4520 (650001-), 4720 (650001-), Compact Utility Tractor (Without Cab), Tractor Repair

TECHNICAL MANUAL

4520 (650001-), 4720 (650001-), Compact Utility Tractor (Without Cab), Tractor Repair

TM105119 09JUL13 (ENGLISH)

For complete service information also see:

Component Technical Manual 4024 Engine CTM301

John Deere Augusta Works
PRINTED IN U.S.A.

Engine Control Unit (ECU):

SPN No.	SPN Name	FMI No.	Code Description	Level 1 Text	Tech Manual Description	Warning Light	Vehicle Response to Code	Vehicle Recovery
91	Accelerator Pedal Position 1	3	Primary Throttle shorted to high source	ERR 200	Throttle #1 Signal Out of Range High	Service Alert	Function Degraded	Follow troubleshooting procedures
91	Accelerator Pedal Position 1	4	Primary Throttle open or shorted to ground	ERR 200	Throttle #1 Signal Out of Range Low	Service Alert	Function Degraded	Follow troubleshooting procedures
91	Accelerator Pedal Position 1	7	Primary Throttle calibration procedure failed	ERR 200		Service Alert	Function Degraded	Follow troubleshooting procedures
91	Accelerator Pedal Position 1	13	Primary Throttle needs calibration	ERR 200		Service Alert	Function Degraded	Calibrate
94	Engine Fuel Delivery Pressure	3	Voltage from fuel pressure sensor is higher than normal temperature sensor range.	ERR 201	Low Pressure Fuel Signal Out of Range High	Service Alert	Indicator/Alarm Only	Acknowledge Alarm
94	Engine Fuel Delivery Pressure	4	Voltage from fuel pressure sensor is lower than normal temperature sensor range.	ERR 201	Low Pressure Fuel Signal Out of Range Low	Service Alert	Indicator/Alarm Only	Acknowledge Alarm
94	Engine Fuel Delivery Pressure	17	Fuel Pressure at inlet to high pressure pump is too low.	ERR 201	High Pressure Fuel System--Pressure Signal Slightly Low	Service Alert	Function Degraded	Follow troubleshooting procedures
105	Engine Intake Manifold 1 Temperature	0	Manifold air temperature is above highest threshold spec.	ERR 202	Intake Manifold Air Temperature Signal Extremely High	Stop	Derate - Max Fuel Limited	Enters Come-Home Mode Automatically
105	Engine Intake Manifold 1 Temperature	3	The voltage from the manifold air temperature sensor is higher than normal sensor range.	ERR 202	Intake Manifold Air Temperature Signal Out of Range High	Service Alert	Indicator/Alarm Only	Acknowledge Alarm
105	Engine Intake Manifold 1 Temperature	4	The voltage from the manifold air temperature sensor is lower than normal sensor range.	ERR 202	Intake Manifold Air Temperature Signal Out of Range Low	Service Alert	Indicator/Alarm Only	Acknowledge Alarm
105	Engine Intake Manifold 1 Temperature	15	Manifold air temperature is above spec.	ERR 202	Intake Manifold Air Temperature Signal Slightly High	Service Alert	Indicator/Alarm Only	Acknowledge Alarm

Continued on next page

SPN No.	SPN Name	FMI No.	Code Description	Level 1 Text	Tech Manual Description	Warning Light	Vehicle Response to Code	Vehicle Recovery
105	Engine Intake Manifold 1 Temperature	16	Manifold air temperature is above spec.	ERR 202	Intake Manifold Air Temperature Signal Moderately High	Service Alert	Derate - Max Fuel Limited	Enters Come-Home Mode Automatically
110	Engine Coolant Temperature	0	Coolant temperature is above highest threshold.	ERR 203	Engine Coolant Temperature Signal Extremely High	Stop	Derate - Max Fuel Limited	Enters Come-Home Mode Automatically
110	Engine Coolant Temperature	3	The voltage from the coolant temperature sensor is higher than the normal sensor range.	ERR 203	Engine Coolant Temperature Signal Out of Range High	Service Alert	Indica-tor/Alarm Only	Acknowledge Alarm
110	Engine Coolant Temperature	4	The voltage from the coolant temperature sensor is lower than normal sensor range.	ERR 203	Engine Coolant Temperature Signal Out of Range Low	Service Alert	Indica-tor/Alarm Only	Acknowledge Alarm
110	Engine Coolant Temperature	15	Coolant temperature is above the lowest threshold.	ERR 203	Engine Coolant Temperature Signal Slightly High	Service Alert	Indica-tor/Alarm Only	Acknowledge Alarm
110	Engine Coolant Temperature	16	Coolant temperature is above mid threshold.	ERR 203	Engine Coolant Temperature Signal Moderately High	Service Alert	Derate - Max Fuel Limited	Enters Come-Home Mode Automatically
158	Key Switch Battery Potential	17	The ECU internal voltage did not turn off after the switched battery signal when low.	ERR 204	ECU Power Down Error	Service Alert	Indica-tor/Alarm Only	Acknowledge Alarm
174	Engine Fuel Temperature	3	The voltage from the fuel temperature sensors higher than the normal sensor range.	ERR 205		Service Alert	Indica-tor/Alarm Only	Acknowledge Alarm
174	Engine Fuel Temperature	4	The voltage from the fuel temperature sensor is lower than normal sensor range.	ERR 205	Fuel Temperature Signal Out of Range Low	Service Alert	Indica-tor/Alarm Only	Acknowledge Alarm
189	Engine Rated Speed	0	Engine speed limited to low idle due to another fault.	ERR 206	Engine Speed Derate Condition Exists	Service Alert	Function Degraded	Follow trou-bleshooting procedures
636	Engine Position Sensor	2	Noise is being detected on the engine position sensor.	ERR 207	Engine Position Sensor Signal Invalid	Service Alert	Function Degraded	Follow trou-bleshooting procedures

