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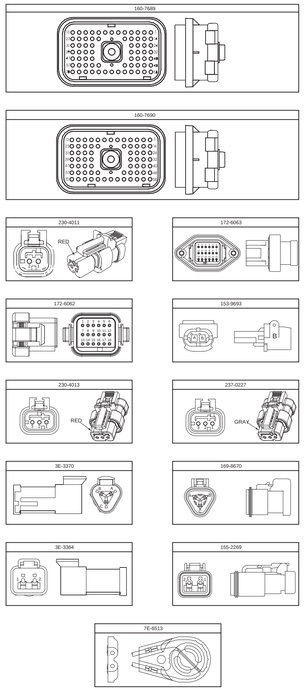

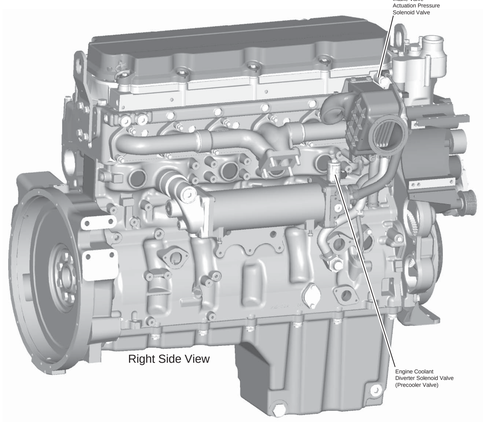

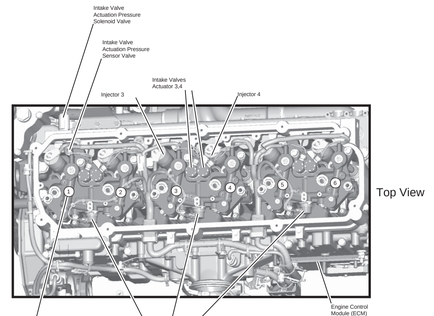

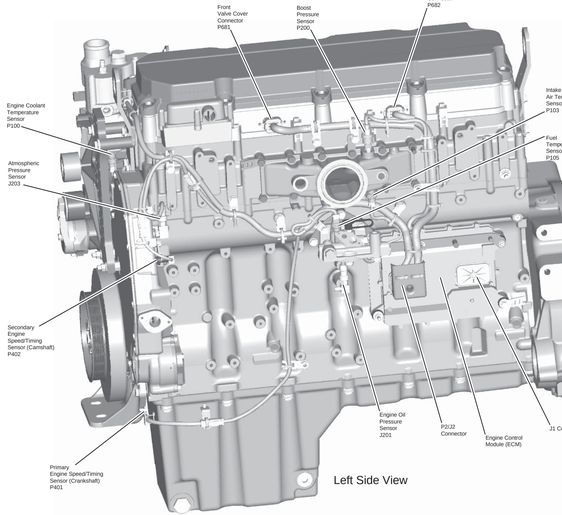

Related Electrical Service Manuals	
Title	Form Number
Troubleshooting	SENR9698
Systems Operation / Testing and Adjusting	SENR9703
Electronic PTO Installation and Applications Guide	RENR1282
Operation and Maintenance Manual	SEBU7695

