

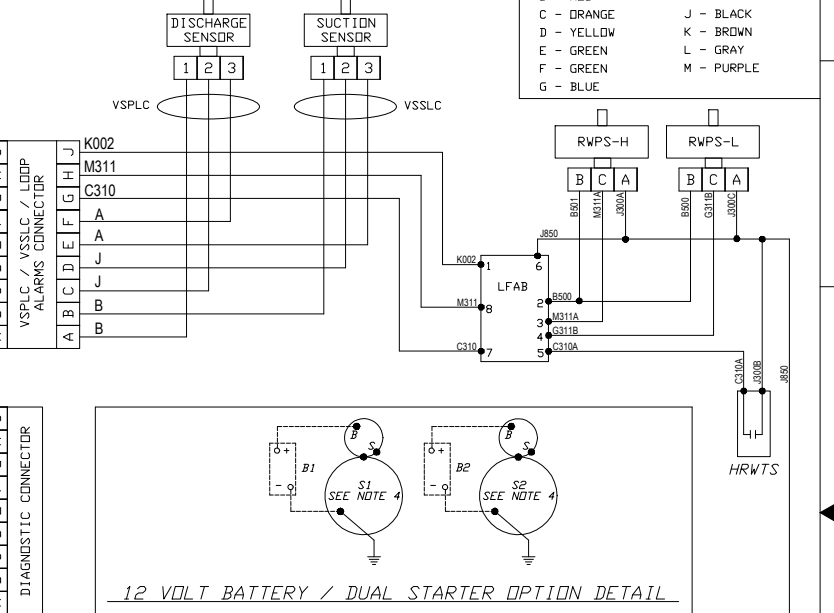
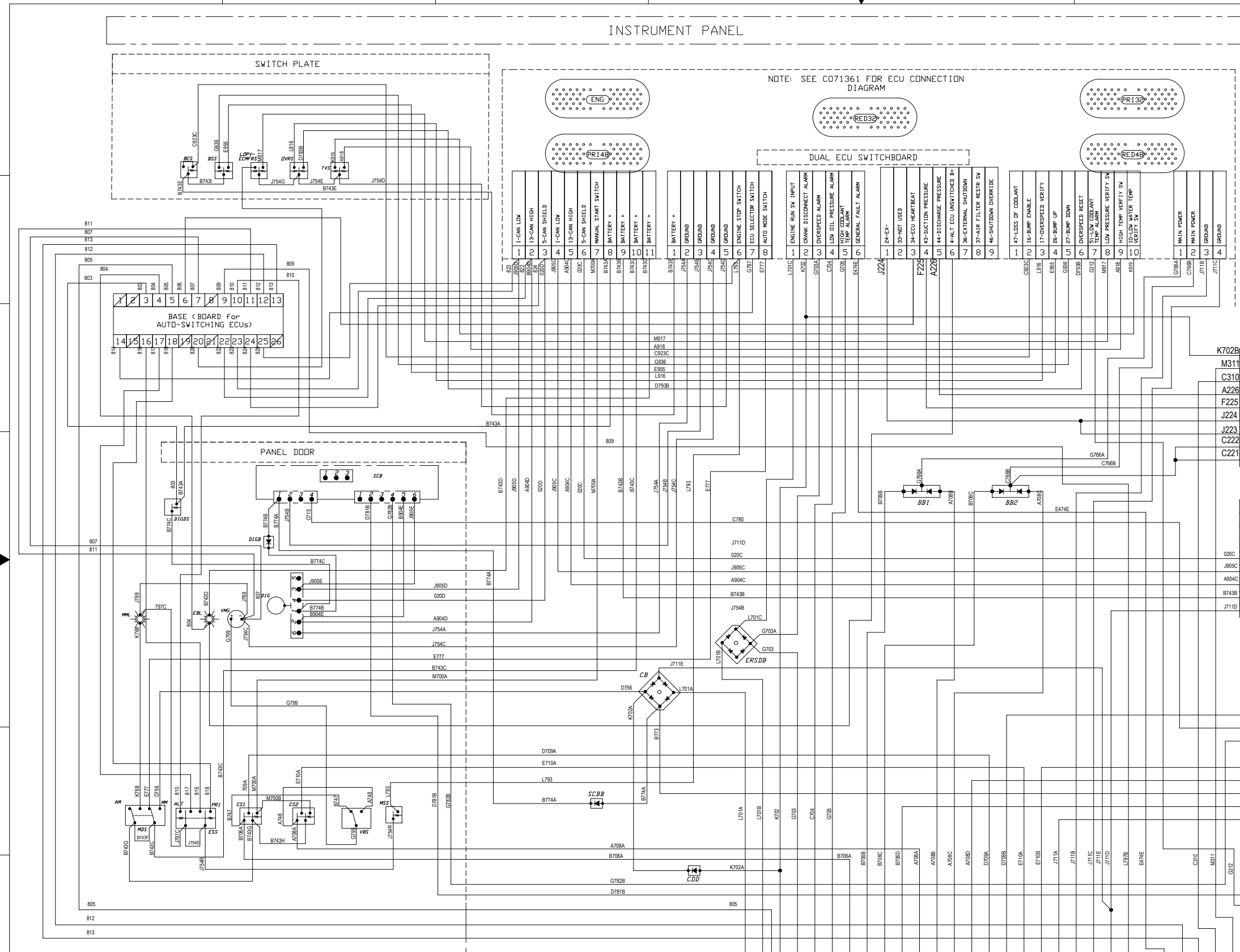
REV	DESCRIPTION	ECN#	DWN	APVD	DATE
-	ADDED CONTROLLED DRAWING BLOCK	6309	LJV	MJD	25AUG21