Continued on next page

AA95137,0002942 -19-13SEP10-7/10

Readings Codes by Controller

Diagnostic Mode 1
RLLRLR
These addresses are for all IT4 4x20 tractors.
Turn signal inputs will be used for scrolling through the connected controllers list and a controller is selected by a click on “Display Mode Input.”
Turn signal inputs are used for scrolling through the addresses.
Right turn signal will be used to increment the address and left turn signal to decrement the address.
When the “Display Mode Input” is activated for up to 2 seconds, the module will exit this mode to normal mode. The module will be in normal mode to activate this mode.
When reading digital inputs or outputs (logic level), a “1” will indicate active and a “0” will indicate inactive. Bit 0 is on the far right of the display and bit 5 is on the far left.

ICC Readings (Listed by Address):

Address	Address Name/DPN	Units	Attributes	Discrete Values
RLK 0	Diagnostic Mode			0=Off 1=Diagnostics 2=Diagnostics at start up 3=Calibration Mode 4=Next Calibration 5=End Calibration 6=Abort
RLK 3	Speed Units		No Decimal; Numeric;	0=MPH 1=KPH
RLK 4	Wheel Circumference	mm	No Decimal; Numeric;	
RLK 5	Motion Match/Load Match Switch Options		BCD Numeric;	0=No Motion Match switch Installed; 1=Switch installed Upper Nibble 0=No Load Match switch installed 1=Switch installed
RLK 6	Speedometer Enable		No Decimal; Numeric;	0=Disable 1=Enable
RLK 7	Tractor Type/Operator Station Type		BCD Numeric;	0=Config 1=PRT 2=HST 3=HRT Upper Nibble 0=OpenStation 1=Cab
RLK 8	Engine Type		Numeric;	0=MFI 1=EFI
RLK 11	Engine Speed Frequency	Hz	Numeric;	
RLK 12	Engine Speed RPM	RPM	Numeric;	
RLK 13	Engine Speed Constant		Numeric;	
RLK 14	Coolant Temperature Input	Volts	Decimal (X.XX); Numeric;	
RLK 15	Coolant Temperature	Deg. C	Numeric;	
RLK 16	Coolant Temperature Gauge	%	No Decimal; Numeric;	
RLK 17	Fuel Gauge Input	Volts	Decimal (X.XX); Numeric;	
RLK 18	Fuel Gauge %	%	No Decimal; Numeric;	
RLK 19	Display Mode switch	Volts	Decimal (XX.X); Numeric;	
RLK 20	Seat Switch	Volts	Decimal (XX.X); Numeric;	
RLK 21	Battery Supply	Volts	Decimal (XX.X); Numeric;	
RLK 22	Digital Inputs [0]		Numeric;	Bit0=Warning Input(J4-M) Bit1=Bit1=Rear PTO 750/540E Bit2=Spare DI (J4-P) Bit3=Air Filter (J1-G) Bit4=Park Brake (J1-K) Bit5=Low Oil Pressure (J1-J)

Continued on next page

Address	Address Name/DPN	Units	Attributes	Discrete Values
RLK 23	Digital Inputs [1]		Numeric;	Bit0=Rear PTO 540 (J2-F) Bit1=Mid PTO Off (J3-D) Bit2=Front PTO (J3-A) Bit3=Not Used) Bit4=Not Used Bit5=Not Used
RLK 24	Digital Inputs [2]		Numeric;	Bit0=MFWD (J4-A) Bit1=Engine Crank (J4-D) Bit2=Neutral (J1-B) Bit3=Left Arrow (J2-E) Bit4=Switched Battery (J1-A) Bit5=Start Aid (J2-C)
RLK 25	Digital Inputs [3]		Numeric;	Bit0=Right Arrow (J2-D) Bit1=Rear PTO Off (J4-K) Bit2=Left Hazard Feedback Bit3=Right Hazard Feedback Bit4=Left Turn Feedback Bit5=Right Turn Feedback
RLK 26	Digital Outputs [0]		Numeric;	Indicator lamps: Bit0=Rear750/540 PTO Bit1=Not Used Bit2=Air Filter Restriction Bit3=MFWD Bit4=Mid PTO Bit5=Rear 540 PTO
RLK 27	Digital Outputs [1]		Numeric;	Indicator lamps: Bit0=Engine Oil Pressure; Bit1=Cruise Control; Bit2=Glow Plugs; Bit3=Battery Discharge; Bit4=Park Brake; Bit5=Emergency Stop
RLK 28	Digital Outputs [2]		Numeric;	Indicator lamps: Bit0=Operator Alert Bit1=Left Turn Bit2=Right Turn Bit3=Not Used Bit4=Not Used Bit5=Left Turn Driver
RLK 29	Digital Outputs [3]		Numeric;	Bit0=Right Turn Driver Bit1=Left Hazard Bit2=Right Hazard Bit3=Pull In Driver (J4-N) Bit4=Hold In Driver (J4-B) Bit5=Starter Driver (J4-C)
RLK 30	Analog Inputs [0] - Battery Voltage	ADC	No Decimal; Numeric;	
RLK 31	Analog Inputs [1] - Battery Charge	ADC	No Decimal; Numeric;	
RLK 32	Analog Inputs [2] - Fuel Level	ADC	No Decimal; Numeric;	
RLK 33	Analog Inputs [3] - Temperature	ADC	No Decimal; Numeric;	
RLK 34	Analog Inputs [4] - Starter FB	ADC	No Decimal; Numeric;	
RLK 35	Analog Inputs [5] - Hold-in FB	ADC	No Decimal; Numeric;	
RLK 36	Analog Inputs [6] - Pull-in FB	ADC	No Decimal; Numeric;	
RLK 37	Analog Inputs [7] - PTO FB	ADC	No Decimal; Numeric;	
RLK 38	PWM Output Freq.	Hz	No Decimal; Numeric;	
RLK 39	PWM Duty Cycle	%	No Decimal; Numeric;	
RLK 40	Auto Clear DTC	Hours	No Decimal; Numeric;	
RLK 41	Wheel Speed Input	Hz	No Decimal; Numeric;	
RLK 70	Password for Editing		No Decimal; Numeric;	
RLK 227	Boot Block Part Number		ASCII	
RLK 228	Boot Block Version Number		Numeric;	
RLK 229	EOL Part number		ASCII	
RLK 230	EOL Version Number		Numeric;	

