An Oshkosh Corporation Company

Service and Maintenance Manual

Models
600S
660SJ

SN 0300235168* &
B300002655*
to Present

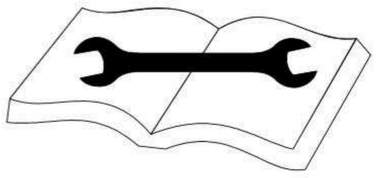
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SECTION NO.	TITLE	PAGE NO.
SECTION A - INTRODUCTION - MAINTENANCE SAFETY PRECAUTIONS		
A	General	A-1
B	Hydraulic System Safety	A-1
C	Maintenance	A-1
SECTION 1 - SPECIFICATIONS		
1.1	Operating Specifications	1-1
1.2	Dimensional Data	1-1
1.3	Capacities	1-2
1.4	Engine Data	1-2
1.5	Tires	1-3
1.6	Critical Stability Weights	1-3
1.7	Hydraulic Oil	1-4
1.8	Torque Requirements	1-5
1.9	Maintenance and Lubrication	1-9
SECTION 2 - GENERAL		
2.1	Machine Preparation, Inspection, and Maintenance	2-1
	General	2-1
	Preparation, Inspection, and Maintenance	2-1
	Pre-Start Inspection	2-1
	Pre-Delivery Inspection and Frequent Inspection	2-1
	Annual Machine Inspection	2-1
	Preventive Maintenance	2-1
2.2	Service and Guidelines	2-2
	General	2-2
	Safety and Workmanship	2-2
	Cleanliness	2-2
	Components Removal and Installation	2-2
	Component Disassembly and Reassembly	2-3
	Pressure-Fit Parts	2-3
	Bearings	2-3
	Gaskets	2-3
	Bolt Usage and Torque Application	2-3
	Hydraulic Lines and Electrical Wiring	2-3
	Hydraulic System	2-3
	Lubrication	2-3
	Battery	2-3
	Lubrication and Servicing	2-3
2.3	Lubrication and Information	2-4
	Hydraulic System	2-4
	Hydraulic Oil	2-4
	Changing Hydraulic Oil	2-4
	Lubrication Specifications	2-4
2.4	Cylinder Drift	2-4
	Theory	2-4
	Cylinder Leakage Test	2-4
	Cylinder Thermal Drift	2-5
2.5	Pins and Composite Bearing Repair Guidelines	2-5
2.6	Welding on JLG Equipment	2-5
	Do the Following When Welding on JLG Equipment:	2-5
	Do Not Do The Following When Welding On Jlg Equipment:	2-5

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SECTION NO.	TITLE	PAGE NO.

SECTION 3 - CHASSIS & TURNTABLE

3.1	Tires & Wheels	3-1
	Tire Inflation	3-1
	Tire Damage	3-1
	Tire Replacement	3-1
	Wheel Replacement	3-1
	Wheel Installation	3-1
3.2	Oscillating Axle Bleeding Procedure and Lockout Test	3-2
	Lockout Cylinder Bleeding	3-2
	Oscillating Axle Lockout Test	3-2
3.3	Chassis Tilt Indicator System	3-3
3.4	Cold Start System (Diesel)	3-3
3.5	Auxiliary Power System	3-3
3.6	Drive Orientation System	3-3
3.7	Oscillating Axle System	3-4
3.8	Drive System	3-4
3.9	Drive Hub	3-8
	Removal	3-8
	Installation	3-8
3.10	Drive Motor	3-9
	Removal	3-9
	Assembly/Disassembly	3-9
	Installation	3-9
3.11	Steer Cylinder	3-12
	Removal	3-12
	Installation	3-12
3.12	Swing Drive Hub	3-13
	Removal	3-13
	Assembly/Disassembly	3-13
	Installation	3-13
	Procedure For Setting Swing Gear Backlash	3-14
	Swing Drive Lubrication	3-14
3.13	Swing Bearing	3-15
	Turntable Bearing Mounting Bolt Condition Check	3-15
	Wear Tolerance	3-15
	Swing Bearing Replacement	3-17
	Swing Bearing Torque Values	3-18
3.14	Rotary Coupling	3-21
3.15	Deutz TD2.9 L4 Engine (67hp)	3-28
3.16	Deutz D2.9 L4 Engine (49hp)	3-32
	Check Oil Level	3-36
	Change Engine Oil	3-36
	Change Oil Filter	3-36
	Change Fuel Filters	3-37
	Glow Plugs	3-37
3.17	Deutz D2011L04 Engine	3-59
	Checking Oil Level	3-63
	Changing Engine Oil	3-63
	Changing Oil Filter	3-64
	Replace Fuel Filter	3-64
	Clean Fuel Strainer	3-65
	Spark Arrester Cleaning Instructions	3-65
	Glow Plugs	3-65
3.18	Ford Engine	3-70
3.19	Counterweight	3-81

