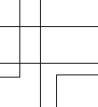
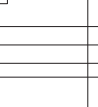
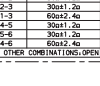
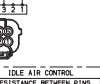
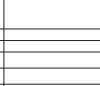
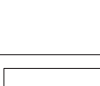
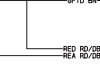
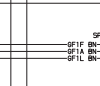
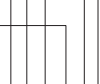
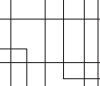
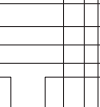
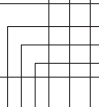
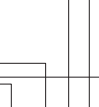
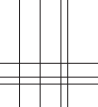
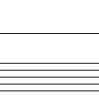
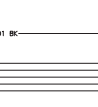
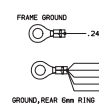
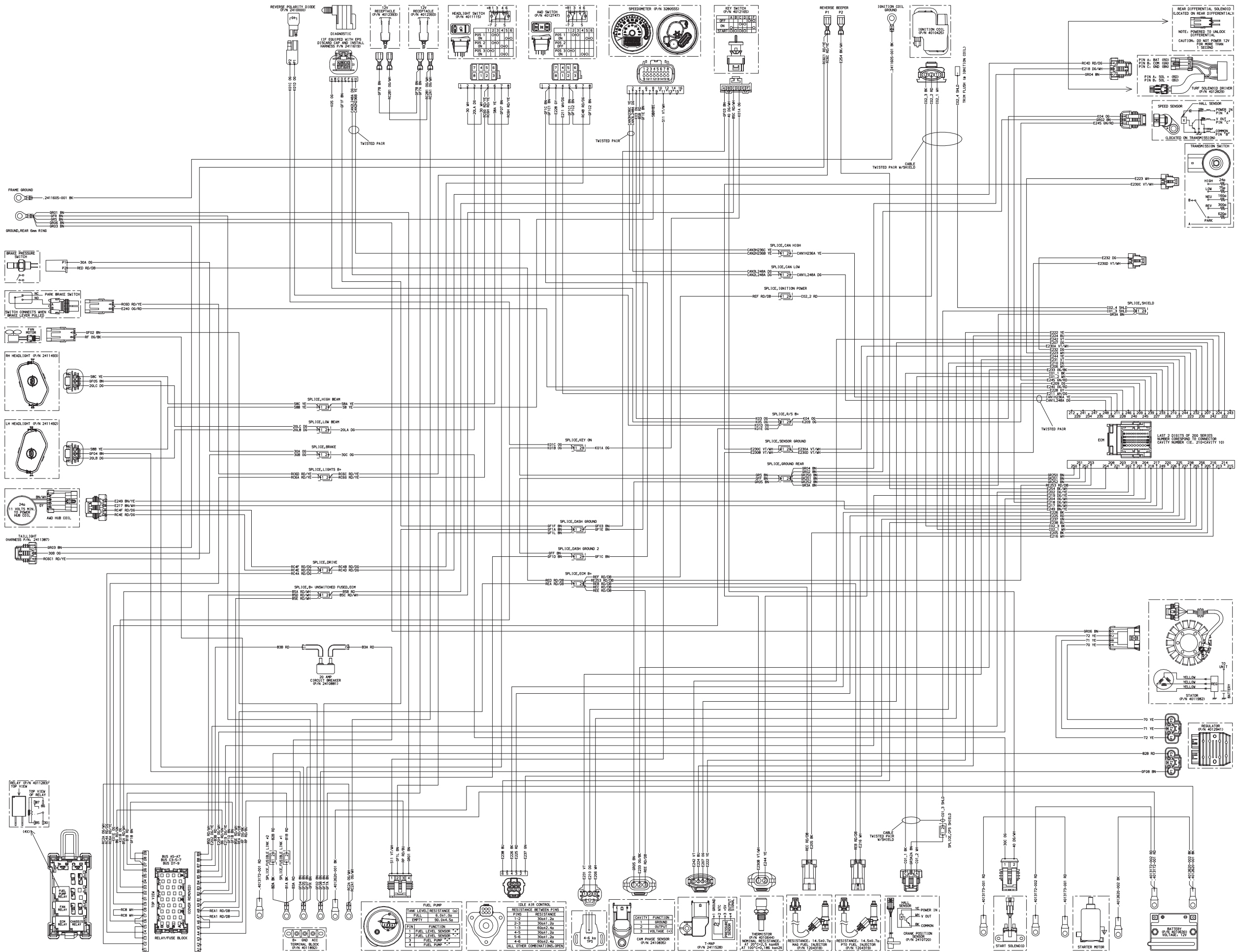


FILE NAME: 2411761.RD
SHEET NO. 1 OF 2

WIRE COLOR LEGEND	ENGINE GROUND
BR = BROWN	CHASSIS GROUND
BL = BLUE	NC = SWITCH NORMALLY CLOSED
BU = BLUE/BLACK	NO = SWITCH NORMALLY OPEN
BY = BLUE/YELLOW	
GR = GREEN	
GN = GREEN/BLACK	
GE = GREEN/RED	
OR = ORANGE	
PK = PINK	
RD = RED	
RE = RED/BLACK	
RY = RED/YELLOW	
SL = SILVER	
TR = TRACER	
VT = VIOLET	
WH = WHITE	
YL = YELLOW	
YB = YELLOW/BLACK	

NO WIRE COLORS ARE SHOWN WITH PLAIN TRACE COLORS. COMPLETE WIRE IS RED WITH YELLOW TRACE.



FILE NO. 241176-03
 WIRE COLOR LEGEND
 BK = BLACK
 BR = BROWN
 BU = BLUE
 GN = GREEN
 GR = GREY
 LG = LIGHT GREEN
 LGN = LIGHT GREEN
 RD = RED
 WH = WHITE
 YE = YELLOW
 * ENGINE GROUND
 CHASSIS GROUND
 NC = SWITCH NORMALLY CLOSED
 NO = SWITCH NORMALLY OPEN
 HARNESS: 241176-03
 SHEET NO. 2 OF 2

