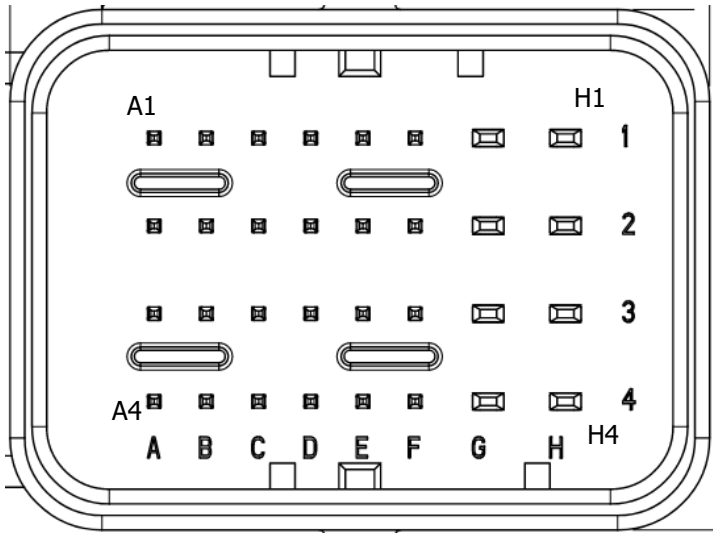


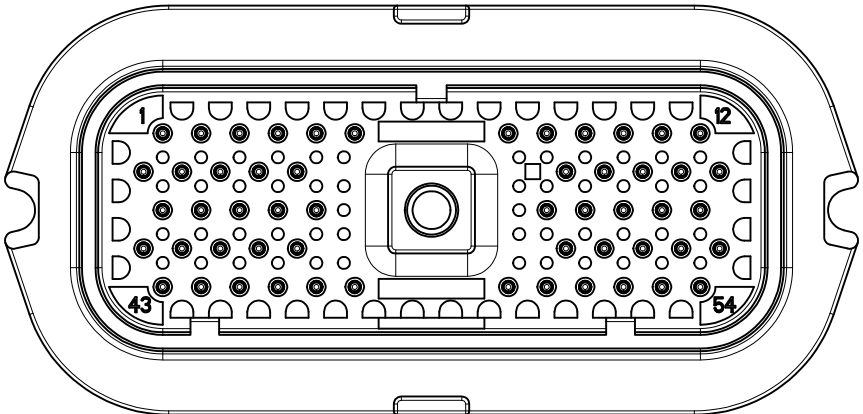
TSP-E TERMINAL BOARD ENGINE CONNECTORS TO PRIMARY AND ALTERNATE ECM J1 (JU4PTE(4045) & JU6PTE(6068HFC28))				
REFERENCE DESIGNATOR ON ECM HARNESS	WIRE COLOR	TERMINAL BOARD CONNECTION J1 / J7 / J8 54 PIN	DEERE ECM CONNECTION J1 PRIMARY AND ALTERNATE	DESCRIPTION
E_2_1_1_E3	Dk Green	1	E3	Rail Pressure
CRANK	Black	3	B4	Crank Speed
K_2_4_1_C4	Brown	4	C4	Coolant Temperature
L_2_5_1_F4	Gray	5	F4	Fuel Temperature
D_2_6_S1	Yellow	6	Spliced together at D2	Sensor Return 2
M_2_7_1_A1	Purple	7	A1	Injector Low 5 (cyl 4)
D_2_8_1_B1	Yellow	8	B1	Injector Low 4 (cyl 2)
E_2_9_1_D1	Dk Green	9	D1	Injector Low 2 (cyl 3)
L_2_10_1_F1	Gray	10	F1	Injector Low 1 (cyl 5)
D_2_12_1_H1	Yellow	12	H1	High Pressure Fuel Pump High Solenoid
