QUICK REFERENCE TO TROUBLESHOOTING

Item	Section-Page No.	Symptom	Probable Cause	Corrective Action
Service Brake Switch	4001-7, 8	System will not operate in either direction.	Faulty switch.	Replace switch.
Ballast Lamp	4001-7, 9	Lamp not operating.	Switch in wrong position.	Place switch in correct position.
			Faulty relay.	Replace relay.
			Faulty ballast / lamp.	Replace ballast / lamp.
			Faulty switch.	Replace switch.
			Faulty or corroded wiring.	Check wiring, repair or replace as needed.
Front Work Lamps	4001-7, 9	Lamps not operating.	Faulty relay.	Replace relay.
			Switch in wrong position.	Place switch in correct position.
			Faulty lamp(s).	Replace lamp(s).
			Faulty switch.	Replace switch.
			Faulty or corroded wiring.	Check wiring, repair or replace as needed.
Head Lights	4001-7, 9	Lights not operating.	Switch in wrong position.	Place switch in correct position.
			Faulty relay.	Replace relay.
			Faulty light(s).	Replace light(s).
			Faulty switch.	Replace switch.
			Faulty or corroded wiring.	Check wiring, repair or replace as needed.
Auxiliary Boom Lights	4001-7, 9	Lights not operating.	Switch in wrong position.	Place switch in correct position.
			Faulty relay.	Replace relay.
			Faulty light(s).	Replace light(s).
			Faulty switch.	Replace switch.
			Faulty or corroded wiring.	Check wiring, repair or replace as needed.
Tail / Brake Lights	4001-7, 10	Tail / Brake lights not operating.	Faulty relay.	Replace relay.
			Faulty fuse.	Replace fuse.
			Faulty bulb.	Replace bulb.
Horn	4001-7, 10	Horn not operating.	Faulty fuse.	Replace fuse.
			Faulty or corroded wiring.	Check wiring, repair or replace as needed.
			No air supply to solenoid.	Check air supply.
			Faulty solenoid.	Replace solenoid.

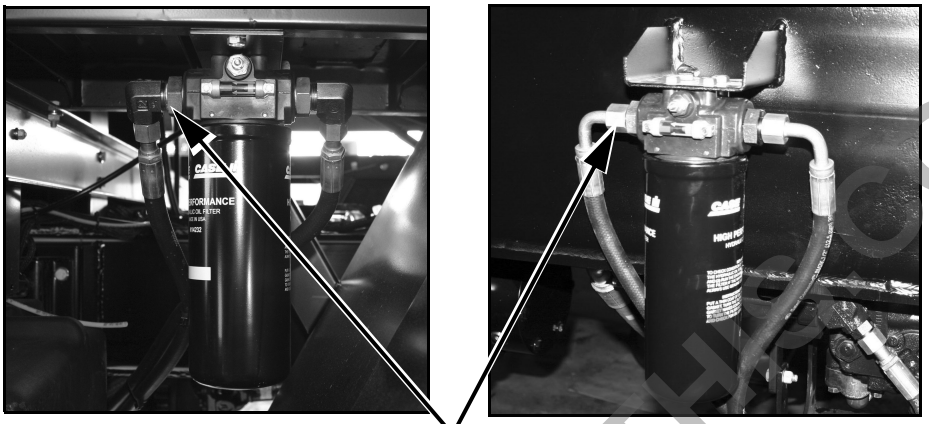
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HYDRAULIC SYSTEM

Charge Pressure Ports

The FLX810 hydraulic pump has a remote mounted charge filter. Depending upon the ease of access, you can install pressure gauges on either the pump adapter or at the remote filter location. The reading we want is the pressure reading from the “after filter” port, so take the necessary precautions when installing gauges.



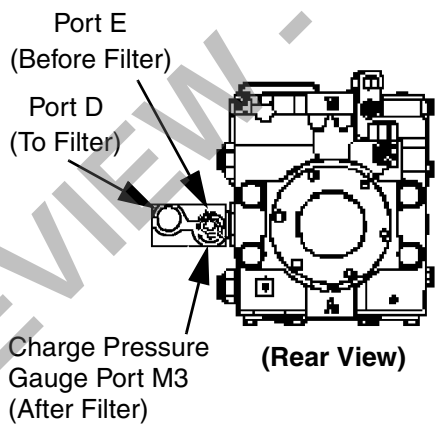
4 WHEEL CHASSIS

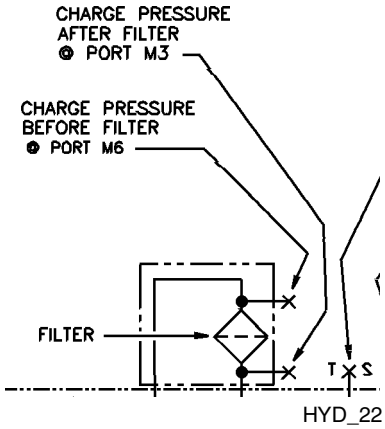
This is the “after filter” port. Note the filter head has arrows showing the direction of flow.

3 WHEEL CHASSIS

Test Ports
M3 - After pressure filter, Use 600 or 1000 psi gauge.
M6 - Before pressure filter, Use 600 or 1000 psi gauge.

