

Diagnostic Trouble Codes
Warning Messages
Fault Codes

Amadas 9960 SP Combine

(Information taken from
John Deere 9560 STS
Diagnostic Manual)

Accessing Diagnostic Trouble Codes and Addresses

How Diagnostic Address Information is Displayed

IMPORTANT: These addresses are listed for reference only. Go to the Diagnostic Group of the problem system for specific diagnostic information.

The diagnostic address information is listed in chart form in the following pages. For each address, there is a description of the information available. The description includes details about how the information is presented.

They are listed by function, so all addresses that refer to the same type of information are listed together. In some systems, the same bit of information can be found in two or more addresses.

The chart uses characters to describe how the information is displayed:

- n - a numerical value
- 1 - a 1 or a 0 will be shown. This indicates ON or OFF as shown in the address description
- x - the information in this character location is not important.
- _ - Blank spot. No character displayed

Diagnostic Trouble Code Priorities

IMPORTANT: These Diagnostic Trouble Codes are listed for reference only. Go to the Diagnostic Group of the problem system for specific diagnostic information.

Each Diagnostic Trouble Code (DTC) has a priority. The priority of the DTC is indicated in the way the DTC is displayed to the operator:

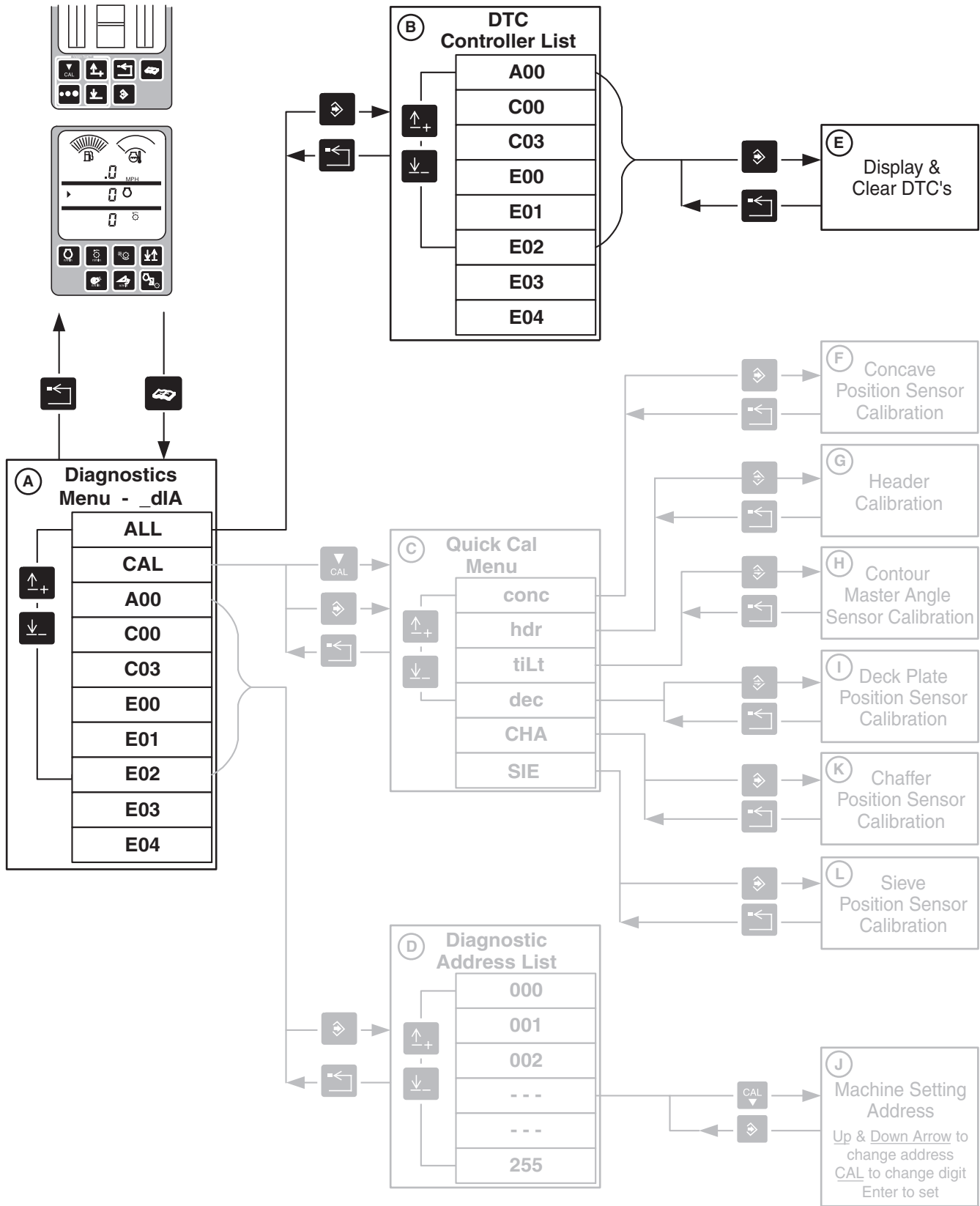
- Priority 1 - The Cornerpost Display 1 will stop normal function and the DTC will be displayed. This indicates a problem that requires the combine be stopped, the engine turned off immediately and the problem corrected. The Cornerpost Display 1 will show the DTC until the problem is resolved.
- Priority 2 - The Cornerpost Display 1 Diagnostic Indicator comes on. This indicates a problem that should be checked immediately
- Priority 3 - DTC's will be stored, but it is not indicated to the operator.

Accessing Diagnostic Trouble Codes

Continued on next page

HX05709,00044BF -19-10JUL03-1/20

240
10A
2



HXC7351 -UN-24SEP02

Continued on next page

HX05709.00044BF -19-10JUL03-2/20

Accessing Diagnostic Trouble Codes and Addresses

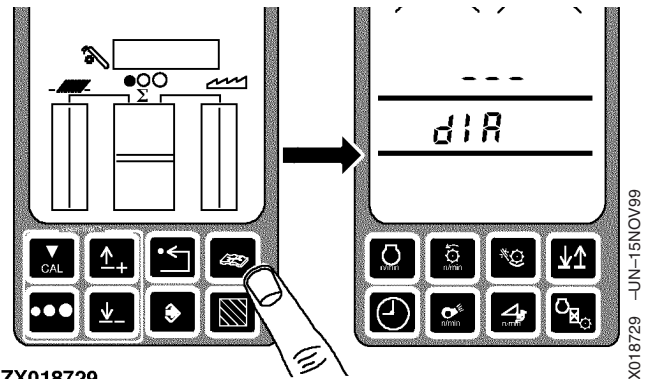
- | | | | |
|---|---|---|---|
| <p>A—Diagnostics Menu
 B—Diagnostic Trouble Code Controller List
 C—Quick Cal Menu
 D—Diagnostic Address List
 E—Display and Clear Diagnostic Trouble codes</p> | <p>F—Concave Position Sensor Calibration
 G—Header Calibration
 H—CONTOUR MASTER Angle Sensor Calibration
 I—Deck Plate Position Sensor Calibration</p> | <p>J—Machine Setting Addresses - Up & Down Arrow Button to change address - CAL Button to change digit - Enter Button to set change into memory</p> | <p>K—Chaffer Position Sensor Calibration
 L—Sieve Position Sensor Calibration</p> |
|---|---|---|---|

HX05709,00044BF -19-10JUL03-3/20

Prepare Combine:

- Turn the key switch to the run position.

Press the diagnostic switch. d1A will appear on the Cornerpost Display 1.

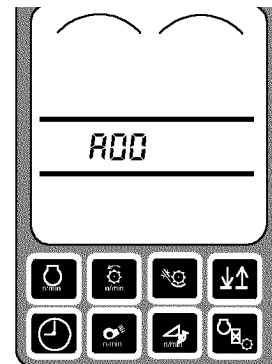


ZX018729

HX05709,00044BF -19-10JUL03-4/20

ZX018729 -JUN-15NOV99

Press the up or down arrow switch to obtain the desired address. For example A00 appears on the Cornerpost Display 1.

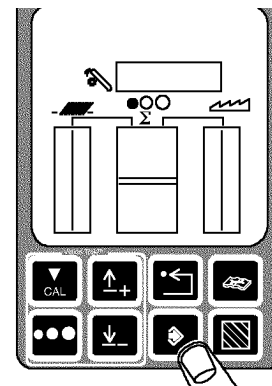


ZX019001

HX05709,00044BF -19-10JUL03-5/20

ZX019001 -JUN-15NOV99

Press the enter switch.