Diagnostic Code Listing					
PID-FMI	Description	Flash Codes	PID-FMI	Description	Flash Codes
N/A	No Diagnostic Codes Detected	00	0111-04	Coolant Level voltage low	12
0001-05	Cylinder #1 Injector current low	72	0111-11	Very Low Coolant Level	62
0001-06	Cylinder #1 Injector current high	72	0111-14	Low Coolant Level Warning	
0002-05	Cylinder #2 Injector current low	72	0121-05	Low/High Retarder current low	14
0002-06	Cylinder #2 Injector current high	72	0121-06	Low/High Retarder current high	14
0003-05	Cylinder #3 Injector current low	73	0122-05	Med/High Retarder current low	14
0003-06	Cylinder #3 Injector current high	73	0122-06	Med/High Retarder current high	14
0004-05	Cylinder #4 Injector current low	73	0166-14	Rated Engine Power Special Instructions	
0004-06	Cylinder #4 Injector current high	73	0168-01	Low ECM Battery Power	17
0005-05	Cylinder #5 Injector current low	74	0168-02	ECM Battery Power Intermittent	51
0005-06	Cylinder #5 Injector current high	74	0171-03	Ambient Air Temperature voltage high	
0006-05	Cylinder #6 Injector current low	74	0171-04	Ambient Air Temperature voltage low	
0006-06	Cylinder #6 Injector current high	74	0171-11	Ambient Air Temperature Data Lost	
0022-11	Primary to Secondary Engine Speed Calibration	42	0174-00	High Fuel Temperature Warning	65
0022-13	Engine Speed Signal Calibration Not Performed	42	0174-03	Fuel Temperature voltage high	13
0030-08	PTO Throttle signal invalid	29	0174-04	Fuel Temperature voltage low	13
0030-13	PTO Throttle out of calibration	29	0190-00	Engine Overspeed Warning	35
0041-03	8 Volt Supply voltage high	21	0190-08	Primary Engine Speed Loss of Signal	34
0041-04	8 Volt Supply voltage low	21	0191-07	Transmission Not Responding	68
0043-02	Key Switch Fault	71	0224-11	Theft Deterrent Active	00
0052-11	Air Inlet Shutoff Shutdown	00	0224-14	Theft Deterrent Active with Engine Cranking	00
0054-05	Auxiliary Output #06 current low	66	0231-02	J1939 Data Incorrect	58
0054-06	Auxiliary Output #06 current high	66	0231-12	J1939 Device Not Responding	
0055-05	Auxiliary Output #07 current low	67	0232-03	5 Volt Supply voltage high	21
0055-06	Auxiliary Output #07 current high	67	0232-04	5 Volt Supply voltage low	21
0064-08	Secondary Engine Speed loss of signal	34	0246-11	Brake Pedal Switch #1 Fault	
0071-00	Idle Shutdown Override	01	0247-11	Brake Pedal Switch #2 Fault	
0071-01	Idle Shutdown	47	0252-11	Engine Software Incorrect	59
0071-14	PTO Shutdown	47	0253-02	Check Customer or System Parameters	56
0084-00	Vehicle Overspeed Warning	41	0253-11	Check Transmission Customer Parameters	56
0084-01	Vehicle Speed loss of signal	31	0283-05	Intake Valve Actuation System Oil Pressure Solenoid current low	97
0084-02	Vehicle Speed signal invalid	36	0283-06	Intake Valve Actuation System Oil Pressure Solenoid current high	97
0084-08	Vehicle Speed signal out of range	36	0283-07	Intake Valve Actuation Oil Pres. not responding	91
0084-10	Vehicle Speed signal rate of change	36	0284-05	Engine Coolant Diverter current low	98
0084-14	Quick Stop Occurrence		0284-06	Engine Coolant Diverter current high	98
0091-08	Throttle Position Invalid	32	0285-05	Intake Valve Actuator #1 current low	92
0091-13	Throttle Position out of calibration	32	0285-06	Intake Valve Actuator #1 current high	92
0100-01	Low Oil Pressure Warning	46	0286-07	Intake Valve Actuator #1 not responding	92
0100-03	Oil Pressure voltage high	24	0286-05	Intake Valve Actuator #2 current low	92
0100-04	Oil Pressure voltage low	24	0286-06	Intake Valve Actuator #2 current high	92
0100-11	Very Low Oil Pressure	46	0286-07	Intake Valve Actuator #2 not responding	92
0102-03	Boost Pressure voltage high	25	0287-05	Intake Valve Actuator #3 current low	93
0102-04	Boost Pressure voltage low	25	0287-06	Intake Valve Actuator #3 current high	93
0105-00	High Intake Manifold Air Temperature Warning	64	0287-07	Intake Valve Actuator #3 not responding	93
0105-03	Intake Manifold Air Temperature voltage high	38	0288-05	Intake Valve Actuator #4 current low	93
0105-04	Intake Manifold Air Temperature voltage low	38	0288-06	Intake Valve Actuator #4 current high	93
0105-11	Very High Intake Manifold Air Temperature	64	0288-07	Intake Valve Actuator #4 not responding	93
0108-03	Barometric Pressure voltage high	26	0289-05	Intake Valve Actuator #5 current low	94
0108-04	Barometric Pressure voltage low	26	0289-06	Intake Valve Actuator #5 current high	94
0110-00	High Coolant Temperature Warning	61	0289-07	Intake Valve Actuator #5 not responding	94
0110-03	Coolant Temperature voltage high	27	0290-05	Intake Valve Actuator #6 current low	94
0110-04	Coolant Temperature voltage low	27	0290-06	Intake Valve Actuator #6 current high	94
0110-11	Very High Coolant Temperature	61	0290-07	Intake Valve Actuator #6 not responding	94
0111-01	Low Coolant Level Warning	62	0385-01	Low Intake Valve Actuation System Oil Pres.	
0111-02	Coolant Level signal invalid	12	0385-03	Intake Valve Actuation Sys. Oil Pres. voltage high	95
0111-03	Coolant Level voltage high	12	0385-04	Intake Valve Actuation Sys. Oil Pres. voltage low	95

Connector Tables for Harnesses 234-9512, 238-4778, 240-6655, 246-4346, 267-1274, 243-2302, 243-2315, & 266-7689

The following applies to 234-9512 & 238-4778

J201
CLR-GA	WIRE NAME	POS	TERMPLUG
BU-18	995-A12	1	180-9340
PK-18	G833-A44	2	180-9340
ACCESORY TABLE			
QTY	PART NAME		P/N
1	PLUG AS.		155-2269
1	WEDGE		155-2261
200mm	PAINTPRO		110-3202

P103
CLR-GA	WIRE NAME	POS	TERMPLUG
BU-18	995-A12	1	180-9340
PK-18	G833-A44	2	180-9340
ACCESORY TABLE			
QTY	PART NAME		P/N
1	PLUG AS.		155-2269
1	WEDGE		155-2261
200mm	PAINTPRO		110-3202

P105
CLR-GA	WIRE NAME	POS	TERMPLUG
YL-18	A753-A11	1	180-9340
PK-18	G833-A44	2	180-9340
ACCESORY TABLE			
QTY	PART NAME		P/N
1	PLUG AS.		155-2269
1	WEDGE		155-2261
200mm	PAINTPRO		110-3202

P200
CLR-GA	WIRE NAME	POS	TERMPLUG
WH-18	G829-A38	A	180-9340
GN-18	G829-A41	B	180-9340
PK-18	G829-A44	C	180-9340
ACCESORY TABLE			
QTY	PART NAME		P/N
1	PLUG AS.		155-2267
1	WEDGE		155-2276
200mm	PAINTPRO		110-3202

P201
CLR-GA	WIRE NAME	POS	TERMPLUG
WH-18	G829-A38	A	180-9340
GN-18	G829-A41	B	180-9340
GY-18	994-A10	C	180-9339
ACCESORY TABLE			
QTY	PART NAME		P/N
1	PLUG AS.		155-2267
1	WEDGE		155-2276
200mm	PAINTPRO		110-3202