CCT #	TYPE	GAUGE	COLOR	FROM COMPONENT	FROM PORT	TO COMPONENT	TO PORT	FUNCTION	INDEX
.2411605-001	TXL	0.8	BK	IGNITION COIL GROUND	1	FRAME GROUND	1	IGNITION COIL GROUND TO FRAME GROUND	2
.4012620-001	SGT	13.0	BK	BATTERY (-)	1	TERMINAL BLOCK (GROUND)	1	BATTERY (-) TO TERMINAL BLOCK (GROUND)	2
.4012620-002	SGT	13.0	BK	BATTERY (-)	1	STARTER (GROUND)	1	BATTERY (-) TO STARTER (GROUND)	3
.4013172-001	SGT	13.0	RD	BATTERY (+)	1	TERMINAL BLOCK (B+)	1	BATTERY (+) TO TERMINAL BLOCK (B+)	4
.4013172-002	SGT	13.0	RD	BATTERY (+)	1	START SOLENOID	1	BATTERY (+) TO START SOLENOID	5
.4013173-001	SGT	13.0	RD	START SOLENOID	1	STARTER	1	START SOLENOID TO STARTER	6
20LA	TXL	0.8	DG	HEADLIGHT SWITCH	3	SPLICE, LOW BEAM	2	HEADLIGHT SWITCH LOW BEAM OUT	7
20LB	TXL	0.8	DG	LH HEADLIGHT	1	SPLICE, LOW BEAM	1	LH HEADLIGHT LOW BEAM	8
20LC	TXL	0.8	DG	RH HEADLIGHT	A	SPLICE, LOW BEAM	1	RH HEADLIGHT LOW BEAM	9
30	TXL	0.8	WH	HEADLIGHT SWITCH	2	HEADLIGHT SWITCH	4	HEADLIGHT SWITCH JUMPER	10
30A	TXL	0.8	OG	BRAKE SWITCH	P1	SPLICE, BRAKE	1	BRAKE SIGNAL	11
30B	TXL	0.8	OG	TAILLIGHT	B	SPLICE, BRAKE	1	BRAKE SIGNAL	12
30C	TXL	0.8	OG	START SOLENOID	1	SPLICE, BRAKE	2	BRAKE SIGNAL	13
40	TXL	0.8	DG/WH	KEY SWITCH	B	START SOLENOID	2	START SOLENOID CONTROL GROUND	14
70	TXL	2.0	YE	STATOR	A	VREG AC INPUT	P3	STATOR AC	15
71	TXL	2.0	YE	STATOR	B	VREG AC INPUT	P2	STATOR AC	16
72	TXL	2.0	YE	STATOR	C	VREG AC INPUT	P1	STATOR AC	17
B1A	FUSIBLE LINK	1.0	BK	TERMINAL BLOCK 3 (B+)	1	SPLICE, FUSIBLE LINK #1	1	FUSE LINK CHASSIS B+	18
B1B	TXL	3.0	RD	RELAY/FUSE BLOCK	D7	SPLICE, FUSIBLE LINK #1	2	UNSWITCHED, B+ BUS D97	19
B2A	FUSIBLE LINK	1.0	BK	TERMINAL BLOCK 3 (B+)	1	SPLICE, FUSIBLE LINK #2	1	FUSE LINK VREG OUTPUT B+	20
B2B	TXL	3.0	RD	VREG DC OUTPUT	P3	SPLICE, FUSIBLE LINK #2	2	VOLTAGE REGULATOR OUTPUT B+	21
B3A	TXL	1.0	RD	TERMINAL BLOCK 3 (B+)	1	CIRCUIT BREAKER	2	UNSWITCHED B+	22
B3B	TXL	1.0	RD	RELAY/FUSE BLOCK	B7	CIRCUIT BREAKER	1	UNSWITCHED FUSED, B+ FAN RELAY IN	23
B5A	TXL	0.8	RD/WH	RELAY/FUSE BLOCK	D6	SPLICE, B+ UNSWITCHED FUSED, ECM	1	UNSWITCHED FUSED, B+ ECM FUSE OUT	24
B5B	TXL	0.5	RD	SPEEDOMETER	A	SPLICE, B+ UNSWITCHED FUSED, ECM	2	UNSWITCHED FUSED, B+	25
B5C	TXL	0.8	RD/WH	KEY SWITCH	C	SPLICE, B+ UNSWITCHED FUSED, ECM	2	UNSWITCHED FUSED, B+	26
B5D	TXL	0.8	RD/WH	RELAY/FUSE BLOCK	B9	SPLICE, B+ UNSWITCHED FUSED, ECM	1	UNSWITCHED FUSED, B+, ECM RELAY IN	27
B5E	TXL	0.5	RD/WH	RELAY/FUSE BLOCK	A9	SPLICE, B+ UNSWITCHED FUSED, ECM	1	UNSWITCHED FUSED, B+, ECM RELAY IN	28
B6	TXL	1.0	RD/WH	RELAY/FUSE BLOCK	B5	RELAY/FUSE BLOCK	D2	FUEL PUMP FUSE OUT TO FUEL PUMP RELAY B+ IN	29
BUSA75	BUS	BUS	BUS	RELAY/FUSE BLOCK	A5	RELAY/FUSE BLOCK	A7	ECM, B+ ECM RELAY OUT, BUS A75	30
BUSC53	BUS	BUS	BUS	RELAY/FUSE BLOCK	C3	RELAY/FUSE BLOCK	C5	SWITCHED B+	31
BUSC75	BUS	BUS	BUS	RELAY/FUSE BLOCK	C5	RELAY/FUSE BLOCK	C7	SWITCHED B+	32
BUSD97	BUS	BUS	BUS	RELAY/FUSE BLOCK	D7	RELAY/FUSE BLOCK	D9	UNSWITCHED B+	33
C01	TXL	0.8	BK	ECM	227	CRANK POSITION SENSOR	C	CRANK POSITION SENSOR NEGATIVE	34
C01_2	TXL	0.8	WH	ECM	239	CRANK POSITION SENSOR	A	CRANK POSITION SENSOR POSITIVE	35
C01_3	SHLD	0.8	SHLD	SPLICE, CPS SHIELD	2	SPLICE, SHIELD	1	SHIELD, CPS (C01)	36
C02_1	TXL	0.8	BK	IGNITION COIL	256	IGNITION COIL	1	IGNITION CONTROL	37
C02_2	TXL	0.8	RD	IGNITION COIL	2	SPLICE, IGNITION POWER	2	ECM, B+	38
C02_3	TXL	0.8	BK	ECM	255	IGNITION COIL	3	MAG IGNITION CONTROL	39
C02_4	SHLD	0.8	SHLD	TRIM FLUSH (IGNITION COIL)	-	SPLICE, SHIELD	1	SHIELD, IGNITION COIL (C02)	40
CAN1H236A	TXL	0.5TP	YE	ECM	236	SPLICE, CAN HIGH	2	CAN HIGH	41
CAN1L248A	TXL	0.5TP	DG	ECM	248	SPLICE, CAN LOW	2	CAN LOW	42
CAN2H236B	TXL	0.5TP	YE	DIAGNOSTIC	H	SPLICE, CAN HIGH	1	CAN HIGH	43
CAN2L248A	TXL	0.5TP	DG	DIAGNOSTIC	G	SPLICE, CAN LOW	1	CAN LOW	44
CAN3H236C	TXL	0.5TP	DG	SPEEDOMETER	1	SPLICE, CAN HIGH	1	CAN HIGH	45
CAN3L248A	TXL	0.5TP	DG	SPEEDOMETER	2	SPLICE, CAN LOW	1	CAN LOW	46
E202	TXL	0.5	DG/YE	ECM	202	RELAY/FUSE BLOCK	B8	ECM RELAY COIL CONTROL	47
E204	TXL	0.5	DG/WH	ECM	204	RELAY/FUSE BLOCK	B6	FAN RELAY COIL CONTROL	48
E205	TXL	0.5	BK	ECM	205	MAG FUEL INJECTOR	A	MAG FUEL INJECTOR	49
E206	TFE	0.5	WH	ECM	206	TPS	3	3.3V SENSOR SUPPLY V2 (TPS)	50
E207	TFE	0.5	OG	ECM	207	T-MAP SENSOR	3	A/D +5V SOURCE	51
E210	TFE	0.5	DG	ECM	210	TPS	2	TPS SIGNAL	52
E211	TXL	0.5	WH/DG	ECM	211	AWD/TURF SWITCH	4	TURF REQUEST	53
E216	TXL	0.5	WH	ECM	216	PTO FUEL INJECTOR	A	PTO FUEL INJECTOR	54
E217	TXL	0.5	BN/WH	ECM	217	AWD	B	AWD CONTROL	55
E218	TXL	0.5	DG/WH	ECM	218	TURF RELAY	B	TURF CONTROL	56
E219	TXL	0.5	DG/YE	ECM	219	RELAY/FUSE BLOCK	B4	FUEL PUMP RELAY COIL CONTROL	57
E222	TFE	0.5	WH	ECM	222	T-MAP SENSOR	4	MANIFOLD PRESSURE SIGNAL	58
E223	TXL	0.5	WH	ECM	223	TRANSMISSION SWITCH	B	TRANSMISSION SWITCH SIGNAL OUTPUT	59
E224	TFE	0.5	BU	ECM	224	T-MAP SENSOR	2	AIR TEMP SENSOR SIGNAL	60
E225	TFE	0.5	RD	ECM	225	IDLE AIR CONTROL	3	IAC PIN 3	61
E226	TFE	0.5	BK	ECM	226	IDLE AIR CONTROL	4	IAC PIN 4	62
E228	TXL	0.5	GY	ECM	228	AWD/TURF SWITCH	3	AWD REQUEST	63
E230A	TXL	0.5	VT/WH	ECM	230	SPLICE, SENSOR GROUND	2	SENSOR GROUND	64
E230B	TXL	0.5	VT/WH	COOLANT TEMP SENSOR	1	SPLICE, SENSOR GROUND	1	SENSOR GROUND	65
E230C	TXL	0.5	VT/WH	TRANSMISSION SWITCH	A	SPLICE, SENSOR GROUND	2	SENSOR GROUND	66
E230D	TXL	0.5	VT/WH	TRANSMISSION SWITCH	A	SPLICE, SENSOR GROUND	2	SENSOR GROUND	67
E231	TFE	0.5	VT	ECM	231	TPS	1	TPS GROUND	68
E232	TXL	0.5	DG	ECM	232	CAM PHASE SENSOR	B	CAM POSITION SIGNAL	69
E233	TXL	0.5	OG/BK	ECM	233	IDLE AIR CONTROL	2	IAC PIN 1	70
E237	TFE	0.5	BU	ECM	237	IDLE AIR CONTROL	1	IAC PIN 1	71
E238	TFE	0.5	BU	ECM	238	IDLE AIR CONTROL	6	IAC PIN 6	72
E240	TXL	0.5	OG/RD	ECM	240	PARK BRAKE SWITCH	B	TBD	73
E242	TFE	0.5	VT	ECM	242	T-MAP SENSOR	2	MANIFOLD PRESSURE GROUND	74
E244	TXL	0.5	YE	ECM	244	COOLANT TEMP SENSOR	C	COOLANT TEMP SIGNAL	75
E245	TXL	0.5	GN/RD	ECM	245	VEHICLE SPEED SENSOR	C	VEHICLE SPEED SIGNAL	76
E249	TXL	0.5	BN/YE	ECM	249	AWD	A	ADC CONTROL	77
E254	TXL	0.8	BK/WH	ECM	254	REVERSE BEEPER P2	1	REVERSE BEEPER DRIVER	78
GF02	TXL	1.0	BN	AN	A	TERMINAL BLOCK 2 (GROUND #2)	1	GROUND, FAN	79
GF03	TXL	0.8	BN	KEY SWITCH	A	SPLICE, DASH GROUND	2	GROUND, KEY SWITCH	80
GF04	TXL	0.8	BN	LH HEADLIGHT	B	TERMINAL BLOCK 2 (GROUND #1)	1	GROUND, HEADLIGHT	81
GF05	TXL	0.8	BN	RH HEADLIGHT	B	TERMINAL BLOCK 2 (GROUND #1)	1	GROUND, HEADLIGHT	82
GF07	TXL	0.5	BN	HEADLIGHT SWITCH	7	TERMINAL BLOCK 2 (GROUND #1)	1	HEADLIGHT SWITCH MARKER GROUND	83
GF08	TXL	3.0	BN	VREG DC OUTPUT	P1	TERMINAL BLOCK 2 (GROUND #2)	1	REGULATOR GROUND	84
GF1A	TXL	1.0	BN	TERMINAL BLOCK 2 (GROUND #2)	1	SPLICE, DASH GROUND	1	GROUND, FRONT SPLICE	85
GF1B	TXL	0.5	BN	RELAY/FUSE BLOCK	B2	RELAY/FUSE BLOCK	D8	CHASSIS RELAY COIL GROUND	86
GF1C	TXL	0.5	BN	AWD/TURF SWITCH	2	SPLICE, DASH GROUND 2	2	GROUND	87
GF1C1	TXL	0.5	BN	AWD/TURF SWITCH	2	AWD/TURF SWITCH	5	GROUND	88
GF1C2	TXL	0.5	BN	AWD/TURF SWITCH	5	AWD/TURF SWITCH	8	GROUND, AWD, TURF, SIGNAL	89
GF1D	TXL	0.5	BN	RELAY/FUSE BLOCK	B2	SPLICE, DASH GROUND 2	1	GROUND, EPS RELAY COIL	90
GF1E	TXL	0.5	BN	SPEEDOMETER	5	SPLICE, DASH GROUND	1	GROUND, SPEEDOMETER	91
GF1F	TXL	0.5	BN	DIAGNOSTIC	D	SPLICE, DASH GROUND	1	GROUND, DIAGNOSTIC	92
GF1L	TXL	0.5	BN	FUEL PUMP/LEVEL	2	SPLICE, DASH GROUND	1	FUEL LEVEL, GROUND	93
GF7A	TXL	1.0	BN	TERMINAL BLOCK 2 (GROUND #2)	1	12V (-) RECEPTACLE A2	1	GROUND	94
GF7B	TXL	1.0	BN	12V (-) RECEPTACLE A2	1	12V (-) RECEPTACLE B2	1	GROUND	95
GFR	TXL	1.0	BN	SPLICE, GROUND REAR	1	SPLICE, DASH GROUND 2	1	GROUND	96
GFR	TXL	3.0	BN	TERMINAL BLOCK 2 (GROUND #1)	1	GROUND, REAR 6mm RING	1	GROUND, FRONT REAR CONNECTION	97
GR01	TXL	1.0	BN	FUEL PUMP/LEVEL	4	GROUND, REAR 6mm RING	1	PUMP GROUND	98
GR02	TXL	0.8	BN	VEHICLE SPEED SENSOR	B	SPLICE, GROUND REAR	2	GROUND, VEHICLE SPEED SENSOR	99
GR03	TXL	0.8	BN	TAILLIGHT	C	GROUND, REAR 6mm RING	1	GROUND	100
GR04	TXL	0.8	BN	TURF RELAY	C	SPLICE, GROUND REAR	2	GROUND, TURF RELAY	101
GR05	TXL	0.5	BN	CAM PHASE SENSOR	1	SPLICE, GROUND REAR	1	GROUND	102
GR06	TXL	2.0	BN	STATOR	D	GROUND, REAR 6mm RING	1	GROUND, STATOR	103
GR250	TXL	0.8	BN	ECM	250	SPLICE, GROUND REAR	2	GROUND, ECM BATTERY	104
GR251	TXL	0.8	BN	ECM	251	SPLICE, GROUND REAR	2	GROUND, ECM BATTERY	105
GR252	TXL	0.8	BN	ECM	252	SPLICE, GROUND REAR	2	GROUND, ECM BATTERY	106
GR3A	TXL	0.5	BN	SPLICE, GROUND REAR	2	SPLICE, SHIELD	1	GROUND	107
GR3A2A	TXL	0.5	BN	CRANK POSITION SENSOR	B	SPLICE, CPS SHIELD	1	SHIELD, CPS	108
GR5	TXL	1.0	BN	GROUND, REAR 6mm RING	1	SPLICE, GROUND REAR	1	GROUND	109
K01A	TXL	1.0	OG	KEY SWITCH	D	SPLICE, KEY ON	2	KEY SWITCH OUT B+	110
K01B	TXL	0.8	OG	RELAY/FUSE BLOCK	D3	SPLICE, KEY ON	1	KEY SWITCH OUT B+, FUEL PUMP FUSE IN	111
K01C	TXL	0.8	OG	REVERSE POLARITY DIODE	P2	SPLICE, KEY ON	1	KEY SWITCH OUT B+	112
K01D	TXL	0.8	OG	REVERSE POLARITY DIODE	P1	SPLICE, R/S B+	1	KEY SWITCH OUT B+	113
K01E	TXL	0.5	OG	RELAY/FUSE BLOCK	C9	SPLICE, R/S B+	1	KEY SWITCH, B+ CHASSIS RELAY COIL POWER	114
K03	TXL	0.5	OG	SPEEDOMETER	3	SPLICE, R/S B+	1	KEY SWITCH OUT, B+	115
K04	TXL	0.5	OG	VEHICLE SPEED SENSOR	A	SPLICE, R/S B+	2	KEY SWITCH OUT, B+	116
K05	TXL	0.5	OG	DIAGNOSTIC	A	SPLICE, R/S B+	1	KEY SWITCH OUT, B+	117
K209	TXL	0.5	OG	ECM	209	SPLICE, R/S B+	2	KEY SWITCH OUT, B+	118
RC2A	TXL	1.0	OG/WH	RELAY/FUSE BLOCK	C2	TERMINAL BLOCK 1 (ACC)	1	ACCESSORIES, B+ ACC FUSE OUT	119
RC2A1	TXL	1.0	OG/WH	TERMINAL BLOCK 1 (ACC)	1	12V (+) RECEPTACLE A1	1	FUSE ACCESSORIES, B+ (3/16)	120
RC2B1	TXL	1.0	OG/WH	12V (+) RECEPTACLE A1	1	12V (+) RECEPTACLE B1	1	FUSE ACCESSORIES, B+ (3/16)	121
RC4A	TXL	0.8	RD/DS	RELAY/FUSE BLOCK	C4	SPLICE, DRIVE	1	SWITCHED, B+ DRIVE FUSE OUT	122
RC4B	TXL	0.5	RD/DS	AWD/TURF SWITCH	7	SPLICE, DRIVE	2	SWITCHED, B+	123
RC4D	TXL	0.5	RD/DS	TURF RELAY	A	SPLICE, DRIVE	1	SWITCHED, B+, TURF	