ZX018990

HX05709,00044BF -19-10JUL03-6/20

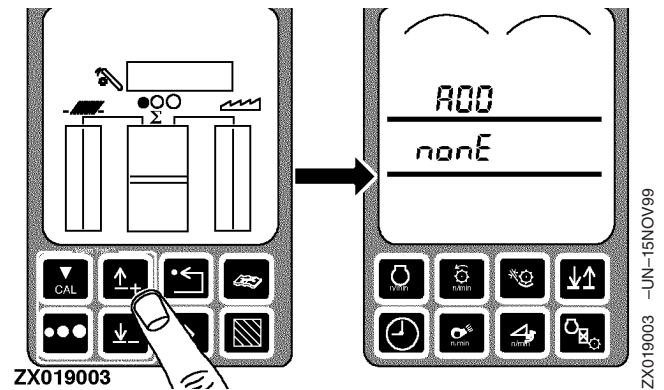
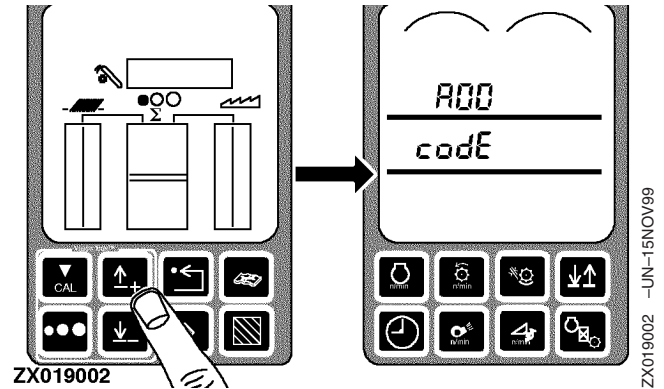
ZX018990 -JUN-15NOV99

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Accessing Diagnostic Trouble Codes and Addresses

Press the up arrow switch once. If diagnostic trouble codes are available, A00 and codE will appear on Cornerpost Display 1.

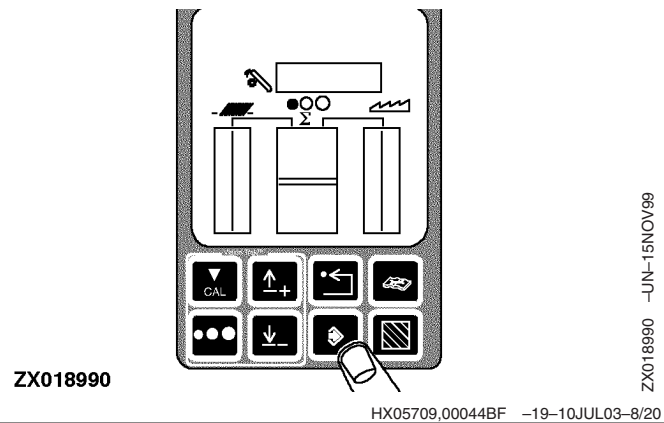
If no DTC is available, A00 and nonE will appear on Cornerpost Display 1.



HX05709,00044BF -19-10JUL03-7/20

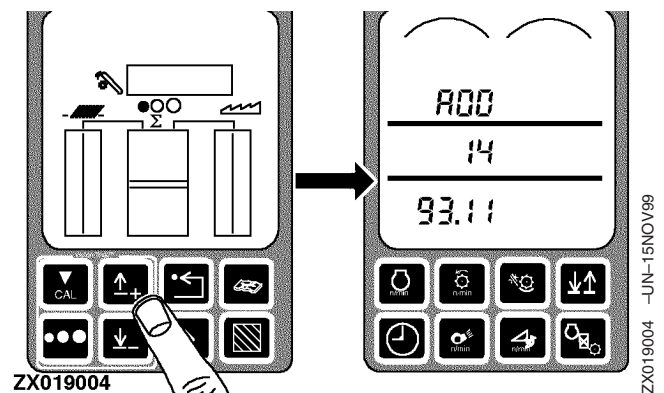
240
10A
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To read and record diagnostic trouble codes press the enter switch.



Press the up or down arrow switch to scroll through the diagnostic trouble codes.

- Record each control unit name
- Record each suspected parameter number
- Record each failure mode identifier



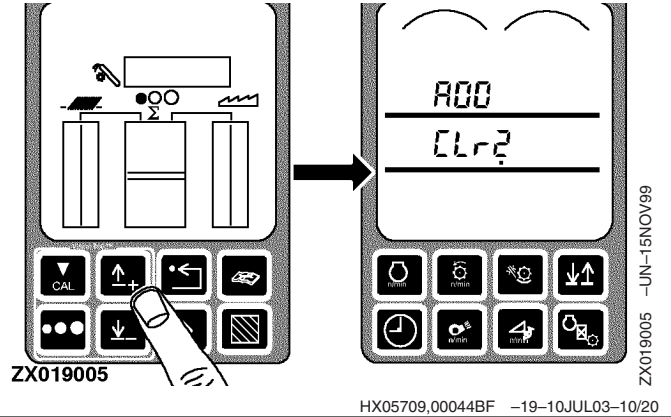
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HX05709,00044BF -19-10JUL03-9/20

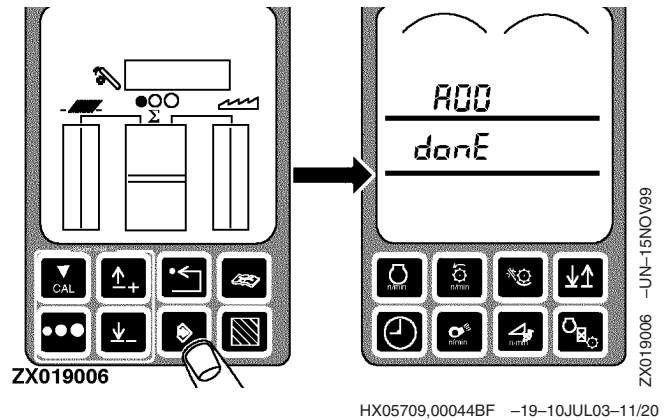
Accessing Diagnostic Trouble Codes and Addresses

After all codes have been displayed, there is an option to clear these codes.

Scroll to end of code list until CLr? is displayed.



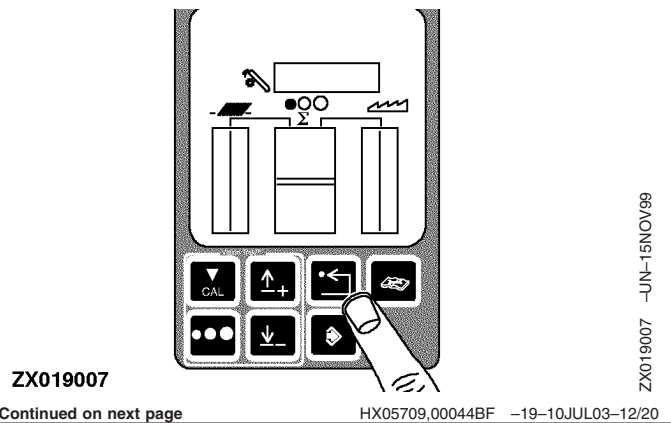
Press the enter switch to clear codes. A00 and donE will appear on Cornerpost Display 1.



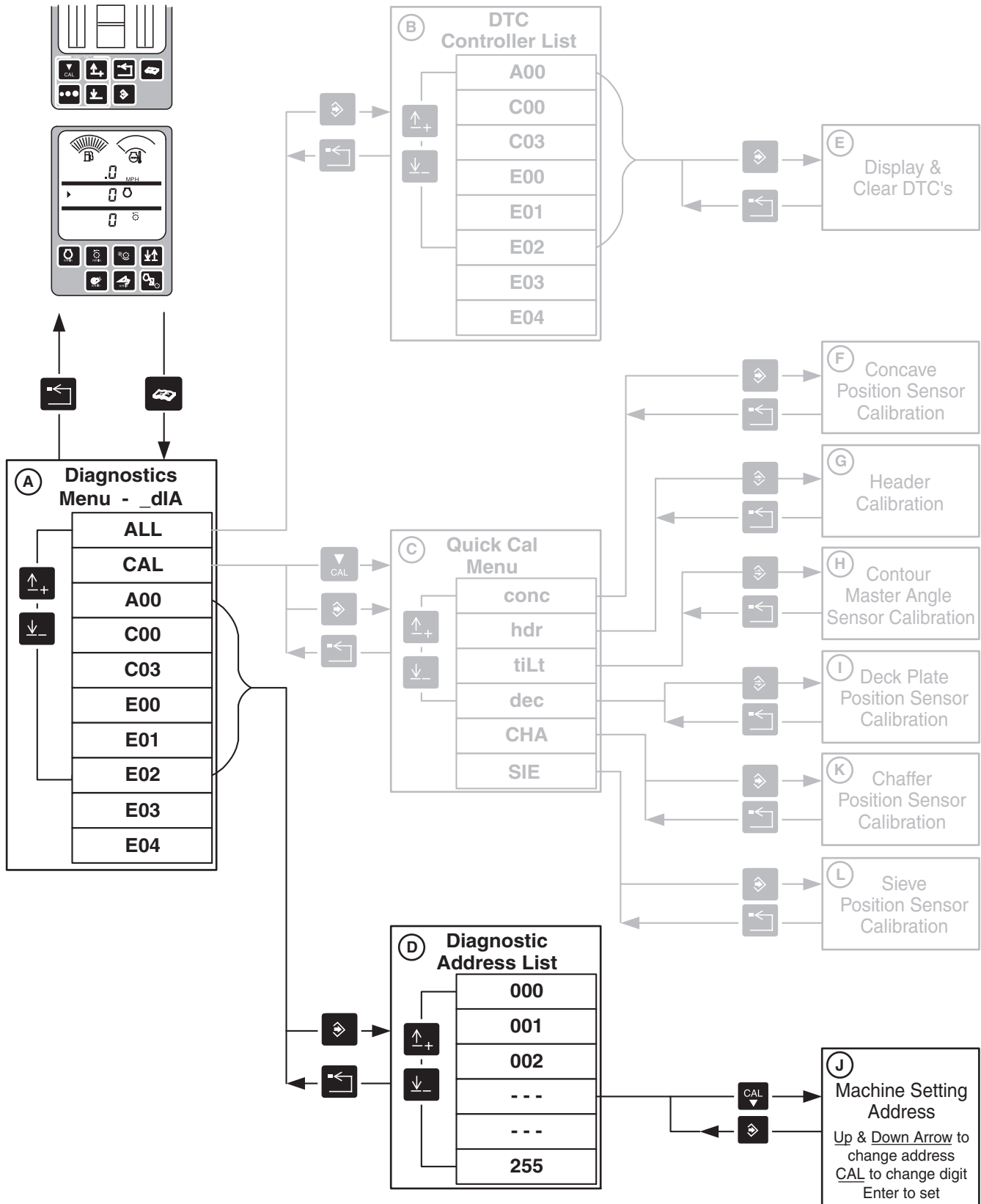
NOTE: Priority 1 codes cannot be cleared until the problem is solved.