D_2_13_S1	Yellow	13	Spliced together at D2	Sensor Return 2
CAM	Black	14	A4	Cam Speed
M_2_17_1_A3	Purple	17	A3	Oil Pressure
A_2_18_1_C1	White	18	C1	Injector Low 3 (cyl 6)
G_2_21_1_G2	Blue	21	G2	Inject High 3,4,5
C_2_25_1_C2	Orange	25	C2	Manifold Air Temperature
M_2_26_1_E2	Purple	26	E2	Sensor Return 1
G_2_29_1_D3	Blue	29	D3	Excitation Voltage 1
C_2_31_1_E1	Orange	31	E1	Injector Low 0 (cyl 1)
G_2_33_S2	Blue	33	Spliced together at F3	Excitation Voltage 2
CRANK	Clear	35	D4	Crank Speed Return
C_2_36_1_B2	Orange	36	B2	Water-In-Fuel
A_2_38_1_B3	White	38	B3	Fuel Pressure
CAM	Orange	43	E4	Cam Speed Return
K_2_47_S2	Brown	47	Spliced together at F3	Excitation Voltage 2
J_2_51_1_F2	Black	51	F2	Shield Drain
E_2_52_1_C3	Dk Green	52	C3	Manifold Air Pressure
A_2_53_1_H2	White	53	H2	High Pressure Fuel Pump Low Solenoid
K_2_54_1_G1	Brown	54	G1	Inject High 0,1,2