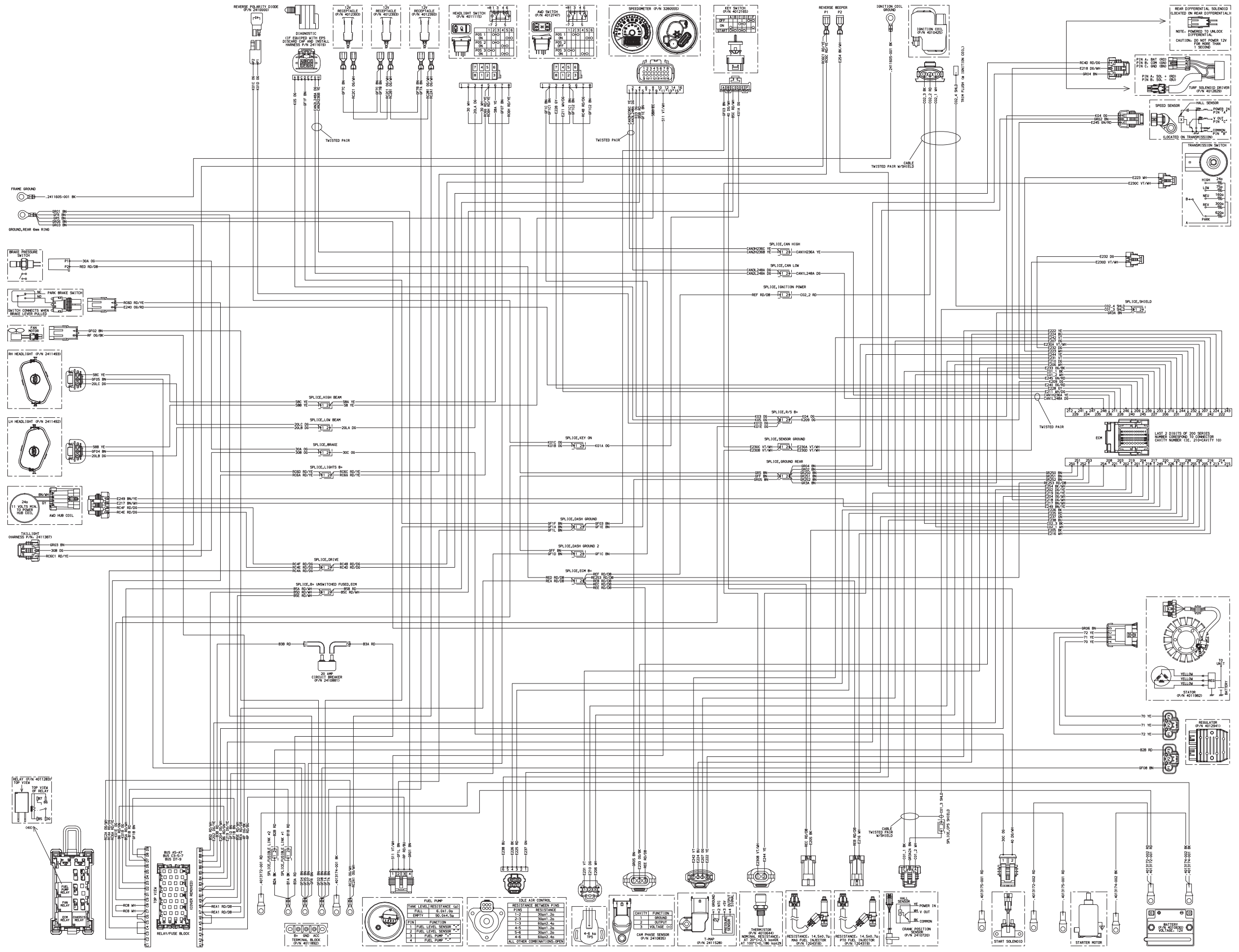
FILE NAME: 2411763.RD

BR	BROWN
BL	BLACK
BU	BLUE
GN	GREEN
GE	GREEN/BLACK
GR	GRAY
OR	ORANGE
PK	PINK
RD	RED
RD/WH	RED/WHITE
RY	RED/YELLOW
SL	SILVER
TR	TRACED
VT	VIOLET
WH	WHITE
YL	YELLOW

△ = ENGINE GROUND
 ▽ = CHASSIS GROUND
 NC = SWITCH NORMALLY CLOSED
 NO = SWITCH NORMALLY OPEN

HARNESSES: 2411763-03
 SHEET NO. 1 OF 2

NO WIRE COLORS ARE SHOWN WITH THIS WIRE COLOR CODE. WIRE COLOR CODES ARE SHOWN WITH YELLOW TRACE. RED WITH YELLOW TRACE.



FILE NAME: 2411763-03

ENGINE GROUND

CHASSIS GROUND

NC = SWITCH NORMALLY CLOSED

NO = SWITCH NORMALLY OPEN

HARNESSES: 2411763-03

SHEET NO. 2 OF 2

NO WIRE COLORS ARE SHOWN WITH THIS WIRE COLOR. RED WITH YELLOW TRACE.