Press back arrow switch three times to return to normal operation.

Accessing Diagnostic Addresses



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10A
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HXC73553 -UN-24SEP02

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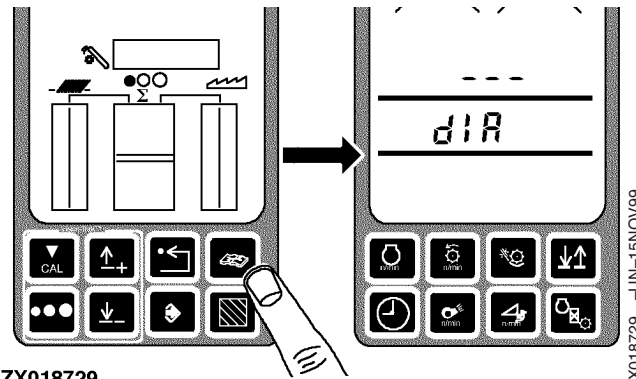
HX05709_00044BF -19-10JUL03-13/20

Accessing Diagnostic Trouble Codes and Addresses

- | | | | |
|--|---|--|---|
| <p>A—Diagnostics Menu
 B—Diagnostic Trouble Code Controller List
 C—Quick Cal Menu
 D—Diagnostic Address List
 E—Display and Clear Diagnostic Trouble codes</p> | <p>F—Concave Position Sensor Calibration
 G—Header Calibration
 H—CONTOUR MASTER Angle Sensor Calibration
 I—Deck Plate Position Sensor Calibration</p> | <p>J—Machine Setting Addresses - Up & Down Arrow Button to change address - CAL Button to change digit - Enter Button to set change into memory</p> | <p>K—Chaffer Position Sensor Calibration
 L—Sieve Position Sensor Calibration</p> |
|--|---|--|---|

HX05709,00044BF -19-10JUL03-14/20

Press the Diagnostic Button. dIA will appear on the Cornerpost Display 1.

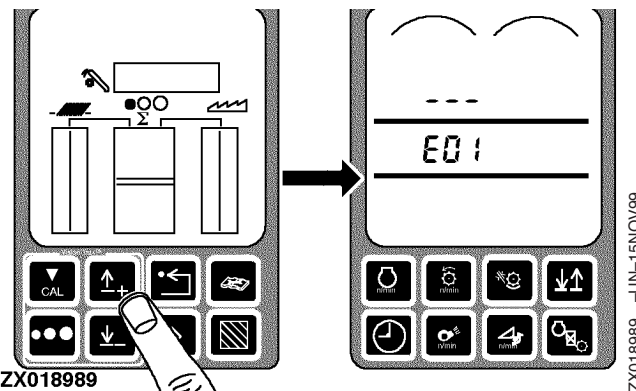


ZX018729

HX05709,00044BF -19-10JUL03-15/20

ZX018729 -JUN-15NOV99

Press the Up or Down Arrow Button to obtain the desired controller address. For example, E01 appears on the Cornerpost Display 1.

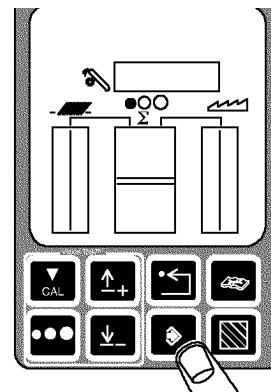


ZX018989

HX05709,00044BF -19-10JUL03-16/20

ZX018989 -JUN-15NOV99

Press the Enter Button.



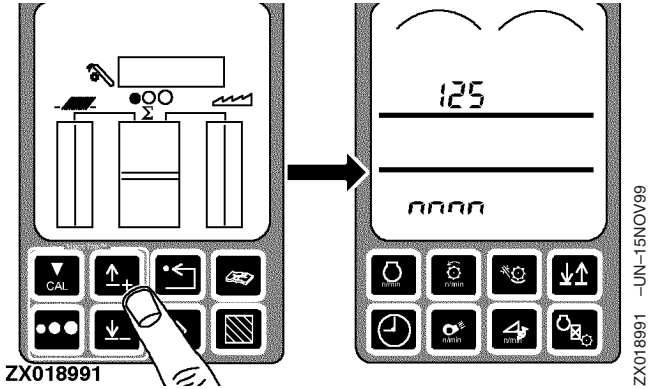
ZX018990

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HX05709,00044BF -19-10JUL03-17/20

ZX018990 -JUN-15NOV99

Press the Up or Down Arrow Button to obtain the desired address. For example, 125 appears on the Cornerpost Display 1.



HX05709,00044BF -19-10JUL03-18/20

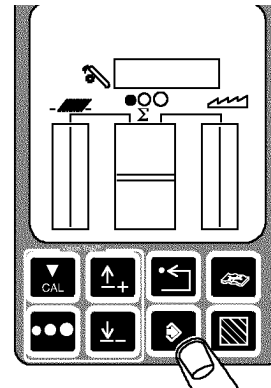
ZX018991 -JUN-15NOV99

Press the Enter Button.

The information located at the address can be observed on the Cornerpost Display 1.

If the address is a DISPLAY/MODIFY type, the contents can be modified.

- The first available number of the value will flash (on middle or lower line depending on header type)
- Press the Up Arrow or Down Arrow Buttons on the display to increase or decrease the value of the flashing digit
- When the desired value is flashing, press the Calibrate Button to move to the next digit
- Continue changing the value, one digit at a time until the desired value is shown on the Cornerpost Display 1
- Press Enter Button to enter the new value into memory



ZX018990 -JUN-15NOV99

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10A
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HX05709,00044BF -19-10JUL03-19/20

Return to normal operation:

- Press the Back Arrow Button twice to return to normal operation
- Turn the Key Switch OFF
- The next time the machine is started, this calibration information will be used by the combine

WARNING Messages and Fault Codes Displayed on GREENSTAR™ Display

HARVEST DOC and **HARVEST MONITOR** Warning messages:

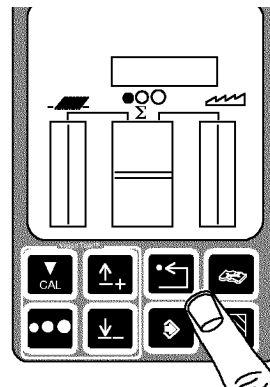
Messages generated by a problem controller(s) are sent to the GREENSTAR Display over the CAN Bus network.

A **WARNING** message is displayed on the GREENSTAR Display as a full page message. Cancelling the **WARNING** message by pressing the button next to the word **CANCEL** will cause the message to disappear.

CAUTION messages located in section “G” of the GREENSTAR Display will be displayed following the canceling of the **WARNING** message. When the problem is fixed or no longer exists the **CAUTION** message in section “G” will no longer be displayed.

HARVEST DOC and **HARVEST MONITOR** Internal Fault Codes:

Fault Codes can be viewed by pressing the **INFO** button on the GREENSTAR Display. Then pressing the button next to the entry **GreenStar Display** followed by pressing the button next to the words **Recent Problems**. The codes will be displayed on this page with a short description following the code. To clear these Fault Code(s), press the button next to the words **Fault Codes**.



ZX018740

ZX018740 –UN–26NOV99

240
10A
9

240
10A
10

Diagnostic Trouble Codes, Warning Messages and Fault Codes

Diagnostic Trouble Code Priorities

IMPORTANT: These Diagnostic Trouble Codes are listed for reference only. Go to the Diagnostic Group of the problem system for specific diagnostic information.

