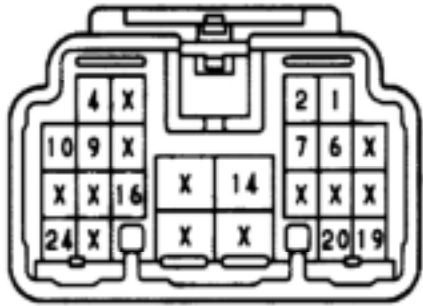


Toyota 3.0 (3VZE) engine swap to 3.4 (5VZFE)

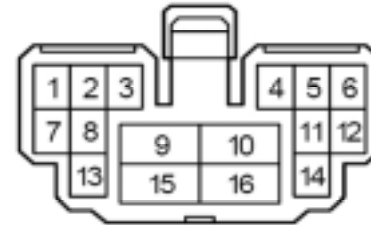
Recipient 1988 4Runner 3VZE – R150 manual 5-speed 4WD - IFS

Donor 1997 T-100 5VZ-FE – R150 manual 5-speed 4WD - IFS

Note: this wiring diagram is recipient and donor specific. Chances are that the color/pin out on your vehicle(s) will be different. Use only as a guideline to help you understand your specific EWD's.)

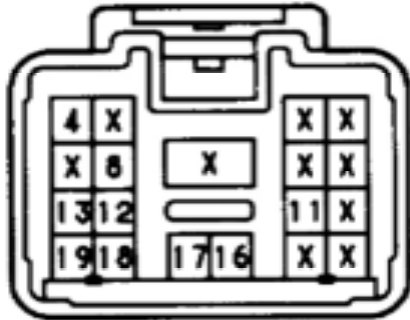


90980-10880

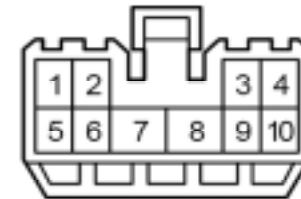