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SECTION NO.	TITLE	PAGE NO.
3.20	Generator	3-82
	Every 250 hours	3-82
	Every 500 hours	3-82
	Overload Protection	3-82
	Inspecting Brushes, Replacing Brushes, and Cleaning Slip Rings	3-83
SECTION 4 - BOOM & PLATFORM		
4.1	Transport Position Sensing System	4-1
4.2	Beyond Transport - Drive Speed Cutback System	4-1
4.3	Drive/Steer - Boom Function Interlock System	4-1
4.4	Dual Capacity System	4-1
4.5	Platform Load Sensing System	4-1
4.6	Electronic Platform Leveling	4-2
4.7	Fuel level Cutout System	4-2
4.8	Platform	4-3
	Support Removal	4-3
	Support Installation	4-4
4.9	Rotator and Slave Cylinder	4-6
	Removal	4-6
	Assembly/Disassembly	4-6
	Installation	4-6
4.10	Main Boom Assembly	4-8
	Removal	4-8
	Boom Disassembly	4-10
	Assembly	4-13
	Installation	4-16
4.11	Main Boom Lift Cylinder	4-17
	Removal	4-17
	Installation	4-17
4.12	Main Boom Powertrack	4-18
	Installation	4-18
4.13	Wire Rope	4-19
	Inspection	4-19
	Three Month Inspection	4-20
	Additional Inspection Required If	4-20
	12 Year or 7000 Hour Replacement	4-20
	Additional Replacement Criteria	4-20
4.14	Wire Rope Tensioning Adjustment	4-20
	Wire Rope Tensioning Procedure	4-20
4.15	Wire rope Service indicator	4-21
4.16	Jib (If Equipped)	4-21
4.17	Boom Cleanliness Guidelines	4-23
4.18	Foot Switch Adjustment	4-23
4.19	Platform Control Enable System	4-23
4.20	Powertrack Maintenance	4-24
	Remove Link	4-24
	Install New Link	4-27
	Replace Fixed End Brackets	4-30
	Replace Moving End Brackets	4-31
4.21	Skyguard	4-33
	Operation	4-33
	Function Test	4-33
	Diagnostics & Troubleshooting	4-34
4.22	Bolt-On External Fall Arrest	4-35
	Inspection Before Use	4-35
	Installation	4-36