P202
CLR-GA	WIRE NAME	POS	TERMPLUG
WH-18	G829-A38	A	180-9339
GN-18	G829-A41	B	180-9340
GY-18	994-A10	C	180-9339
ACCESORY TABLE			
QTY	PART NAME		P/N
1	PLUG AS.		155-2267
1	WEDGE		155-2276
200mm	PAINTPRO		110-3202

P203
CLR-GA	WIRE NAME	POS	TERMPLUG
BU-18	T855-A34	1	180-9340
YL-18	H807-A31	2	180-9340
ACCESORY TABLE			
QTY	PART NAME		P/N
1	PLUG AS.		155-2267
1	WEDGE		155-2261
200mm	PAINTPRO		110-3202

P204
CLR-GA	WIRE NAME	POS	TERMPLUG
BU-18	T855-A34	1	180-9339
YL-18	H807-A31	2	180-9340
ACCESORY TABLE			
QTY	PART NAME		P/N
1	PLUG AS.		155-2267
1	WEDGE		155-2261
200mm	PAINTPRO		110-3202

P205
CLR-GA	WIRE NAME	POS	TERMPLUG
BU-18	T855-A34	1	180-9339
YL-18	H807-A31	2	180-9340
ACCESORY TABLE			
QTY	PART NAME		P/N
1	PLUG AS.		155-2267
1	WEDGE		155-2261
200mm	PAINTPRO		110-3202

P206
CLR-GA	WIRE NAME	POS	TERMPLUG
BU-18	T855-A34	1	180-9339
YL-18	H807-A31	2	180-9340
ACCESORY TABLE			
QTY	PART NAME		P/N
1	PLUG AS.		155-2267
1	WEDGE		155-2261
200mm	PAINTPRO		110-3202

P207
CLR-GA	WIRE NAME	POS	TERMPLUG
BU-18	T855-A34	1	180-9339
YL-18	H807-A31	2	180-9340
ACCESORY TABLE			
QTY	PART NAME		P/N
1	PLUG AS.		155-2267
1	WEDGE		155-2261
200mm	PAINTPRO		110-3202

J203
CLR-GA	WIRE NAME	POS	TERMPLUG
BU-18	T855-A34	1	180-9339
YL-18	H807-A31	2	180-9340
ACCESORY TABLE			
QTY	PART NAME		P/N
1	RECEPTACLE AS.		3E-3364
1	WEDGE		3E-3365
200mm	PAINTPRO		110-3202

J201
CLR-GA	WIRE NAME	POS	TERMPLUG
WH-18	G829-A38	A	180-9339
GN-18	G829-A41	B	180-9339
GY-18	994-A10	C	180-9339
ACCESORY TABLE			
QTY	PART NAME		P/N
1	RECEPTACLE AS.		3E-3370
1	WEDGE		3E-3371
200mm	PAINTPRO		110-3202

J202
CLR-GA	WIRE NAME	POS	TERMPLUG
BU-18	T855-A34	1	180-9339
YL-18	H807-A31	2	180-9340
ACCESORY TABLE			
QTY	PART NAME		P/N
1	PLUG AS.		155-2269
1	WEDGE		155-2261
200mm	PAINTPRO		110-3202

J1/J2
CLR-GA	WIRE NAME	POS	TERMPLUG
BU-18	T855-A34	1	180-9339
YL-18	H807-A31	2	180-9340
ACCESORY TABLE			
QTY	PART NAME		P/N
1	PLUG AS.		155-2269
1	WEDGE		155-2261
200mm	PAINTPRO		110-3202

The following applies to 243-2302, 243-2315, 246-4346 & 240-6655

P103
CLR-GA	WIRE NAME	POS	TERMPLUG
BU-18	995-A12	1	180-9340
PK-18	G833-A44	2	180-9340
ACCESORY TABLE			
QTY	PART NAME		P/N
1	PLUG AS.		155-2269
1	WEDGE		155-2261
200mm	PAINTPRO		110-3202

P105
CLR-GA	WIRE NAME	POS	TERMPLUG
YL-18	A753-A11	1	180-9340
PK-18	G833-A44	2	180-9340
ACCESORY TABLE			
QTY	PART NAME		P/N
1	PLUG AS.		155-2269
1	WEDGE		155-2261
200mm	PAINTPRO		110-3202

P200
CLR-GA	WIRE NAME	POS	TERMPLUG
WH-18	G829-A38	A	180-9340
GN-18	G829-A41	B	180-9340
PK-18	G829-A44	C	180-9340
ACCESORY TABLE			
QTY	PART NAME		P/N
1	PLUG AS.		155-2267
1	WEDGE		155-2276
200mm	PAINTPRO		110-3202

P201
CLR-GA	WIRE NAME	POS	TERMPLUG
WH-18	G829-A38	A	180-9339
GN-18	G829-A41	B	180-9339
GY-18	994-A10	C	180-9339
ACCESORY TABLE			
QTY	PART NAME		P/N
1	RECEPTACLE AS.		3E-3370
1	WEDGE		3E-3371
200mm	PAINTPRO		110-3202

P202
CLR-GA	WIRE NAME	POS	TERMPLUG
WH-18	G829-A38	A	180-9339
GN-18	G829-A41	B	180-9339
GY-18	994-A10	C	180-9339
ACCESORY TABLE			
QTY	PART NAME		P/N
1	RECEPTACLE AS.		3E-3370
1	WEDGE		3E-3371
200mm	PAINTPRO		110-3202