Continued on next page

AA95137,0002944 -19-13SEP10-2/6

Address	Address Name/DPN	Units	Attributes	Discrete Values
RLK 231	OS Part number		ASCII	
RLK 232	OS Version Number		Numeric;	
RLK 233	Application Part Number		ASCII	
RLK 234	Application Version Number		Numeric;	
RLK 235	Device Part Number (JD PN#)		ASCII	
RLK 236	Device Serial Number		Numeric;	
RLK 237	Software Assembly Part number		ASCII	
RLK 238	Software Assembly version number		Numeric;	
RLK 245	Number of CAN bus OFF retries.		Numeric;	
RLK 246	Interval Between CAN bus OFFs.		Numeric;	
RLK 249	Vehicle Model Number		ASCII	
RLK 250	Vehicle Serial Number (Last 6 digits in VIN)		ASCII	
RLK 251	13 Character Tractor Serial Number (VIN)		ASCII	
RLK 255	Number of Diagnostic addresses supported at this level within this controller.		No Decimal; Numeric;	

TCU Readings (Listed by Address):

Address	Address Name/DPN	Units	Attributes	Discrete Values
RLK 0	Diagnostic Mode			0=Off 1=Diagnostics 2=Diagnostics at start up 3=Calibration Mode 4=Next Calibration 5=End Calibration 6=Abort
RLK 3	Load Match Switch option		No Decimal; Numeric;	1=No Load Match Switch installed 2=Switch installed
RLK 4	Motion Match Switch option		No Decimal; Numeric;	1=No Motion Match switch installed 2=Switch installed
RLK 5	Wheel Circumference	MM	Numeric;	
RLK 6	Calibration Switch (Software)		No Decimal; Numeric;	0=Disable 1=Enable
RLK 7	Operating/Calibration Status		ASCII	
RLK 8	Motion Match Setting 1		Numeric;	
RLK 9	Motion Match Setting 2		Numeric;	
RLK 10	Engine Type		Numeric;	0=MFI 1=EFI
RLK 11	Wheel Speed Constant		Numeric;	
RLK 12	Wheel Speed	KM/H	Decimal (XX.X); Numeric;	
RLK 13	Load Match Switch (Software)		No Decimal; Numeric;	0=Disable 1=Enable
RLK 14	Load Match Switch Input		No Decimal; Numeric;	0=OFF 1=ON
RLK 15	Motion Match Switch Input		No Decimal; Numeric;	0=OFF;1=ON
RLK 16	Operator Present Switch		No Decimal; Numeric;	0=OFF 1=ON
RLK 17	Cruise On/Off Switch		No Decimal; Numeric;	0=OFF 1=ON
RLK 18	Cruise Resume/Acceleration Switch		No Decimal; Numeric;	0=OFF 1=ON
RLK 19	Cruise Set/Deaccelaration Switch		No Decimal; Numeric;	0=OFF 1=ON