LEGEND

AB - ALTERNATOR BRIDGE	MMS - MODE SELECTOR SWITCH
AL - ALTERNATOR	MM - MANUAL MODE POSITION
AM - AUTOMATIC MODE POSITION	MML - MANUAL MODE INDICATING LAMP
B1 - BATTERY #1	MP - MAGNETIC PICK-UP
B2 - BATTERY #2	MSS - MANUAL STOP SWITCH
BB1 - BATTERY BRIDGE #1	DCB - OVER-CURRENT BREAKER
BB2 - BATTERY BRIDGE #2	DVRS - OVERSPEED VERIFY @ 67% / RESET SWITCH
BES - BUMP ENABLE SWITCH	RWPS-H - RAW WATER PRESSURE SENSOR HIGH
BSS - SPEED BUMP SWITCH	RWPS-L - RAW WATER PRESSURE SENSOR LOW
B1 - BATTERY ISOLATOR	SC1 - STARTER CONTACTOR BATT#1
CS1 - CRANK (MANUAL) SWITCH - BATT#1	SC2 - STARTER CONTACTOR BATT#2
CS2 - CRANK (MANUAL) SWITCH - BATT#2	SCB - SOLENOID CONTROL BOARD
CB - COOLANT BRIDGE	SCBB - SOLENOID CONTROL BOARD DIODE
CDD - CRANK DISCONNECT DIODE	ST - STARTER
DIA - DIAGNOSTIC GAUGE	TCS - TEMPERATURE CONTROL SOLENOID
DIGB - DIAGNOSTIC GAUGE DIODE BRIDGE	THR - SCB THERMISTOR (COMPRESSOR INLET)
DIGS - DIAGNOSTIC GAUGE DISPLAY SWITCH	TVS - TEMPERATURE ALARM VERIFY SWITCH
EBL - ALTERNATE ECU INDICATING LAMP	VBS - BATTERY VOLTAGE SELECTOR
ERSDB - ENGINE RUN SIGNAL DIODE BRIDGE	VMG - VOLTMETER GAUGE
ESS - ECU SELECTOR SWITCH	WS - WATER SOLENOID VALVE
HRWTS - HIGH RAW WATER TEMPERATURE SENSOR	WT - WATER TEMPERATURE N.O. SW 205°F
LFAB - LOW FLOW/TEMP ALARM BOARD	
LDPVS - LOW DIL PRESSURE VERIFY SWITCH	

COLOR CODE

A - WHITE	G - BLUE
B - RED	I - PINK
C - DRANGE	J - BLACK
D - YELLOW	K - BROWN
E - GREEN	L - GRAY
F - GREEN	M - PURPLE
G - BLUE	



- NOTES:**
- SOME MODELS HAVE A STARTER THAT IS INTERNALLY GROUNDED; FOR THOSE THE BATTERY NEGATIVE CABLE (GRD) SHOULD BE ATTACHED TO THE ENGINE BLOCK (ALL PAINT SHOULD BE REMOVED TO BARE METAL)
 - ONLY ON 4045 PTE ENGINES
 - NOT ON 6090 PTE ENGINES
 - SOME MODELS HAVE A STARTER THAT IS INTERNALLY GROUNDED; FOR THOSE THE BATTERY NEGATIVE CABLE (GND) SHOULD BE ATTACHED TO THE ENGINE BLOCK (ALL PAINT SHOULD BE REMOVED TO BARE METAL)

CONTROLLED DRAWING

THIS IS A REGISTERED PART WITH A THIRD PARTY AGENCY FOR USE ON A PRODUCT. NO SUBSTITUTIONS ARE ALLOWED. CONSULT ENGINEERING PRIOR TO AND REGARDING ANY CHANGE.