CCT #	TYPE	GAUGE	COLOR	SCHEMATIC CABLE/WIRE TERMINATION TABLE		TO PORT	FUNCTION	INDEX
				FROM COMPONENT	FROM PORT			
.2411605-001	TXL	0.8	BK	IGNITION COIL GROUND	1	FRAME GROUND	1	IGNITION COIL GROUND TO FRAME GROUND
.4013172-001	SGT	13.0	RD	BATTERY (+)	1	TERMINAL BLOCK (B+)	1	BATTERY (+) TO TERMINAL BLOCK (B+)
.4013172-002	SGT	13.0	RD	BATTERY (+)	1	START SOLENOID	1	BATTERY (+) TO START SOLENOID
.4013174-001	SGT	13.0	BK	BATTERY (-)	1	TERMINAL BLOCK (GROUND)	1	BATTERY (-) TO TERMINAL BLOCK (GROUND)
.4013174-002	SGT	13.0	BK	BATTERY (-)	1	STARTER (GROUND)	1	BATTERY (-) TO STARTER (GROUND)
.4013175-001	SGT	13.0	RD	START SOLENOID	1	STARTER	1	START SOLENOID TO STARTER
20LA	TXL	0.8	DG	HEADLIGHT SWITCH	3	SPLICE, LOW BEAM	2	HEADLIGHT SWITCH LOW BEAM OUT
20LB	TXL	0.8	DG	HEADLIGHT SWITCH	3	SPLICE, LOW BEAM	2	LH HEADLIGHT LOW BEAM
20LC	TXL	0.8	DG	RH HEADLIGHT	A	SPLICE, LOW BEAM	1	RH HEADLIGHT LOW BEAM
30	TXL	0.8	WH	HEADLIGHT SWITCH	2	HEADLIGHT SWITCH	4	HEADLIGHT SWITCH JUMPER
30A	TXL	0.8	OG	BRAKE SWITCH	B	SPLICE, BRAKE	1	BRAKE SIGNAL
30B	TXL	0.8	OG	TAILLIGHT	B	SPLICE, BRAKE	1	BRAKE SIGNAL
30C	TXL	0.8	OG	START SOLENOID	1	SPLICE, BRAKE	2	BRAKE SIGNAL
40	TXL	0.8	DG/WH	KEY SWITCH	B	START SOLENOID	2	START SOLENOID CONTROL GROUND
70	TXL	2.0	VE	STATOR	A	VREG AC INPUT	P2	STATOR AC
71	TXL	2.0	VE	STATOR	B	VREG AC INPUT	P2	STATOR AC
72	TXL	2.0	VE	STATOR	C	VREG AC INPUT	P1	STATOR AC
B1A	FUSIBLE LINK	1.0	BK	TERMINAL BLOCK 3 (B+)	1	SPLICE, FUSIBLE LINK #1	1	FUSELINK CHASSIS B+
B1B	TXL	3.0	RD	RELAY/FUSE BLOCK	D7	SPLICE, FUSIBLE LINK #1	2	UNSWITCHED, B+ BUS D97
B2A	FUSIBLE LINK	1.0	BK	TERMINAL BLOCK 3 (B+)	1	SPLICE, FUSIBLE LINK #2	1	FUSELINK VREG OUTPUT B+
B2B	TXL	3.0	RD	VREG DC OUTPUT	P3	SPLICE, FUSIBLE LINK #2	2	VOLTAGE REGULATOR OUTPUT B+
B3A	TXL	1.0	RD	TERMINAL BLOCK 3 (B+)	1	CIRCUIT BREAKER	2	UNSWITCHED B+
B3B	TXL	1.0	RD	RELAY/FUSE BLOCK	B7	CIRCUIT BREAKER	1	UNSWITCHED FUSED, B+ FAN RELAY IN
B3A	TXL	0.8	RD/WH	RELAY/FUSE BLOCK	D6	SPLICE, B+ UNSWITCHED FUSED, ECM	2	UNSWITCHED FUSED, B+ ECM FUSE OUT
B5B	TXL	0.5	RD	SPEEDOMETER	4	SPLICE, B+ UNSWITCHED FUSED, ECM	2	UNSWITCHED FUSED B+
B5C	TXL	0.8	RD/WH	KEY SWITCH	C	SPLICE, B+ UNSWITCHED FUSED, ECM	2	UNSWITCHED FUSED B+
B5D	TXL	0.8	RD/WH	RELAY/FUSE BLOCK	B9	SPLICE, B+ UNSWITCHED FUSED, ECM	1	UNSWITCHED FUSED B+ ECM RELAY IN
B5E	TXL	0.5	RD/WH	RELAY/FUSE BLOCK	A3	SPLICE, B+ UNSWITCHED FUSED, ECM	1	UNSWITCHED FUSED B+ ECM RELAY COIL
B6	TXL	1.0	RD/BN	RELAY/FUSE BLOCK	B5	RELAY/FUSE BLOCK	D2	FUEL PUMP FUSE OUT TO FUEL PUMP RELAY B+ IN
BUSA75	BUS	BUS	BUS	RELAY/FUSE BLOCK	A5	RELAY/FUSE BLOCK	A7	ECM, B+ ECM RELAY OUT, BUS A75
BUS553	BUS	BUS	BUS	RELAY/FUSE BLOCK	C3	RELAY/FUSE BLOCK	C5	SWITCHED B+
BUS575	BUS	BUS	BUS	RELAY/FUSE BLOCK	C5	RELAY/FUSE BLOCK	C7	SWITCHED B+
BUS597	BUS	BUS	BUS	RELAY/FUSE BLOCK	D7	RELAY/FUSE BLOCK	D9	UNSWITCHED B+
C01_1	TXL	0.8	BK	ECM	227	CRANK POSITION SENSOR	C	CRANK POSITION SENSOR NEGATIVE
C01_2	TXL	0.8	WH	ECM	239	CRANK POSITION SENSOR	A	CRANK POSITION SENSOR POSITIVE
C01_3	SHLD	0.8	SHLD	SPLICE, CPS SHIELD	2	SPLICE, SHIELD	1	SHIELD, CPS (CO1)
C02_1	TXL	0.8	WH	ECM	256	IGNITION COIL	1	PTO IGNITION CONTROL
C02_2	TXL	0.8	RD	IGNITION COIL	2	SPLICE, IGNITION POWER	2	ECM B+
C02_3	TXL	0.8	BK	ECM	255	IGNITION COIL	3	MAG IGNITION CONTROL
C02_4	SHLD	0.8	SHLD	TRIM FLUSH (a IGNITION COIL)	1	SPLICE, SHIELD	1	SHIELD, IGNITION COIL (C02)
CAN1H236A	TXL	0.5TP	VE	ECM	236	SPLICE, CAN HIGH	2	CAN HIGH
CAN1L248A	TXL	0.5TP	DG	ECM	248	SPLICE, CAN LOW	2	CAN LOW
CAN2H246B	TXL	0.5TP	YE	DIAGNOSTIC	H	SPLICE, CAN HIGH	1	CAN HIGH
CAN2L248A	TXL	0.5TP	DG	DIAGNOSTIC	G	SPLICE, CAN LOW	1	CAN LOW
CAN3H236C	TXL	0.5TP	VE	SPEEDOMETER	1	SPLICE, CAN HIGH	1	CAN HIGH
CAN3L248A	TXL	0.5TP	DG	SPEEDOMETER	2	SPLICE, CAN LOW	1	CAN LOW
E202	TXL	0.5	DG/VE	ECM	202	RELAY/FUSE BLOCK	BB	ECM RELAY COIL CONTROL
E204	TXL	0.5	OG/WH	ECM	204	RELAY/FUSE BLOCK	BB	FAN RELAY COIL CONTROL
E205	TXL	0.5	BK	ECM	205	MAG FUEL INJECTOR	A	MAG FUEL INJECTOR
E206	TFE	0.5	WH	ECM	206	TPS	3	3.3V SENSOR SUPPLY V2 (TPS)
E207	TFE	0.5	OG	ECM	207	T-MAP SENSOR	3	A/D +5V SOURCE
E210	TFE	0.5	DG	ECM	210	TPS	2	TPS SIGNAL
E211	TXL	0.5	WH/DG	ECM	211	AWD/TURF SWITCH	4	TURF REQUEST
E216	TXL	0.5	WH	ECM	216	PTO FUEL INJECTOR	A	PTO FUEL INJECTOR
E217	TXL	0.5	BN/WH	ECM	217	AWD	B	AWD CONTROL
E218	TXL	0.5	DG/WH	ECM	218	TURF RELAY	B	TURF CONTROL
E219	TXL	0.5	DG/VE	ECM	219	RELAY/FUSE BLOCK	B4	FUEL PUMP RELAY COIL CONTROL
E222	TFE	0.5	VE	ECM	222	T-MAP SENSOR	4	MANIFOLD PRESSURE SIGNAL
E223	TXL	0.5	WH	ECM	223	TRANSMISSION SWITCH	B	TRANSMISSION SWITCH SIGNAL OUTPUT
E224	TFE	0.5	BU	ECM	224	T-MAP SENSOR	2	AIR TEMP SENSOR SIGNAL
E225	TFE	0.5	RD	ECM	225	IDLE AIR CONTROL	3	IAC PIN 3
E226	TFE	0.5	BK	ECM	226	IDLE AIR CONTROL	4	IAC PIN 4
E228	TXL	0.5	GY	ECM	228	AWD/TURF SWITCH	3	AWD REQUEST
E230A	TXL	0.5	VT/WH	ECM	230	SPLICE, SENSOR GROUND	2	SENSOR GROUND
E230B	TXL	0.5	VT/WH	COOLANT TEMP SENSOR	1	SPLICE, SENSOR GROUND	1	SENSOR GROUND
E230C	TXL	0.5	VT/WH	TRANSMISSION SWITCH	A	SPLICE, SENSOR GROUND	1	SENSOR GROUND