Charge pressure reading is taken using the M3 port. Pump rpm for this test is to be 1775. Hydraulic oil temperature should be 120 degrees F (49 degrees C) and the unit should be in neutral with the parking brake applied and the fan switch in the “off” position.





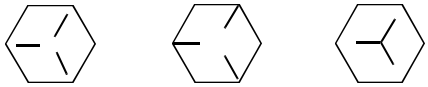
Charge pressure setting for this unit should be 350 psi. (See Sauer charge pressure chart on page 6). The specified charge pressure setting is achieved by subtracting the case pressure port gauge reading from the actual charge pressure port gauge reading.

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TORQUE SPECIFICATIONS - DECIMAL HARDWARE

Use the torques in this chart when special torques are not given. These torques apply to fasteners with both UNC and UNF threads as received from suppliers dry, or when lubricated with engine oil. Not applicable if special graphites, Molydisulfide greases, or other extreme pressure lubricants are used.

Grade 5 Bolts, Nuts and Studs		
		
Size	Pound-Inches	Newton Metres
1/4 inch	108 to 132	12 to 15
5/16 inch	204 to 252	23 to 28
3/8 inch	420 to 504	48 to 57
Size	Pound-Feet	Newton Metres
7/16 inch	54 to 64	73 to 87
1/2 inch	80 to 96	109 to 130
9/16 inch	110 to 132	149 to 179
5/8 inch	150 to 180	203 to 244
3/4 inch	270 to 324	366 to 439
7/8 inch	400 to 480	542 to 651
1.0 inch	580 to 696	787 to 944
1-1/8 inch	800 to 880	1085 to 1193
1-1/4 inch	1120 to 1240	1519 to 1681
1-3/8 inch	1460 to 1680	1989 to 2278
1-1/2 inch	1940 to 2200	2631 to 2983

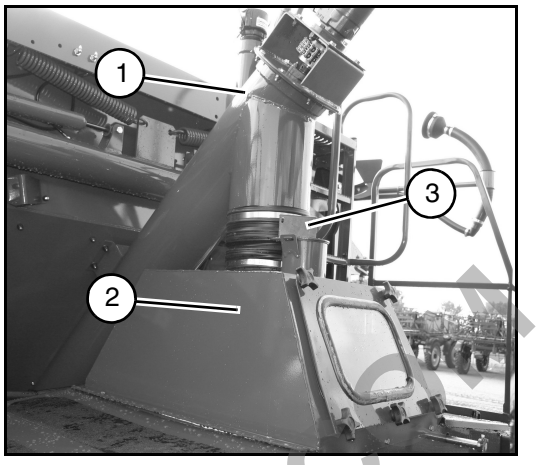
Grade 8 Bolts, Nuts and Studs		
		
Size	Pound-Inches	Newton Metres
1/4 inch	144 to 180	16 to 20
5/16 inch	288 to 348	33 to 39
3/8 inch	540 to 648	61 to 73
Size	Pound-Feet	Newton Metres
7/16 inch	70 to 84	95 to 114
1/2 inch	110 to 132	149 to 179
9/16 inch	160 to 192	217 to 260
5/8 inch	220 to 264	298 to 358
3/4 inch	380 to 456	515 to 618
7/8 inch	600 to 720	814 to 976
1.0 inch	900 to 1080	1220 to 1465
1-1/8 inch	1280 to 1440	1736 to 1953
1-1/4 inch	1820 to 2000	2468 to 2712
1-3/8 inch	2380 to 2720	3227 to 3688
1-1/2 inch	3160 to 3560	4285 to 4827

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PRODUCT DELIVERY SYSTEM (PDS)

The 8” auger (1) moves the product from the main bin and drops the product into the PDS (2). Located in the top of the conveyor hopper is a bin level sensor (3). The bin level sensor commands the auger to turn on and off as needed to maintain the proper amount of product on the conveyor belts. The conveyor belts move the product under a metering gate and then past a set of dividers so the product is distributed evenly as it drops into the 10 drop tubes.



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Conveyor Belt(s)

Conveyor belt hydraulic motors do not operate.

Solenoid malfunction - Repair or replace solenoid.

Conveyor motor malfunction - Repair or replace motor.

Conveyor hydraulic pump not set or working properly - Repair or reset pump.

Case IH Control System is set improperly - See the Case IH Control System manual.

Conveyor belts running too slow.

Conveyor belt slipping - Increase tension on conveyor belt.

Belt revolution sensor malfunction - Make sure sensor is secured to shaft and check connections for loose pins or corrosion.

Case IH Control System is set improperly - See the Case IH Control System manual.

Conveyor belts have debris build up under the belts - Clean the affected area.

NOTE: *If there is a debris build up under the belts, wash the affected area with hot water and a the proper grade cleaner. If this is not effective the belt cartridge may need to be removed to properly clean it.*

RH/LH belt will not stop when switch is shut-off.

Switch malfunction - Replace switch

Solenoid malfunction - Replace solenoid.