Continued on next page

Address	Address Name/DPN	Units	Attributes	Discrete Values
RLK 20	Set Max Speed Switch		No Decimal; Numeric;	0=OFF 1=ON
RLK 21	Brake Switch		No Decimal; Numeric;	0=OFF 1=ON
RLK 22	Cruise On Dig Out		No Decimal; Numeric;	0=OFF 1=ON
RLK 23	Fault Dig Out		No Decimal; Numeric;	0=OFF 1=ON
RLK 24	Backup Dig Out		No Decimal; Numeric;	0=OFF 1=ON
RLK 25	Machine State		Numeric;	
RLK 26	State Direction		ASCII	
RLK 27	Cruise Setpoint	Hz	Numeric;	
RLK 28	Cruise Error	Hz	Numeric;	
RLK 29	MFWD Speed	Hz	Numeric;	
RLK 30	Filtered MFWD Speed	Hz	Numeric;	
RLK 31	Engine PPU	Hz	Numeric;	
RLK 32	Engine Speed	RPM	Numeric;	
RLK 33	Engine Speed Setpoint	RPM	Numeric;	
RLK 34	Sensor Supply	Volts	Decimal (X.XX); Numeric;	
RLK 35	Forward Pedal	Volts	Decimal (X.XX); Numeric;	
RLK 36	Reverse Pedal	Volts	Decimal (X.XX); Numeric;	
RLK 37	Throttle Sensor	Volts	Decimal (X.XX); Numeric;	
RLK 38	Throttle	%	No Decimal; Numeric;	
RLK 39	Forward Pedal	%	No Decimal; Numeric;	
RLK 40	Reverse Pedal	%	No Decimal; Numeric;	
RLK 41	Max Command	%	No Decimal; Numeric;	
RLK 42	Feed Forward	%	No Decimal; Numeric;	
RLK 43	PID Command	%	No Decimal; Numeric;	
RLK 44	Command	%	No Decimal; Numeric;	
RLK 45	Max Spd Lim Cmd	%	No Decimal; Numeric;	
RLK 46	State Command	%	No Decimal; Numeric;	
RLK 47	Load Match	%	No Decimal; Numeric;	
RLK 48	Load Match Command	%	No Decimal; Numeric;	
RLK 49	Final Command	%	No Decimal; Numeric;	
RLK 50	Direction Command		ASCII	
RLK 51	Current Output	mA	Numeric;	
RLK 52	Load Resistance	Ohms	Decimal (XX.X); Numeric;	
RLK 53	Compatibility Code		Numeric;	
RLK 54	Forward Threshold	mA	Decimal (XXX.X); Numeric;	
RLK 55	Reverse Threshold	mA	Decimal (XXX.X); Numeric;	
RLK 56	Forward Pedal Cal Low	Volts	Decimal (X.XX); Numeric;	
RLK 57	Forward Pedal Cal High	Volts	Decimal (X.XX); Numeric;	
RLK 58	Reverse Pedal Cal Low	Volts	Decimal (X.XX); Numeric;	
RLK 59	Reverse Pedal Cal High	Volts	Decimal (X.XX); Numeric;	
RLK 60	Throttle Sensor Cal Low	Volts	Decimal (X.XX); Numeric;	
RLK 61	Throttle Sensor Cal High	Volts	Decimal (X.XX); Numeric;	
RLK 62	Automotive Mode Switch		Numeric;	0=Disable 1=Enable
RLK 70	Password for Editing		Numeric;	
RLK 227	Kernel Part Number		ASCII	
RLK 228	Kernel Version Number		Numeric;	
RLK 229	Configuration Data Part number (EOL)		ASCII	

Continued on next page

AA95137,0002944 -19-13SEP10-4/6

Address	Address Name/DPN	Units	Attributes	Discrete Values
RLK 230	Configuration Data Version Number (EOL)		Numeric;	
RLK 233	Application Part Number		ASCII	
RLK 234	Application Version Number		Numeric;	
RLK 235	Device Part Number (JD PN#)		ASCII	
RLK 236	Device Serial Number		Numeric;	
RLK 237	Software Assembly Part number		ASCII	
RLK 238	Software Assembly version number		Numeric;	
RLK 249	Vehicle Model Number		ASCII	
RLK 250	Vehicle Serial Number (Last 6 digits in VIN)		ASCII	
RLK 251	13 Character Tractor Serial Number (VIN)		ASCII	
RLK 255	Number of Diagnostic addresses supported at this level within this controller.		Numeric;	

ECU Readings (Listed by Address):

Address	Address Name/DPN	Units	Attributes	Discrete Values
RLK 0	Device ID			
RLK 1	Recall Trouble Codes		No Decimal; Numeric; System Beep;	
RLK 2	System Beep Address		Most Significant Decimal (X.XX); Numeric;	
RLK 6	Throttle	%	Most Significant Decimal (X.XX); Numeric;	
RLK 7	Unswitched Battery Voltage	Volts	Most Significant Decimal (X.XX); Numeric;	
RLK 8	Switched Battery Voltage	Volts	Most Significant Decimal (X.XX); Numeric;	
RLK 9	Sensor Excitation 1 Voltage	Volts	Numeric;	
RLK 10	Sensor Excitation 2 Voltage	Volts	Numeric;	
RLK 12	Crank Sensor	rpm	Numeric;	
RLK 13	Cam/Event Sensor	rpm	Numeric;	
RLK 14	Governor Reference Speed	rpm	Numeric;	
RLK 15	Engine Speed	rpm	Numeric;	
RLK 16	All Speed Governor Parameter ID		No Decimal; Numeric;	
RLK 17	Max Speed Governor Parameter ID		Numeric;	
RLK 18	Min Speed Governor Parameter ID		No Decimal; Numeric;	
RLK 19	Torque Curve Parameter ID		No Decimal; Numeric;	
RLK 20	Engine Coolant Temperature		No Decimal; Numeric;	
RLK 22	Fuel Mode. Fuel Mode		No Decimal; Numeric;	0=Engine Stopped 1=Start Control 2=See Governor Mode 3=Throttle Table 4=Bus Fuel Request 5=See Max Fuel Mode 6=Cylinder Diagnostics 7=Engine Protection Shutdown
RLK 23	Fuel Mode. Governor Mode		No Decimal; Numeric;	0=See Min Speed Mode 1=See Desired Speed Mode 2=See Max Speed Mode
RLK 24	Fuel Mode. Desired Speed Mode		No Decimal; Numeric;	0=Throttle 1=Bus Speed Request

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AA95137,0002944 -19-13SEP10-5/6