-REFERENCE C071367
FOR CONNECTIONS TO
ENGINE SENSORS

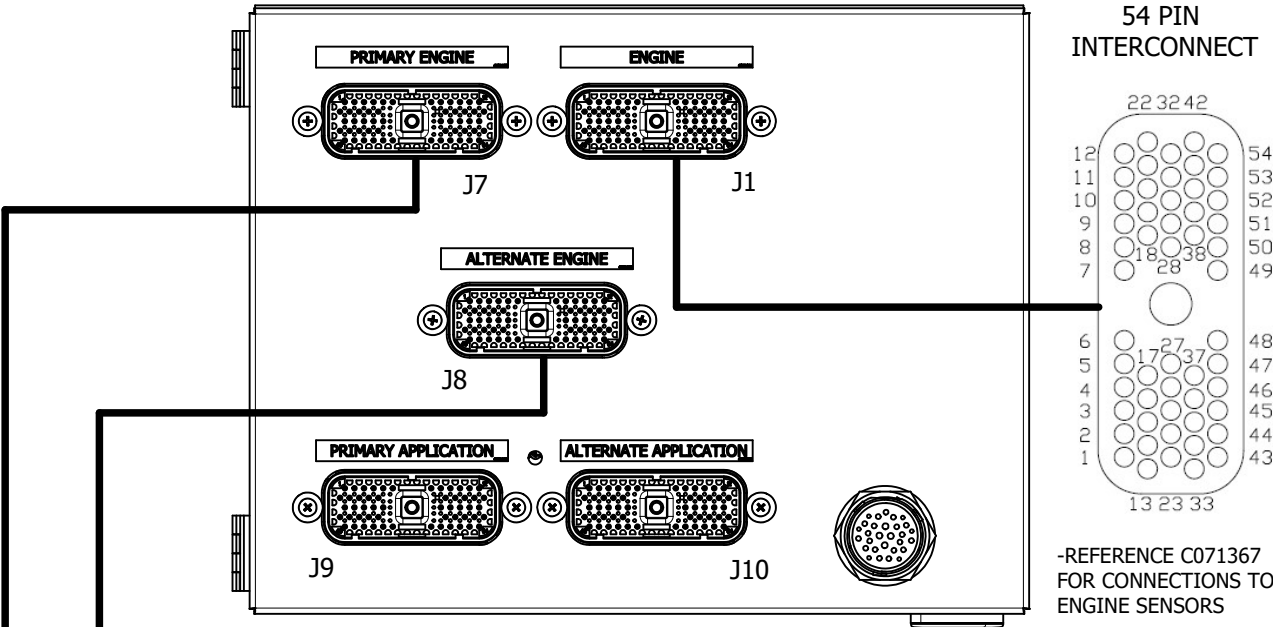
32 PIN DEERE ECM J1 & J3 CONNECTOR



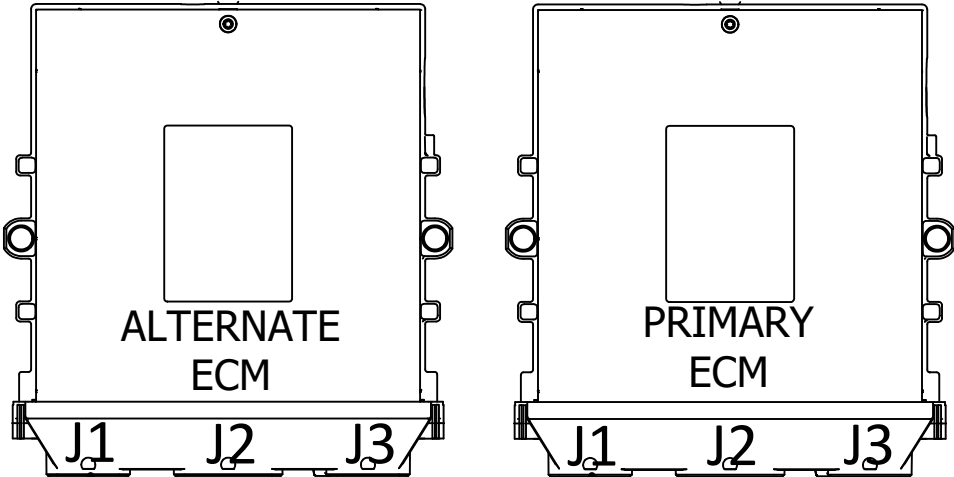
54 PIN TERMINAL BOARD CONNECTOR



TSP-E ENGINE PANEL



DEERE ENGINE CONTROL MODULES



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DECIMAL mm inch
X. ± 1.5
X.X ± 0.8 ± 0.06
X.XX ± 0.3 ± 0.03
X.XXX ± 0.01