CLARKE
Fire Protection Products, Inc.

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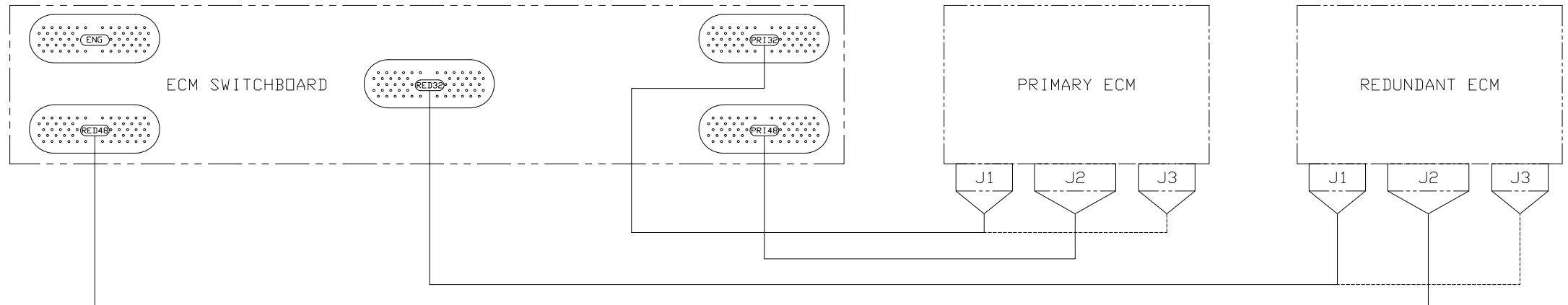
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:	DATE	30JAN15
DECIMAL .50	ENGR	MJDEMBKOWSKI
FRACTIONAL 1/32	MATERIAL	
ANGULAR ±.5°	PART NO.	C072146
SIMILAR TO	USED ON / LAYOUT PART NO.	

SCALE: NTS

UNITS: MM [INCH]

PAGE 1 OF 1

FOR ENGINES BUILT AFTER MARCH 2015



REV	DESCRIPTION	ECN#	DWN	APVD	DATE
A	ISSUED DRAWING	572	KJK		02NOV08
B	CORRECTED ECM CONNECTION - WIRE#5023 (ZONE B8); REVISED ENGINE HARNESS P/N CHART	1612	MJD		06APR09
C	PRI48 & RED48 TO ECU J2; WIRE 5473 WAS "STOP ENGINE LAMP". ADDED WIRE 7919. UPDATED CLARKE ENGINE MODELS AND ADDED ECM PART NUMBERS AND LEVELS.	2134	MJD	MJD	05AUG11
D	PRI48 & RED48 TO ECU J2; REVISED DESCRIPTION AND PINDUT OF SWITCHBOARD CONNECTION OF WIRE 5439. DELETED WIRE 7101. ADDED SPLICE DETAIL	2992	MJD	MJD	12NOV13
-	ADDED CNTRLD DWG NOTE, BOX WAS MARKED *ND*	6309	MAL	MJD	03MAY21