Each Diagnostic Trouble Code (DTC) has a priority. The priority of the DTC is indicated in the way the DTC is displayed to the operator:

- Priority 1 - The Cornerpost Display 1 will stop normal function and the DTC will be displayed. This indicates a problem that requires the combine be stopped, the engine turned off immediately and the problem corrected. The Cornerpost Display 1 will show the DTC until the problem is resolved.
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Continued on next page

HX05709,00044C0 -19-05AUG03-1/26

A00 - Engine Control Unit Diagnostic Trouble Codes

Control Unit	SPN	FMI	Pri.	Description	Go To Section	Go To Group
A00	91	09	3	CAN Bus message containing throttle input not valid or not received	240	Engine and Fuel Control Diagnostics
A00	94	03	1	Fuel Pressure Sensor (cc# 722) voltage out of range high - greater than 4.75 VDC (9660, 9660 CTS, 9560 STS, 9660 STS, 9760 STS)	240	Engine and Fuel Control Diagnostics
A00	94	04	1	Fuel Pressure Sensor (cc# 135) voltage out of range low. (9560, 9660, 9660 CTS, 9560 STS, 9660 STS, 9760 STS)	240	Engine and Fuel Control Diagnostics
A00	94	10	2	Sudden decrease in rail pressure detected. (9660, 9660 CTS, 9560 STS, 9660 STS, 9760 STS)	220	Engine Diagnostics
A00	94	13	1	Fuel Pressure Sensor reading is higher than expected. (9560, 9660, 9660 CTS, 9560 STS, 9660 STS, 9760 STS)	220	Engine Diagnostics
A00	94	17	2	During starting, rail pressure is not developed after a short time cranking.(9560, 9660, 9660 CTS, 9560 STS, 9660 STS, 9760 STS)	220	Engine Diagnostics
A00	97	03	2	Water in Fuel Sensor (cc# 136) voltage out of range high (9660, 9660 CTS, 9560 STS, 9660 STS, 9760 STS, 9860 STS)	240	Engine and Fuel Control Diagnostics
A00	97	04	2	Water in Fuel Sensor (cc# 136) voltage out of range low (9660, 9660 CTS, 9560 STS, 9660 STS, 9760 STS, 9860 STS)	240	Engine and Fuel Control Diagnostics
A00	97	31	2	Water is detected in fuel. Drain water separator bowl. (9660, 9660 CTS, 9560 STS, 9660 STS, 9760 STS)	240	Engine and Fuel Control Diagnostics
A00	100	01	1	Oil Pressure Sensor is open after engine RPM is above cranking speed.	220	Engine Diagnostics
A00	100	04	2	Oil Pressure Sensor is closed when engine is not running.	240	Warning - Engine Oil Pressure Low Diagnostics
A00	105	00	1	Engine manifold air temperature above 100°C / 212°F. (9560)	230	Engine Cooling Package Diagnostics
A00	105	03	2	Engine Manifold Air Temperature Sensor voltage is out of range high. The device or wiring is faulty.	240	Engine and Fuel Control Diagnostics
A00	105	04	2	Engine Manifold Air Temperature Sensor voltage is out of range low. The device or wiring is faulty.	240	Engine and Fuel Control Diagnostics
A00	105	16	2	Engine manifold air temperature above 88°C / 190°F (moderately severe level). Maximum power level is derated. Power boost is disabled. (9560, 9660, 9660 CTS, 9560 STS, 9660 STS, 9760 STS, 9860 STS)	230	Engine Cooling Package Diagnostics
A00	107	00	2	Air Filter Restricted Switch indicates a plugged air filter.	230	Air Intake Diagnostics
A00	110	00	1	Engine coolant temperature above 115°C / 240°F (most severe level). Maximum power level is derated. Power boost is disabled. (9560, 9660, 9660 CTS, 9560 STS, 9660 STS, 9760 STS)	230	Engine Cooling Package Diagnostics

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10B
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HX05709,00044C0 -19-05AUG03-2/26

Diagnostic Trouble Codes, Warning Messages and Fault Codes

Control Unit	SPN	FMI	Pri.	Description	Go To Section	Go To Group
A00	110	00	1	Engine coolant temperature above 120°C / 248°F (most severe level). Maximum power level is derated. Power boost is disabled. (9560)	230	Engine Cooling Package Diagnostics
A00	110	03	2	Engine Coolant Temperature Sensor voltage is out of range high. The device or wiring is faulty.	240	Engine and Fuel Control Diagnostics
A00	110	04	2	Engine Coolant Temperature Sensor voltage is out of range low. The device or wiring is faulty.	240	Engine and Fuel Control Diagnostics
A00	110	15	2	Engine coolant temperature above 105°C / 221°F. Maximum power level is derated. Power boost is disabled. (9560)	230	Engine Cooling Package Diagnostics
A00	110	16	2	Engine coolant temperature above 110°C / 230°F. Maximum power level is derated. Power boost is disabled. (9560, 9660, 9660 CTS, 9560 STS, 9660 STS, 9760 STS)	230	Engine Cooling Package Diagnostics
A00	111	01	1	Coolant level low. Engine coolant temperature above 125°C / 257°F. Maximum power level is derated. Power boost is disabled. (9660, 9660 CTS, 9560 STS, 9660 STS, 9760 STS)	230	Engine Cooling Package Diagnostics
A00	158	17	2	Controller not powered down properly.	240	Engine and Fuel Control Diagnostics
A00	174	03	2	Engine Fuel Temperature Sensor voltage is out of range high. The device or wiring is faulty.	240	Engine and Fuel Control Diagnostics
A00	174	04	2	Engine Fuel Temperature Sensor voltage is out of range low. The device or wiring is faulty.	240	Engine and Fuel Control Diagnostics
A00	174	16	2	Engine fuel temperature above normal range (greater than 65°C /149°F). (9660, 9660 CTS, 9560 STS, 9660 STS, 9760 STS)	230	Engine Cooling Package Diagnostics
A00	174	16	2	Engine fuel temperature above normal range (greater than 80°C /176°F). Maximum power level and power boost are derated. (9560)	230	Engine Cooling Package Diagnostics
A00	611	03	1	The injector driver has detected a short to battery in the injector wiring. (9560, 9660, 9660 CTS, 9560 STS, 9660 STS, 9760 STS)	240	Engine and Fuel Control Diagnostics
A00	611	04	1	The injector driver has detected a short to ground in the injector wiring. (9560, 9660, 9660 CTS, 9560 STS, 9660 STS, 9760 STS)	240	Engine and Fuel Control Diagnostics
A00	620	03	2	Engine Control Unit internal 5 Volts DC Supply out of range or incorrect high. (9660, 9660 CTS, 9560 STS, 9660 STS, 9760 STS, 9860 STS)	240	Engine and Fuel Control Diagnostics
A00	620	04	2	Engine Control Unit internal 5 Volts DC Supply out of range or incorrect low. (9660, 9660 CTS, 9560 STS, 9660 STS, 9760 STS, 9860 STS)	240	Engine and Fuel Control Diagnostics
A00	627	01	2	All injector currents are out of specification. The injector pull-in current is too low or the injector hold-in current is incorrect.	240	Engine and Fuel Control Diagnostics
A00	636	02	2	Electrical noise detected on Pump Position Sensor + (cc# 172) and/or Pump Position Sensor - (cc# 173).	240	Engine and Fuel Control Diagnostics
A00	636	08	2	Pump Position Sensor signal is missing.	240	Engine and Fuel Control Diagnostics

240
10B
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HX05709,00044C0 -19-05AUG03-3/26

Diagnostic Trouble Codes, Warning Messages and Fault Codes

Control Unit	SPN	FMI	Pri.	Description	Go To Section	Go To Group
A00	636	10	2	Pump Position Sensor signal has incorrect pulse pattern.	240	Engine and Fuel Control Diagnostics
A00	637	02	2	Electrical noise detected on Engine Speed Sensor + (cc# 174) and/or Engine Speed Sensor - (cc# 175).	240	Engine and Fuel Control Diagnostics
A00	637	07	2	Position relationship between Engine Speed Sensor and Pump Position Sensor not correct.	240	Engine and Fuel Control Diagnostics
A00	637	08	2	Engine Speed Sensor signal is missing.	240	Engine and Fuel Control Diagnostics
A00	637	10	2	Engine Speed Sensor signal has incorrect pulse pattern.	240	Engine and Fuel Control Diagnostics
A00	651	05	2	The current to Injector #1 is less than expected.	240	Engine and Fuel Control Diagnostics
A00	651	06	2	The current to Injector #1 increases too rapidly.	240	Engine and Fuel Control Diagnostics
A00	651	07	2	The fuel flow to cylinder #1 is lower than expected. (9660, 9660 CTS, 9560 STS, 9660 STS, 9760 STS)	240	Engine and Fuel Control Diagnostics
A00	652	05	2	The current to Injector #2 is less than expected.	240	Engine and Fuel Control Diagnostics
A00	652	06	2	The current to Injector #2 increases too rapidly.	240	Engine and Fuel Control Diagnostics
A00	652	07	2	The fuel flow to cylinder #2 is lower than expected. (9660, 9660 CTS, 9560 STS, 9660 STS, 9760 STS)	240	Engine and Fuel Control Diagnostics
A00	653	05	2	The current to Injector #3 is less than expected.	240	Engine and Fuel Control Diagnostics
A00	653	06	2	The current to Injector #3 increases too rapidly.	240	Engine and Fuel Control Diagnostics
A00	653	07	2	The fuel flow to cylinder #3 is lower than expected. (9660, 9660 CTS, 9560 STS, 9660 STS, 9760 STS)	240	Engine and Fuel Control Diagnostics
A00	654	05	2	The current to Injector #4 is less than expected.	240	Engine and Fuel Control Diagnostics
A00	654	06	2	The current to Injector #4 increases too rapidly.	240	Engine and Fuel Control Diagnostics
A00	654	07	2	The fuel flow to cylinder #4 is lower than expected. (9660, 9660 CTS, 9560 STS, 9660 STS, 9760 STS)	240	Engine and Fuel Control Diagnostics
A00	655	05	2	The current to Injector #5 is less than expected.	240	Engine and Fuel Control Diagnostics
A00	655	06	2	The current to Injector #5 increases too rapidly.	240	Engine and Fuel Control Diagnostics
A00	655	07	2	The fuel flow to cylinder #5 is lower than expected. (9660, 9660 CTS, 9560 STS, 9660 STS, 9760 STS)	240	Engine and Fuel Control Diagnostics
A00	656	05	2	The current to Injector #6 is less than expected.	240	Engine and Fuel Control Diagnostics
A00	656	06	2	The current to Injector #6 increases too rapidly.	240	Engine and Fuel Control Diagnostics