ANGULAR: ± 0.5°

YES NO
CONTROLLED DRAWING

DRWN KKLOTH
DATE 6/20/2024
ENGR KKLOTH
MATERIAL
ASSEMBLY
SIMILAR TO C072736

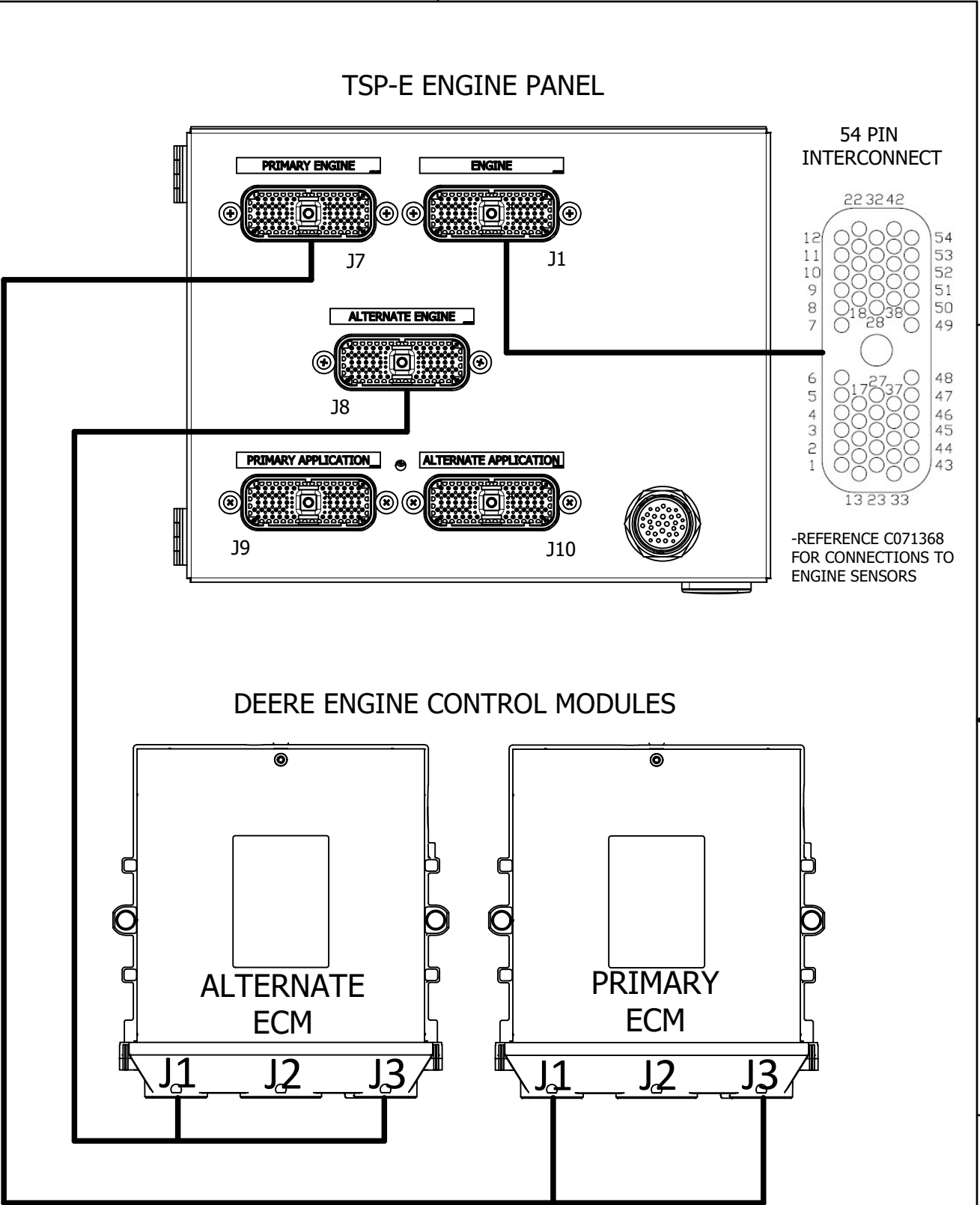
CLARKE®

WIRING DIAGRAM, JOHN DEERE ECM, TSP-E

PART NO. C073803
SCALE NTS
UNITS MM [INCH]
PAGE 2 OF 5

TSP-E TERMINAL BOARD ENGINE CONNECTORS TO PRIMARY AND ALTERNATE ECM J1 & J3 (JU6PTP(6068HFC48))				
REFERENCE DESIGNATOR ON ECM HARNESS	WIRE COLOR	TERMINAL BOARD CONNECTION J1 / J7 / J8 54 PIN	DEERE ECM CONNECTION J1 & J3 PRIMARY & ALTERNATE	DESCRIPTION
E_3_C1_2_01	Green	1	J3-C1	Rail Pressure
CRANK	Black	3	J3-F4	Crank Speed
K_3_D3_2_04	Brown	4	J3-D3	Coolant Temperature
L_3_B1_2_05	Gray	5	J3-B1	Fuel Temperature
D_3_A3_2_06	Yellow	6	J3-A3	Excitation #5 -
INJECTOR	Purple	7	J1-A1	Injector Low 5 (cyl 4)
INJECTOR	Yellow	8	J1-B1	Injector Low 4 (cyl 2)
INJECTOR	Green	9	J1-D1	Injector Low 2 (cyl 3)
INJECTOR	Gray	10	J1-F1	Injector Low 1 (cyl 5)
EGR	Clear	11	J1-G4	EGR Valve Low Driver
FUEL_PUMP	Black	12	J1-H1	High Pressure Fuel Pump High Solenoid
D_3_H3_2_13	Yellow	13	J3-H3	Sensor Return 2
CAM	Black	14	J3-G4	Cam Speed
E_3_F2_2_15	Green	15	J3-F2	EGR Fresh Air Temperature
G_3_D1_2_16	Blue	16	J3-D1	Compressor Inlet Temp
M_3_C3_2_17	Purple	17	J3-C3	Oil Pressure