E230D	TXL	0.5	VT/WH	TRANSMISSION SWITCH	A	SPLICE, SENSOR GROUND	2	SENSOR GROUND
E231	TFE	0.5	VT	ECM	231	TPS	1	TPS GROUND
E232	TXL	0.5	DG	ECM	232	TPS	B	TPS
E233	TXL	0.5	OG/BK	ECM	233	CAM PHASE SENSOR	2	CAM POSITION SIGNAL
E237	TFE	0.5	BN	ECM	237	IDLE AIR CONTROL	1	IAC PIN 1
E238	TFE	0.5	BU	ECM	238	IDLE AIR CONTROL	6	IAC PIN 6
E240	TXL	0.5	OG/RD	ECM	240	PARK BRAKE SWITCH	B	TBD
E242	TFE	0.5	VT	ECM	242	T-MAP SENSOR	1	MANIFOLD PRESSURE GROUND
E244	TXL	0.5	VE	ECM	244	COOLANT TEMP SENSOR	2	COOLANT TEMP SIGNAL
E245	TXL	0.5	GN/RD	ECM	245	VEHICLE SPEED SENSOR	C	VEHICLE SPEED SIGNAL
E249	TXL	0.5	BN/VE	ECM	249	AWD	A	ADC CONTROL
E254	TXL	0.8	BK/WH	ECM	254	REVERSE BEEPER P2	1	REVERSE BEEPER DRIVER
GF02	TXL	1.0	BN	FAN	A	TERMINAL BLOCK 2 (GROUND #2)	1	GROUND, FAN
GF03	TXL	0.8	BN	KEY SWITCH	A	SPLICE, DASH GROUND	2	GROUND, KEY SWITCH
GF04	TXL	0.8	BN	LH HEADLIGHT	B	TERMINAL BLOCK 2 (GROUND #1)	1	GROUND, HEADLIGHT
GF05	TXL	0.8	BN	RH HEADLIGHT	B	TERMINAL BLOCK 2 (GROUND #1)	1	GROUND, HEADLIGHT
GF07	TXL	0.5	BN	HEADLIGHT SWITCH	7	TERMINAL BLOCK 2 (GROUND #1)	1	HEADLIGHT SWITCH MARKER GROUND
GF08	TXL	3.0	BN	VREG DC OUTPUT	P1	TERMINAL BLOCK 2 (GROUND #2)	1	REGULATOR GROUND
GF1A	TXL	1.0	BN	TERMINAL BLOCK 2 (GROUND #2)	1	SPLICE, DASH GROUND	1	GROUND, FRONT SPLICE
GF1B	TXL	0.5	BN	RELAY/FUSE BLOCK	B2	RELAY/FUSE BLOCK	D8	CHASSIS RELAY COIL GROUND
GF1C	TXL	0.5	BN	AWD/TURF SWITCH	2	SPLICE, DASH GROUND 2	2	GROUND
GF1D	TXL	0.5	BN	AWD/TURF SWITCH	2	AWD/TURF SWITCH	5	GROUND
GF1E	TXL	0.5	BN	AWD/TURF SWITCH	5	AWD/TURF SWITCH	8	GROUND, AWD, TURF, SIGNAL
GF1F	TXL	0.5	BN	RELAY/FUSE BLOCK	B2	SPLICE, DASH GROUND 2	1	GROUND, EPS RELAY COIL
GF1G	TXL	0.5	BN	SPEEDOMETER	5	SPLICE, DASH GROUND	2	GROUND, SPEEDOMETER
GF1H	TXL	0.5	BN	DIAGNOSTIC	D	SPLICE, DASH GROUND	1	GROUND, DIAGNOSTIC
GF1I	TXL	0.5	BN	FUEL PUMP/LEVEL	2	SPLICE, DASH GROUND	1	FUEL LEVEL, GROUND
GF7A	TXL	1.0	BN	TERMINAL BLOCK 2 (GROUND #2)	1	12V (-) RECEPTACLE A2	1	GROUND
GF7B	TXL	1.0	BN	12V (-) RECEPTACLE B1	1	12V (-) RECEPTACLE B1	1	GROUND
GF7C	TXL	1.0	BN	12V (-) RECEPTACLE B2	1	12V (-) RECEPTACLE C2	1	GROUND
GF7D	TXL	1.0	BN	SPLICE, GROUND REAR	1	SPLICE, DASH GROUND 2	1	GROUND
GR	TXL	3.0	BN	TERMINAL BLOCK 2 (GROUND #1)	1	GROUND, REAR 6mm RING	1	GROUND, FRONT REAR CONNECTION
GR01	TXL	1.0	BN	FUEL PUMP/LEVEL	4	GROUND, REAR 6mm RING	4	PUMP GROUND
GR02	TXL	0.5	BN	VEHICLE SPEED SENSOR	4	SPLICE, GROUND REAR	2	GROUND, VEHICLE SPEED SENSOR
GR03	TXL	0.8	BN	TAILLIGHT	C	GROUND, REAR 6mm RING	1	GROUND
GR04	TXL	0.8	BN	TURF RELAY	C	SPLICE, GROUND REAR	2	GROUND, TURF RELAY
GR05	TXL	0.5	BN	CAM PHASE SENSOR	1	SPLICE, GROUND REAR	1	GROUND
GR06	TXL	2.0	BN	STATOR	D	GROUND, REAR 6mm RING	1	GROUND, STATOR
GR250	TXL	0.8	BN	ECM	250	SPLICE, GROUND REAR	2	GROUND, ECM BATTERY
GR251	TXL	0.8	BN	ECM	251	SPLICE, GROUND REAR	2	GROUND, ECM BATTERY
GR252	TXL	0.8	BN	ECM	252	SPLICE, GROUND REAR	2	GROUND, ECM BATTERY
GR3A	TXL	0.5	BN	SPLICE, GROUND REAR	2	SPLICE, SHIELD	1	GROUND
GR3A2A	TXL	0.5	BN	CRANK POSITION SENSOR	B	SPLICE, CPS SHIELD	1	SHIELD, CPS
GRS	TXL	1.0	BN	GROUND, REAR 6mm RING	1	SPLICE, GROUND REAR	1	GROUND
K01A	TXL	1.0	OG	KEY SWITCH	D	SPLICE, KEY ON	2	KEY SWITCH OUT B+
K01B	TXL	0.8	OG	RELAY/FUSE BLOCK	D3	SPLICE, KEY ON	1	KEY SWITCH OUT B+, FUEL PUMP FUSE IN
K01C	TXL	0.8	OG	REVERSE POLARITY DIODE	P2	SPLICE, KEY ON	1	KEY SWITCH OUT B+
K01D	TXL	0.8	OG	REVERSE POLARITY DIODE	P1	SPLICE, R/S B+	1	KEY SWITCH OUT B+
K01E	TXL	0.5	OG	RELAY/FUSE BLOCK	C9	SPLICE, R/S B+	1	KEY SWITCH, B+ CHASSIS RELAY COIL POWER
K03	TXL	0.5	OG	SPEEDOMETER	3	SPLICE, R/S B+	1	KEY SWITCH OUT B+
K04	TXL	0.5	OG	VEHICLE SPEED SENSOR	A	SPLICE, R/S B+	2	KEY SWITCH OUT B+
K05	TXL	0.5	OG	DIAGNOSTIC	A	SPLICE, R/S B+	1	KEY SWITCH OUT B+
K209	TXL	0.5	OG	ECM	209	SPLICE, R/S B+	2	ECM SWITCH OUT B+
RC2A	TXL	1.0	OG/WH	RELAY/FUSE BLOCK	C2	TERMINAL BLOC 1 (ACC)	1	ACCESSORIES, B+ ACC FUSE OUT
RC2B1	TXL	1.0	OG/WH	12V (+) RECEPTACLE A1	1	12V (+) RECEPTACLE A1	1	FUSE ACCESSORIES, B+ (3/16)
RC2C1	TXL	1.0	OG/WH	12V (+) RECEPTACLE B1	1	12V (+) RECEPTACLE B1	1	FUSE ACCESSORIES, B+ (3/16)
RC4A	TXL	0.8	RD/OG	RELAY/FUSE BLOCK	C4	12V (+) RECEPTACLE C1	1	FUSE ACCESSORIES, B+ (3/16)
RC4B	TXL	0.5	RD/OG	AWD/TURF SWITCH	7	SPLICE, DRIVE	1	SWITCHED, B+ DRIVE FUSE OUT
RC4D	TXL	0.5	RD/OG	TURF RELAY	A	SPLICE, DRIVE	2	SWITCHED, B+
RC4E	TXL	0.5	RD/OG	AWD	D	SPLICE, DRIVE	1	SWITCHED, B+, TURF
RC4F	TXL	0.5	RD/OG	AWD	C	SPLICE, DRIVE	1	SWITCHED, B+, AWD COIL
RC6A	TXL	1.0	RD/VE	RELAY/FUSE BLOCK	C6	SPLICE, LIGHTS B+	1	LIGHTS, B+ LIGHTS FUSE OUT
RC6C	TXL	0.8	RD/VE	REVERSE BEEPER P1	A	SPLICE, LIGHTS B+	2	LIGHTS, B+
RC6D1	TXL	0.8	RD/VE	TAILLIGHT	A	REVERSE BEEPER P1	1	LIGHTS, B+
RC6D	TXL	0.5	RD/VE	PARK BRAKE SWITCH	A	SPLICE, LIGHTS B+	1	LIGHTS, B+
RC6G	TXL	0.8	RD/VE	HEADLIGHT SWITCH	5	SPLICE, LIGHTS B+	2	HEADLIGHT SWITCH POWER
RC6H	TXL	0.5	RD/VE	HEADLIGHT SWITCH	5	HEADLIGHT SWITCH	8	HEADLIGHT SWITCH MARKER POWER
RC8	TXL	3.0	WH	RELAY/FUSE BLOCK	C7	RELAY/FUSE BLOCK	C8	SWITCHED B+ CHASSIS REL POWER OUT
RE253	TXL	0.8	RD/DB	ECM	253	SPLICE, ECM B+	2	ECM B+
REA								