J201
CLR-GA	WIRE NAME	POS	TERMPLUG
BU-18	T855-A34	1	180-9339
YL-18	H807-A31	2	180-9340
ACCESORY TABLE			
QTY	PART NAME		P/N
1	RECEPTACLE AS.		3E-3364
1	WEDGE		3E-3365
200mm	PAINTPRO		110-3202

The following applies to 267-1274 & 2667689

P103
CLR-GA	WIRE NAME	POS	TERMPLUG
BU-18	995-A12	1	180-9340
PK-18	G833-A44	2	180-9340
ACCESORY TABLE			
QTY	PART NAME		P/N
1	PLUG AS.		230-4011
200mm	PAINTPRO		110-3202

P105
CLR-GA	WIRE NAME	POS	TERMPLUG
PK-18	G833-A44	1	180-9340
ACCESORY TABLE			
QTY	PART NAME		P/N
1	PLUG AS.		155-2269
1	WEDGE		155-2261
200mm	PAINTPRO		110-3202

P200
CLR-GA	WIRE NAME	POS	TERMPLUG
WH-18	G829-A38	A	180-9340
GN-18	G829-A41	B	180-9340
PK-18	G829-A44	C	180-9340
ACCESORY TABLE			
QTY	PART NAME		P/N
1	PLUG AS.		237-0227
1	WEDGE		237-0232
200mm	PAINTPRO		110-3202

P201
CLR-GA	WIRE NAME	POS	TERMPLUG
WH-18	G829-A38	1	180-9340
GN-18	G829-A41	2	180-9340
GY-18	994-A10	3	180-9339
ACCESORY TABLE			
QTY	PART NAME		P/N
1	PLUG AS.		237-0227
1	WEDGE		237-0232
200mm	PAINTPRO		110-3202

P202
CLR-GA	WIRE NAME	POS	TERMPLUG
WH-18	G829-A38	1	180-9339
GN-18	G829-A41	2	180-9340
GY-18	994-A10	3	180-9339
ACCESORY TABLE			
QTY	PART NAME		P/N
1	PLUG AS.		237-0227
1	WEDGE		237-0232
200mm	PAINTPRO		110-3202

J203
CLR-GA	WIRE NAME	POS	TERMPLUG
BU-18	T855-A34	1	180-9339
YL-18	H807-A31	2	180-9340
ACCESORY TABLE			
QTY	PART NAME		P/N
1	RECEPTACLE AS.		3E-3364
1	WEDGE		3E-3365
200mm	PAINTPRO		110-3202

J201
CLR-GA	WIRE NAME	POS	TERMPLUG
WH-18	G829-A38	A	180-9339
GN-18	G829-A41	B	180-9339
GY-18	994-A10	C	180-9339
ACCESORY TABLE			
QTY	PART NAME		P/N
1	RECEPTACLE AS.		3E-3370
1	WEDGE		3E-3371
200mm	PAINTPRO		110-3202

J202
CLR-GA	WIRE NAME	POS	TERMPLUG
BU-18	T855-A34	1	180-9339
YL-18	H807-A31	2	180-9340
ACCESORY TABLE			
QTY	PART NAME		P/N
1	PLUG AS.		155-2269
1	WEDGE		155-2261
200mm	PAINTPRO		110-3202

J1/J2
CLR-GA	WIRE NAME	POS	TERMPLUG
BU-18	T855-A34	1	180-9339
YL-18	H807-A31	2	180-9340
ACCESORY TABLE			
QTY	PART NAME		P/N
1	PLUG AS.		155-2269
1	WEDGE		155-2261
200mm	PAINTPRO		110-3202

The following applies to 243-2302 243-2315 & 266-7689 only (NOTE G)

AIR SHUTOFF RELAY
CLR-GA	WIRE NAME	POS	TERMPLUG
PK-18	995-A51	1	180-9340
BU-16 HEV	T420-A50	2	180-9340
ACCESORY TABLE			
QTY	PART NAME		P/N
1	PLUG AS.		155-2269
1	WEDGE		155-2261
200mm	PAINTPRO		110-3202

AIR SHUTOFF SWITCH
CLR-GA	WIRE NAME	POS	TERMPLUG
PK-18	995-A51	1	180-9339
		2	87-8737
ACCESORY TABLE			
QTY	PART NAME		P/N
1	RECEPTACLE AS.		3E-3364
1	WEDGE		3E-3365
200mm	PAINTPRO		110-3202

AIR SHUTOFF SWITCH MATING CONNECTOR
CLR-GA	WIRE NAME	POS	TERMPLUG
		1	87-8737
		2	87-8737
ACCESORY TABLE			
QTY	PART NAME		P/N
1	PLUG AS.		155-2269
1	WEDGE		155-2261
200mm	PAINTPRO		110-3202