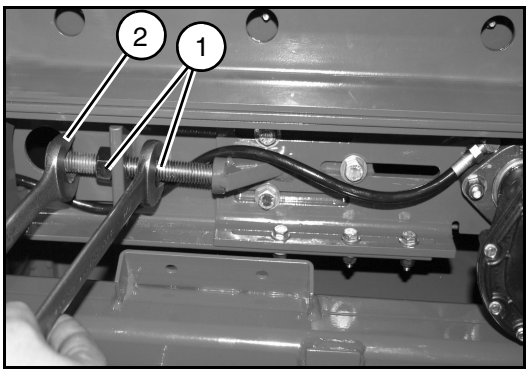
NOTE: *For more troubleshooting procedures, see Quick Reference to Troubleshooting in section 5000 Hydraulic System.*

Adjusting Belt Tension

NOTE: *When adjusting conveyor belt tension, both conveyor idler take-up bearings must be adjusted evenly. Premature wearing of the belts will occur if the belts are not tracking properly.*

Loosen locking nuts (1) tighten the take up bearing rod (2) keeping track of revolutions tightened, retighten both locking nuts. Repeat procedure on opposite side tightening the take up rod equally. After running conveyor, check conveyor to make sure the belts are centered on the rollers.

NOTE: *Conveyor belts should be checked periodically to make sure belts are centered on rollers*.



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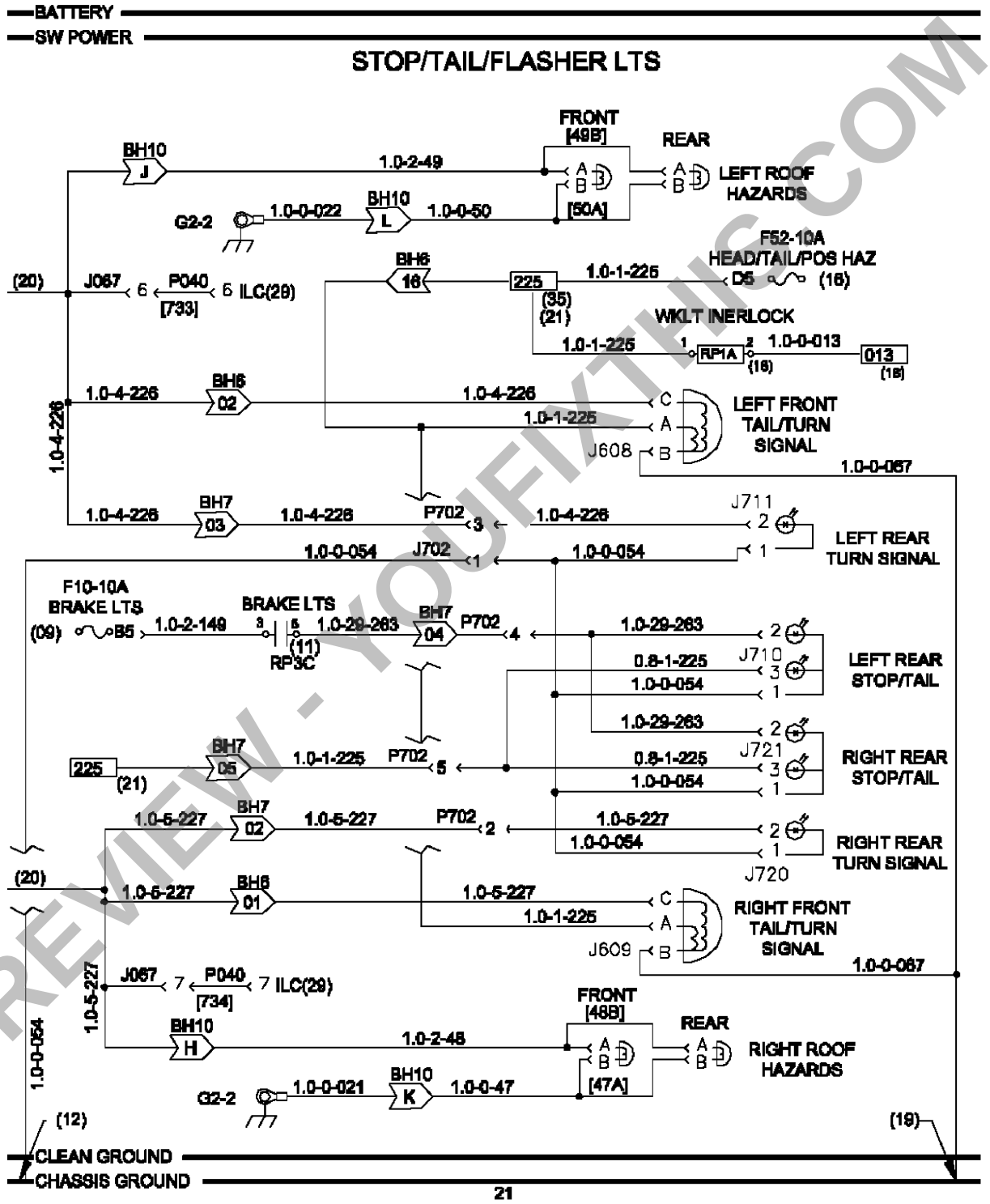
TROUBLESHOOTING GUIDE CASE IH SCS 4600