Address	Address Name/DPN	Units	Attributes	Discrete Values
RLK 25	Fuel Mode. Maximum Speed Mode		No Decimal; Numeric;	0=Normal 1=Bus Max Speed Limit 2=Road Speed Limiting 3=Engine Protection 4=Absolute Maximum 5=Bus Momentary Override 6=Engine Protection Override
RLK 26	Fuel Mode. Minimum Speed Mode		No Decimal; Numeric;	0=Normal Low Idle;1=Alternate High Idle;2=Fast Engine Warm-up;3=Vehicle Control;
RLK 27	Fuel Mode. Maximum Fuel Mode		No Decimal; Numeric;	0=Torque Curve 1=Air/Fuel Control 2=Engine Protection 3=Torque Spike Limiting 4=Progressive Shift 5=Bus Torque Limit Request 6=Absolute Maximum Torque Curve
RLK 28	Fuel Pressure	kPa		
RLK 29	Fuel Temperature	Degrees C	No Decimal; Numeric;	
RLK 30	Fuel Rate	L/h	Most Significant Decimal (X.XX); Numeric;	
RLK 31	Manifold Air Temperature	Degrees C	No Decimal; Numeric;	
RLK 32	Percent Load	%	No Decimal; Numeric;	
RLK 33	Desired Fuel	mg/stroke	No Decimal; Numeric;	
RLK 34	Remaining Start Aid Time	Seconds	No Decimal; Numeric;	
RLK 37	Fuel Derate	%	No Decimal; Numeric;	100.00 = Full Power
RLK 42	Barometric Pressure	kPa	No Decimal; Numeric;	
RLK 51	EEPROM Calibration Value 1		No Decimal; Numeric;	
RLK 52	EEPROM Calibration Value 2		No Decimal; Numeric;	
RLK 59	Harness Diagnostics Mode Request			
RLK 69	Fuel Pump Priming	State	No Decimal; Numeric;	00=Do Not Activate Priming 01=Activate Priming
RLK 100	Analog Throttle	Volts	Beep; Numeric;	
RLK 108	Fuel Pressure	Volts	Beep; Numeric;	
RLK 109	Coolant Temperature	Volts	Beep; Numeric;	
RLK 110	Fuel Temperature	Volts	Beep; Numeric;	
RLK 112	Manifold Air Temperature	Volts	Beep; Numeric;	
RLK 141	External Shutdown Switch		Beep; No Decimal Numeric;	
RLK 143	ELX power		Beep; No Decimal Numeric;	
RLK 150	Cold Start Relay Diagnostics		Beep; No Decimal Numeric;	
RLK 170	Engine Speed Beep Mode	rpm	Beep; No Decimal Numeric;	
RLK 171	Cam/Secondary Engine Speed Beep Mode	rpm	ASCII	
RLK 200	Engine Model Number		ASCII	
RLK 201	Engine Serial Number		ASCII	
RLK 223	Option Assembly Number		ASCII	Option Assembly part number
RLK 225	Configuration File Part Number		ASCII	
RLK 227	Boot Block Part Number		ASCII	
RLK 229	EOL Part Number		ASCII	
RLK 233	Op Code Part Number		No Decimal; Numeric;	
RLK 235	ECU Part Number		No Decimal; Numeric;	
RLK 236	ECU Serial Number		No Decimal; Numeric;	
RLK 245	BUS Off NVM Number of Retries		No Decimal; Numeric;	
RLK 246	BUS Off NVM Time Between Retries		ASCII	

AA95137,0002944 -19-13SEP10-6/6

Address	Address Name/DPN	Units	Attributes	Discrete Values
RLK 251	13 Character PIN VIN without Option Bytes			
RLK 255	Supported Diagnostic Address List			

AA95137,0002944 -19-13SEP10-7/6

Configuration Codes Overview

The configuration codes are used to display and adjust the machine for installed options and equipment. These codes are displayed and adjusted through the display panel or Service ADVISOR™.

Service ADVISOR is a trademark of Deere & Company

An example of the format for these codes would be: “01 27”, where “01” is the address and “27” is the configuration value as seen on the display panel LCD.

For more information, see Configure the Display in Section 40, Group 30.

AA95137,0002945 -19-13SEP10-1/1

Configuration Codes by Controller

Configuration through the Display:

Address	Configuration Parameter	Configuration Value
00 xx	Access Level One.	Value = 00 0A
01 xx	Ground Speed Units Select.	Value in the ones place = Even—MPH Odd—km/h.
02 xx and03 xx	Base Tire Size. See Editing Tire Size Value in Section 40, Group 30.	Default value = 3683. The default code will read, 02 36 and 03 83.
04 xx	Load Match/Motion Match Option. eHydro™ only.	Value: Tens place = Load Match switch Ones place = Motion Match Value of 0 = No switch installed (default) Value of 1 = Switch installed
05 xx	Wheel Speed Enable. eHydro™ only	Value of 00 = Disabled Value of 01 = Enabled
06 xx	Model Selection.	Value of 00 = New Unit OOS Value of 01 = PRT OOS Value of 02 = eHydro OOS Value of 10 = New Unit Cab Value of 11 = PRT Cab Value of 12 = eHydro Cab
07 xx—0A xx	Engine Type	00 = MFI01 = EFI

