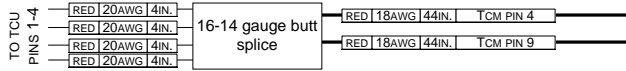
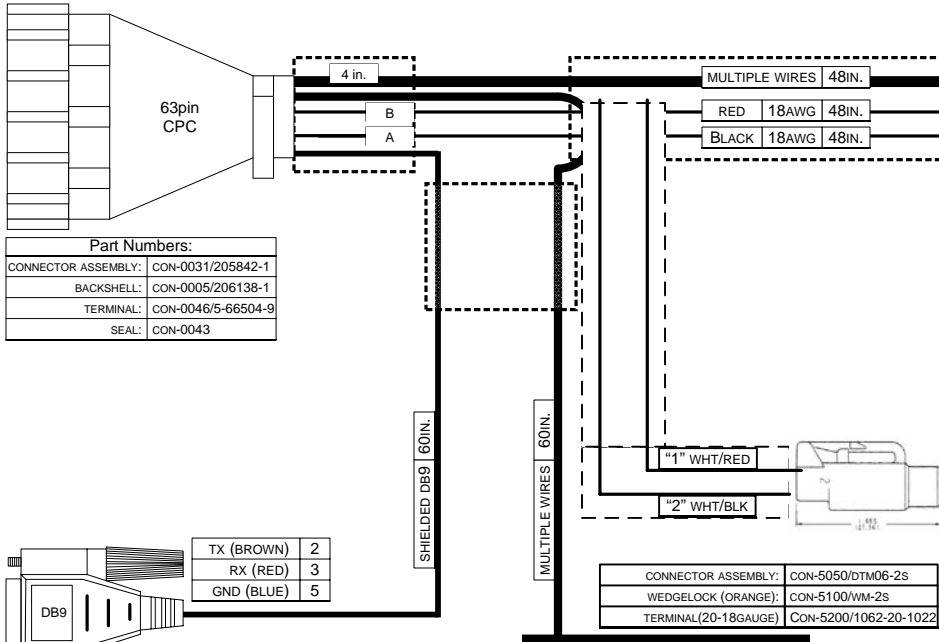
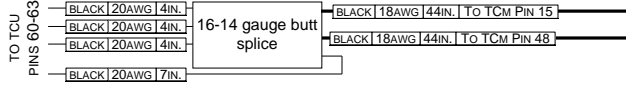


REV.	DESCRIPTION	DATE	BY
0	ORIGINAL REVISION	6/13/2005	RC

Splice B:

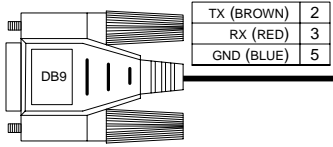


Splice A:



Part Numbers:

CONNECTOR ASSEMBLY:	CON-0031/205842-1
BACKSHELL:	CON-0005/206138-1
TERMINAL:	CON-0046/5-66504-9
SEAL:	CON-0043



Part Numbers:

CONNECTOR ASSEMBLY:	WRE-2001
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CONNECTOR ASSEMBLY:	CON-5050/DTM06-2S
WEDGELOCK (ORANGE):	CON-5100/WM-2S
TERMINAL (20-18GAUGE):	CON-5200/1062-20-1022

Unterminated Wires

SPARE DIGITAL 4	BROWN/WHITE	39
SPARE DIGITAL 2	BRWON/LT. GREEN	25
SPARE DIGITAL 3	BROWN/LT. BLUE	26
SPARE ANALOG 2	YELLOW/GREEN	48
CLT	YELLOW/RED	47
BRAKE LIGHT INPUT	GRAY/PINK	22
+5V	RED/WHITE	58
SNS GND	BLACK/WHITE	54

RE4R03A		PCS Wire	TCU	RE4R03A		PCS Wire	TCU
1	Line Pressure Solenoid	violet/black	37	25	Driveshaft RPM (OSS)	orange/red	6
2	Line Pressure Solenoid (Drop Res)	violet/red	28	26	TCC Speed	orange/lt. green	7
3	Diagnostic Output	pink/lt. blue	44	27	Vehicle Speed Sensor	orange/lt. blue	8
4	Switched +12V	Red	1-4	28	-	-	-
5	TCC Solenoid	violet/lt. green	20	29	-	-	-
6	Shift Solenoid A	pink/black	59	30	-	-	-
7	Shift Solenoid B	pink/red	53	31	TPS +5V Ref Voltage	red/white	58
8	Shift Solenoid C (overrun clock)	pink/lt. green	36	32	-	-	-
9	Switched +12V	Red	1-4	33	TFT	yellow/orange	51
10	-	-	-	34	TPS	yellow/black	46
11	-	-	-	35	Sensor Ground	black/white	54
12	-	-	-	36	-	-	-
13	-	-	-	37	Cruise ON/OFF Indicator	brown/red	24
14	-	-	-	38	-	-	-
15	Ground	black	60-63	39	1 Postion or OD Cancel	gray/yellow	21
16	2 Position	gray/orange	18	40	OD cancel from cruise control	brown/black	23
17	3 Position	gray/white	17	41	-	-	-
18	DL Position	gray/lt. blue	16	42	-	-	-
19	Park Position	gray/black	13	43	-	-	-
20	Reverse Psotion	gray/red	14	44	-	-	-
21	-	-	-	45	-	-	-
22	-	-	-	46	-	-	-
23	-	-	-	47	-	-	-
24	RPM (Tach signal)	orange/black	5	48	Ground	black	60-63



Powertrain Control Solutions, LLC.