240
10B
4

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HX05709,00044C0 -19-05AUG03-4/26

Diagnostic Trouble Codes, Warning Messages and Fault Codes

Control Unit	SPN	FMI	Pri.	Description	Go To Section	Go To Group
A00	656	07	2	The fuel flow to cylinder #6 is lower than expected. (9660, 9660 CTS, 9560 STS, 9660 STS, 9760 STS)	240	Engine and Fuel Control Diagnostics
A00	676	03	2	Glow Plug Relay Output (cc# 191) is high when Engine Control Unit is not energizing the Glow Plug Relay. (9560)	240	Glow Plug Diagnostics
A00	676	05	2	Glow Plug Relay Output (cc# 191) is low when Engine Control Unit is energizing the Glow Plug Relay. (9560)	240	Glow Plug Diagnostics
A00	931	11	2	Transfer Pump Relay Signal (cc# 36) driver detects an open or short circuit condition. The Engine Control Unit cannot power the Fuel Transfer Pump Relay (K13 in the Engine Compartment Relay Panel) until the fault condition is removed. (9560)	240	Fuel Transfer Pump Diagnostics
A00	1080	03	1	Rail Pressure Sensor Power (cc# 721) voltage too high. (9660, 9660 CTS, 9560 STS, 9660 STS, 9760 STS)	240	Engine and Fuel Control Diagnostics
A00	1080	04	1	Rail Pressure Sensor Power (cc# 721) voltage too low. (9560, 9660, 9660 CTS, 9560 STS, 9660 STS, 9760 STS)	240	Engine and Fuel Control Diagnostics
A00	1347	03	1	Driver detects problem in circuit to Pump Solenoid Low (cc# 178). Circuit has short to battery voltage. (9560)	240	Engine and Fuel Control Diagnostics
A00	1347	05	1	Driver detects problem in circuit to Pump Solenoid High (cc# 176). Measured current does not match commanded current. (9560)	240	Engine and Fuel Control Diagnostics
A00	1347	05	2	Driver detects problem in circuit to Pump Solenoid High (cc# 176). (9560, 9660, 9660 CTS, 9560 STS, 9660 STS, 9760 STS)	240	Engine and Fuel Control Diagnostics
A00	1347	07	2	Rail Pressure Control is unable to match required rail pressure. It may be too high or too low. (9560, 9660, 9660 CTS, 9560 STS, 9660 STS, 9760 STS)	220	Engine Diagnostics
A00	1347	10	2	Pump Solenoid 1 is not delivering expected fuel flow. (9660, 9660 CTS, 9560 STS, 9660 STS, 9760 STS)	220	Engine Diagnostics
A00	1348	05	2	Driver detects problem in circuit to Pump Solenoid Low 2 (cc# 179). (9660, 9660 CTS, 9560 STS, 9660 STS, 9760 STS)	240	Engine and Fuel Control Diagnostics
A00	1348	10	2	Pump Solenoid 2 is not delivering expected fuel flow. (9660, 9660 CTS, 9560 STS, 9660 STS, 9760 STS)	220	Engine Diagnostics
A00	1569	31	2	Engine protection - power derated due to other faults. This code occurs in conjunction with 105.16, 110.00, 110.03, 110.04, and 110.16.	230	Engine Cooling Package Diagnostics
A00	2000	13	1	Engine Control Unit security violation.	240	Engine and Fuel Control Diagnostics

240
10B
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HX05709,00044C0 -19-05AUG03-5/26

C00 - Armrest Control Unit Diagnostic Trouble Codes

Control Unit	SPN	FMI	Pri.	Description	Go To Section	Go To Group
C00	158	04	3	Control Circuit Power (cc# 023) is below 10.5 VDC.	240	Engine Compartment Relay Panel Diagnostics
C00	170	03	3	CLIMATRAK Cab Air Temperature Sensor voltage too high - greater than 4.8 VDC. Indicates that the sensor resistance is greater than 60K Ohms. (-22°F or -30°C).	240	CLIMATRAK Diagnostics
C00	170	04	3	CLIMATRAK Cab Air Temperature Sensor voltage too low - less than 0.1 VDC. Indicates that the sensor resistance is less than 50 Ohms (293°F or 145°C).	240	CLIMATRAK Diagnostics
C00	172	03	3	CLIMATRAK Outside Air Temperature Sensor voltage too high - greater than 4.8 VDC. Indicates that the sensor resistance is greater than 60K Ohms (-22°F or -30°C).	240	CLIMATRAK Diagnostics
C00	172	04	3	CLIMATRAK Outside Air Temperature Sensor voltage too low - less than 0.1 VDC. Indicates that the sensor resistance is less than 50 Ohms (293°F or 145°C).	240	CLIMATRAK Diagnostics
C00	190	09	3	CAN Bus message missing from Engine Control Unit - Engine Speed	240	CAN Bus Diagnostics
C00	605	04	3	CLIMATRAK Lo Pressure Switch (cc# 914) is 12 VDC. A CAN Bus message from the Left Control Unit indicates that the CLIMATRAK Hi Pressure Switch (cc# 915) is 0 VDC. The CLIMATRAK Hi Pressure Switch is open or there is a harness problem.	240	CLIMATRAK Diagnostics
C00	627	03	1	Delayed Power (cc# 006) voltage is above 16 VDC. High voltage situation must be resolved.	240	Alternator and Battery Diagnostics
C00	627	04	3	Delayed Power (cc# 006) voltage is below 10.5 VDC.	240	Engine Compartment Relay Panel Diagnostics
C00	628	12	1	Controller cannot exit boot block program. Disconnect Armrest Control Unit connectors X653 and X654. Reconnect connectors. Replace Armrest Control Unit if condition persists.		
C00	630	11	1	Controller failed EEPROM test at power-up. Replace Armrest Control Unit if condition persists.		
C00	639	19	3	CAN Bus messages are not being transmitted or received correctly. Possible effects are none, slow response, or machine down.	240	CAN Bus Diagnostics
C00	875	04	3	CAN Bus message from Left Control Unit indicates that CLIMATRAK Clutch Signal (cc# 913) is 12 VDC. CLIMATRAK Lo Pressure Switch (cc# 914) is 0 VDC. The CLIMATRAK Lo Pressure Switch is open or there is a harness problem.	240	CLIMATRAK Diagnostics
C00	1490	08	2	Feeder House Backshaft speed unknown. Damage could occur to feeder house if direction is changed while feeder house is turning.	240	Cornerpost - Variable Speed Feeder House Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Control Unit	SPN	FMI	Pri.	Description	Go To Section	Go To Group
C00	1498	11	3	The header engage output transistor detects an open, short, over voltage, or over temperature condition. The Armrest Control Unit will disengage the header. The fault condition must be removed before the header can be engaged.	240	Header Engage Diagnostics
C00	1499	11	3	The separator engage output driver detects an open, short, over voltage, or over temperature condition. The Armrest Control Unit will disengage the separator. The fault condition must be removed before the separator can be engaged.	240	Separator Engage Diagnostics
C00	1499	12	2	The separator engage fault detection circuit indicates a failure. This is an important disengagement override system. Replace the Armrest Control Unit if condition persists.		
C00	1504	11	1	The Seat Switch has been closed continuously for 6 hours. The switch or the wiring harness is shorted. The header will not disengage when the operator has left the seat. This must be corrected.	240	Header Engage Diagnostics
C00	1547	03	3	CLIMATRAK Core Temperature Sensor voltage too high - greater than 4.47 VDC. Indicates that the sensor resistance is greater than 101K Ohms (-4°F or -20°C).	240	CLIMATRAK Diagnostics
C00	1547	04	3	CLIMATRAK Core Temperature Sensor voltage too low - less than 0.1 VDC. Indicates that the sensor resistance is less than 52 Ohms (356°F or 180°C).	240	CLIMATRAK Diagnostics
C00	1548	03	3	CLIMATRAK Outlet Air Temperature Sensor voltage too high - greater than 4.8 VDC. Indicates that the sensor resistance is greater than 60K Ohms (-22°F or -30°C).	240	CLIMATRAK Diagnostics
C00	1548	04	3	CLIMATRAK Outlet Air Temperature Sensor voltage too low - less than 0.1 VDC. Indicates that the sensor resistance is less than 50 Ohms (293°F or 145°C).	240	CLIMATRAK Diagnostics
C00	1549	07	3	CLIMATRAK water valve position is greater than 30% different than the commanded position.	240	CLIMATRAK Diagnostics
C00	200017	09	3	CAN Bus message(s) missing from Cornerpost Control Unit.	240	CAN Bus Diagnostics
C00	200018	09	3	CAN Bus message(s) missing from Left Control Unit.	240	CAN Bus Diagnostics
C00	200201	11	3	Separator Engage Switch inputs are incorrect.	240	Separator Engage Diagnostics
C00	200202	11	3	Header Engage Switch inputs are incorrect.	240	Header Engage Diagnostics