PRI32 & RED32 TO ECU J1 & J3

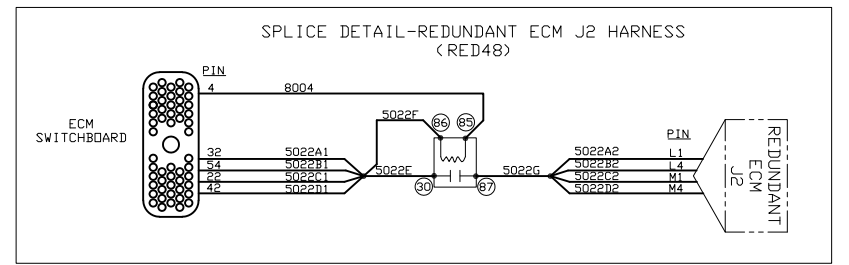
PRI48 & RED48 TO ECU J2

WIRE NUMBER	WIRE COLOR	ECM CONNECTION - J1 (PRIMARY & ALTERNATE)	SWITCHBOARD CONNECTION (PRI32 & RED32)	DESCRIPTION
5497	Purple	J1-A1		7 Injector Low 5 (cyl 4)
5497	Purple	J1-A3		17 Oil Pressure
5445	Dk Green	J1-A4		14 Cam Speed
5494	Yellow	J1-B1		8 Injector Low 4 (cyl 2)
5453	Orange	J1-B2		36 Water-In-Fuel
5469	White	J1-B3		38 Fuel Pressure
5447	Purple	J1-B4		3 Crank Speed
5499	White	J1-C1		18 Injector Low 3 (cyl 6)
5463	Orange	J1-C2		25 Manifold Air Pressure
5023	Dk Green	J1-C3		52 Manifold Air Pressure
5461	Brown	J1-C4		4 Coolant Temperature
5495	Dk Green	J1-D1		9 Injector Low 2 (cyl 3)
5414	Yellow	Spliced together in J1-D2		6 Sensor Return 2
5444	Yellow	J1-D3		29 Excitation Voltage 1
5448	Gray	J1-D4		35 Crank Speed Return
5498	Orange	J1-E1		31 Injector Low 0 (cyl 1)
5427	Purple	J1-E2		26 Sensor Return 1
5475	Dk Green	J1-E3		1 Rail Pressure
5443	Orange	J1-E4		43 Cam Speed Return
5498	Gray	J1-F1		10 Injector Low 1 (cyl 5)
5410	Black	J1-F2		51 Shield Drain
5419	White	Spliced together in J1-F3		47 Excitation Voltage 2
5428	Gray	J1-F4		5 Fuel Temperature
5491	Brown	J1-G1		54 Inject High 0.1.2
5496	Lt Blue	J1-G2		21 Inject High 3.4.5
5424	Yellow	J1-H1		12 High Pressure Fuel Pump High Solenoid
5419	White	J1-H2		53 High Pressure Fuel Pump Low Solenoid

WIRE NUMBER	WIRE COLOR	ECM CONNECTION - J1 (PRIMARY & ALTERNATE)	SWITCHBOARD CONNECTION (PRI32 & RED32)	DESCRIPTION
5497	Purple	J1-A1		7 Injector Low 5 (cyl 4)
5494	Yellow	J1-B1		8 Injector Low 4 (cyl 2)
5417	Purple	J1-B3		28 Turbo Speed In Low
5435	Dk Green	J1-B4		50 Turbo Speed In High
5499	White	J1-C1		18 Injector Low 3 (cyl 6)
5458	Gray	J1-C3		23 Low Pressure Fuel Pump Current Out
5495	Dk Green	J1-D1		9 Injector Low 2 (cyl 3)
5457	Purple	J1-D2		24 Low Pressure Fuel Pump Speed CMD
5410	Black	J1-D3		51 Shield Drain
5486	Lt Blue	J1-D4		39 Source Dv6 LFPF Power On
5493	Orange	J1-E1		31 Injector Low 0 (cyl 1)
5434	Yellow	J1-E2		48 Low Pressure Fuel Pump Status
5498	Gray	J1-F1		10 Injector Low 1 (cyl 5)
5429	White	J1-F4		42 Source Dv10 Cold Start Aid
5491	Brown	J1-G1		54 Inject High 0.1.2
5492	Lt Blue	J1-G2		21 Inject High 3.4.5
5424	Yellow	J1-H1		12 High Pressure Fuel Pump High Solenoid
5419	White	J1-H2		53 High Pressure Fuel Pump Low Solenoid
5511	Brown	J1-A2		47 Excitation #5 +
5444	Yellow	J1-A3		6 Excitation #5 -
5428	Gray	J1-B1		5 Fuel Temperature
5474	Yellow	J1-B2		27 DeltaTemp Return
5475	Dk Green	J1-C1		1 Rail Pressure
5499	White	J1-C2		38 Fuel Pressure
5497	Purple	J1-C3		17 Oil Pressure
5453	Orange	J1-D2		36 Water-In-Fuel
5461	Brown	J1-D3		4 Coolant Temperature
5023	Orange	J1-D4		52 Rail Pressure
5456	Lt Blue	J1-F1		44 EGR Mixed Temperature
5448	Gray	J1-F3		35 Crank Speed Return
5447	Purple	J1-F4		3 Crank Speed
5946	Lt Blue	J1-G1		29 Excitation Voltage 1
5427	Purple	J1-G2		26 Sensor Return 1
5443	Orange	J1-G3		43 Cam Speed Return
5440	Dk Green	J1-G4		14 Cam Speed
5414	Yellow	J1-H3		13 Sensor Return 2
5416	Lt Blue	J1-H4		33 Excitation Voltage 2