P2
CLR-GA	WIRE NAME	POS	TERMPLUG
WH-18	G829-A1	1	180-9340
BU-18	G829-A2	3	180-9340
		4	87-8737
		5	87-8737
		6	87-8737
		7	87-8737
BU-16	T855-A34	8	180-9340
BU-16 HEV	A739-M17	9	180-9340
BR-16 HEV	K737-A56	10	180-9340
BR-16 HEV	K739-A6	11	180-9340
		12	87-8737
GY-18	8747-A6	13	180-9340
		14	180-9340
		15	87-8737
		16	87-8737
		17	87-8737
PK-18	G833-A47	18	87-8737
		19	87-8737
BU-16 HEV	K983-A16	20	180-9340
DR-16 HEV	K985-A17	21	180-9340
		22	87-8737
		23	87-8737
GY-18	994-A10	24	180-9340
OR-16	T853-A4	25	180-9340
		26	87-8737
		27	87-8737
WH-16 HEV	T856-A55	28	180-9340
PK-16 HEV	T857-A2	29	180-9340
		30	87-8737
GY-18	T852-A32	31	180-9340
BU-18	995-A12	32	180-9340
YL-18	A751-A13	33	180-9340
		34	87-8737
BU-18	C967-A15	35	180-9340
GY-16 HEV	T858-A38	36	180-9340
WH-16 HEV	T859-A58	37	180-9340
GN-16 HEV	T860-A59	38	180-9340
WH-16 HEV	X987-A18	39	180-9340
PK-18	8748-A20	40	180-9340
BU-18	G829-A25	41	180-9340
BU-18	G827-A24	42	180-9340
		43	87-8737
PU-16 HEV	T857-A36	44	180-9340
BU-16 HEV	T860-A58	45	180-9340
BU-14 HEV	T860-A60	47	180-9340
WH-16	E966-A26	48	180-9340
BK-18	E963-A27	49	180-9340
		50	87-8737
		51	87-8737
		52	87-8737
YL-16	H807-A33	53	180-9340
GR-16 HEV	X989-A60	54	180-9340
PU-16 HEV	X989-A59	55	180-9340
		56	87-8737
		57	87-8737
YL-16	E966-A48	58	180-9340
BK-16	E965-A49	59	180-9340
		60	87-8737
		61	87-8737
		62	87-8737
		63	87-8737
		64	87-8737
YL-16 HEV	X986-A28	65	180-9340
BR-16 HEV	X984-A62	66	180-9340
GN-16 HEV	T862-A31	67	180-9340
DR-16 HEV	T861-A30	68	180-9340
		69	87-8737
		70	87-8737
ACCESORY TABLE			
QTY	PART NAME		P/N
1	PLUG AS.		180-7680
200mm	PAINTPRO		110-3202

P3
CLR-GA	WIRE NAME	POS	TERMPLUG
WH-18	G829-A1	1	180-9340
BU-18	G829-A2	3	180-9340
		4	87-8737
		5	87-8737
		6	87-8737
		7	87-8737
BU-16	T855-A34	8	180-9340
BU-16 HEV	A739-M17	9	180-9340
YL-16	T858-A5	10	180-9340
BR-16 HEV	A739-M16	11	180-9340
		12	87-8737
BU-16 HEV	A739-A9	13	180-9340
YL-16 HEV	T858-A30	14	180-9340
BR-16 HEV	T859-A31	15	180-9340
WH-16 HEV	T859-A51	16	180-9340
GN-16 HEV	T860-A50	17	180-9340
BR-16 HEV	K987-A18	18	180-9340
		19	87-8737
		20	87-8737
YL-16 HEV	K988-A28	21	180-9340
GR-16 HEV	X989-A29	22	180-9340
		23	87-8737
BU-16	G827-A24	24	180-9340
BU-16	G829-A25	25	180-9340
WH-16 HEV	X984-A52	26	180-9340
BR-16 HEV	X985-A53	27	180-9340
GR-16 HEV	T861-A51	28	180-9340
WH-16 HEV	T860-A53	29	180-9340
PK-16 HEV	X989-A54	30	180-9340
GN-16 HEV	T861-A52	31	180-9340
WH-16 HEV	T859-A11	32	180-9340
GR-16 HEV	T860-A53	33	180-9340
PU-16 HEV	X989-A54	34	180-9340
BR-16 HEV	X984-A52	35	180-9340
GN-16 HEV	T861-A51	36	180-9340
GN-16 HEV	T857-A7	37	180-9340
GR-16 HEV	X989-A54	38	180-9340
BR-16 HEV	X984-A52	39	180-9340
BU-16 HEV	A739-A19	40	180-9340
		41	87-8737
		42	87-8737
		43	87-8737
		44	87-8737
		45	87-8737
		46	87-8737
		47	87-8737
		48	87-8737
		49	87-8737
		50	87-8737
		51	87-8737
		52	87-8737
		53	87-8737
		54	87-8737
		55	87-8737
		56	87-8737
		57	87-8737
		58	87-8737
		59	87-8737
		60	87-8737
		61	87-8737
		62	87-8737
		63	87-8737
		64	87-8737
WH-18	E964-A25	65	180-9340
	E964-A26	66	180-9340
ACCESORY TABLE			
QTY	PART NAME		P/N
1	PLUG AS.		155-2269
1	WEDGE		155-2261
200mm	PAINTPRO		110-3202

P402
CLR-GA	WIRE NAME	POS	TERMPLUG
BU-18	E965-A48	1	180-9340
	E966-A49	2	180-9340
ACCESORY TABLE			
QTY	PART NAME		P/N
1	PLUG AS.		155-2269
1	WEDGE		155-2261
200mm	PAINTPRO		110-3202

P560
CLR-GA	WIRE NAME	POS	TERMPLUG
BU-18	T855-A34	1	180-9340
YL-18	H807-A31	2	180-9340
ACCESORY TABLE			
QTY	PART NAME		P/N
1	PLUG AS.		155-2269
1	WEDGE		155-2261
200mm	PAINTPRO		110-3202

P561
CLR-GA	WIRE NAME	POS	TERMPLUG
BR-16 HEV	K739-A12	1	180-9340
		2	87-8737
BU-16 HEV	A739-A9	3	180-9340
YL-16 HEV	T858-A30	4	180-9340
WH-16 HEV	T859-A51	5	180-9340
GN-16 HEV	T860-A50	6	180-9340
BR-16 HEV	K987-A18	7	180-9340
		8	87-8737
BU-16 HEV	A739-A19	9	180-9340
YL-16 HEV	T858-A30	10	180-9340
WH-16 HEV	T859-A51	11	180-9340
GN-16 HEV	T860-A50	12	180-9340
BR-16 HEV	K987-A18	13	180-9340
		14	87-8737
		15	87-8737
		16	87-8737
		17	87-8737
		18	87-8737