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C03 - Cornerpost Control Unit Diagnostic Trouble Codes

Control Unit	SPN	FMI	Pri.	Description	Go To Section	Go To Group
C03	96	09	3	CAN Bus message missing from Right Control Unit - Fuel Level.	240	CAN Bus Diagnostics.
C03	110	09	3	CAN Bus message missing from Engine Control Unit - Engine Coolant Temperature	240	CAN Bus Diagnostics
C03	190	09	3	CAN Bus message missing from Engine Control Unit - Engine Speed	240	CAN Bus Diagnostics
C03	627	03	3	Delayed Power (cc# 006) voltage out of range high - greater than 16 VDC.	240	Alternator and Battery Diagnostics
C03	628	12	1	Controller cannot exit boot block program. Disconnect Cornerpost Control Unit connector X500. Reconnect connector. Replace Cornerpost Control Unit if condition persists.		
C03	630	11	1	EEPROM failed test at power up. Replace Cornerpost Control Unit if condition persists.		
C03	639	19	3	CAN Bus messages are not being transmitted or received correctly. Possible effects are none, slow response, or machine down.	240	CAN Bus Diagnostics
C03	1079	03	3	Concave position sensor supply voltage high - greater than 5.5 VDC.	240	Cornerpost - Concave (Threshing) Clearance Diagnostics
C03	1079	04	3	Concave position sensor supply voltage low - less than 4.5 VDC.	240	Cornerpost - Concave (Threshing) Clearance Diagnostics
C03	1486	03	3	Concave position sensor voltage is too high - greater than 4.5 VDC. The device or wiring is faulty.	240	Cornerpost - Threshing Clearance Diagnostics
C03	1486	04	3	Concave position sensor voltage is too low - less than 0.5 VDC. The device or wiring is faulty.	240	Cornerpost - Threshing Clearance Diagnostics
C03	1487	03	3	Dimmer voltage is too high - greater than 4.5 VDC. The device or wiring is faulty.	240	Lighting - Panel Lights Diagnostics
C03	1487	04	3	Dimmer voltage is too low - less than 0.5 VDC. The device or wiring is faulty.	240	Lighting - Panel Lights Diagnostics
C03	1492	08	3	Cab interior backlighting output transistor detects an open, short, over voltage, or over temperature condition. The Cornerpost Control Unit will turn off the backlighting. The fault condition must be removed before the backlighting can be turned on.	240	Lighting - Panel Lights Diagnostics
C03	1493	09	3	CAN Bus message missing from Master Tailings Sensor - Tailings Volume	240	CAN Bus Diagnostics
C03	1500	11	3	A switch on Cornerpost Display Unit 1 is closed for longer than 30 Seconds.	240	Cornerpost Control Unit Overall Diagnostics
C03	1501	11	3	A switch on Cornerpost Display Unit 2 is closed for longer than 30 Seconds.	240	Cornerpost Control Unit Overall Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Control Unit	SPN	FMI	Pri.	Description	Go To Section	Go To Group
C03	1502	11	3	A switch on Cornerpost Display Unit 3 is closed for longer than 30 Seconds.	240	Cornerpost Control Unit Overall Diagnostics
C03	1503	09	3	CAN Bus message missing from Armrest Control Unit - Armrest Switch Status	240	CAN Bus Diagnostics
C03	1510	09	3	CAN Bus message missing from Right Control Unit - Combine Temperatures	240	CAN Bus Diagnostics
C03	1511	09	3	CAN Bus message missing from Right Control Unit - Grain Loss	240	CAN Bus Diagnostics
C03	1515	09	3	CAN Bus message missing from Header Control Unit - Header Data	240	CAN Bus Diagnostics
C03	1552	13	3	CLIMATRAK temperature setpoint adjust not calibrated. Refer to Diagnostic Address C03-135 for calibration.	240	Diagnostic Addresses by Controller
C03	1552	03	3	CLIMATRAK temperature setpoint adjust voltage too high - greater than 4.5 VDC. Device or wiring is faulty.	240	CLIMATRAK Diagnostics
C03	1552	04	3	CLIMATRAK temperature setpoint adjust voltage too low - less than 0.5 VDC. Device or wiring is faulty.	240	CLIMATRAK Diagnostics
C03	1553	13	3	CLIMATRAK fan speed adjust not calibrated. Refer to Diagnostic Address C03-134 for calibration.	240	Diagnostic Addresses by Controller
C03	1553	03	3	CLIMATRAK fan speed adjust voltage too high - greater than 4.5 VDC. Device or wiring is faulty.	240	CLIMATRAK Diagnostics
C03	1553	04	3	CLIMATRAK fan speed adjust voltage too low - less than 0.5 VDC. Device or wiring is faulty.	240	CLIMATRAK Diagnostics
C03	1565	09	3	CAN Bus message missing from Armrest Control Unit - Separator and Header Engage Status	240	CAN Bus Diagnostics
C03	1567	09	3	CAN Bus message missing from Header Control Unit - Control Mode	240	CAN Bus Diagnostics
C03	100100	09	3	CAN Bus message missing from Left Control Unit - System Data	240	CAN Bus Diagnostics
C03	100101	09	3	CAN Bus message missing from Left Control Unit 2 - System Data	240	CAN Bus Diagnostics
C03	100106	11	3	A switch on Cornerpost Display Unit 4 is closed for longer than 30 Seconds.	240	Cornerpost Control Unit Overall Diagnostics

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E00 - Tailings Master Sensor Diagnostic Trouble Codes

Control Unit	SPN	FMI	Pri.	Description	Go To Section	Go To Group
E00	190	09	3	CAN Bus message missing from Engine Control Unit - Engine Speed	240	CAN Bus Diagnostics
E00	628	12	2	Controller cannot exit boot block program. Turn Key Switch to the OFF position. Wait 30 seconds. Replace Master Tailings Sensor if condition persists.		
E00	630	11	2	EEPROM failed test at power up. Replace the Master Tailings Sensor if condition persists.		
E00	639	19	3	CAN Bus messages are not being transmitted or received correctly. Possible effects are none, slow response, or machine down.	240	Tailings Monitor Diagnostics
E00	639	09	3	CAN Bus messages are not received by the Tailings Master Control Unit in a timely manner. Possible effects are none, slow response, or machine down. Other Diagnostic Trouble Codes will indicate the lost message.	240	Tailings Monitor Diagnostics
E00	1493	11	3	Tailings system failure. Cause unknown.	240	Tailings Monitor Diagnostics
E00	1493	15	3	Tailings system calibration is out of range high (sensor detectors are receiving too little light). Recalibrate. If situation persists, possible dirty sensor or failed sensor.	240	Tailings Monitor Diagnostics
E00	1493	17	3	Tailings system calibration is out of range low (sensor detectors are receiving too much light). Recalibrate. If situation persists, possible missing elevator paddle or failed sensor.	240	Tailings Monitor Diagnostics
E00	1494	11	3	Master Tailings Sensor failure. Cause unknown.	240	Tailings Monitor Diagnostics
E00	1494	08	3	Stuck photo receiver detected in Master Tailings Sensor. Clean master tailings sensor. If condition persists, replace sensor.		
E00	1495	11	3	Slave Tailings Sensor failure. Cause unknown.	240	Tailings Monitor Diagnostics
E00	1495	08	3	Stuck photo receiver detected in Slave Tailings Sensor. Clean Slave Tailings Sensor. If condition continues, replace sensor.		
E00	1496	07	3	Tailings elevator paddle missing	240	Tailings Monitor Diagnostics
E00	1511	09	3	CAN Bus message missing from Right Control Unit - Seed Size	240	CAN Bus Diagnostics
E00	1565	09	3	CAN Bus message missing from Armrest Control Unit - Header and Separator Engaged	240	CAN Bus Diagnostics

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E01 - Header Control Unit Diagnostic Trouble Codes