WIRE NUMBER	WIRE COLOR	ECM CONNECTION - J1 (PRIMARY & ALTERNATE)	SWITCHBOARD CONNECTION (PRI32 & RED32)	DESCRIPTION
5497	Purple	J1-A1		7 Injector Low 5 (cyl 4)
5494	Yellow	J1-B1		8 Injector Low 4 (cyl 2)
5417	Purple	J1-B3		28 Turbo Speed In Low
5435	Dk Green	J1-B4		50 Turbo Speed In High
5499	White	J1-C1		18 Injector Low 3 (cyl 6)
5503	Brown	J1-C4		52 H-Bridge 3 +
5495	Dk Green	J1-D1		9 Injector Low 2 (cyl 3)
5457	Purple	J1-D2		24 Low Pressure Fuel Pump Speed CMD
5410	Black	J1-D3		51 Shield drain
5486	Orange	J1-D4		39 H-Bridge 3 -
5493	Orange	J1-E1		10 Injector Low 1 (cyl 5)
5498	Gray	J1-F1		10 Injector Low 1 (cyl 5)
5491	Brown	J1-G1		54 Inject High 0.1.2
5496	Lt Blue	J1-G2		21 Inject High 3.4.5
5421	Brown	J1-G3		41 EGR Valve High Driver
5423	Orange	J1-G4		11 EGR Valve Low Driver
5449B	White	J1-H3		Spliced together then go to pin 22 VGT power
5449A	White	J1-H4		Spliced together then go to pin 22 VGT power
5511	Brown	J1-A2		47 Excitation #5 +
5444	Yellow	J1-A3		6 Excitation #5 -
5428	Gray	J1-B1		5 Fuel Temperature
5474	Yellow	J1-B2		27 DeltaTemp Return
5475	Dk Green	J1-C1		1 Rail Pressure
5499	White	J1-C2		38 Fuel Pressure
5497	Purple	J1-C3		17 Oil Pressure
5453	Orange	J1-D2		36 EGR Valve Position #1
5428	Gray	J1-D3		5 Fuel Temperature
5474	Yellow	J1-D4		27 DeltaTemp Return
5453	Orange	J1-E2		24 EGR Valve Position #2
5469	White	J1-E3		38 Fuel Pressure
5467	Purple	J1-E4		17 Oil Pressure
5468	Gray	J1-F1		37 Manifold Air Pressure
5516	Lt Blue	J1-F2		16 Compressor Inlet Temp
5453	Orange	J1-F3		36 Water-In-Fuel
5461	Brown	J1-F4		4 Coolant Temperature
5463	Orange	J1-E2		25 EGR Exhaust Temperature
5433	Orange	J1-E4		45 VGT Communications
5456	Lt Blue	J1-F1		44 EGR Mixed Temperature
5455	Dk Green	J1-F2		15 EGR Fresh Air Temperature
5448	Gray	J1-F3		35 Crank Speed Return
5447	Purple	J1-F4		3 Crank Speed
5443	Orange	J1-G3		43 Cam Speed Return
5445	Dk Green	J1-G4		14 Cam Speed
5414	Yellow	J1-H3		13 Sensor Return 2
5416	Lt Blue	J1-H4		33 Excitation Voltage 2