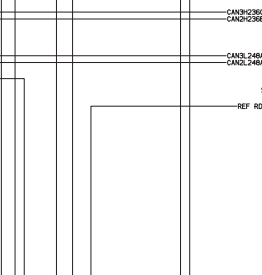
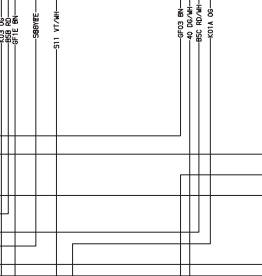
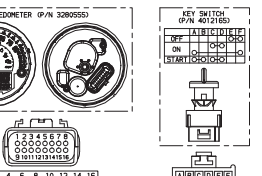
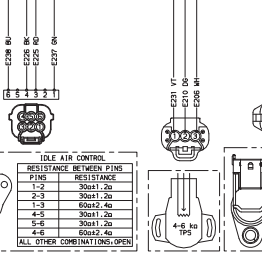
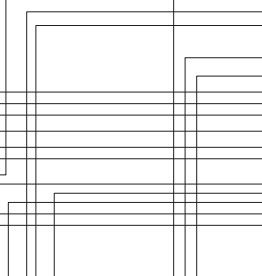
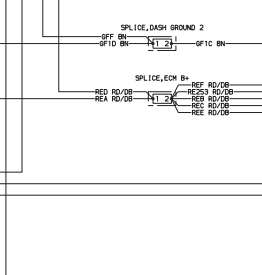
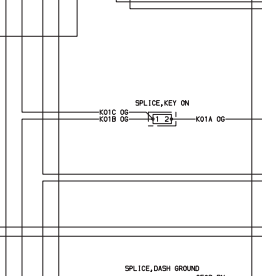
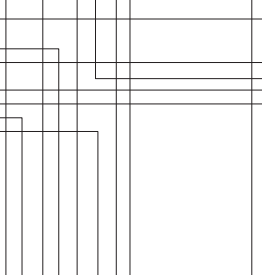
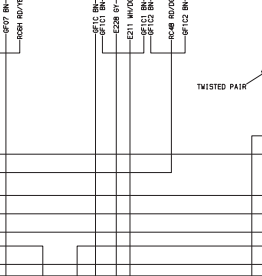
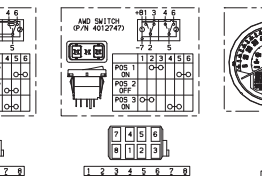
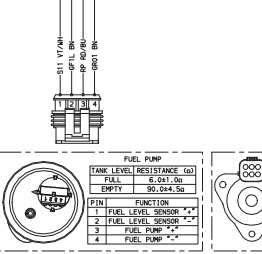
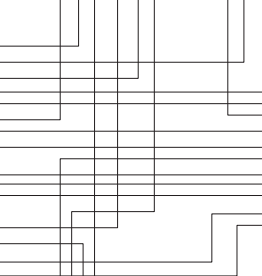
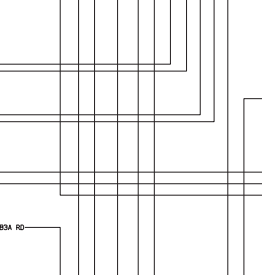
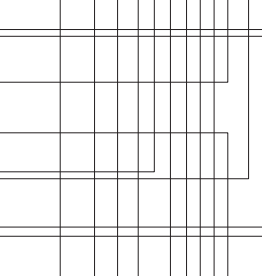
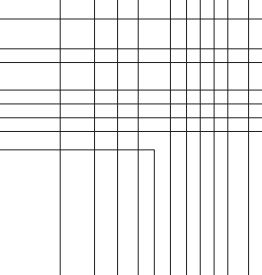
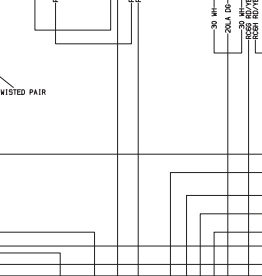
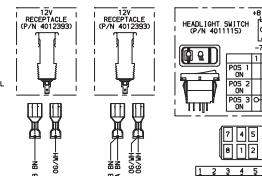
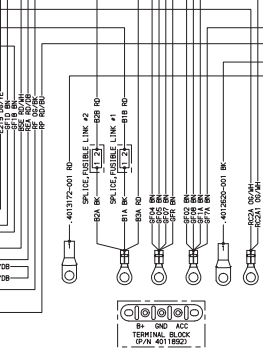
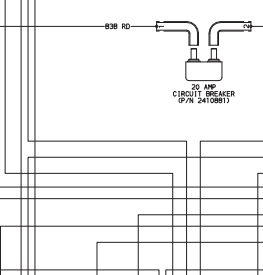
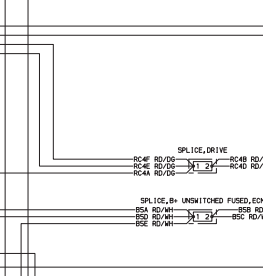
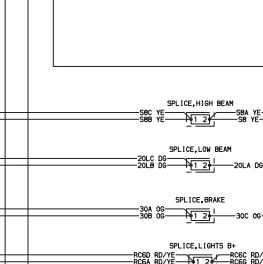
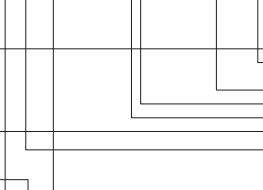
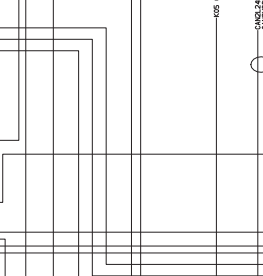
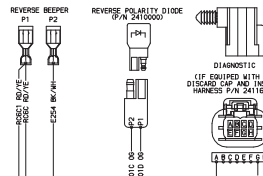
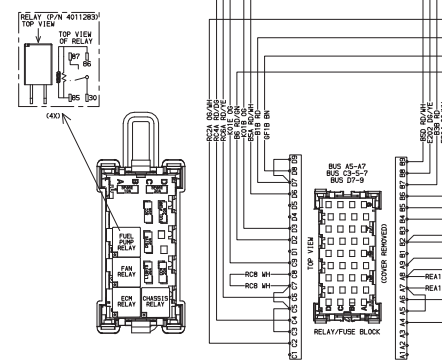
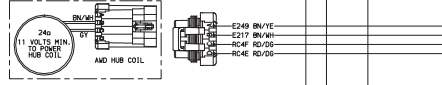
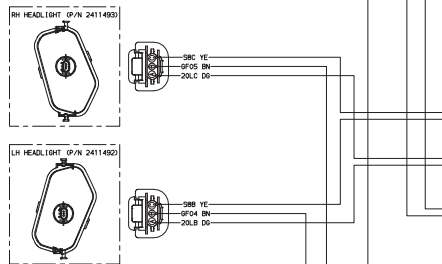
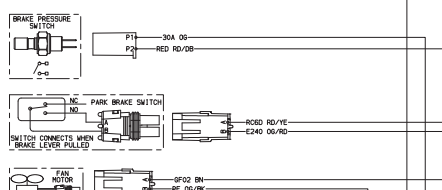
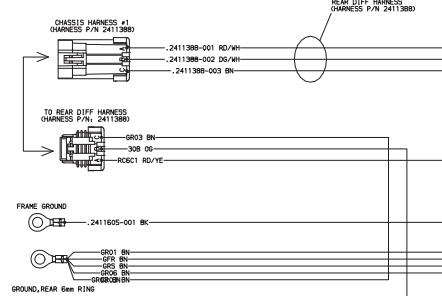
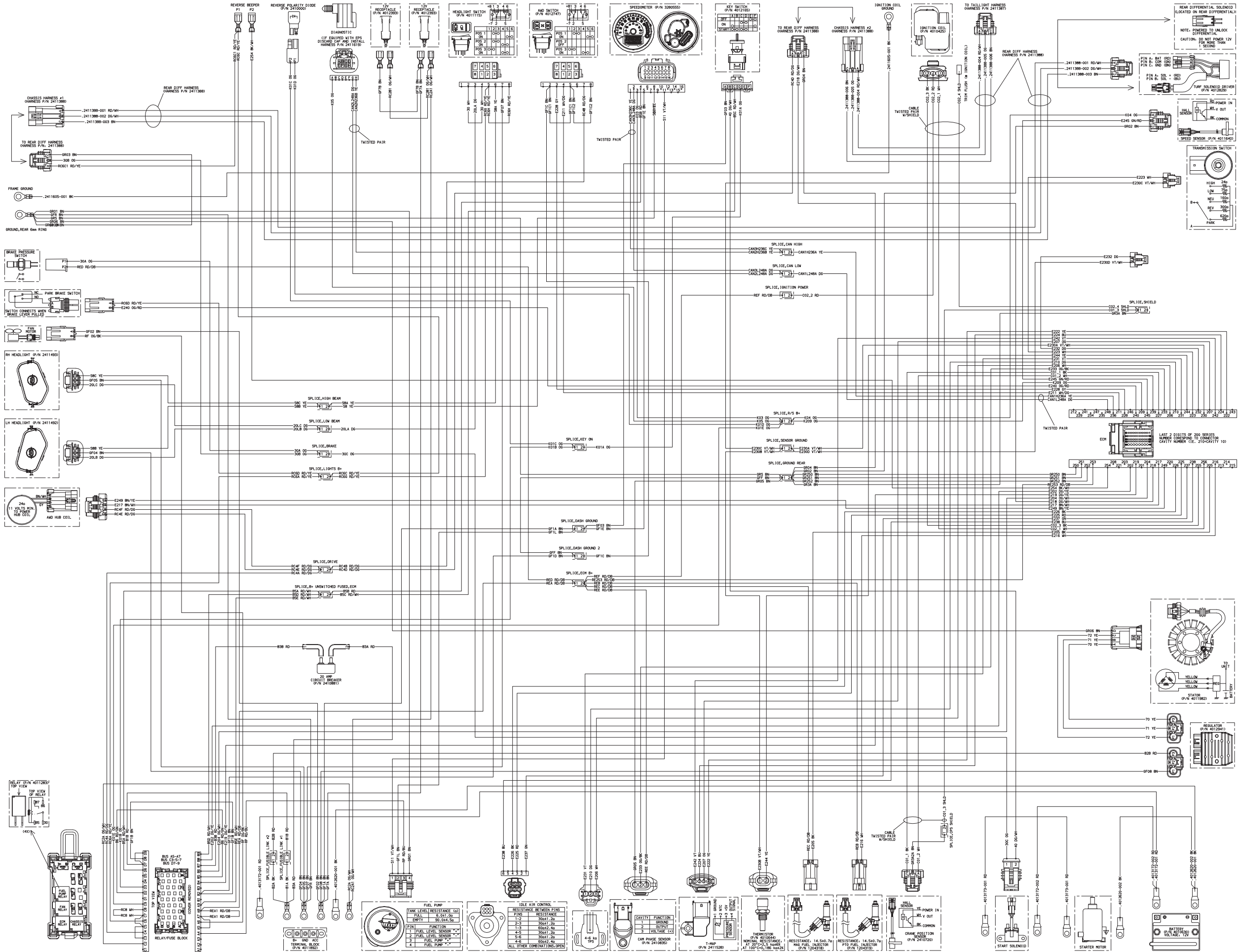
FILE NAME: 2411702.RD