Problem	Corrective Action
1. No Display with power “ON”.	Check fuses in console cabling. Check battery connections. Hold key 2 to darken LCD contrast. Return Console to your Dealer for service.
2. A digit cannot be entered via Keyboard.	Return Console to your Dealer to replace keypad.
3. Console displays flashing “CAL” whenever vehicle engine is started.	Check battery voltage and battery connections.
4. Console displays flashing “CAL” whenever master switch is turned ON or OFF.	
5. Console displays flashing “CAL” whenever speed is changed.	
6. “TIME” function is inaccurate or drifting.	Verify Console is connected to 12V continuous power. Return Console to Dealer to replace Processor Board Assembly.
7. One display digit has one or more missing segments.	Return Console to Dealer to replace LCD Display Board Assembly.
8. Speed Display “0”.	Check Speed Sensor cable connector and plug on back of Console for loose pins. Clean pins and sockets on Speed Sensor cable connectors.
9. Speed inaccurate or unstable (Speedometer Drive Speed Sensor).	Wiggle cable at the Speed Sensor connector. If speed is displayed, tighten connector or replace Transducer Assembly. Check Speedometer Cable Adapter, Key and Transducer Assembly for proper connections and engagement. Check for kinked speedometer cable or to sharp of bend. Replace Speedometer Transducer Assembly.
10. Rates read “0”.	Verify SPEED is registering accurately. If SPEED is zero, refer to Troubleshooting Problem 8. Verify TOTAL VOLUME is registering flow. If not, refer to Troubleshooting Problem 14. Enter a typical speed in SELF TEST. With Boom 1 ON and MASTER ON, verify AREA/HOUR is registering. If not, check wiring from console to BOOM switch.
11. Rate inaccurate or unstable.	Verify that all calibration numbers and settings keyed into the Console are correct. Verify SPEED is registering accurately. If SPEED is inaccurate, refer to Troubleshooting Problem 9. In MAN (manual) operation, verify that the RATE display holds constant. If not refer to Troubleshooting Problem 15. In MAN (manual) operation, check low end high end pressure range. Pressure range must be per initial system set-up. If pressure cannot be adjusted manually, refer to Troubleshooting Problem 14. If problem persists, return Console to Dealer for service.
12. Cannot vary rate in Manual Operation or in Auto.	Check cabling to motorized Control Valve for breaks. Check connections in cabling for cleanliness. Verify that there is voltage at the valve connector by placing MASTER switch ON; AUTO/MAN switch TO MAN; and POWER ON. Manually operate INC/DEC switch to verify voltage. Verify that valve is turning, if not, replace Control Valve.
13. Sprayer pressure is correct but rate is low.	Verify that nozzle strainer screens or check valves are not plugged. Verify that pressure at each boom is the same. Verify all nozzles are of proper and same orifice size. See page 14 of Installation Manual.

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Stop / Tail / Flasher Lights



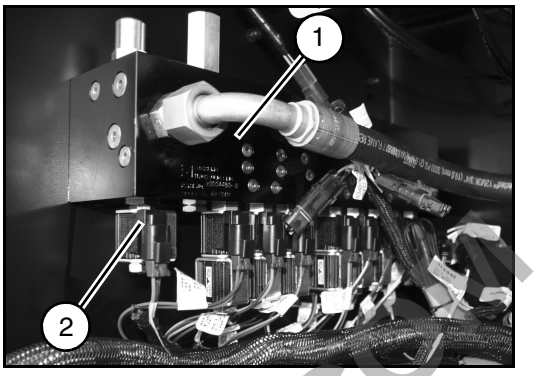
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Boom Control Valve Bank

The Boom Control Valve Bank (1) is located on the front wall of the hydraulic box, mounted mid-ship on the left hand side of the chassis.



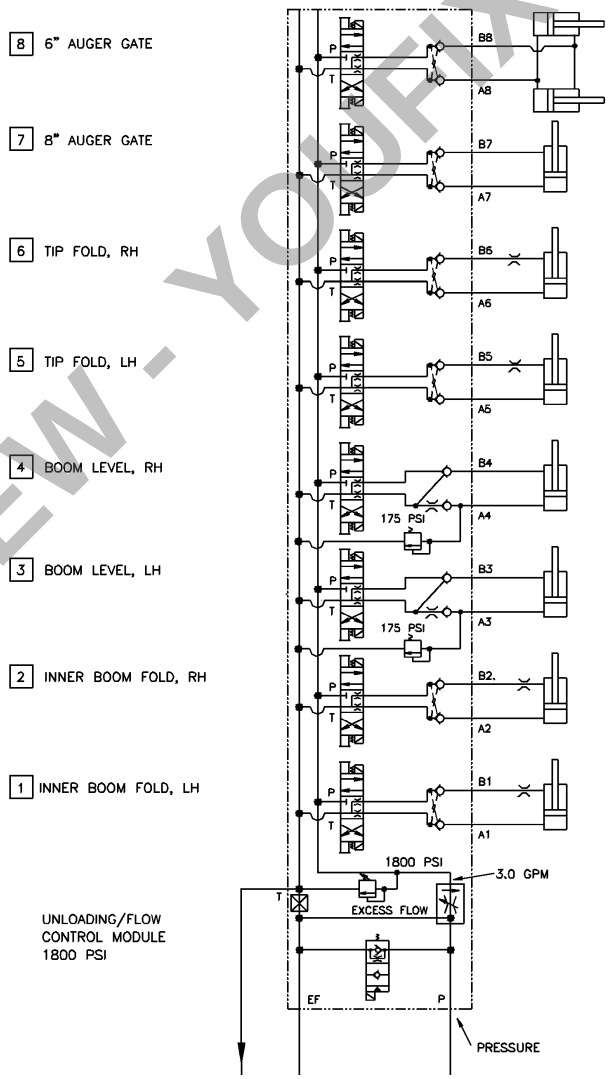
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NOTE: *This manifold is available in either 7 or 8 sections, depending on the applicator configuration.*