WIRE NUMBER	WIRE COLOR	ECM CONNECTION - J2 (PRIMARY & REDUNDANT)	SWITCHBOARD CONNECTION (PRI48 & RED48)	DESCRIPTION
5904	Yellow	J2-A1	13	SAE J1939 High
5616	Lt Blue	J2-A3	33	Excitation #3 +
5905	Dk Green	J2-B1	1	SAE J1939 Low
5012	Red	J2-B2	23	Switched Battery(Key Switch)
5916	Lt Blue	J2-C1	50	Warning Lamp
7005	Lt Blue	J2-C2	8	High Coolant Temperature Alarm
5814	Yellow	J2-C3	24	Excitation 3
7102	White	J2-C4	44	Analog 26 - Discharge Pressure Transducer
5439	White	J2-D1	34	ECM Heartbeat
5473	Orange	J2-D2	51	Low Coolant Temperature Alarm
5436	Lt Blue	J2-D3	37	Analog 12 Air Filter Restriction Switch
5955	Dk Green	J2-D4	26	Bump Up
5943	Orange	J2-E1	20	Switch In 2 - Full Throttle - Grounded
5918	Gray	J2-E3	46	Overide Shutdown
5923	Orange	J2-E4	16	Bump Enable
5906	Lt Blue	J2-F1	27	Bump Down
5954	Yellow	J2-F2	40	Switch In 1 - Full Throttle - Grounded
7103	Dk Green	J2-F4	43	Analog 21 - Suction Pressure Transducer
5948	Gray	J2-G4	47	Analog 23 - Loss of coolant switch
5939	White	J2-I1	17	Switch In 3 - Overspeed Verify Enable Input
7919	Brown	J2-I2	10	Low Coolant Temperature Test Switch Input
7002	Brown	J2-J1	38	1000 rpm (Source Dvr 1)
5941	Brown	J2-K1	36	External Shutdown
5020	Black	J2-K2	5	CAN Shield
7003	Lt Blue	J2-K4	29	Source Dvr2 - Overspeed Alarm
5022A	Red	J2-L1	32	Unswitched Battery
5050A	Black	J2-L2	11	System Ground
5050B	Black	J2-L3	31	System Ground
5022B	Red	J2-L4	54	Unswitched Battery
5022C	Red	J2-M1	22	Unswitched Battery
5050C	Black	J2-M2	53	System Ground
7004	Orange	J2-M3	18	Source Dvr3 - Low Oil Pressure Alarm
5022D	Red	J2-M4	42	Unswitched Battery