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5.9 HYDRAULIC SCHEMATICS

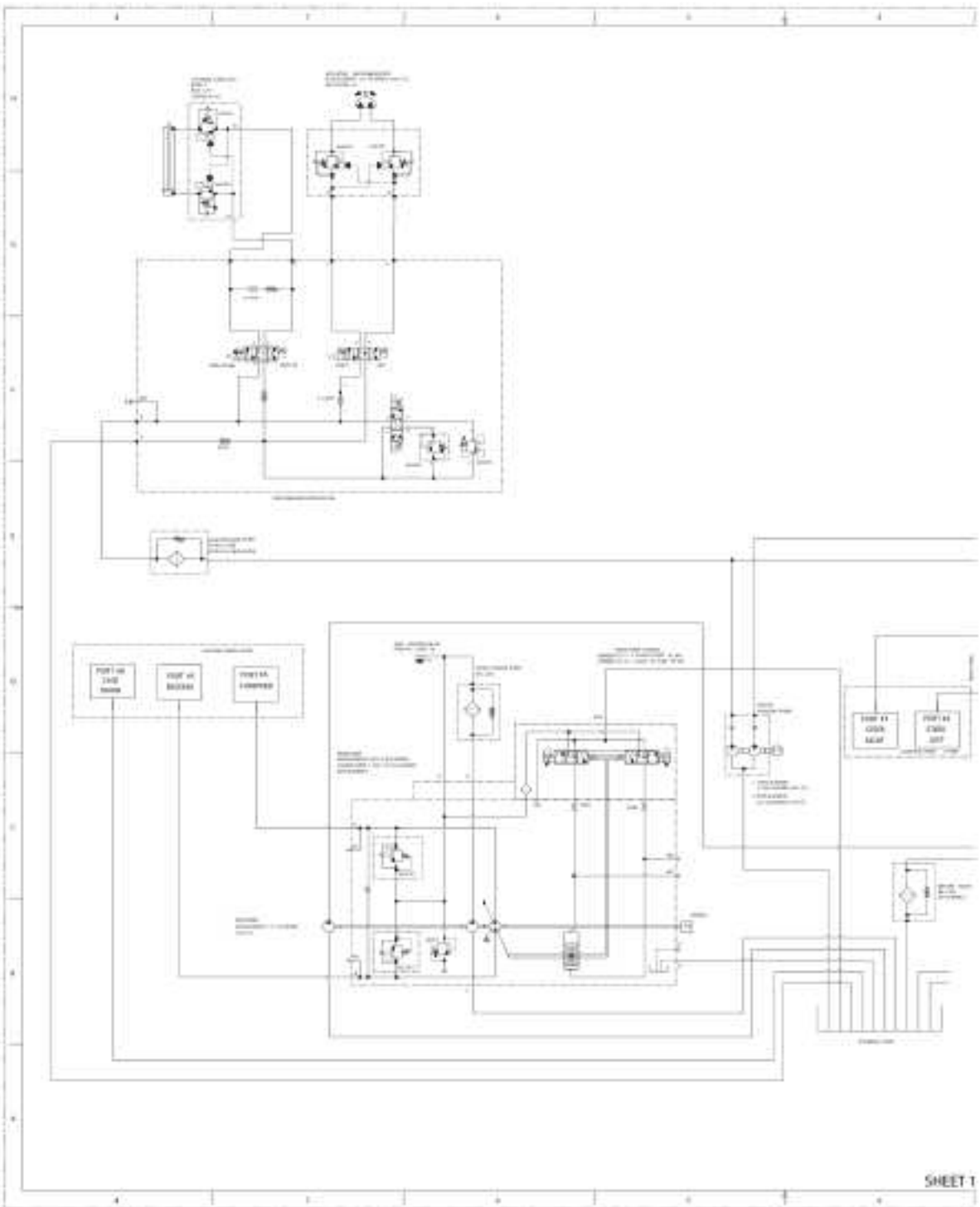


Figure 5-99. 2-Wheel Steer (2WS) without Jib Hydraulic Schematic - Sheet 1 of 2

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Troubleshooting

The following tables are furnished to provide possible resolutions for common difficulties. Difficulties are classified as General, Calibration, Measurement Performance, and Host System Functionality.