P564
CLR-GA	WIRE NAME	POS	TERMPLUG
BU-18	G827-A24	1	180-9340
BU-18	G829-A25	2	180-9340
WH-16 HEV	X984-A52	3	180-9340
BR-16 HEV	X985-A53	4	180-9340
GR-16 HEV	T861-A51	5	180-9340
WH-16 HEV	T860-A53	6	180-9340
PK-16 HEV	X989-A54	7	180-9340
GN-16 HEV	T861-A52	8	180-9340
WH-16 HEV	T859-A11	9	180-9340
GR-16 HEV	T860-A53	10	180-9340
PU-16 HEV	X989-A54	11	180-9340
BR-16 HEV	X984-A52	12	180-9340
GN-16 HEV	T861-A51	13	180-9340
BU-16 HEV	A739-A19	14	180-9340
		15	87-8737
		16	87-8737
		17	87-8737
		18	87-8737

P565
CLR-GA	WIRE NAME	POS	TERMPLUG
BU-18	G827-A24	1	180-9340
BU-18	G829-A25	2	180-9340
WH-16 HEV	X984-A52	3	180-9340
BR-16 HEV	X985-A53	4	180-9340
GR-16 HEV	T861-A51	5	180-9340
WH-16 HEV	T860-A53	6	180-9340
PK-16 HEV	X989-A54	7	180-9340
GN-16 HEV	T861-A52	8	180-9340
WH-16 HEV	T859-A11	9	180-9340
GR-16 HEV	T860-A53	10	180-9340
PU-16 HEV	X989-A54	11	180-9340
BR-16 HEV	X984-A52	12	180-9340
GN-16 HEV	T861-A51	13	180-9340
BU-16 HEV	A739-A19	14	180-9340
		15	87-8737
		16	87-8737
		17	87-8737
		18	87-8737

P566
CLR-GA	WIRE NAME	POS	TERMPLUG
BU-18	T855-A34	1	180-9340
YL-18	H807-A31	2	180-9340
ACCESORY TABLE			
QTY	PART NAME		P/N
1	PLUG AS.		155-2269
1	WEDGE		155-2261
200mm	PAINTPRO		110-3202

P567
CLR-GA	WIRE NAME	POS	TERMPLUG
BU-18	T855-A34	1	180-9340
YL-18	H807-A31	2	180-9340
ACCESORY TABLE			
QTY	PART

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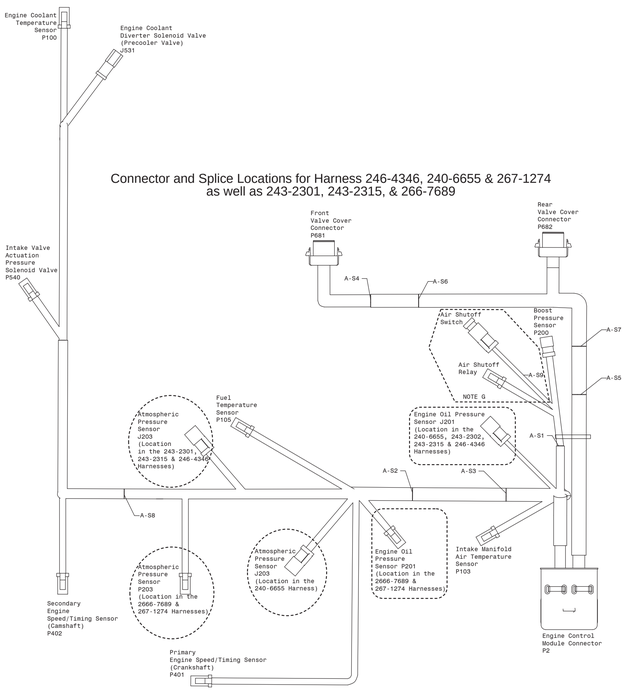
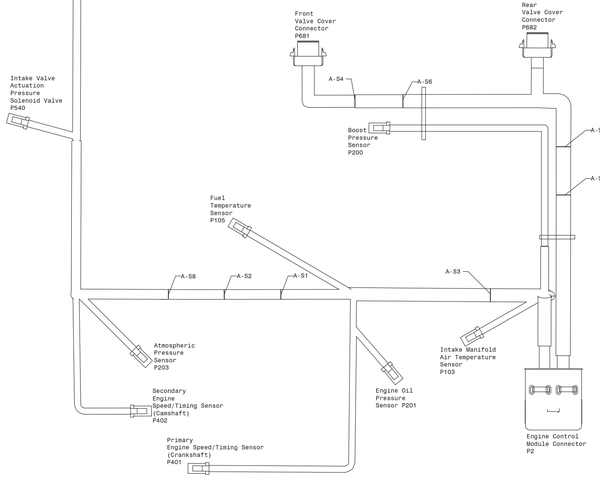
SENR9705-03

20 Page, (Dimensions: 39 inches x 24 inches)

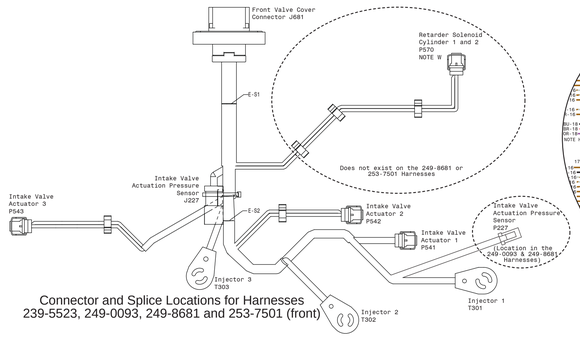
Connector and Splice Locations for Harness 246-4346, 240-6655 & 267-1274 as well as 243-2301, 243-2315, & 266-7689