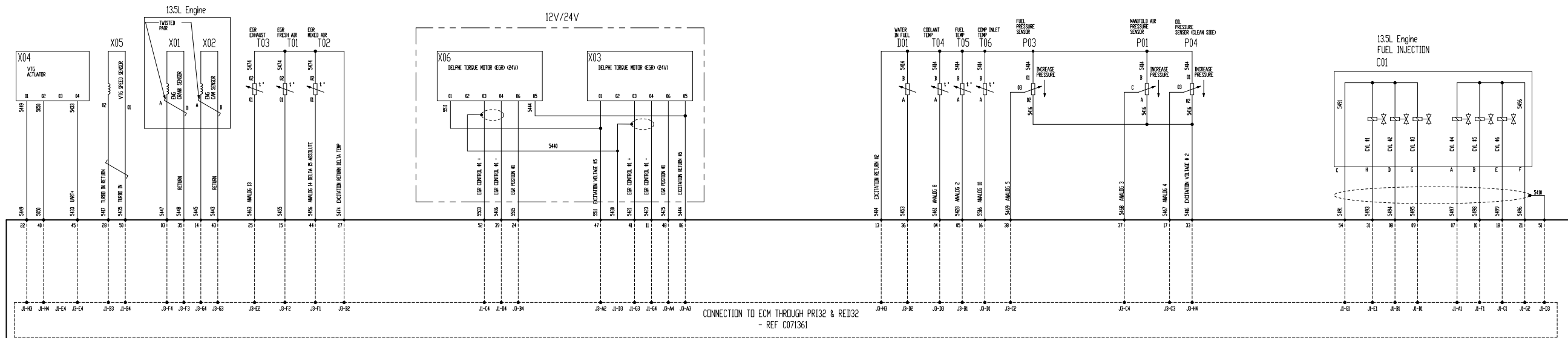


WIRE NUMBER	WIRE COLOR	ECM CONNECTION - J1 (PRIMARY & ALTERNATE)	SWITCHBOARD CONNECTION (PRI32 & RED32)	DESCRIPTION
5497	Purple	J1-A1		7 Injector Low 5 (cyl 4)
5494	Yellow	J1-B1		8 Injector Low 4 (cyl 2)
5417	Purple	J1-B3		28 Turbo Speed In Low
5435	Dk Green	J1-B4		50 Turbo Speed In High
5499	White	J1-C1		18 Injector Low 3 (cyl 6)
5458	Gray	J1-C3		23 Low Pressure Fuel Pump Current Out
5495	Dk Green	J1-D1		9 Injector Low 2 (cyl 3)
5457	Purple	J1-D2		24 Low Pressure Fuel Pump Speed CMD
5410	Black	J1-D3		51 Shield Drain
5486	Lt Blue	J1-D4		39 Source Dv6 LFPF Power On
5493	Orange	J1-E1		31 Injector Low 0 (cyl 1)
5434	Yellow	J1-E2		48 Low Pressure Fuel Pump Status
5498	Gray	J1-F1		10 Injector Low 1 (cyl 5)
5429	White	J1-F4		42 Source Dv10 Cold Start Aid
5491	Brown	J1-G1		54 Inject High 0.1.2
5492	Lt Blue	J1-G2		21 Inject High 3.4.5
5421	Brown	J1-G3		41 EGR Valve High Driver
5423	Orange	J1-G4		11 EGR Valve Low Driver
5424	Yellow	J1-H1		12 High Pressure Fuel Pump High Solenoid
5419	White	J1-H2		53 High Pressure Fuel Pump Low Solenoid
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5449A	White	J1-H4		Spliced together then go to pin 22 VGT power
5511	Brown	J1-A2		47 Excitation #5 +
5444	Yellow	J1-A3		6 Excitation #5 -
5428	Gray	J1-B1		5 Fuel Temperature
5474	Yellow	J1-B2		27 DeltaTemp Return
5475	Dk Green	J1-C1		1 Rail Pressure
5499	White	J1-C2		38 Fuel Pressure
5497	Purple	J1-C3		17 Oil Pressure
5453	Orange	J1-D2		36 Water-In-Fuel
5461	Brown	J1-D3		4 Coolant Temperature
5023	Orange	J1-D4		52 Secondary Rail Pressure Sensor
5463	Orange	J1-E2		25 EGR Exhaust Temperature
5433	Orange	J1-E4		45 VGT Communications
5456	Lt Blue	J1-F1		44 EGR Mixed Temperature
5455	Dk Green	J1-F2		15 EGR Fresh Air Temperature
5448	Gray	J1-F3		35 Crank Speed Return
5447	Purple	J1-F4		3 Crank Speed
5946	Lt Blue	J1-G1		29 Excitation Voltage 1
5427	Purple	J1-G2		26 Sensor Return 1
5443	Orange	J1-G3		43 Cam Speed Return
5445	Dk Green	J1-G4		14 Cam Speed
5414	Yellow	J1-H3		13 Sensor Return 2
5416	Lt Blue	J1-H4		33 Excitation Voltage 2

WIRE NUMBER	WIRE COLOR	ECM CONNECTION - J1 (PRIMARY & ALTERNATE)	SWITCHBOARD CONNECTION (PRI32 & RED32)	DESCRIPTION
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5417	Purple	J1-B3		28 Turbo Speed In Low
5435	Dk Green	J1-B4		50 Turbo Speed In High
5499	White	J1-C1		18 Injector Low 3 (cyl 6)
5458	Gray	J1-C3		23 Low Pressure Fuel Pump Current Out
5495	Dk Green	J1-D1		9 Injector Low 2 (cyl 3)
5457	Purple	J1-D2		24 Low Pressure Fuel Pump Speed CMD
5410	Black	J1-D3		51 Shield Drain
5486	Lt Blue	J1-D4		39 Source Dv6 LFPF Power On
5493	Orange	J1-E1		31 Injector Low 0 (cyl 1)
5434	Yellow	J1-E2		48 Low Pressure Fuel Pump Status
5498	Gray	J1-F1		10 Injector Low 1 (cyl 5)
5429	White	J1-F4		42 Source Dv10 Cold Start Aid
5491	Brown	J1-G1		54 Inject High 0.1.2
5492	Lt Blue	J1-G2		21 Inject High 3.4.5
5421	Brown	J1-G3		41 EGR Valve High Driver
5423	Orange	J1-G4		11 EGR Valve Low Driver
5424	Yellow	J1-H1		12 High Pressure Fuel Pump High Solenoid
5419	White	J1-H2		53 High Pressure Fuel Pump Low Solenoid
5449B	White	J1-H3		Spliced together then go to pin 22 VGT power
5449A	White	J1-H4		Spliced together then go to pin 22 VGT power
5511	Brown	J1-A2		47 Excitation #5 +
5444	Yellow	J1-A3		6 Excitation #5 -
5428	Gray	J1-B1		5 Fuel Temperature
5474	Yellow	J1-B2		27 DeltaTemp Return
5475	Dk Green	J1-C1		1 Rail Pressure
5499	White	J1-C2		38 Fuel Pressure
5497	Purple	J1-C3		17 Oil Pressure
5453	Orange	J1-D2		36 Water-In-Fuel
5461	Brown	J1-D3		4 Coolant Temperature
5023	Orange	J1-D4		52 Rail Pressure
5463	Orange	J1-E2		25 EGR Exhaust Temperature
5433	Orange	J1-E4		45 VGT Communications
5456	Lt Blue	J1-F1		44 EGR Mixed Temperature
5455	Dk Green	J1-F2		15 EGR Fresh Air Temperature
5448	Gray	J1-F3		35 Crank Speed Return
5447	Purple	J1-F4		3 Crank Speed
5946	Lt Blue	J1-G1		29 Excitation Voltage 1
5427	Purple	J1-G2		26 Sensor Return 1
5443	Orange	J1-G3		43 Cam Speed Return
5445	Dk Green	J1-G4		14 Cam Speed
5414	Yellow	J1-H3		13 Sensor Return 2
5416	Lt Blue	J1-H4		33 Excitation Voltage 2