INJECTOR	White	18	J1-C1	Injector Low 3 (cyl 6)
INJECTOR	Blue	21	J1-G2	Inject High 3,4,5
C_3_E2_2_25	Orange	25	J3-E2	EGR Exhaust Temperature
M_3_G2_2_26	Purple	26	J3-G2	Sensor Return 1
D_3_B2_2_27	Yellow	27	J3-B2	DeltaTemp Return
VGT	Black	28	J1-B3	Turbo Speed In Low
G_3_G1_2_29	Blue	29	J3-G1	Excitation Voltage 1
INJECTOR	Orange	31	J1-E1	Injector Low 0 (cyl 1)
G_3_H4_2_33	Blue	33	J3-H4	Excitation Voltage 2
E_3_A4_2_34	Dk Green	34	J3-A4	EGR Valve Position
CRANK	Clear	35	J3-F3	Crank Speed Return
C_3_D2_2_36	Orange	36	J3-D2	Water-In-Fuel
L_3_C4_2_37	Gray	37	J3-C4	Manifold Air Pressure
A_3_C2_2_38	White	38	J3-C2	Fuel Pressure
EGR	Black	41	J1-G3	EGR Valve High Driver
CAM	Clear	43	J3-G3	Cam Speed Return
G_3_F1_2_44	Blue	44	J3-F1	EGR Mixed Temperature
C_3_E4_2_45	Orange	45	J3-E4	VGT Communications
K_3_A2_2_47	Brown	47	J3-A2	Excitation #5 +
VGT	White	50	J1-B4	Turbo Speed In High
INJECTOR	Black	51	J1-D3	Shield Drain
C_3_D4_2_52	Orange	52	J3-D4	Secondary Rail Pressure Sensor
FUEL_PUMP	Clear	53	J1-H2	High Pressure Fuel Pump Low Solenoid
INJECTOR	Brown	54	J1-G1	Inject High 0,1,2
A_1_H3_S1	White	Spliced together at pin 22	J1-H3	VGT power
A_1_H4_S1	White	Spliced together at pin 22	J1-H4	VGT power