NOTE: *This manifold controls the left and right inner boom fold, the left and right boom level, the left and right tip fold, and the auger gates (8" and 6" if the unit is configured with supplemental augers).*

Oil enters the valve bank through the "P" port and as long as no functions are activated, the oil exits the valve through the "EF" port, as the unloader cartridge allows the oil to exit the valve rather than remain deadheaded in the manifold.

Once a function is activated, the unloader coil/cartridge (2) combination is energized and the direct path to the "EF" port is blocked. At this point, the oil passes through a flow control that only allows 3 gpm to continue on downstream. The rest of the oil flow is ported out the "EF" port.



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TORQUE SPECIFICATIONS - METRIC HARDWARE

Use the following torques when specifications are not given.

These values apply to fasteners with coarse threads as received from supplier, plated or unplated or when lubricated with engine oil. These values do not apply if graphite, Molydisulfide greases, or oil is used.

Grade 8.8 Bolts, Nuts, and Studs



Size	Pound-Inches	Newton Metres
M4	24 to 36	3 to 4
M5	60 to 72	7 to 8
M6	96 to 108	11 to 12
M8	228 to 276	26 to 31
M10	456 to 540	52 to 61

Size	Pound-Feet	Newton Metres
M12	66 to 79	90 to 107
M14	106 to 127	144 to 172
M16	160 to 200	217 to 271
M20	320 to 380	434 to 515
M24	500 to 600	675 to 815
M30	920 to 1100	1250 to 1500
M36	1600 to 1950	2175 to 2600

Grade 10.9 Bolts, Nuts and Studs



Size	Pound-Inches	Newton Metres
M4	36 to 48	4 to 5
M5	84 to 96	9 to 11
M6	132 to 156	15 to 18
M8	324 to 384	37 to 43

Size	Pound-Feet	Newton Metres
M10	54 to 64	73 to 87
M12	93 to 112	125 to 150
M14	149 to 179	200 to 245
M16	230 to 280	310 to 380
M20	450 to 540	610 to 730
M24	780 to 940	1050 to 1275
M30	1470 to 1770	2000 to 2400
M36	2580 to 3090	3500 to 4200

Grade 12.9 Bolts, Nuts and Studs



Usually the torque values specified for grade 10.9 fasteners can be used satisfactorily on grade 12.9 fasteners.

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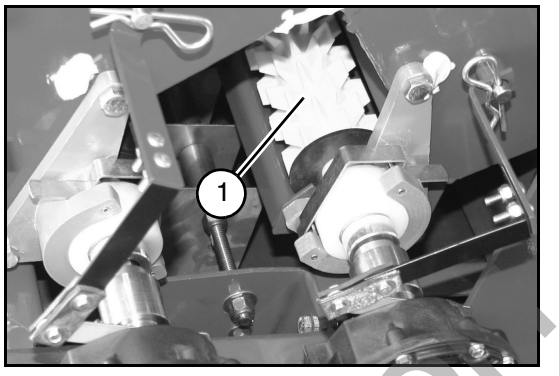
METERING WHEELS

There are three different types (colors) of metering wheels (1) and size/color will depend on desired application rate.

1. BLACK - Low Rate
2. RED - Medium Rate
3. YELLOW - High Rate

NOTE: *If the entire wheel assembly is not desired, individual star wheels may be purchased and replaced.*

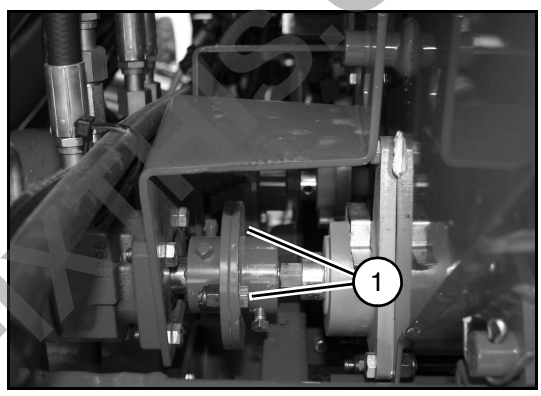
NOTE: *Metering wheels must be inspected on a regular basis for wear or material build up, clean metering wheels if material build up has occurred. Application rates may be low if wear or build up on metering wheels has occurred.*