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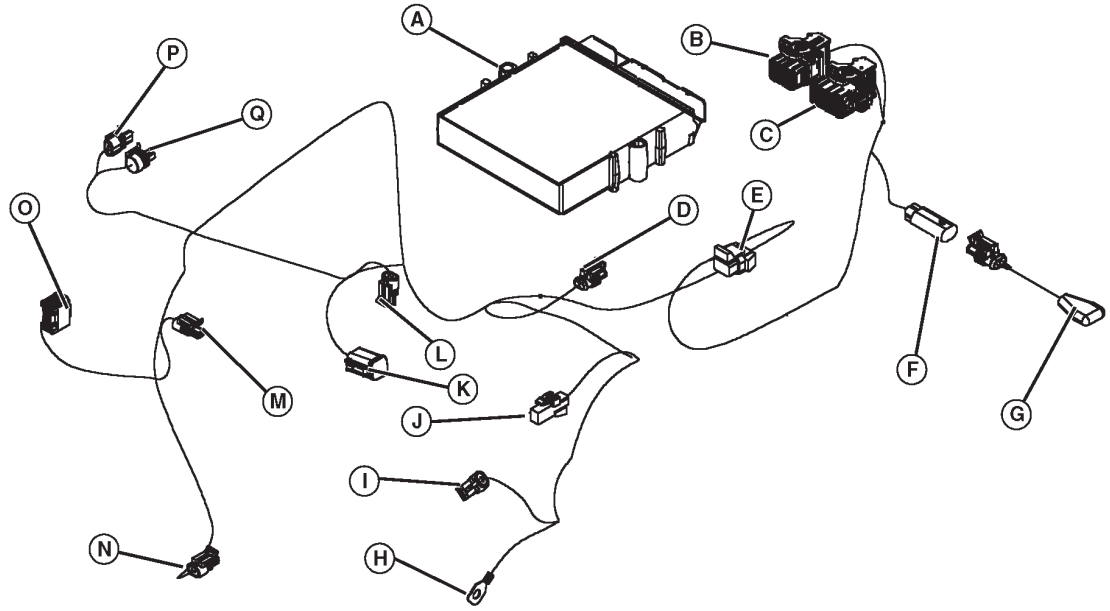
AA95137,0002946 -19-19APR11-1/1

ECU Wiring Harness Component Location



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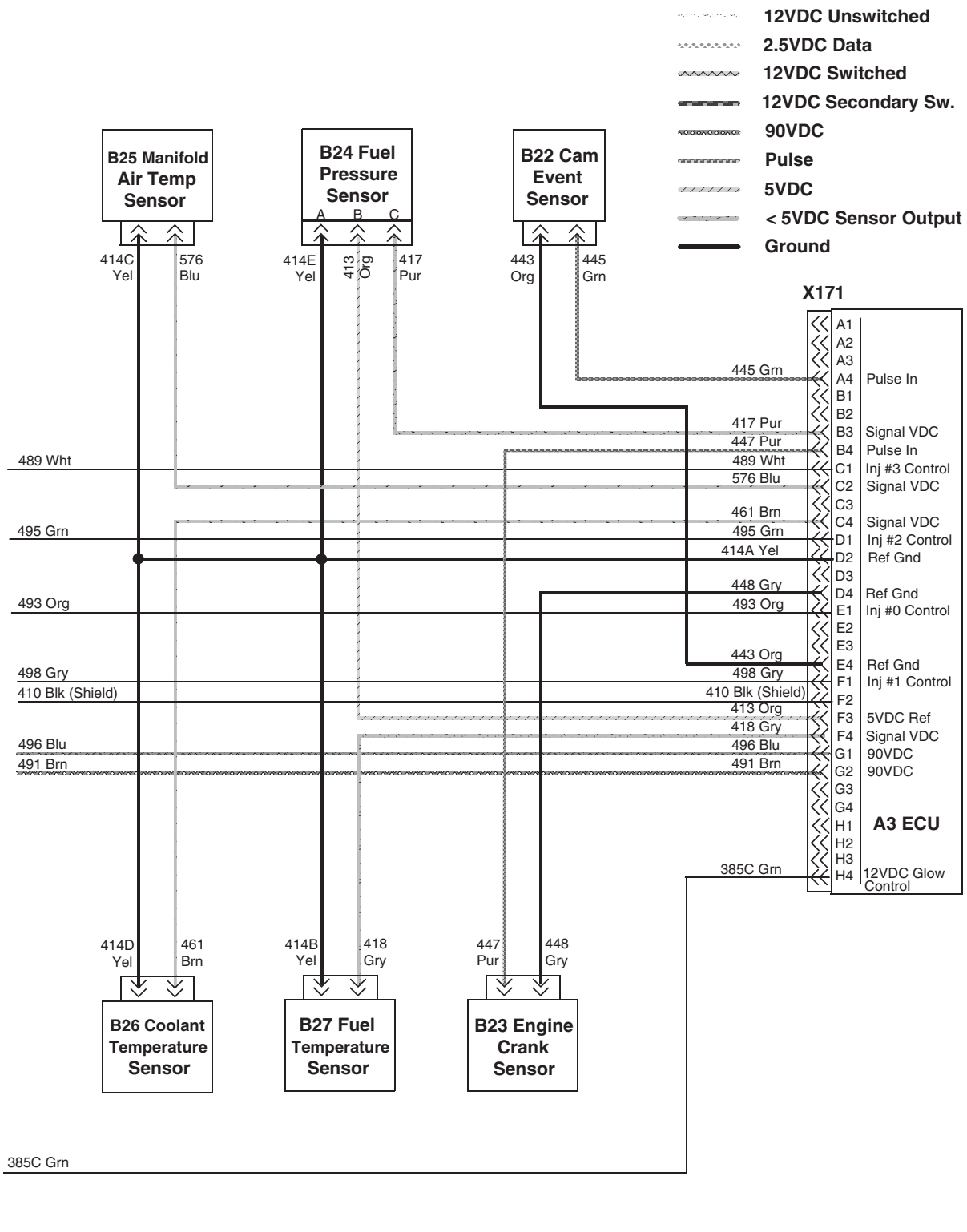
ECU Wiring Harness Component Location