SAME BOARD AND ECU CONNECTORS AS PAGE 2



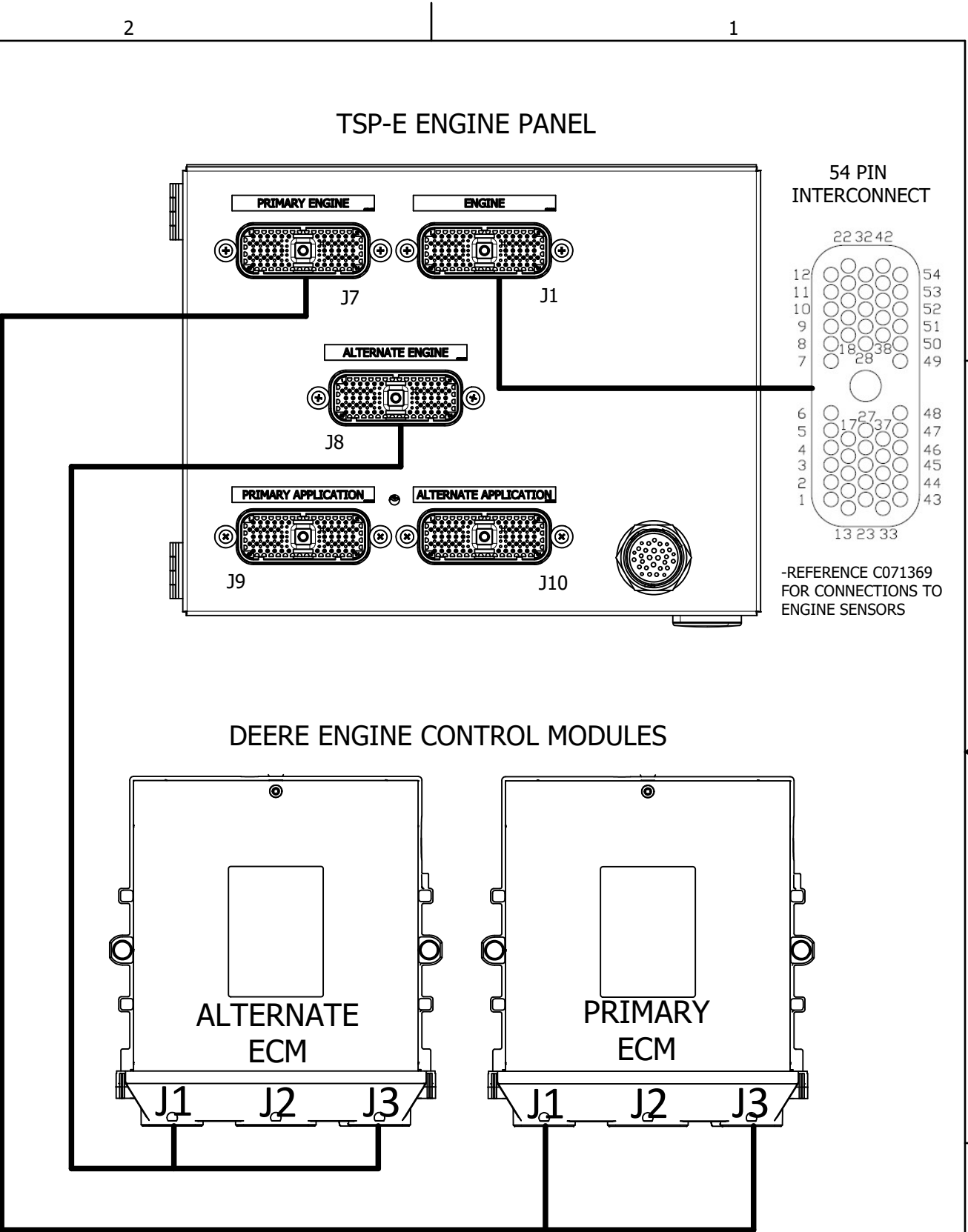
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STANDARD TOLERANCE		DRWN KKLOTH		DATE 6/20/2024	
DECIMAL mm inch		ENGR KKLOTH		MATERIAL	
X. ± 1.5		ASSEMBLY		PART NO. C073803	
X.X ± 0.8 ± 0.06		SIMILAR TO C072736		SCALE NTS	
X.XX ± 0.3 ± 0.03				UNITS MM [INCH]	
X.XXX ± 0.01				PAGE 3 OF 5	
ANGULAR: ± 0.5°				REV A	