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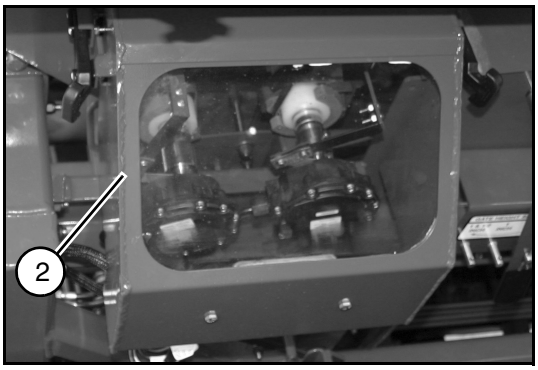
Removal And Installation

Remove the two bolts (1) from the metering wheel hydraulic motor coupler holding the two coupler halves together and set the motor aside. There is no need to remove any hydraulic hoses.



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Remove the wind cover (2) by unlatching the rubber straps located on the upper left and upper right side of the wind cover, remove cover from the front of the meter frame.



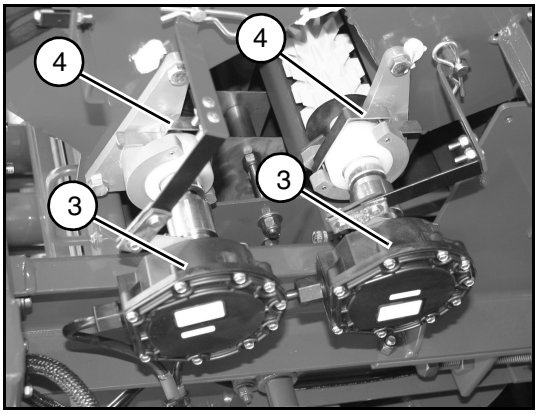
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Disconnect the speed sensors (3) from the meter wheel hex shaft, but not from the machine.

Unsnap latches (4) holding the bearings in place on each end of the wheel assembly. The assembly should lift out.

NOTE: *When installing metering wheels, add washers as required to reduce/eliminate space between metering wheels. Center the metering wheels in the opening. Check for equal clearance where product meters out from wheels. If metal edge is damaged and gap is not equal across the entire metering wheel shaft, metal edge must be straightened for proper rates.*

Installation: Install the new metering wheel assembly, snap latches, connect speed sensors, install wind cover. Holding the coupler halves together install the motor, align holes of motor flange with the holes in the metering frame, then install and tighten the two bolts.



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TROUBLESHOOTING GUIDE CASE IH VIPER

General Issues

Problem	Probable Cause	Corrective Action
Viper does not power up.	No power to unit.	Check for +12VDC on pin 24 of the Viper power cable.
	Blown fuse.	Check for continuity in 5 amp fuse in Viper power cable.
	Brightness or power turned down to low.	Hold down the Menu button while pressing the up arrow key.
	Poor ground.	Make sure that pin 1 is connected to the battery ground.
	Unit is locked up.	Remove the power and re-apply the power.
Storage card not found. Viper program cannot continue...	Flashdisk not installed properly.	Install the flashdisk card into the slot, turn off the Viper, and then restart.
CAN nodes not detected.	No power to CAN nodes.	Verify that there is 12 volt power and ground to the CAN node's logic power.
	Weak or dirty power to the CAN nodes.	Verify that the 12 volt power to the CAN node is coming from the switch relay that is connected to the battery.
	Water in CAN nodes.	Open and dry the CAN node. Do not direct any pressure or wash stream directly at the CAN nodes.
	Corrosion in CAN connections.	Disconnect and clean the CAN connections.
	Broken cable to node.	Repair or replace cable.
	Low power voltage.	Verify at least +10VDC at the node.
Touchscreen does not respond to touch.	Area touched does not include a selectable function.	Touch an area of the screen that contains a selectable function.
	System is busy processing a previous request.	Wait for system to finish processing previous requests.
	Software is locked up.	Shut off the Viper system by pressing and holding the PWR button. Restart the Viper.
Does not recognize registration number.	Incorrect registration number entered.	Make sure that you have entered the correct registration number for the system. If so, contact your CASE representative for help resolving this issue.
Red "X" on GPS button on the main screen.	GPS cable disconnected.	Check the cable between the GPS receiver and the Viper console.
	No power to the GPS receiver.	Check power to the GPS receiver.
	Incorrect port setting.	Make sure that the port settings on the Viper console and the GPS receiver are the same.
Red "X" In Storage Card area on the main screen.	No flashdisk installed.	Insert a flashdisk in the card slot on the left side of the Viper console. You will then need to restart your Viper system.
	Flashdisk is full.	Check the amount of free space on the flashdisk. Remove any unnecessary files from the flashdisk or download them to your personal computer for later use.

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FLX810 FLEX-AIR TROUBLESHOOTING MANUAL

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FLEX-AIR REQUIRED AND RECOMMENDED TOOL LIST. 10000

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Racine, WI 53404 U.S.A

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FLX810 Flex-Air Troubleshooting Manual
Issued 1-06 Printed in U.S.A.