11139 Air Park Rd. Suite 2
Ashland, VA 23005

www.ptcs.us

Phone: (804) 752-6025
Fax: (804) 752-3516

TITLE:

TCU RE4R03A

PART NUMBER: TCM-4124

DESCRIPTION:
RE4R03A HARNESS
99-01 INFINITI

DRAWN BY: R. Cutright DATE: 6/13/2005 PAGE: 2 OF 2

REV.	DESCRIPTION	DATE	BY
0	ORIGINAL REVISION	6/13/2005	RC

CPC	colors	Pin Function	Harness Function	GS400 Function
1	red	+12v	Battery Connection	Switched +12v
2	red	+12v	Battery Connection	Switched +12v
3	red	+12v	Battery Connection	Switched +12v
4	red	+12v	Battery Connection	Switched +12v
5	orange/black	Speed Input 1	Engine Speed Input	RPM (Tach Signal)
6	orange/red	Speed Input 2	Transmission Speed Input	Driveshaft RPM (Output Shaft Speed)
7	orange/l. Green	Speed Input 3	TCC Speed Input	TCC speed
8	orange/l. Blue	Speed Input 4	Optional Speed Input	Vehicle speed Sensor
9	orange/white	Speed Output	Speedometer Drive Output	-
10	-	unused	-	-
11	-	unused	-	-
12	violet/l. Blue	PWM Out 4/freq2	PWM/Solenoid Driver	-
13	gray/black	Digital Input 1	Digital Input	Park Position
14	gray/red	Digital Input 2	Digital Input	Reverse Position
15	gray/l. Green	Digital Input 3	Digital Input	Neutral Position
16	gray/l. Blue	Digital Input 4	Digital Input	DL Position
17	gray/white	Digital Input 5	Digital Input	3 Position
18	gray/orange	Digital Input 6	Digital Input	2 Position
19	pink/white	Digital Out 5	Digital Driver	-
20	violet/l. Green	PWM Out 3/freq2	PWM/Solenoid Driver	TCC Solenoid
21	gray/yellow	Digital Input 7	Digital Input	1Position or OD Cancel Button
22	gray/pink	Digital Input 8	Digital Input	Brake Light Input
23	brown/black	Digital Input 9	Digital Input	OD Cancel Input from Cruise Control
24	brown/red	Digital Input 10	Digital Input	Cruise ON/OFF Indicator
25	brown/l. Green	Digital Input 11	Digital Input	Spare Digital 1
26	brown/l. Blue	Digital Input 12	Digital Input	Spare Digital 2
27	pink/orange	Digital Out 6	Digital Driver	-
28	violet/red	PWM Out 2/freq1	PWM/Solenoid Driver	Line Pressure Solenoid (Drop Res)
29	-	unused	-	-
30	white/orange	RS-232 Transmit	Communications Cable	DB-9
31	white/l. Blue	RS-232 Receive	Communications Cable	DB-9
32	white/l. Green	CAN/RS-232 GND	Communications Cable	DB-9
33	white/red	CAN High	Communications Cable	-
34	white/black	CAN Low	Communications Cable	-
35	-	unused	-	-
36	pink/l. Green	Digital Out 3	Digital Driver	Shift Solenoid C (Overrun Clutch)
37	violet/black	PWM Out 1/freq 1	PWM/Solenoid Driver	Line Pressure Solenoid
38	-	unused	-	-
39	brown/white	Digital Input 13	Digital Input	Spare Digital 3
40	brown/orange	Digital Input 14	Digital Input	-
41	brown/yellow	Digital Input 15	Digital Input	-
42	brown/pink	Digital Input 16	Digital Input	-
43	-	unused	-	-
44	pink/l. Blue	Digital Out 4	Digital Driver	Diagnostic Output
45	violet/orange	PWM Out 6/freq1	PWM/Solenoid Driver	-
46	yellow/black	Analog Input 1	Analog Input	TPS
47	yellow/red	Analog Input 2	Analog Input	CLT
48	yellow/l. Green	Analog Input 3	Analog Input	Spare Analog 1
49	yellow/l. Blue	Analog Input 4	Analog Input	-
50	yellow/white	Analog Input 5/temp	Analog Input	-
51	yellow/orange	Analog Input 6/temp	Analog Input	TFT
52	violet/white	Pwm Out 5/freq1	PWM/Solenoid Driver	-
53	pink/red	Digital Out 2	Digital Driver	Shift Solenoid B
54	black/white	Sensor/AD Gnd	Sensor or reference Gnd	Sensor Ground (TSS,VSS,TPS)
55	-	unused	-	-
56	-	unused	-	-
57	-	unused	-	-
58	red/white	Ref Voltage (+5v Sensor Output)	Sensor/reference Voltage	TPS +5v Ref Voltage
59	pink/black	Digital Out 1	Digital Driver	Shift Solenoid A
60	black	Gnd	Battery Connection	GND
61	black	Gnd	Battery Connection	GND
62	black	Gnd	Battery Connection	GND
63	black	Gnd	Battery Connection	GND

Extra wires list

1	orange/white
2	violet/l. Blue
3	pink/white
4	pink/orange
5	brown/orange
6	brown/yellow
7	brown/pink
8	violet/orange
9	yellow/l. Blue
10	yellow/white
11	violet/white

	db9 pinout	DB9
1	none	none
2	transmit	brown
3	receive	red
4	none	none
5	gnd	blue
6	none	none
7	none	none
8	none	none
9	none	none