TSP-E TERMINAL BOARD ENGINE CONNECTORS TO PRIMARY AND ALTERNATE ECM J1 & J3 (JW6PTE(6090HFC47))				
REFERENCE DESIGNATOR ON ECM HARNESS	WIRE COLOR	TERMINAL BOARD CONNECTION J1 / J7 / J8 54 PIN	DEERE ECM CONNECTION J1 & J3 PRIMARY & ALTERNATE	DESCRIPTION
E_3_C1_2_01	Green	1	J3-C1	Rail Pressure
CRANK	Black	3	J3-F4	Crank Speed
K_3_D3_2_04	Brown	4	J3-D3	Coolant Temperature
L_3_B1_2_05	Gray	5	J3-B1	Fuel Temperature
D_3_A3_2_06	Yellow	6	J3-A3	Excitation #5 -
INJECTOR	Purple	7	J1-A1	Injector Low 5 (cyl 4)
INJECTOR	Yellow	8	J1-B1	Injector Low 4 (cyl 2)
INJECTOR	Green	9	J1-D1	Injector Low 2 (cyl 3)
INJECTOR	Gray	10	J1-F1	Injector Low 1 (cyl 5)
FUEL_PUMP	Black	12	J1-H1	High Pressure Fuel Pump High Solenoid
D_3_H3_2_13	Yellow	13	J3-H3	Sensor Return 2
CAM	Black	14	J3-G4	Cam Speed
M_3_C3_2_17	Purple	17	J3-C3	Oil Pressure
INJECTOR	White	18	J1-C1	Injector Low 3 (cyl 6)
INJECTOR	Blue	21	J1-G2	Inject High 3,4,5
L_1_C3_2_23	Gray	23	J1-C3	Low Pressure Fuel Pump Current Out
M_1_D2_2_24	Purple	24	J1-D2	Low Pressure Fuel Pump Speed CMD
M_3_G2_2_26	Purple	26	J3-G2	Sensor Return 1
D_3_B2_2_27	Yellow	27	J3-B2	DeltaTemp Return
M_1_B4_2_29	Purple	28	J1-B3	Turbo Speed In Low
G_3_G1_2_29	Blue	29	J3-G1	Excitation Voltage 1
INJECTOR	Orange	31	J1-E1	Injector Low 0 (cyl 1)
G_3_H4_2_33	Blue	33	J3-H4	Excitation Voltage 2
CRANK	Clear	35	J3-F3	Crank Speed Return
C_3_D2_2_36	Orange	36	J3-D2	Water-In-Fuel
A_3_C2_2_38	White	38	J3-C2	Fuel Pressure
G_1_D4_2_39	Blue	39	J1-D4	Source Drv 6 LPFP Power On
A_1_F4_2_42	White	42	J1-F4	Source Drv 10 Cold Start Aid
CAM	Clear	43	J3-G3	Cam Speed Return
G_3_F1_2_44	Blue	44	J3-F1	EGR Mixed Temperature
K_3_A2_2_47	Brown	47	J3-A2	Excitation #5 +
D_1_E2_2_48	Yellow	48	J1-E2	Low Pressure Fuel Pump Status
E_1_B4_2_50	Green	50	J1-B4	Turbo Speed In High
J_1_D3_2_51_1	Black	51	J1-D3	Shield Drain
C_3_D4_2_52	Orange	52	J3-D4	Rail Pressure
FUEL_PUMP	Clear	53	J1-H2	High Pressure Fuel Pump Low Solenoid
INJECTOR	Brown	54	J1-G1	Inject High 0,1,2

SAME BOARD AND ECU CONNECTORS AS PAGE 2



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UNLESS NOTED OTHERWISE, TOLERANCING GUIDELINES WILL BE AS SHOWN BELOW		DRWN KKLOTH		NAME	
STANDARD TOLERANCE		DATE 6/20/2024		WIRING DIAGRAM, JOHN DEERE ECM, TSP-E	
DECIMAL mm inch		ENGR KKLOTH		PART NO. C073803	
X. ± 1.5		MATERIAL		REV A	
X.X ± 0.8 ± 0.06		ASSEMBLY		SCALE NTS	
X.XX ± 0.3 ± 0.03		SIMILAR TO C072736		UNITS MM [INCH]	
X.XXX ± 0.01		ANGULAR: ± 0.5°		PAGE 4 OF 5	