A—ECU
B—ECU Connector J1
C—ECU Connector J2
D—CAN Interconnect
E—To Main Wiring Harness
F—CAN Interconnect
G—CAN Terminator
H—Ground
I— Crank Sensor
J—Power from Battery Cable
K—To Fuel Injectors
L—Manifold Air Temperature Sensor
M—Coolant Temperature Sensor
N—Camshaft Sensor
O—Throttle Sensor
P—Fuel Temperature Sensor
Q—Fuel Pressure Sensor

AA95137,000299B -19-13SEP10-1/1

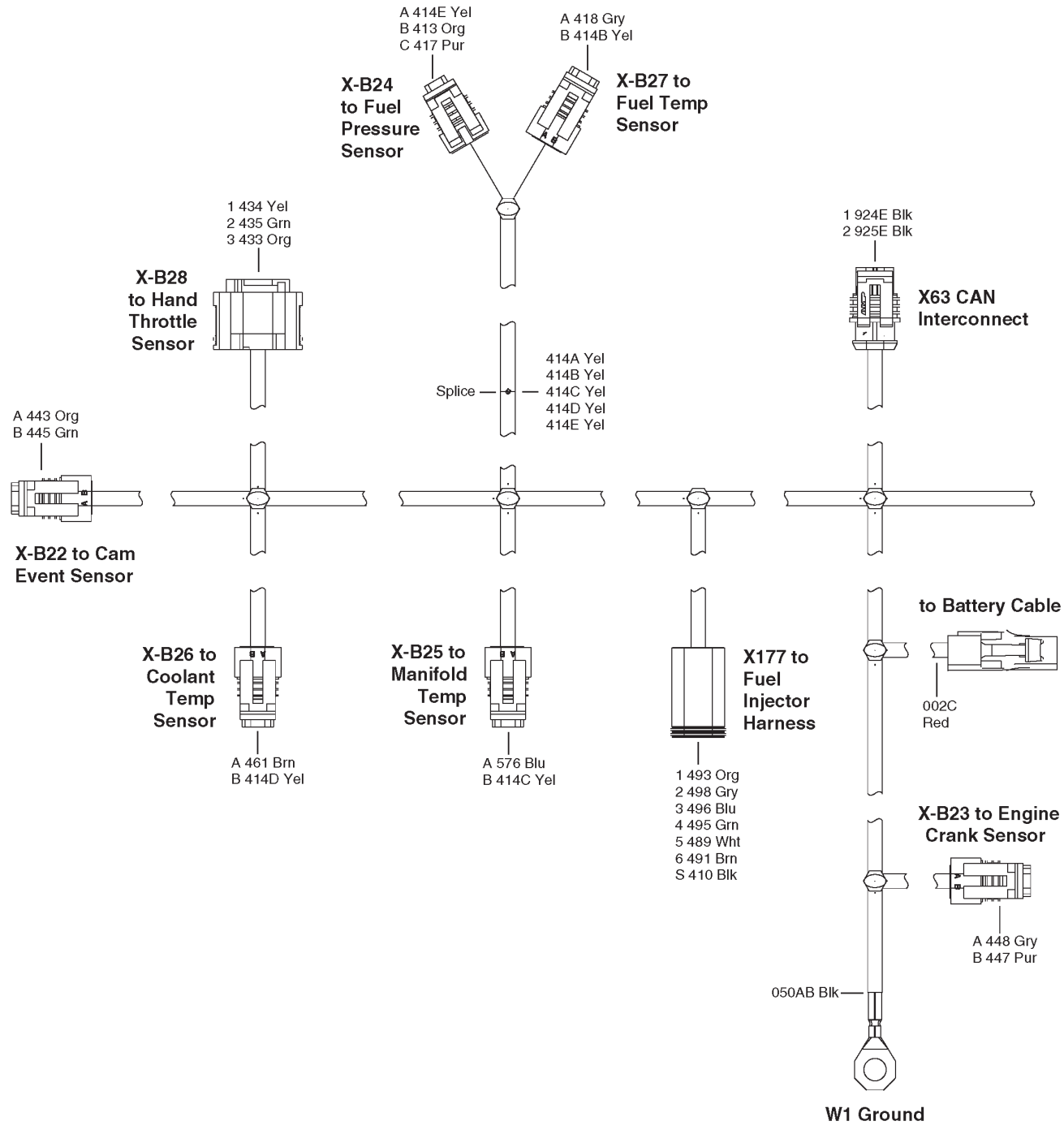


W17 ECU and Engine Electrical Schematic (2 of 2)

A3—ECU (Engine Control Unit)
B22— Cam Event Sensor
B23— Engine Crank Sensor
B24— Fuel Pressure Sensor
B25— Manifold Air Temperature Sensor
B26— Coolant Temperature Sensor
B27— Fuel Temperature Sensor
X171— A3 ECU Connector