BR	BROWN
BL	BLACK
BU	BLUE
GN	GREEN
GR	GRAY
LG	LIGHT GREEN
OR	ORANGE
PK	YELLOW PINK
RD	RED
SL	SILVER
TR	TRACED
VT	VIOLET (PURPLE)
WH	WHITE
YL	YELLOW
YE	YELLOW GREEN

▽ = ENGINE GROUND
 ▽ = CHASSIS GROUND
 NC = SWITCH NORMALLY CLOSED
 NO = SWITCH NORMALLY OPEN

HARNESSES: 2411702-04
 SHEET NO. 1 OF 2

TWO WIRE COILS ARE SHOWN WITH PLAIN TRACE COLORS.
 COMPLETE WIRE IS RED WITH YELLOW TRACE.



2012 RANGER 4X4 (CARGO BOX)

FILE NAME: 2411387.RSD

WIRE COLOR LEGEND	
BG	BEIGE (TAN)
BK	BLACK
BU	LIGHT BLUE
DB	DARK BLUE
BN	BROWN
GY	GRAY
GN	LIGHT GREEN
DG	DARK GREEN
OG	ORANGE
PK	PINK
RD	RED
VT	VIOLET (PURPLE)
WH	WHITE
YE	YELLOW
CL	CLEAR

TWO WIRE COLORS ARE SHOWN WITH MAIN/TRACE COLORS.
EXAMPLE: RD/YE = RED WITH YELLOW TRACE.

 = ENGINE GROUND

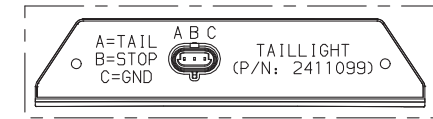
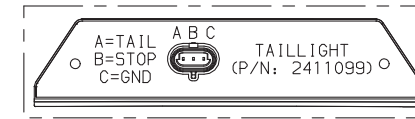
 = CHASSIS GROUND