4			3		
TSP-E TERMINAL BOARD ENGINE CONNECTORS TO PRIMARY AND ALTERNATE ECM J1 & J3 (JW6PTP(6090HFC48))					
REFERENCE DESIGNATOR ON ECM HARNESS	WIRE COLOR	TERMINAL BOARD CONNECTION J1 / J7 / J8 54 PIN	DEERE ECM CONNECTION J1 & J3 PRIMARY & ALTERNATE	DESCRIPTION	
E_3_C1_2_01	Green	1	J3-C1	Rail Pressure	
CRANK	Black	3	J3-F4	Crank Speed	
K_3_D3_2_04	Brown	4	J3-D3	Coolant Temperature	
L_3_B1_2_05	Gray	5	J3-B1	Fuel Temperature	
D_3_A3_2_06	Yellow	6	J3-A3	Excitation #5 -	
INJECTOR	Purple	7	J1-A1	Injector Low 5 (cyl 4)	
INJECTOR	Yellow	8	J1-B1	Injector Low 4 (cyl 2)	
INJECTOR	Green	9	J1-D1	Injector Low 2 (cyl 3)	
INJECTOR	Gray	10	J1-F1	Injector Low 1 (cyl 5)	
EGR	Clear	11	J1-G4	EGR Valve Low Driver	
FUEL_PUMP	Black	12	J1-H1	High Pressure Fuel Pump High Solenoid	
D_3_H3_2_13	Yellow	13	J3-H3	Sensor Return 2	
CAM	Black	14	J3-G4	Cam Speed	
E_3_F2_2_15	Green	15	J3-F2	EGR Fresh Air Temperature	
G_3_D1_2_16	Blue	16	J3-D1	Compressor Inlet Temp	
M_3_C3_2_17	Purple	17	J3-C3	Oil Pressure	
INJECTOR	White	18	J1-C1	Injector Low 3 (cyl 6)	
INJECTOR	Blue	21	J1-G2	Inject High 3,4,5	
L_1_C3_2_23	Gray	23	J1-C3	Low Pressure Fuel Pump Current Out	
M_1_D2_2_24	Purple	24	J1-D2	Low Pressure Fuel Pump Speed CMD	
C_3_E2_2_25	Orange	25	J3-E2	EGR Exhaust Temperature	
M_3_G2_2_26	Purple	26	J3-G2	Sensor Return 1	
D_3_B2_2_27	Yellow	27	J3-B2	DeltaTemp Return	
VGT	Black	28	J1-B3	Turbo Speed In Low	
G_3_G1_2_29	Blue	29	J3-G1	Excitation Voltage 1	
INJECTOR	Orange	31	J1-E1	Injector Low 0 (cyl 1)	
G_3_H4_2_33	Blue	33	J3-H4	Excitation Voltage 2	
E_3_A4_2_34	Dk Green	34	J3-A4	EGR Valve Position	
CRANK	Clear	35	J3-F3	Crank Speed Return	
C_3_D2_2_36	Orange	36	J3-D2	Water-In-Fuel	
L_3_C4_2_37	Gray	37	J3-C4	Manifold Air Pressure	
A_3_C2_2_38	White	38	J3-C2	Fuel Pressure	
G_1_D4_2_39	Blue	39	J1-D4	Source Drv 6 LPFP Power On	
EGR	Black	41	J1-G3	EGR Valve High Driver	
A_1_F4_2_42	White	42	J1-F4	Source Drv 10 Cold Start Aid	
CAM	Clear	43	J3-G3	Cam Speed Return	
G_3_F1_2_44	Blue	44	J3-F1	EGR Mixed Temperature	
C_3_E4_2_45	Orange	45	J3-E4	VGT Communications	
K_3_A2_2_47	Brown	47	J3-A2	Excitation #5 +	
D_1_E2_2_48	Yellow	48	J1-E2	Low Pressure Fuel Pump Status	
VGT	Clear	50	J1-B4	Turbo Speed In High	
J_1_D3_2_51_1	Black	51	J1-D3	Shield Drain	
C_3_D4_2_52	Orange	52	J3-D4	Rail Pressure	
FUEL_PUMP	Clear	53	J1-H2	High Pressure Fuel Pump Low Solenoid	
INJECTOR	Brown	54	J1-G1	Inject High 0,1,2	
A_1_H3_S1	White	Spliced together at pin 22	J1-H3	VGT power	
A_1_H4_S1	White	Spliced together at pin 22	J1-H4	VGT power	

