction Motor or loose wiring problem.
7804	TRACTION MOTOR IN DRIVE BOOST	Traction Motor under heavy load or Current Limit / Foldback parameters set too low.
7880	TRACTION SPEED INPUT OUT OF RANGE	Check Throttle Potentiometer and wiring.

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Code	Description	Corrective Action
7900	EMERGENCY STOP ERROR	Emergency Stop function activated.
7901	SOFT BELLY BUTTON ACTIVATED	Safety Bar switch is activated. (ES and CP models only)
8000	SERVICE MODE	Service Timer limits have been reached.
9000	BRUSHES NOT FITTED	Check Brush Deck to make sure Brushes are fitted properly.
0003		For All of these Diagnostic Codes:
0100		1- Turn Off Key switch and disconnect batteries.
0204		2- Wait 1 minute.
0705		3- Reconnect Batteries and turn On Key switch.
0706		4- If Diagnostic Code is not cleared, then replace TRIO+ / TRIO+HD control.
0A01		
0B02		<u>IMPORTANT!</u>
0B0B		TRIO+ / TRIO+HD can be damaged internally by shorting Batt+ to any of it's Inputs or Outputs. Check Wiring Harness for shorts before installing a replacement Control.
1704		If replacement control fails, then replace Wiring Harness before installing any more Controls.
1705		
1706		
1800		
1802		
1B20		
1B21		
2102		
2103		
2D01		
3100	Shorted Circuit	Check For Shorts on the Brush and Drive Motor Circuits. Also Water inside of motors.
3101		
3102		
3103		
3104		
3105		