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← Not in Online DB



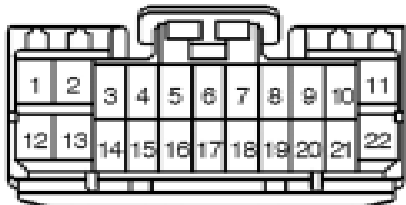
90980-10856



90980-10322

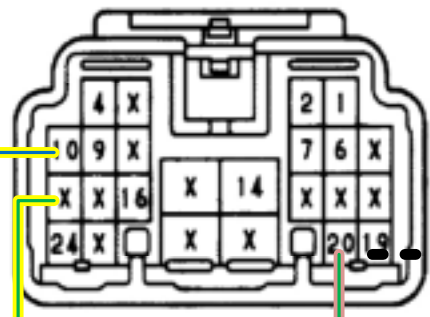
ENGINE CONTROL MODULE

E 4 A



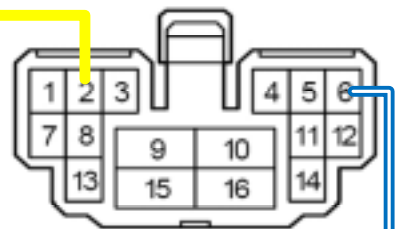
90980-11392

IE1



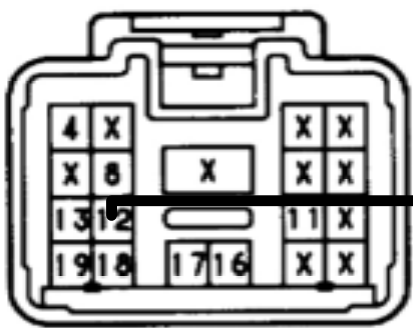
Grounded Passenger Kick Panel

N5

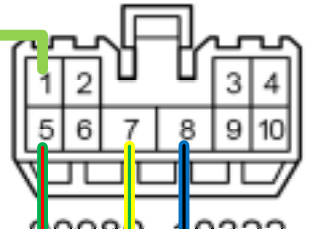


90980-10454

IE2

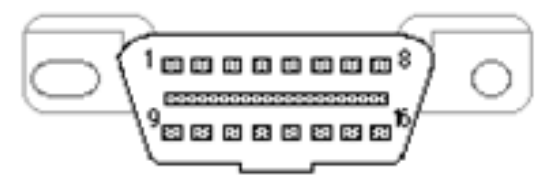
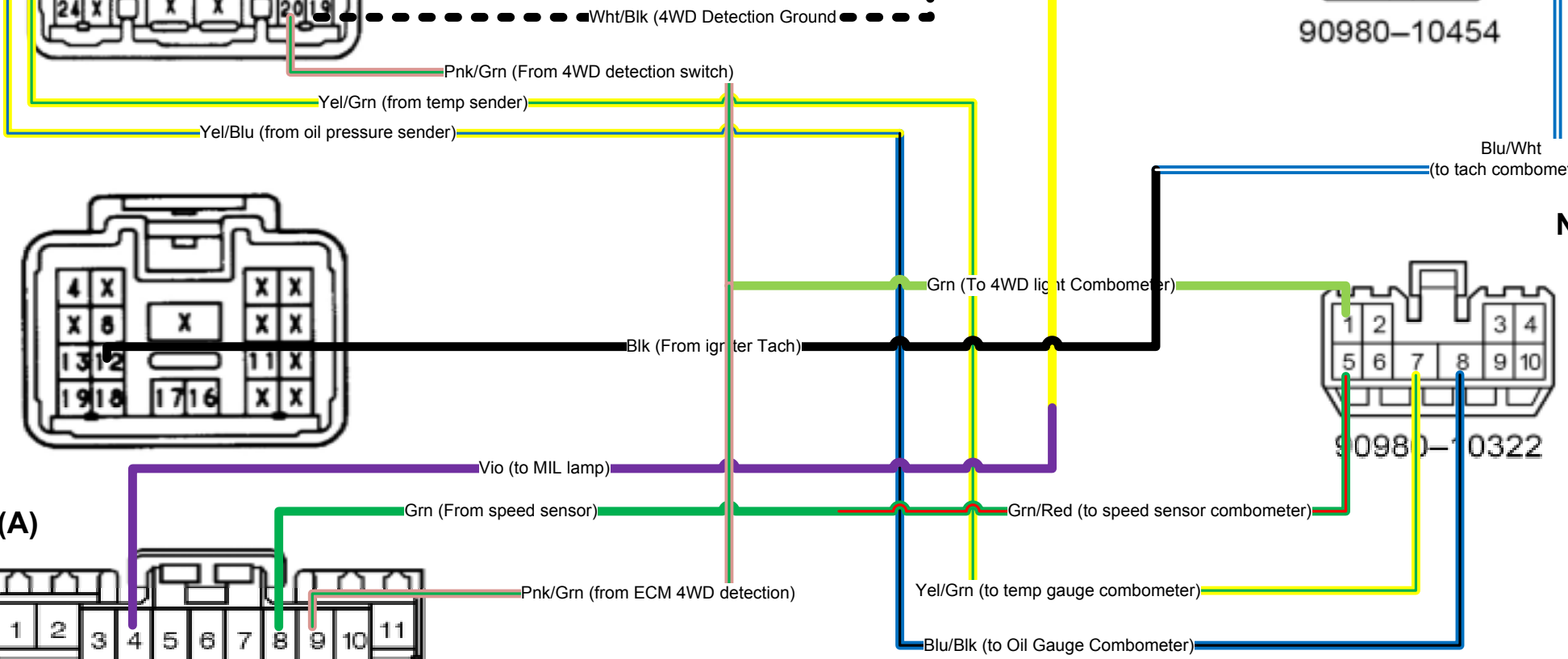
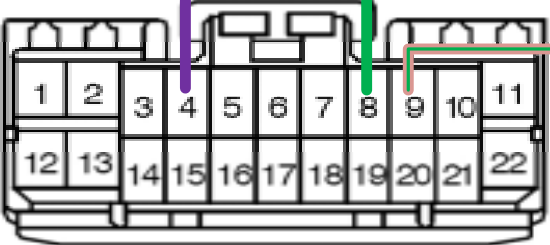