Table 6-13. LSS Troubleshooting Chart

Difficulty	Possible Resolution
Empty Platform Weight (DIAGNOSTICS, PLATFORM LOAD) is not within ±15lbs (±7kg) of zero. or Platform Load readings (DIAGNOSTICS, PLTLOAD) are unstable by more than ±2lbs (±1kg) (without the influence of vibration or wind). or There are large variations in Platform Load (DIAGNOSTICS, PLTLOAD) based on the location of the load. Tolerance to variations is 20lbs for an evaluation using the technician's weight, and +5% of Rated Load when using calibrated weights.	The LSS System is unable to properly measure the platform weight. 1. The Load Cell is not properly plugged into the LSS Harness. It is possible poor electrical contact is made. 2. Wiring leading to the Load Cell is damaged. Carefully inspect sensor wiring where it passes through cable damps for signs of damage. Inspect wiring where damage to the channel is apparent. 3. The Load Cell was not assembled properly during installation. Examine the sensor's reading using the JLG Analyzer. Proceed to the DIAGNOSTICS, CELL, LOAD displays and determine if the readings are reasonable. It is often helpful to apply slight downward pressure above the sensor and observe that its output increases (increasing force measurement; decreasing means the sensor is mounted upside-down). 4. The Load Cell is contaminated by debris or moisture. Examine the sensor's reading using the JLG Analyzer. Proceed to the DIAGNOSTICS, CELL, LOAD displays and determine if the readings are reasonable and stable (not changing by more than ±2lbs (±1kg) (without the influence of vibration or wind). Lack of measurement stability is a key indication of contamination. Unplug the connector and inspect for dirt or moisture. Look carefully into the female connector on the sensor's cordset for evidence of contamination. Debris should be brushed away with a soft bristle brush (do not introduce any cleaners as they will leave conductive residue). Moisture should be allowed to evaporate or accelerated with a heat-gun (use low heat and be carefully to not melt connector materials). Moisture intrusion into the molded portion of the connector (capillary action into the wire bundle) or the Shear Beam Load Cell itself will require replacement of the sensor. 5. The Load Cell has been mechanically damaged. If the Load Cell is physically deformed or has damage to the cover it should be replaced immediately. It is also possible to have invisible mechanical damage resulting from an extreme overload (>6000lbs [>2722kg]).
The Visual and Audible Overload Warnings fail to sound when platform is loaded beyond Rated Load, or when simulated by unplugging the Load Cell. Controls remain functional at Platform and Ground Control positions.	The Control System is failing to regard the overload signal from the LSS System, or the signal is shorted. 1. The Load Sensing System must be enabled within the Control System. Plug the JLG Analyzer into the Control System, enter the Access Level 1 password (33271), and examine the MACHINE SETUP, LOAD sub-menu. The selection "2=CUTOUT PLT" should be displayed (platform controls prevented during overload, ground controls remain operational). In country- or customer-specific circumstance, the selection "3=CUTOUT ALL" is used (platform and ground controls prevented during overload).
The Ground Audible Warning fails to sound, but the Platform Audible Warning sounds properly.	The Ground Alarm is missing or improperly installed. Verify that the device is mounted. Verify wiring from the Main Terminal Box and Ground Module.
Controls remain functional at the Ground Control position during an overload, or when simulated by unplugging the Load Cell. The Controls at the Platform Control position are prevented when using the engine, but not when using the Auxiliary Power Unit.	The JLG Control System is configured to prevent platform controls only in the event of overload. Alternately, the Host Control System can be configured to prevent ground and platform controls for country- or customer specific circumstances. Using the JLG Analyzer, enter the Access Level 1 password (33271). Proceed to the MACHINE SETUP, LOAD sub-menu. Set this parameter to "2=CUTOUT PLT" to prevent platform controls in the event of overload. Set this parameter to "3=CUTOUT ALL" to prevent platform and ground controls in the event of overload.