Control Unit	SPN	FMI	Pri.	Description	Go To Section	Go To Group
E01	84	09	3	CAN Bus message missing from Cornerpost Control Unit - Wheel Speed	240	CAN Bus Diagnostics
E01	190	09	3	CAN Bus message missing from Engine Control Unit - Engine Speed	240	CAN Bus Diagnostics
E01	627	03	1	Controller supply voltage out of range high - greater than 16 VDC.	240	Alternator and Battery Diagnostics
E01	628	12	1	Controller cannot exit boot block program. Disconnect Header Control Unit connector X205. Reconnect connector. Replace Header Control Unit if condition persists		
E01	630	11	3	EEPROM failed test at power up. Replace the Header Control Unit if condition persists.	240	Header Control Unit Overall Diagnostics
E01	639	13	3	Multiple CAN Bus messages have not been received by the Header Control Unit in a timely manner. Possible effects are no effect, slowed response, or no response.	240	CAN Bus Diagnostics
E02	639	19	2	CAN Bus messages are not being transmitted or received correctly. Possible effects are none, slow response, or machine down.	240	CAN Bus Diagnostics
E01	1079	03	2	Height Sensor Power (cc# 481) voltage is too high - greater than 5.25 VDC. Height Sensor Power is used to power the Return To Cut Sensor, Reel Fore/Aft Position Sensor, Deck Plate Position Sensor, Right Header Height Sensor, Center Header Height Sensor and	240	Header Control Unit Overall Diagnostics
E01	1079	04	2	Height Sensor Power (cc# 481) voltage is too low - less than 4.75 VDC. Height Sensor Power is used to power the Return To Cut Sensor, Reel Fore/Aft Position Sensor, Deck Plate Position Sensor, Right Header Height Sensor, Center Header Height Sensor and Left	240	Header Control Unit Overall Diagnostics
E01	1080	03	2	Height Sensor Power 2 (cc# 471) voltage is too high - greater than 5.25 VDC. Height Sensor Power 2 is used to power the CONTOUR MASTER Angle Sensor and the Header Raise Pressure Sensor. The voltage regulator of the Header Control Unit is bad or there is a s	240	Header Control Unit Overall Diagnostics
E01	1080	04	2	Height Sensor Power 2 (cc# 471) voltage is too low - less than 4.75 VDC. Height Sensor Power 2 is used to power the CONTOUR MASTER Angle Sensor and the Header Raise Pressure Sensor. The voltage regulator of the Header Control Unit is bad or there is a short	240	Header Control Unit Overall Diagnostics
E01	1515	13	2	Active Header Height Control system or CONTOUR MASTER system not calibrated for currently attached header. Perform the calibration procedure.	240	Quick Cal Procedures
E01	1516	13	2	Header Float system not calibrated for currently attached header. Perform the calibration procedure.	240	Quick Cal Procedures

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Control Unit	SPN	FMI	Pri.	Description	Go To Section	Go To Group
E01	1518	02	3	The voltage of circuit codes 436, 487, 488, and 489 changed while Active Header Height Control was an automatic mode. These are the header select lines that identify the type of header on the combine.	240	Active Header Height Control Diagnostics - Type Identification
E01	1518	07	3	Header not connected or invalid connection.	240	Active Header Height Control Diagnostics - Type Identification
E01	1518	14	3	Cannot activate Header Height Sensing or CONTOUR MASTER. Header sensors are not available.	240	Active Header Height Control Diagnostics - Type Identification
E01	1519	11	2	Header raise valve driver detects an open, short, over voltage, or over temperature condition. The Header Control Unit will not actuate the Header Raise Valve until the fault condition is removed.	240	Header Raise/Lower Diagnostics
E01	1520	11	2	Header lower valve driver detects an open, short, over voltage, or over temperature condition. The Header Control Unit will not actuate the Header Lower Valve until the fault condition is removed.	240	Header Raise/Lower Diagnostics
E01	1521	11	2	Tilt left valve driver detects an open, short, over voltage, or over temperature condition. The Header Control Unit will not actuate the CONTOUR MASTER Tilt Left Valve until the fault condition is removed.	240	CONTOUR MASTER - Manual Tilt Diagnostics
E01	1522	11	2	Tilt right valve driver detects an open, short, over voltage, or over temperature condition. The Header Control Unit will not actuate the CONTOUR MASTER Tilt Right Valve until the fault condition is removed.	240	CONTOUR MASTER - Manual Tilt Diagnostics
E01	1523	11	2	HYDRAFLEX diverter valve driver detects an open, short, over voltage, or over temperature condition. The Header Control Unit will not actuate the HYDRAFLEX Diverter Valve until the fault condition is removed.	240	HYDRAFLEX Adjust Diagnostics
E01	1524	11	3	Reel forward valve driver detects an open, short, over voltage, or over temperature condition. The Header Control Unit will not actuate the Reel Forward Valve until the fault condition is removed.	240	Reel Fore/Aft Diagnostics
E01	1525	11	3	Reel aft valve driver detects an open, short, over voltage, or over temperature condition. The Header Control Unit will not actuate the Reel Aft Valve until the fault condition is removed.	240	Reel Fore/Aft Diagnostics
E01	1526	11	3	Reel raise valve driver detects an open, short, over voltage, or over temperature condition. The Header Control Unit will not actuate the Reel Raise Valve until the fault condition is removed.	240	Reel Raise/Lower Diagnostics
E01	1527	11	3	Reel lower valve driver detects an open, short, over voltage, or over temperature condition. The Header Control Unit will not actuate the Reel Lower Valve until the fault condition is removed.	240	Reel Raise/Lower Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Control Unit	SPN	FMI	Pri.	Description	Go To Section	Go To Group
E01	1528	11	3	Active header control valve driver detects an open, short, over voltage, or over temperature condition. The Header Control Unit will not actuate the Active Header Control Valve until the fault condition is removed. (9560, 9660,9660 CTS)	240	Header Raise/Lower Diagnostics
E01	1530	11	3	Unload valve driver detects an open, short, over voltage, or over temperature condition. The Header Control Unit will not actuate the Unload Valve until the fault condition is removed. (9560, 9660, and 9660 CTS)	240	Diagnostic Group of the nonfunctional system
E01	1531	06	2	Reel speed increase driver detects an open, short, over voltage, over temperature condition. The Header Control Unit will not actuate the Reel Speed Actuator in the increase speed mode until the fault condition is removed	240	Reel/Belt Speed Adjust Diagnostics
E01	1532	06	2	Reel speed decrease driver detects an open, short, over voltage, over temperature condition. The Header Control Unit will not actuate the Reel Speed Actuator in the decrease speed mode until the fault condition is removed	240	Reel/Belt Speed Adjust Diagnostics
E01	1533	03	2	Height Resume Sensor (cc# 828) voltage is too high - greater than 4.5 VDC. Faulty device or wiring.	240	Active Header Height Control Diagnostics - Type A
E01	1533	04	2	Height Resume Sensor (cc# 828) voltage is too low - less than 0.5 VDC. Faulty device or wiring.	240	Active Header Height Control Diagnostics - Type A
E01	1534	03	2	Left Header Height Sensor (cc# 412) voltage is too high - greater than 4.5 VDC. Faulty device or wiring.	240	Active Header Height Control Diagnostics - Type B
E01	1534	04	2	Left Header Height Sensor (cc# 412) voltage is too low less than 0.5 VDC. Faulty device or wiring.	240	Active Header Height Control Diagnostics - Type B
E01	1535	03	2	Right Header Height Sensor (cc# 454) voltage is too high - greater than 4.5 VDC). Faulty device or wiring.	240	Active Header Height Control Diagnostics - Type B
E01	1535	04	2	Right Header Height Sensor (cc# 454) voltage is too low - less than 0.5 VDC. Faulty device or wiring.	240	Active Header Height Control Diagnostics - Type B
E01	1536	03	2	Center Header Height Sensor (cc# 414) voltage is too high - greater than 4.5 VDC or shorted pads of the DIAL-A-MATIC Sensor. Faulty device or wiring.	240	Active Header Height Control Diagnostics - Type B
E01	1536	04	2	Center Header Height Sensor (cc# 414) voltage is too low - less than 0.5 VDC or no signal from DIAL-A-MATIC Sensor. Faulty device or wiring.	240	Active Header Height Control Diagnostics - Type B
E01	1537	03	3	Reel fore/aft position sensor or deck plate position sensor (cc# 834) voltage too high - greater than 4.5 VDC. Faulty device or wiring.	240	Reel Fore/Aft Resume Diagnostics or Cornerpost - Deck Plate Spacing Diagnostics
E01	1537	04	3	Reel fore/aft position sensor or deck plate position sensor (cc# 834) voltage too low - less than 0.5 VDC. Faulty device or wiring.	240	Reel Fore/Aft Resume Diagnostics or Cornerpost - Deck Plate Spacing Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Control Unit	SPN	FMI	Pri.	Description	Go To Section	Go To Group
E01	1538	03	3	Reel Height Sensor (cc# 835) voltage too high - greater than 4.5 VDC. Faulty device or wiring.	240	Reel Raise / Lower Resume Diagnostics
E01	1538	04	3	Reel Height Sensor (cc# 835) voltage too low - less than 0.5 VDC. Faulty device or wiring.	240	Reel Raise / Lower Resume Diagnostics
E01	1539	03	3	CONTOUR MASTER Angle Sensor (cc# 833) voltage too high - greater than 4.5 VDC. Faulty device or wiring.	240	Cornerpost - CONTOUR MASTER Position Diagnostics
E01	1539	04	3	CONTOUR MASTER Angle Sensor (cc# 833) voltage too low - less than 0.5 VDC. Faulty device or wiring.	240	Cornerpost - CONTOUR MASTER Position Diagnostics
E01	1541	02	2	Reel speed unknown.	240	DIAL-A-SPEED Diagnostics
E01	1544	09	3	CAN Bus message missing from Armrest Control Unit - Multifunction Control Handle Switch Status	240	CAN Bus Diagnostics
E01	298618	07	2	Reel raise/lower resume system has malfunctioned.	240	Reel Raise/Lower Resume Diagnostics
E01	298618	12	3	Reel raise/lower set point was not reached within 15 seconds	240	Reel Raise/Lower Resume Diagnostics
E01	298619	04	3	HYDRAFLEX Pressure Sensor (cc# 413) voltage is too low - less than 0.5 VDC. Faulty device or wiring.	240	Cornerpost - HYDRAFLEX Pressure Diagnostics
E01	298619	07	2	Reel fore/aft resume system has malfunctioned.	240	Reel Fore/Aft Resume Diagnostics
E01	298620	12	3	Reel fore/aft set point was not reached within 15 seconds	240	Reel Fore/Aft Resume Diagnostics
E01	298621	07	2	HYDRAFLEX system has malfunctioned.	240	Active Header Height Control Diagnostics - Type C
E01	298621	12	3	HYDRAFLEX pressure setpoint was not reached within 15 seconds	240	Active Header Height Control Diagnostics - Type C
E01	523132	11	3	Reel diverter valve driver detects an open, short, over voltage, or over temperature condition. The Header Control Unit will not actuate the Reel Diverter Valve until the fault condition is removed.	240	Active Header Height Control Diagnostics - Type C

