Service Manual

Models
1644, 1732,
7013H, 8010H

31211286

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An Oshkosh Corporation Company

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9.17 FAULT CODES



Faults are detected while key switch is in RUN position, during operation of machine itself. If a fault becomes active (currently detected) at this time, a fault is logged in memory and a snapshot of engine parameters is logged. The LCD display (**1**) located within the instrument panel notifies the operator.

If LCD display (**1**) shows a three to five digit fault (for example: 2124), refer to Section 9.17, "Fault Codes", for a full list of fault codes.

If LCD display (**1**) shows 437 SPN:FMI fault (for example: 437 27:2), refer to Section 9.19, "Engine Diagnostic", for a full list of fault codes.

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Message	Fault Code	Indicators	Other Actions Taken	Trigger for Fault	Latch Until
TRANS Y4 COIL – OPEN CIRCUIT	4678	5000m5	The following actions shall occur when Calibration's TRANS SERVICE is NO: • Direction Selection forced to Neutral • FFCM J2-H4 Transmission Y1 Solenoid prevented • FFCM J2-G4 Transmission Y2 Solenoid prevented • FFCM J1-E4 Transmission Y3 Solenoid prevented • FFCM J1-D4 Transmission Y4 Solenoid prevented • FFCM J3-C1 Transmission Y5 Solenoid prevented • FFCM J1-A3 Transmission Y6 Solenoid prevented	Machine Setup's TRANSMISSION is ZF 4SPD; open-circuit detected on FFCM J1-D4	Power cycled
TRANS Y5 COIL – SHORT TO BATTERY	4679	Continuously	The following actions shall occur when Calibration's TRANS SERVICE is NO: • Direction Selection forced to Neutral • FFCM J2-H4 Transmission Y1 Solenoid prevented • FFCM J2-G4 Transmission Y2 Solenoid prevented • FFCM J1-E4 Transmission Y3 Solenoid prevented • FFCM J1-D4 Transmission Y4 Solenoid prevented • FFCM J3-C1 Transmission Y5 Solenoid prevented • FFCM J1-A3 Transmission Y6 Solenoid prevented	Machine Setup's TRANSMISSION is ZF 4SPD; short to battery detected on FFCM J3-C1	Power cycled

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Message	Fault Code	Indicators	Other Actions Taken	Trigger for Fault	Latch Until
LIFT CYLINDER ROD PRESSURE 2 – OUT OF RANGE LOW	8531	5000mS	• LMIS / Weigh Load Predicted Load is 32,767KG • Lift Cylinder Rod Pressure 2 is 999.9BAR	Machine Setup's LOAD MOMENT IND SYSTEM is YES or WEIGH LOAD is YES; LCM J1-D1 Lift Cylinder Rod Pressure 2 < 2mA for 500mA	Power cycled
LIFT CYLINDER ROD PRESSURE – DISAGREEMENT	8532	5000mS	• LMIS / Weigh Load Predicted Load is 32,767KG • Lift Cylinder Rod Pressure 1 & 2 are 999.9BAR	Machine Setup's LOAD MOMENT IND SYSTEM is YES or WEIGH LOAD is YES; LCM J1-A1 Lift Cylinder Rod Pressure 1 and LCM J1-D1 Lift Cylinder Rod Pressure 2 disagree by more than +/- 50BAR for 500mS	Power cycled
COMP CYLINDER HEAD PRESSURE 1 – OUT OF RANGE HIGH	8533	5000mS	• LMIS / Weigh Load Predicted Load is 32,767KG • LCM VLOW protected FET disabled • Lift Cylinder Head Pressure 1 is 999.9BAR • Lift Cylinder Head Pressure 2 is 999.9BAR • Lift Cylinder Rod Pressure 1 is 999.9BAR • Lift Cylinder Rod Pressure 2 is 999.9BAR • Compensation Cylinder Head Pressure 1 is 999.9BAR • Compensation Cylinder Head Pressure 2 is 999.9BAR • Compensation Cylinder Rod Pressure 1 is 999.9BAR • Compensation Cylinder Rod Pressure 2 is 999.9BAR	Machine Setup's LOAD MOMENT IND SYSTEM is YES or WEIGH LOAD is YES; LCM J1-F2 Compensation Cylinder Head Pressure 1 > 20mA for 500mS	Power cycled
COMP CYLINDER HEAD PRESSURE 1 – OUT OF RANGE LOW	8534	5000mS	• LMIS / Weigh Load Predicted Load is 32,767KG • Compensation Cylinder Head Pressure 1 is 999.9BAR	Machine Setup's LOAD MOMENT IND SYSTEM is YES or WEIGH LOAD is YES; LCM J1-F2 Compensation Cylinder Head Pressure 1 < 2mA for 500mS	Power cycled

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3. AMP Mate-N-Lok



MAE3270

This connector system is widely used inside enclosures for general-purpose interconnect. Follow the general guidance for installation.

4. DIN Connectors



MAE3280

This connector system is typically used on hydraulic valves. Follow the general guidance for installation.

9.6.2 Exclusions

1. M12 with Gold Contact Material:



MAE3290



MAE3300

The connector uses gold contact material to resist corrosion and an o-ring seal for moisture integrity. If dielectric grease is mistakenly applied to this connector system, the low-force contacts cannot displace the grease to get electrical contact. Once contaminated, there is no practical way to remove the dielectric grease (replacement of female contacts required). The Load Sensing System and 1250AJP Rotary Angle Sensors are examples of components with the M12 connector system.

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