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7.8 WIRING HARNESS CONNECTOR LABEL DIAGRAMS

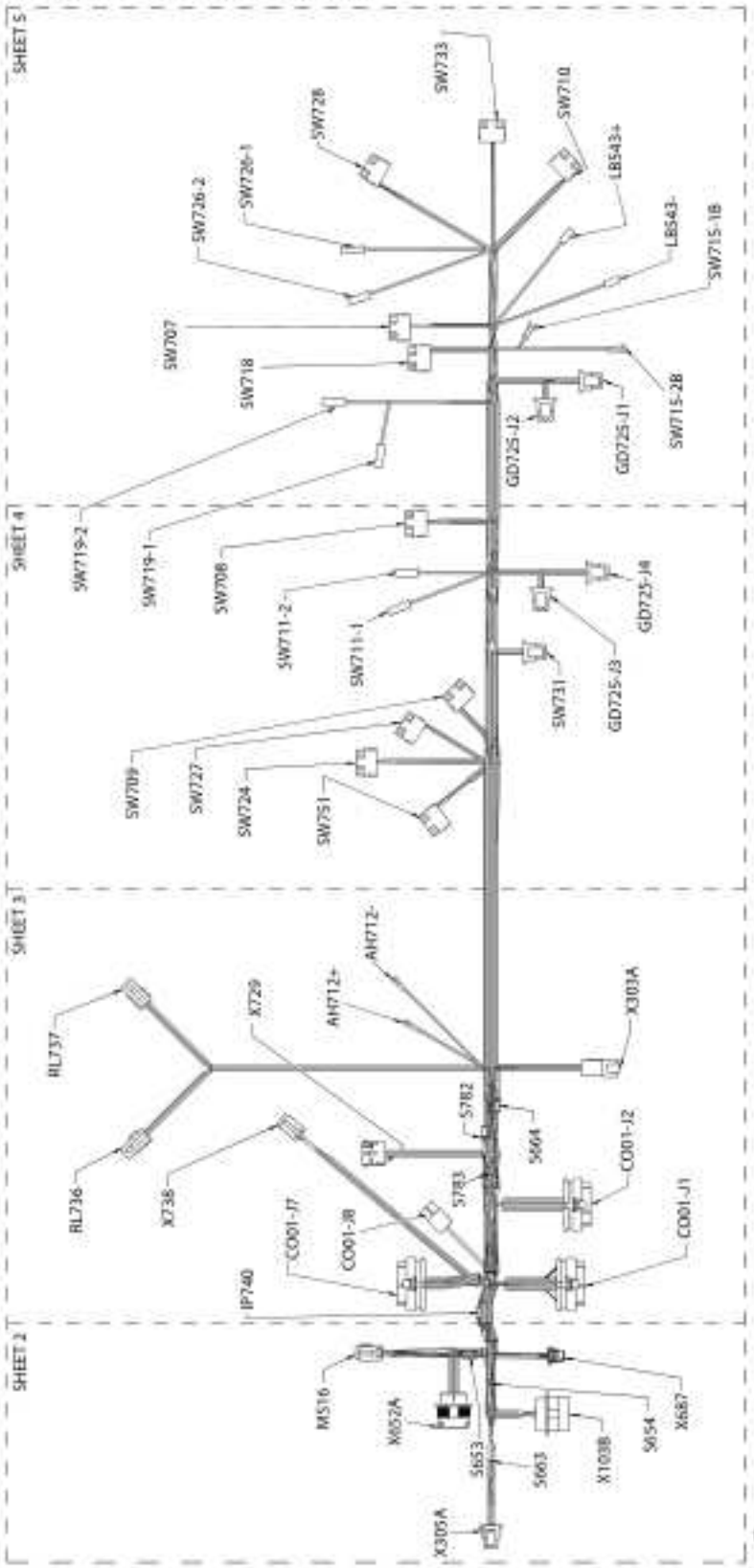
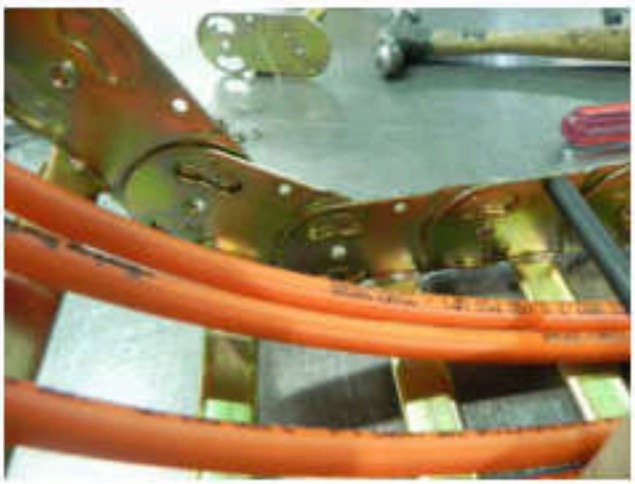