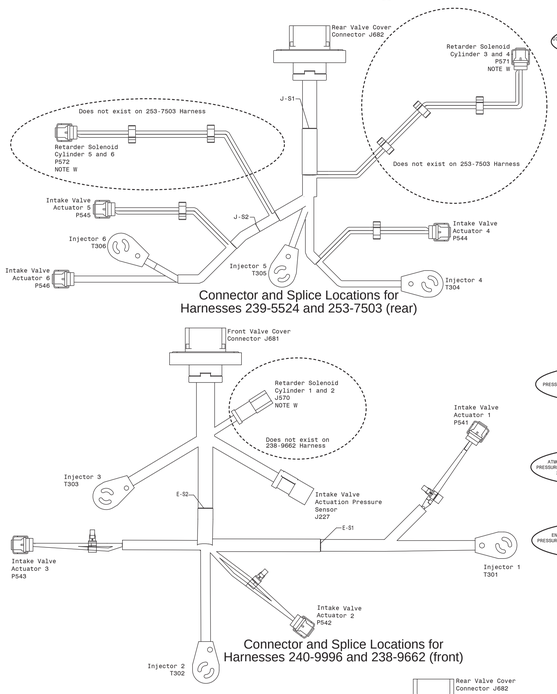
Connector and Splice Locations for Harness 234-9512 & 238-4778



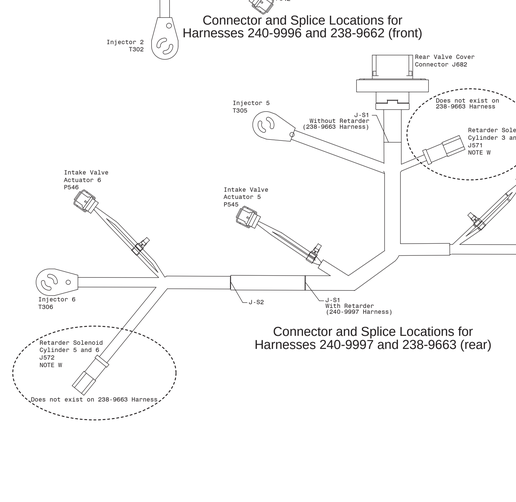
Connector and Splice Locations for Harnesses 239-5523, 249-0093, 249-8681 and 253-7501 (front)



Connector and Splice Locations for Harnesses 239-5524 and 253-7503 (rear)

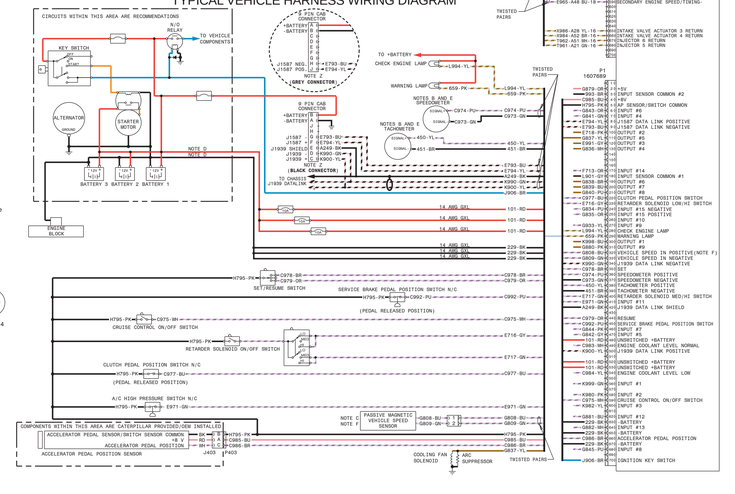


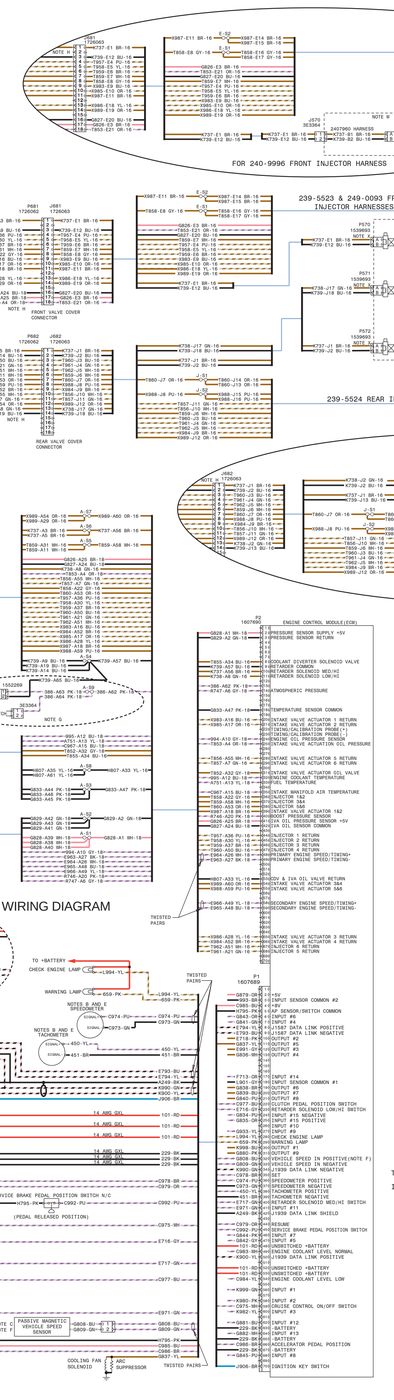
Connector and Splice Locations for Harnesses 240-9996 and 238-9662 (front)