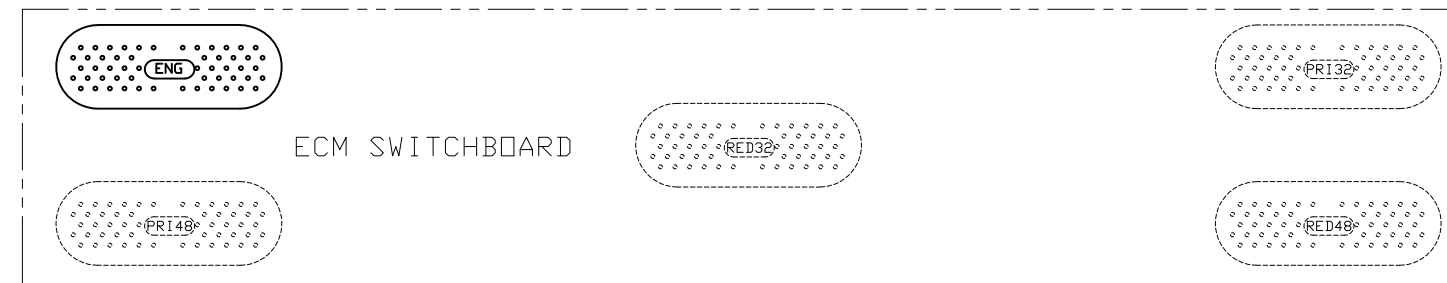
JOHN DEERE DESIGNATION	ENG (ENGINE HARNESS) - SEE THE FOLLOWING FOR ENGINE HARNESS DIAGRAM		WIRING DIAGRAM P/N	ECM P/N	ECM LEVEL
	CLARKE ENGINE MODELS				
4045PTE	JU4H-UFADW8, JU4H-UFADY8, JU4H-UFAD98, JU4H-UFAD4G, JU4H-UFAD5G, JU4H-UFADP0		C071367		
6068PTE	JU6H-UFADKO, JU6H-UFADNO, JU6H-UFAD88, JU6H-UFAD58, JU6H-UFADNG, JU6H-UFADP8		C071367	RE526588	L16
6068PTP	JU6H-UFADT0, JU6H-UFAD98, JU6H-UFADQ0				

REV	DESCRIPTION	ECN#	DWN	APVD	DATE
A	ISSUED DRAWING	574	KJK		02NDV08
-	ADDED CONTROLLED DRAWING NOTE, CONTROLLED DWG. BOX WAS MARKED "YES" & "NO"	6309	MAL	<i>MAL</i>	04MAY21



CONNECTION TO ECM THROUGH PRI32 & RED32
- REF C071361

ENG - SWITCHBOARD CONNECTION - 6135PTP



REFERENCE DEERE WIRING DIAGRAM

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MODEL RL Changing DRW RL Changing SOURCING OPEN X CLOSED	MODEL REV A. 5 DRW REV A. 5 OPEN X CLOSED	MATERIAL DRAWING:	DEERE & COMPANY VERSION RG PART NUMBER RE537503

CONTROLLED DRAWING

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THIS DRAWING AND THE INFORMATION HEREIN ARE OUR PROPERTY AND MAY BE USED BY OTHERS ONLY AS AUTHORIZED BY US. UNPUBLISHED - ALL RIGHTS RESERVED UNDER THE COPYRIGHT LAWS.		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO CONTROLLED DRAWING	CLARKE Fire Protection Products, Inc.
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE: DECIMAL .XX ±1.5 ±0.06 .XXX ±0.25 ±0.01 FRACTIONAL ±1/32 ANGULAR ± 5° SIMILAR TO XXXXXXXXX	DRWN NAME DATE DDMMYY ENGR ENGINEER MATERIAL XXXXXXX USED ON / LAYOUT PART NO.	NAME WIRING DIAGRAM, 6135PTP TIER 3 ENG CONNECTION C071371 PART NO. XXXXXXX SCALE NTS UNITS MM [INCH]	REV A PAGE 1 OF 1