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

E02 - Right Control Unit Diagnostic Trouble Codes

Control Unit	SPN	FMI	Pri.	Description	Go To Section	Go To Group
E02	96	03	3	Fuel Level Signal (cc# 652) voltage is too high - greater than 4.50 VDC. The device or wiring is faulty.	240	Cornerpost - Fuel Gauge Diagnostics
E02	96	04	3	Fuel Level Signal (cc# 652) voltage is too low - less than 0.20 VDC. The device or wiring is faulty.	240	Cornerpost - Fuel Gauge Diagnostics
E02	627	03	1	Electronic Power (cc# 021) voltage is too high - greater than 16 VDC.	240	Alternator and Battery Diagnostics
E02	628	12	1	Controller cannot exit boot block program. Turn Key Switch to the OFF position. Wait for 30 seconds. Replace Right Control Unit if condition persists.	240	
E02	630	11	2	EEPROM failed test on power up. Replace the Right Control Unit if condition persists.		
E02	639	19	2	CAN Bus messages are not being transmitted or received correctly. Possible effects are none, slow response, or machine down.	240	CAN Bus Diagnostics
E02	1498	09	3	CAN Bus message missing from Armrest Control Unit - Header Engage Status	240	CAN Bus Diagnostics
E02	1500	09	3	CAN Bus message missing from Cornerpost Control Unit - Machine Configuration	240	CAN Bus Diagnostics
E02	1508	03	2	Hydraulic Oil Temperature Sensor (cc# 775) voltage is too high - greater than 4.97 VDC. The device or wiring is faulty.	240	WDP - Hyd. Oil Temp. High Diagnostics
E02	1508	04	2	Hydraulic Oil Temperature Sensor (cc# 775) voltage is too low - less than 0.29 VDC. The device or wiring is faulty.	240	WDP - Hyd. Oil Temp. High Diagnostics
E02	1509	03	2	Main Gearcase Oil Temperature Sensor (cc# 774) voltage is too high - greater than 4.97 VDC. The device or wiring is faulty.	240	WDP - Main Gearcase Temperature High Diagnostic.
E02	1509	04	2	Main Gearcase Oil Temperature Sensor (cc# 774) voltage is too low - less than 0.29 VDC. The device or wiring is faulty.	240	WDP - Main Gearcase Temperature High Diagnostics.
E02	1565	09	3	CAN Bus message missing from Armrest Control Unit - Discrete Input Status	240	CAN Bus Diagnostics

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E03 - Left Control Unit Diagnostic Trouble Codes

Control Unit	SPN	FMI	Pri.	Description	Go To Section	Go To Group
E03	190	09	3	CAN Bus message(s) missing from Engine Control Unit - Engine Speed	240	CAN Bus Diagnostics
E03	627	03	1	Electronic Power (cc# 021) voltage is too high - greater than 15.5 VDC.	240	Alternator and Battery Diagnostics
E03	628	12	1	Controller cannot exit boot block program. Disconnect Left Control Unit connector X213. Reconnect connector. Replace Left Control Unit if condition persists.		
E03	630	11	3	EEPROM failed test on power up. Replace the Left Control Unit if condition persists.		
E03	639	19	3	CAN Bus messages are not being transmitted or received correctly. Possible effects are none, slow response, or machine down.	240	CAN Bus Diagnostics
E03	876	11	2	CLIMATRAK compressor driver detects an open, short, over voltage, or over temperature condition.	240	CLIMATRAK Diagnostics
E03	1497	11	3	Unloading auger engage driver detects an open, short, over voltage, or over temperature condition. The Left Control Unit cannot engage the auger until the fault condition is removed.	240	Unloading Auger Engage Diagnostics
E03	1500	09	3	CAN Bus message(s) missing from Cornerpost Control Unit - Ground Speed and/or Machine Configuration.	240	CAN Bus Diagnostics
E03	1503	09	3	CAN Bus message(s) missing from Armrest Control Unit	240	CAN Bus Diagnostics
E03	1515	09	3	CAN Bus message(s) missing from Header Control Unit	240	CAN Bus Diagnostics
E03	200126	11	3	Unloading auger swing in driver or the unloading auger swing out driver detects an open, short, over voltage, or over temperature condition. The Left Control Unit cannot swing the auger until the fault condition is removed.	240	Unloading Auger Swing Diagnostics
E03	200128	03	1	SideHill engage is not ON, but 12 VDC is detected on the SideHill Engage Signal (cc# 447) of the Left Control Unit. Possible problem with Left Control Unit or SideHill Engage Signal (cc# 447) shorted to 12 VDC		Refer to TM2163 - Section 240 - SideHill Engage Diagnostics
E03	200128	04	1	SideHill Engage Signal (cc# 447) is not 12 VDC when ON. Possible problem with Left Control Unit or SideHill Engage Signal (cc# 447) wiring. When SideHill is disengaged, the Diagnostic Error Code becomes a stored code.		Refer to TM2163 - Section 240 - SideHill Engage Diagnostics
E03	200129	11	3	Combine lower driver detects an open, short, over voltage, or over temperature condition. The Left Control Unit cannot engage Combine Lower until the fault condition is removed.		Refer to TM2163 - Section 240 - SideHill Engage Diagnostics
E03	200132	11	1	Left brake light driver detects an open, short, over voltage, or over temperature condition. Only active in the ROAD mode.	240	Lighting - Hazard Light Diagnostics
E03	200133	11	1	Right brake light driver detects an open, short, over voltage, or over temperature condition. Only active in the ROAD mode.	240	Lighting - Hazard Light Diagnostics
E03	200134	11	1	Left marker light driver detects an open, short, over voltage, or over temperature condition. Only active in the ROAD mode.	240	Lighting - Marker Light Diagnostics

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Diagnostic Trouble Codes, Warning Messages and Fault Codes

Control Unit	SPN	FMI	Pri.	Description	Go To Section	Go To Group
E03	200135	11	1	Right marker light driver detects an open, short, over voltage, or over temperature condition. Only active in the ROAD mode.	240	Lighting - Marker Light Diagnostics
E03	200137	11	2	Feeder house reverser driver detects an open, short, over voltage, or over temperature condition.	240	CLIMATRAK Diagnostics
E03	200140	03	2	12 VDC detected on Power Ground (cc# 010) of Control Relay Board. Indicates problem with ground connections.	240	Left Control Unit / Control Relay Board Link diagnostics
E03	200141	04	2	12 VDC not detected on Unswitched Electronic Power (cc# 022) of Control Relay Board. Indicates problem with Unswitched Electronic Power connection, wiring or Fuse F20 of the Engine Compartment Relay Panel.	240	Engine Compartment Relay Panel Diagnostics
E03	200142	04	2	12 VDC not detected on Light Power (cc# 014) of Control Relay Board. Indicates problem with Light Power connection, wiring or Fuse F18 of the Engine Compartment Relay Panel.	240	Engine Compartment Relay Panel Diagnostics
E03	200143	04	2	12 VDC not detected on Control Power (cc# 016) of Control Relay Board. Indicates problem with Control Power connection, wiring, Fuse F8 or Relay K4 of the Engine Compartment Relay Panel.	240	Engine Compartment Relay Panel Diagnostics
E03	200144	04	2	12 VDC not detected on Light Power 2 (cc# 046) of Control Relay Board. Indicates problem with Light Power 2 connection, wiring or Fuse F5 of the Engine Compartment Relay Panel.	240	Engine Compartment Relay Panel Diagnostics
E03	200145	04	2	12 VDC not detected on Light Power 3 (cc# 047) of Control Relay Board. Indicates problem with Light Power 3 connection, wiring or Fuse F3 of the Engine Compartment Relay Panel.	240	Engine Compartment Relay Panel Diagnostics
E03	200147	04	2	12 VDC not detected on Fan Speed Adjust Power (cc# 051) of Control Relay Board. Indicates problem with Fan Speed Adjust Power connection, wiring or Fuse F11 or Relay K5 of the Engine Compartment Relay Panel.	240	Engine Compartment Relay Panel Diagnostics
E03	200148	04	2	12 VDC not detected on Light Power 5 (cc# 049) of Control Relay Board. Indicates problem with Light Power 5 connection, wiring or Fuse F9 of the Engine Compartment Relay Panel.	240	Engine Compartment Relay Panel Diagnostics
E03	200149	11	2	Indicates a problem in the serial communication link between the Left Control Unit and the Control Relay Board.	240	Engine Compartment Relay Panel Diagnostics

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