Connector and Splice Locations for Harnesses 240-9997 and 238-9663 (rear)

TYPICAL VEHICLE HARNESS WIRING DIAGRAM





NOTE B: FOR SPEEDOMETERS OR TACHOMETERS WITH A SINGLE SIGNAL INPUT TERMINAL, EITHER ONE OF THE TWO SIGNAL OUTPUT LINES FROM THE ECM CAN BE USED. LEAVE THE REMAINING LINE DISCONNECTED, DO NOT CONNECT TO GROUND.
NOTE C: "SINGLE" WINDING MAGNETIC PICKUP SENSOR RECOMMENDED.
NOTE D: THESE CONNECTIONS ARE UNSHIELDED, DIRECT CONNECTION TO THE BATTERY IS NOT REQUIRED.
NOTE E: THE ECM SPEEDOMETER AND TACHOMETER OUTPUT SIGNAL LINE VOLTAGES ARE ZERO-CROSSING SQUARE WAVES. THE SPEEDOMETER SIGNALS AT J1-37 AND J1-36 ARE COMPLEMENTS OF EACH OTHER. THE TACHOMETER SIGNALS AT J1-38 AND J1-39 ARE COMPLEMENTS OF EACH OTHER. MAXIMUM SIGNAL AMPLITUDE OF J1-36, J1-37, J1-38, AND J1-39 IS +/- 10 VOLTS. AMPLITUDE WILL BE +/- 5 VOLTS OR GREATER IF LOAD CURRENT IS LESS THAN 4mA.
NOTE F: IF AN ELECTRONIC SIGNAL IS PROVIDED IN PLACE OF A PASSIVE MAGNETIC SENSOR, CONNECT THE ELECTRONIC SIGNAL INPUT TO THE +SIGNAL PIN. THE -SIGNAL PIN SHOULD NOT BE CONNECTED OR GROUNDED WITH ELECTRONIC SIGNAL INPUTS.
NOTE G: THESE WIRES AND CIRCUITS EXIST ON THE 243-2302, 243-2315 AND 246-4346 HARNESSES ONLY.
NOTE H: THE 234-9512 & 238-4778 HARNESSES ARE WIRED DIFFERENTLY. THE K738-A8 WIRE IS MOVED FROM PIN 13 OF CONNECTOR P082 TO PIN 2 OF CONNECTOR P681. THE K739-A19 WIRE IS MOVED FROM PIN 14 OF CONNECTOR P082 TO PIN 12 OF CONNECTOR P681.
NOTE W: OPTIONAL EQUIPMENT NOT INSTALLED ON ALL ENGINES.
NOTE X: USE KIT 156-7106 WHEN REPLACING CONNECTOR 153-9693. REFER TO REHS1809 FOR REPAIR AND INSTALLATION DETAILS.
NOTE Z: THE BLACK CAB CONNECTOR CONNECTS TO ADAPTER CABLE 157-4829. CABLE 157-4829 CONNECTS TO DATA LINK CABLE 207-6845 FOR THE COMMUNICATION ADAPTER II.
THE GREY CAB CONNECTOR CONNECTS TO SERVICE TOOL CABLE 139-4166. CABLE 139-4166 IS USED WITH THE COMMUNICATION ADAPTER I AND CONNECTS DIRECTLY TO THE COMMUNICATION ADAPTER.

THIS SCHEMATIC IS FOR THE C11 and C13 ON-HIGHWAY ENGINES (S/N: KCA, KCB, & JAM)

IDENT	HARNESS	CHG	EFFECTIVE WITH S/N
A	234-9512	03 (J2 / ENGINE)	?
A	238-4778	00 (J2 / ENGINE)	KCA00001, KCB00187
A	240-6655	00 (J2 / ENGINE)	KCA00159, KCB00508
A	246-4346	03 (J2 / ENGINE)	KCA00504, KCB01676
A	267-1274	04 (J2 / ENGINE)	KCA06123, KCB39999, JAM00001
A	243-2302	01 (J2 / ENGINE WITH AIR SHUTOFF)	?
A	243-2315	01 (J2 / ENGINE WITH AIR SHUTOFF)	?
A	266-7689	00 (J2 / ENGINE WITH AIR SHUTOFF)	KCA06123, KCB39999, JAM00001
J	239-5524	01 (REAR - IVA/INJECTOR WITH RETARDER)	?
J	240-9997	03 (REAR - IVA/INJECTOR WITH RETARDER)	KCA00159, KCB00508
J	253-7503	00 (REAR - IVA/INJECTOR WITHOUT RETARDER)	?
J	238-9663	03 (REAR - IVA/INJECTOR WITHOUT RETARDER)	?
E	239-5523	01 (FRONT- IVA/INJECTOR WITH RETARDER)	?
E	240-9996	02 (FRONT- IVA/INJECTOR WITH RETARDER)	KCA00159, KCB00508
E	249-0093	04 (FRONT- IVA/INJECTOR WITH RETARDER)	KCA06123, KCB39999, JAM00001
E	253-7501	01 (FRONT- IVA/INJECTOR WITHOUT RETARDER)	?
E	238-9662	02 (FRONT- IVA/INJECTOR WITHOUT RETARDER)	?
E	249-8681	00 (FRONT- IVA/INJECTOR WITHOUT RETARDER)	KCA01623, KCB39999, JAM00001

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