NC = SWITCH NORMALLY CLOSED

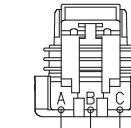
NO = SWITCH NORMALLY OPEN

HARNESS: 2411387-02

SHEET NO. 1 OF 1

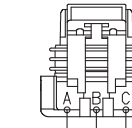


LH TAILLIGHT

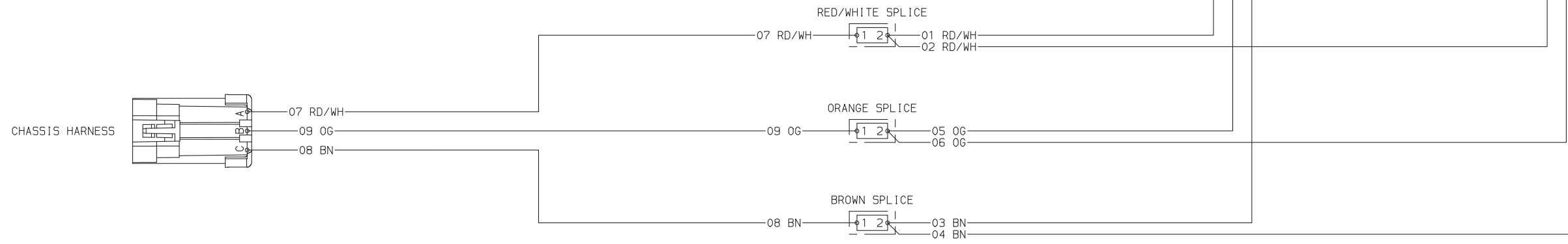


01 RD/WH
05 OG
03 BN

RH TAILLIGHT



02 RD/WH
06 OG
04 BN



SCHEMATIC CABLE/WIRE TERMINATION TABLE									
INDEX	CCT #	TYPE	GAUGE	COLOR	FROM COMPONENT	FROM PORT	TO COMPONENT	TO PORT	FUNCTION
1	01	TXL	0.8	RD/WH	LH TAILLIGHT	A	RED/WHITE SPLICE	2	FUSED LIGHT POWER
2	02	TXL	0.8	RD/WH	RH TAILLIGHT	A	RED/WHITE SPLICE	2	FUSED LIGHT POWER
3	03	TXL	0.8	BN	LH TAILLIGHT	C	BROWN SPLICE	2	TAILLIGHT GROUND
4	04	TXL	0.8	BN	RH TAILLIGHT	C	BROWN SPLICE	2	TAILLIGHT GROUND
5	05	TXL	0.8	OG	LH TAILLIGHT	B	ORANGE SPLICE	2	BRAKE SIGNAL
6	06	TXL	0.8	OG	RH TAILLIGHT	B	ORANGE SPLICE	2	BRAKE SIGNAL
7	07	TXL	0.8	RD/WH	CHASSIS HARNESS	A	RED/WHITE SPLICE	1	FUSED LIGHT POWER
8	08	TXL	0.8	BN	CHASSIS HARNESS	C	BROWN SPLICE	1	TAILLIGHT GROUND
9	09	TXL	0.8	OG	CHASSIS HARNESS	B	ORANGE SPLICE	1	BRAKE SIGNAL

2012 RANGER EPS

FILE NAME: 2411619.RSD

WIRE COLOR LEGEND	
BG	BEIGE (TAN)
BK	BLACK
BU	LIGHT BLUE
DB	DARK BLUE
BN	BROWN
GY	GRAY
GN	LIGHT GREEN
DG	DARK GREEN
OG	ORANGE
PK	PINK
RD	RED
VT	VIOLET (PURPLE)
WH	WHITE
YE	YELLOW
CL	CLEAR

TWO WIRE COLORS ARE SHOWN WITH MAIN/TRACE COLORS.
EXAMPLE: RD/YE = RED WITH YELLOW TRACE.

E = ENGINE GROUND

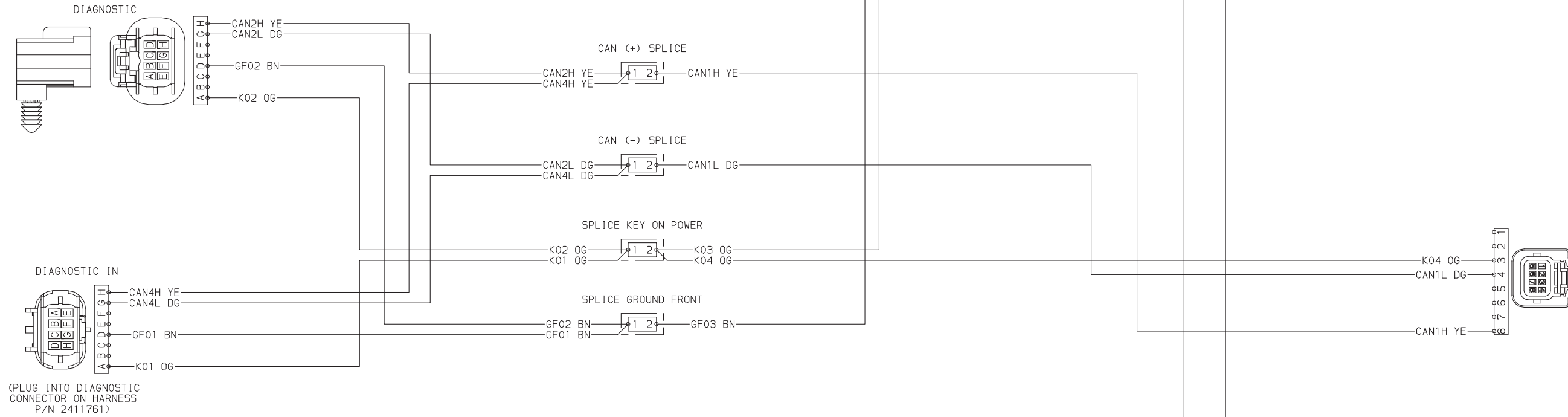
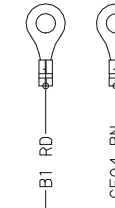
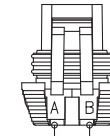
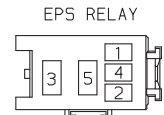
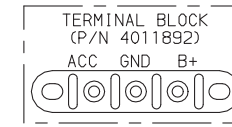
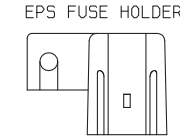
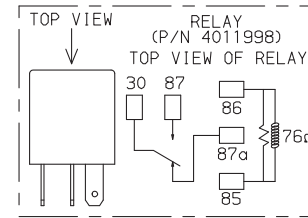
C = CHASSIS GROUND

NC = SWITCH NORMALLY CLOSED

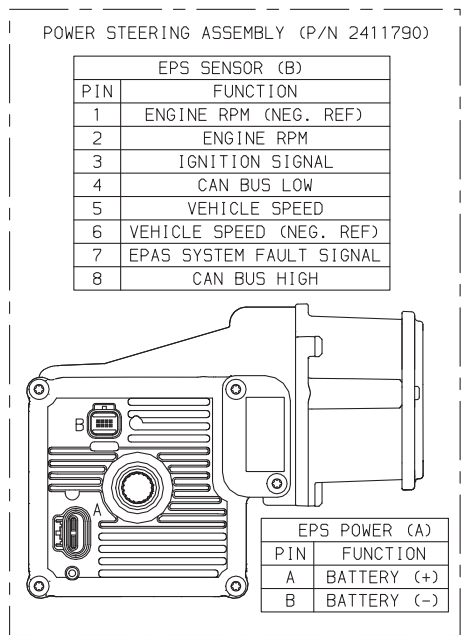
NO = SWITCH NORMALLY OPEN

HARNESS: 2411619-01

SHEET NO. 1 OF 1



(PLUG INTO DIAGNOSTIC CONNECTOR ON HARNESS P/N 2411761)



SCHEMATIC CABLE/WIRE TERMINATION TABLE									
INDEX	CCT #	TYPE	GAUGE	COLOR	FROM COMPONENT	FROM PORT	TO COMPONENT	TO PORT	FUNCTION
1	B1	TXL	5.0	RD	EPS FUSE HOLDER	B	TERMINAL BLOCK 1 B+	1	BATTERY B+
2	B1A	TXL	5.0	RD	EPS FUSE HOLDER	A	EPS RELAY	3	BATTERY B+ FUSED
3	CAN1H	TXL	0.5TP	YE	EPS SIGNAL CAN	8	CAN (+) SPLICE	2	CAN HIGH
4	CAN1L	TXL	0.5TP	DG	EPS SIGNAL CAN	4	CAN (-) SPLICE	2	CAN LOW
5	CAN2H	TXL	0.5TP	YE	DIAGNOSTIC	H	CAN (+) SPLICE	1	CAN HIGH
6	CAN2L	TXL	0.5TP	DG	DIAGNOSTIC	G	CAN (-) SPLICE	1	CAN LOW
7	CAN4H	TXL	0.5TP	YE	DIAGNOSTIC IN	H	CAN (+) SPLICE	1	CAN HIGH
8	CAN4L	TXL	0.5TP	DG	DIAGNOSTIC IN	G	CAN (-) SPLICE	1	CAN LOW
9	GF01	TXL	0.5	BN	DIAGNOSTIC IN	D	SPLICE GROUND FRONT	1	GROUND
10	GF02	TXL	0.5	BN	DIAGNOSTIC	D	SPLICE GROUND FRONT	1	GROUND
11	GF03	TXL	0.5	BN	EPS RELAY	1	SPLICE GROUND FRONT	2	GROUND
12	GF04	TXL	5.0	BN	EPS POWER	B	TERMINAL BLOCK 2 GROUND	1	GROUND
13	K01	TXL	0.5	OG	DIAGNOSTIC IN	A	SPLICE KEY ON POWER	1	KEY ON POWER
14	K02	TXL	0.5	OG	DIAGNOSTIC	A	SPLICE KEY ON POWER	1	KEY ON POWER
15	K03	TXL	0.5	OG	EPS RELAY	2	SPLICE KEY ON POWER	2	KEY ON POWER
16	K04	TXL	0.5	OG	EPS SIGNAL CAN	3	SPLICE KEY ON POWER	2	KEY ON POWER
17	RS01	TXL	5.0	OG	EPS POWER	A	EPS RELAY	5	BATTERY B+ SWITCHED