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THIS SAFETY ALERT SYMBOL INDICATES IMPORTANT SAFETY MESSAGES IN THIS MANUAL. WHEN YOU SEE THIS SYMBOL, CAREFULLY READ THE MESSAGE THAT FOLLOWS AND BE ALERT TO THE POSSIBILITY OF DEATH OR SERIOUS INJURY.

M171C

If Safety Decals on this machine use the words **Danger, Warning or Caution,** which are defined as follows:

- **DANGER:** Indicates an immediate hazardous situation that, if not avoided, will result in death or serious injury. The color associated with Danger is RED.
- **WARNING:** Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury. The color associated with Warning is ORANGE.
- **CAUTION:** Indicates an potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices. The color associated with Caution is YELLOW.

If Safety Decals on this machine are ISO two panel Pictorial, decals are defined as follows:

- The first panel indicates the nature of the hazard.
- The second panel indicates the appropriate avoidance of the hazard.
- Background color is YELLOW.
- Prohibition symbols such as  and  if used, are RED.

WARNING

IMPROPER OPERATION OF THIS MACHINE CAN CAUSE INJURY OR DEATH. BEFORE USING THIS MACHINE, MAKE CERTAIN THAT EVERY OPERATOR:

- Is instructed in safe and proper use of the machine.
- Reads and understands the Manual(s) pertaining to the machine.
- Reads and understands ALL Safety Decals on the machine.
- Clears the area of other persons.
- Learns and practices safe use of machine controls in a safe, clear area before operating this machine on a job site.

It is your responsibility to observe pertinent laws and regulations and follow CNH America LLC instructions on machine operation and maintenance.

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NOTE: CNH America LLC reserves the right to make improvements in design or changes in specifications at any time without incurring any obligation to install them on units previously sold.

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QUICK REFERENCE TO TROUBLESHOOTING (WET KIT)

Item	Section-Page No.	Symptom	Probable Cause	Corrective Action
Wet Kit Node Module	4002-11, 22	One or more of the wet boom functions not operating.	Faulty wiring.	Check wiring.
			Faulty relay or fuses.	Replace relay or fuses.
			Faulty Node.	Replace node.
Passive Terminator Module	4002-11, 22		Faulty terminator.	Replace terminator.
Spread/Hold Switch	4002-11, 23	Unit will not spray.	Faulty wiring.	Check wiring.
			Faulty switch.	Replace switch.
Product Pump Control Valve	4002-11, 23	Valve not operating.	Faulty fuse.	Replace fuse.
			Faulty wiring.	Check wiring.
			Faulty Valve.	Replace Valve.
Sparge Valve	4002-11, 23	Valve not operating.	Faulty fuse.	Replace fuse.
			Faulty wiring.	Replace wiring.
			Faulty valve.	Replace valve.
Sparge Pressure Sensor	4002-11, 24	Display on controller not showing pressure.	Faulty fuse.	Check fuse.
			Faulty wiring.	Replace wiring.
			Faulty sensor.	Replace sensor.
			Product pump not turning.	Verify hydraulics, check product pump and impeller.
Boom Pressure Sensor	4002-11, 24	Display on controller not showing pressure.	Faulty fuse.	Replace fuse.
			Faulty or corroded wiring.	Check wiring, repair or replace as needed.
			Faulty sensor.	Replace sensor.
Flow Meter	4002-11, 24	Controller not metering flow.	Faulty or corroded wiring.	Check wiring, repair or replace as needed.
			Debris in Flow Meter.	Clean Flow Meter.
			Faulty flow meter.	Replace flow meter.
Ball Valves	4002-11, 26, 26	LH or RH boom will not shut-off.	Faulty wiring.	Check wiring, repair or replace as needed.
			Faulty fuse.	Replace fuse.
			Faulty switch.	Replace switch.
			Faulty ball valve.	Replace valve.
Air Valve (Rear Spraybars)	4002-11, 27	Rear spraybars will not move to proper spray position, when booms are unfolded.	Product pump switch not “ON”.	Turn product pump switch “ON”.
			Faulty wiring.	Check wiring.
			No air supply to air cylinders.	Check air supply.
			Faulty solenoid.	Replace solenoid.
			Faulty magnetic sensor.	Replace magnetic sensor.