AA95137,00029A1 -19-13SEP10-3/3

W17 ECU Wiring Harness



W15 Cruise Control Wiring Harness

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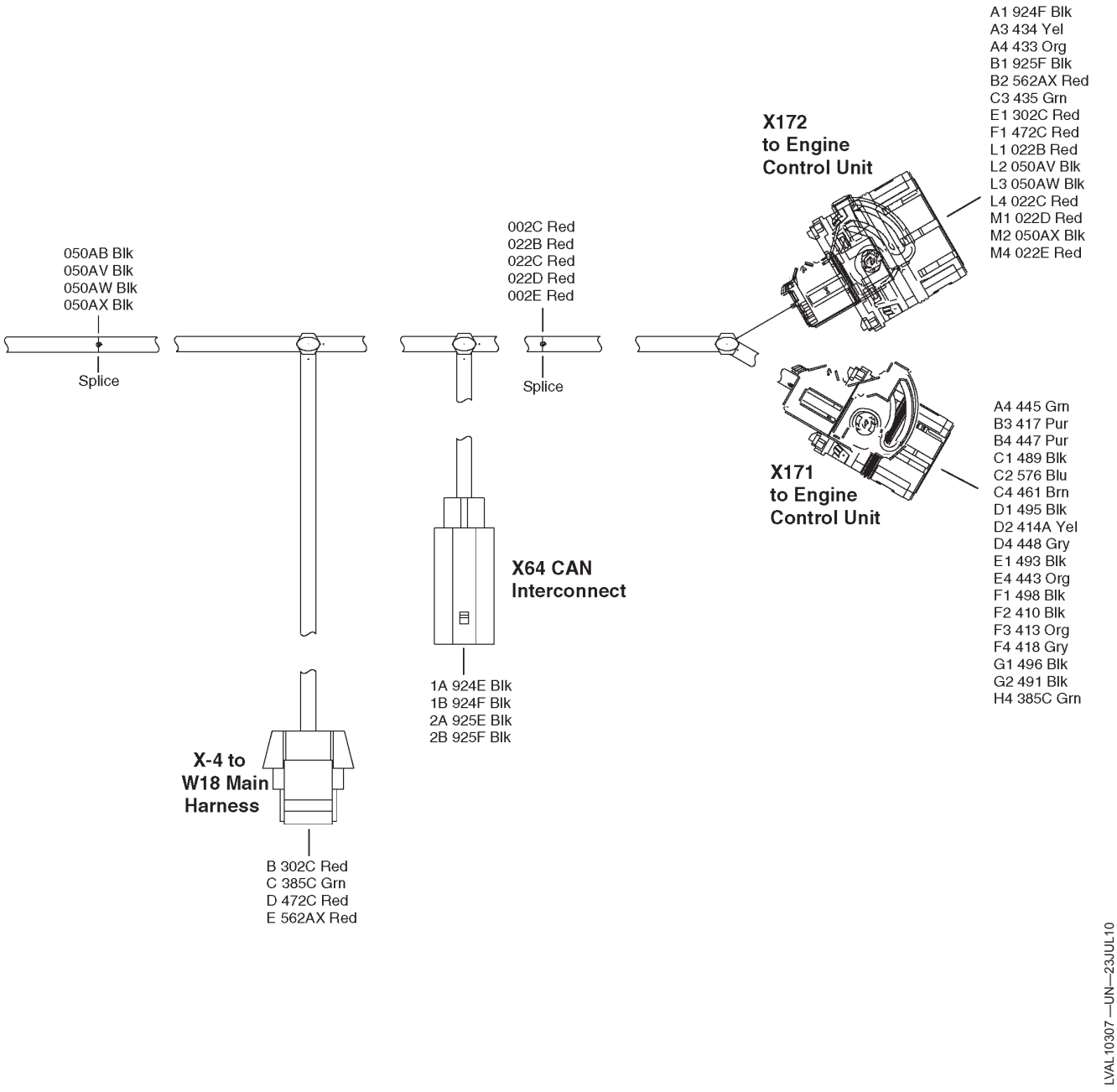

W15 Cruise Control Wiring Harness

AA95137,00029B4 -19-13SEP10-2/2

W17 ECU Wiring Harness Color Codes

Size/No./Color	Wire Connection Points
3.0 002C Red	X-3, Splice
0.8 022B Red	X172, Splice
0.8 022C Red	X172, Splice
0.8 022D Red	X172, Splice
0.8 022E Red	X172, Splice
2.0 050AB Blk	W1, Splice
0.8 050AV Blk	X172, Splice
0.8 050AW Blk	X172, Splice
0.8 050AX Blk	X172, Splice
0.8 302C Red	X172, X-4
0.8 385C Grn	X171, X-4
0.8 410 Blk (shield)	X171
0.8 413 Org	X-B24, X171
0.8 414A Yel	X171, Splice
0.8 414B Yel	X-B27, Splice
0.8 414C Yel	X-B25, Splice
0.8 414D Yel	X-B26, Splice
0.8 414E Yel	X-B24, Splice
0.8 417 Pur	X171, X-B24
0.8 418 Gry	X171, X-B27
0.8 433 Org	X172, X-B28
0.8 434 Yel	X172, X-B28
0.8 435 Grn	X172, X-B28
0.8 443 Org	X171, X-B22
0.8 445 Grn	X171, X-B22
0.8 447 Pur	X171, X-B23
0.8 448 Gry	X171, X-B23
0.8 461 Brn	X171, X-B26
0.8 472C Red	X172, X-4
0.8 489 Wht	X171, X177
1.0 491 Brn	X171, X177
0.8 493 Org	X171, X177
0.8 495 Grn	X171, X177
1.0 496 Blu	X171, X177
0.8 498 Gry	X171, X177
0.8 562AX Red	X172, X-4
0.8 576 Blu	X171, X-B25
0.8 924E Yel	X63, X64
0.8 924F Yel	X172, X64
0.8 925E Grn	X63, X64
0.8 925F Grn	X172, X64

AA95137,00029B5 -19-13SEP10-1/1