Figure 7-27. Platform Box Harness - Sheet 1 of 6 (SN 0300235168 through 0300259907, SN B300002655 to Present)

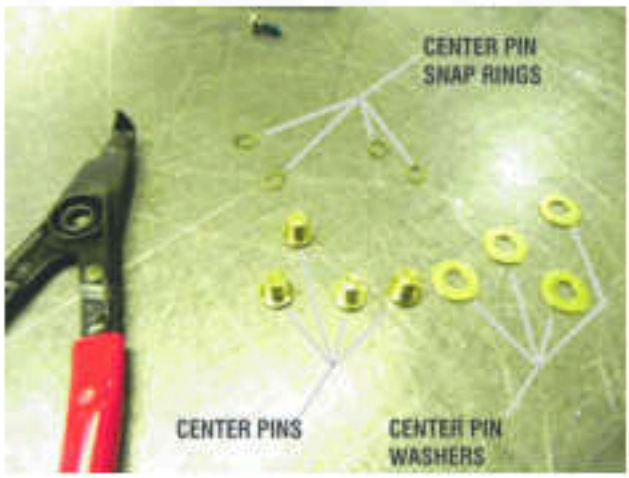
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4. Pull moving end over track so new connection is positioned in curve of powertrack. Round half-shears will rotate into cut-outs.





5. Parts shown below connect new link to powertrack.



6. Push pin through center hole. Slide washer on pin.





7. Install snap ring in groove on pin. Repeat pin installation steps for all center holes with rivets removed.



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Table 6-2. Machine Configuration Programming Information - Version P2.12

Configuration Digit	Number	Description	Default Number
FUNCTION CUTOUT: 18*	**1** 2 3	**NO: No drive cutout.** BOOM CUTOUT: Boom function cutout while driving above elevation. DRIVE CUTOUT: Drive cutout above elevation.	**1**
* Only visible under certain market selections. * Certain market selections will limit function cutout options or alter default setting.			
GROUND ALARM: 19	1 2 3 **4**	NO: No ground alarm installed. DRIVE: Travel alarm sounds when the drive function is active. DESCENT: Descent alarm sounds when lift down is active. **MOTION: Motion alarm sounds when any function is active.**	**4**
DRIVE TYPE: 20*	**1** 2	**4 WD: Four wheel drive.** 2WD: Two wheel drive.	**1**
*Only visible for 600S			
DISPLAY UNITS: 21*	1 **2**	METRIC: Celsius, Kilograms, KiloPascal. **IMPERIAL: Fahrenheit, Pounds, Pounds./in^2**	**2**
* Certain market selections will alter default setting.			
CLEARSKY: 22	**1** 2	**NO: ClearSky (telematics) options is disabled.** YES: ClearSky (telematics) option is enabled.	**1**
CRIBBING OPTION: 23*	**1** 2	**NO: Cribbing Option is disabled.** YES: Cribbing Option is enabled.	**1**
* Certain market selections will limit cribbing options.			
ALERT BECON: 24	**1** 2	**OFF FOR CREEP** IN CREEP 20FPM	**1**
TEMP CUTOUT: 25*	**1** 2	**NO: No Low Temp Cutout system installed** YES: Low Temp Cutout system installed	**1**
* Certain market selections will temp cutout options.			

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