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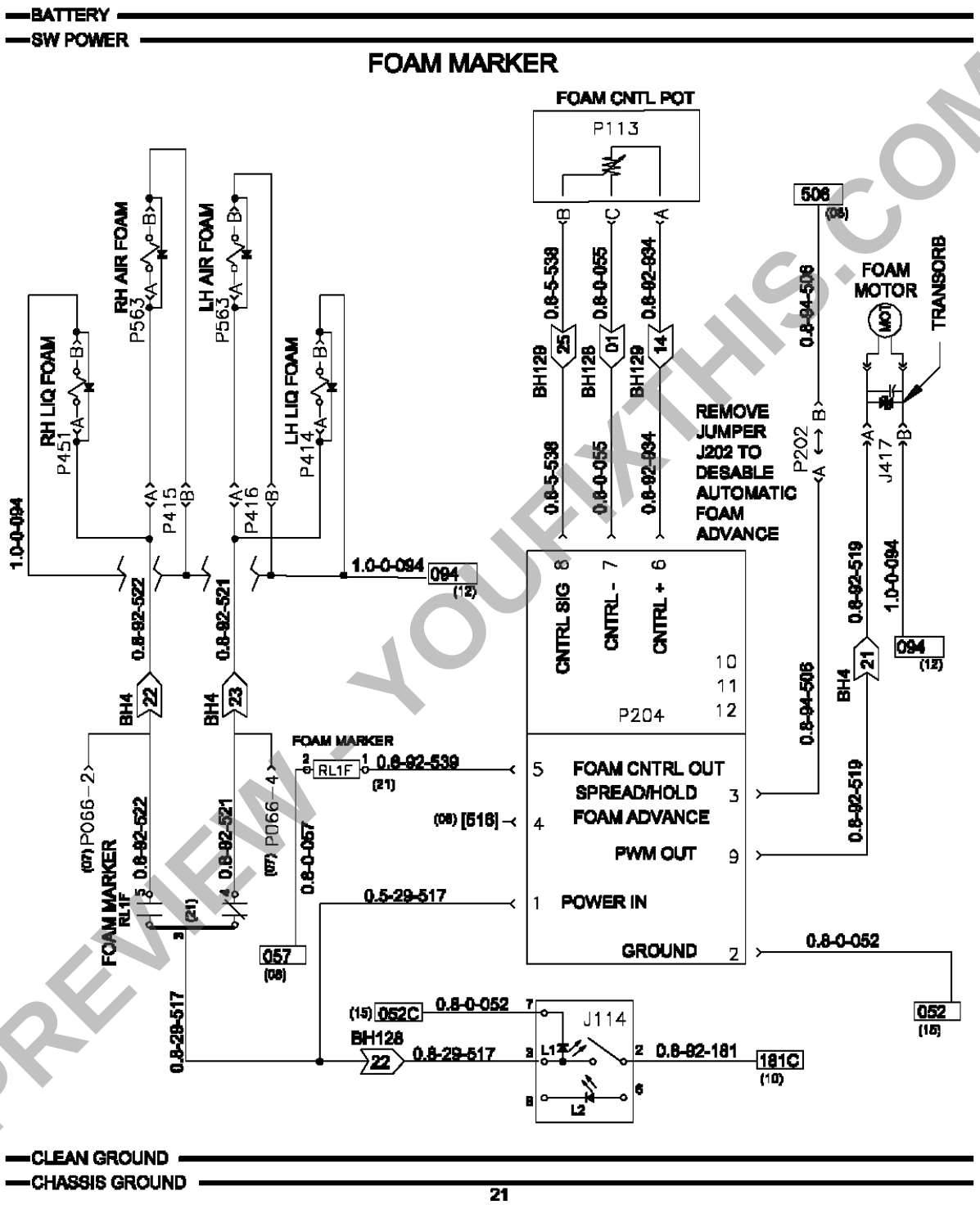
QUICK REFERENCE TO TROUBLESHOOTING

Item	Section-Page No.	Symptom	Probable Cause	Corrective Action
Main Bin Node Module	4003-10, 14	One or more of the main bin functions not operating.	Faulty wiring.	Check wiring.
			Faulty relay or fuses.	Replace relay or fuses.
			Faulty node.	Replace node.
Co-Ap Bin Node Module	4003-10, 15	One or more of the co-ap bin functions not operating.	Faulty wiring.	Check wiring.
			Faulty relay or fuses.	Replace relay or fuses.
			Faulty node.	Replace node.
Supplement Bin Node Module	4003-10, 16	One or more of the supplement bin functions not operating.	Faulty wiring.	Check wiring.
			Faulty relay or fuses.	Replace relay or fuses.
			Faulty node.	Replace node.
Can Buss Node Module	4003-10, 17	LH or RH boom shut-off will not operate.	Faulty wiring	Check wiring.
			Faulty switch.	Replace switch.
			Faulty relay or fuses.	Replace relay or fuses.
			Faulty node.	Replace node.
		No ground speed.	Radar not set at proper angle.	Set radar at proper angle.
			Faulty wiring.	Check wiring.
			Faulty node.	Replace node.
		Spread/Hold switch not functioning.	Faulty wiring.	Check wiring.
			Faulty switch	Replace switch
			Faulty relay or fuses.	Replace relay or fuses.
			Faulty node.	Replace node.
Main /Supplement Gates	4003-10, 17, 18	Gate will not open/ close.	Faulty wiring.	Check wiring.
			Faulty switch.	Replace switch.
			Faulty solenoid.	Replace solenoid.
Spread/Hold Switch	4003-10, 18	Conveyors will not operate.	Faulty wiring.	Check wiring.
			Faulty switch.	Replace switch.
Fan On/Off Switch	4003-10, 20	Blower will not operate.	Faulty wiring.	Check wiring.
			Faulty switch.	Replace switch.
			Faulty solenoid.	Replace solenoid.
			Motor defective.	Replace motor.
Fan RPM Sensor	4003-10, 20	Blower tachometer is blank, blower and unit operate normally.	Faulty wiring.	Check wiring.
			Blower RPM magnetic sensor has come loose in mount on blower.	Retighten magnetic sensor with spacing set from 1/8” to 1/4”.
			Faulty sensor.	Replace sensor.

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