N3

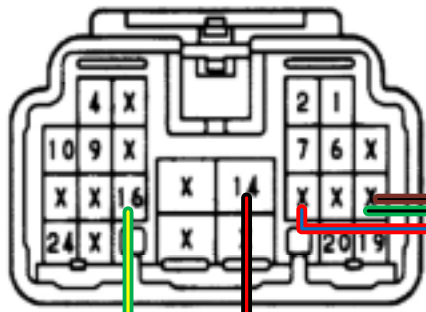


90980-10322

E4 (A)



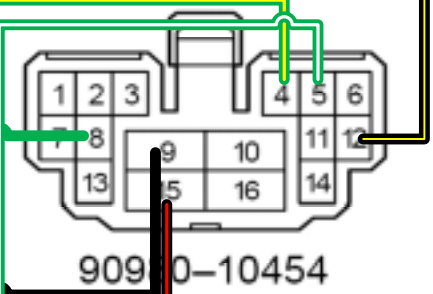
IE1



To starter trigger wire on 3.4 battery harness

Blk/Yel (12v Switched)

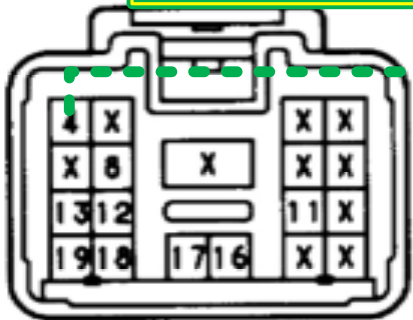
N5



Grn (COR Relay Gnd)
Grn/Yel (12v Constant)

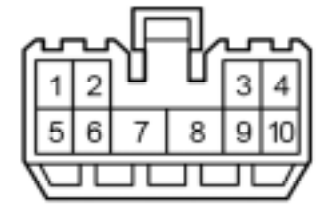
9090-10454

IE2



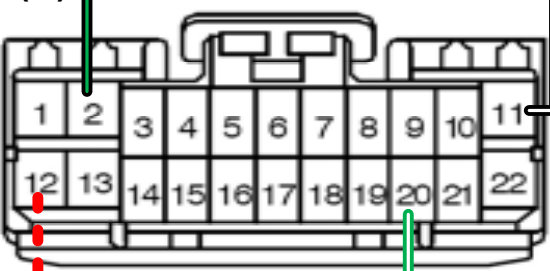
Grn/Yel (COR relay gnd)

N3



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E4 (A)



Blk/Grn (12v Constant)
Wht/Grn (VSV EVAP)

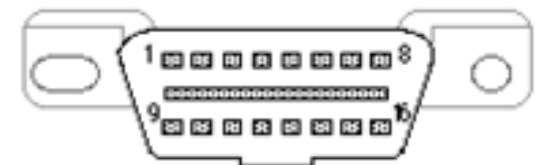
Wht/Red (12v switched to EVAP pigtail)

VSV EVAP Pigtail (T-100 Donor)

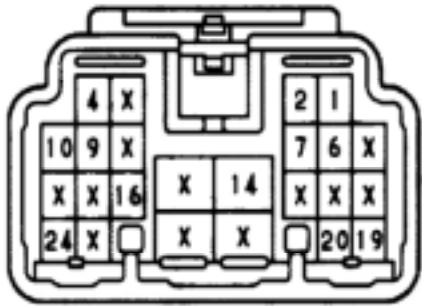
Brn/Blk (VPS)
Grn/Blk (VPS)
Red/Blu (VPS)

Grn/Wht (stop light switch)

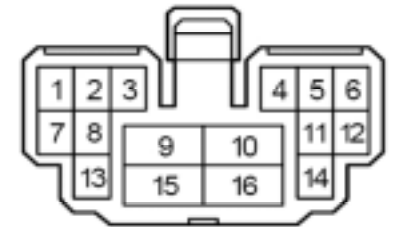
Wht/Red (12v Switched to ECM)



IE1

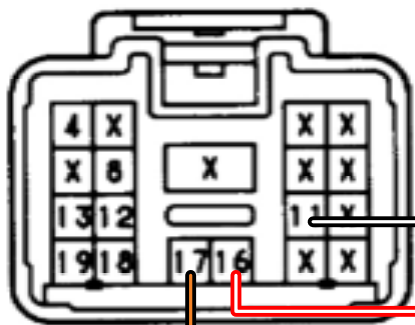


N5



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IE2



Blk/Wht (AC Mag clutch trigger)

Red/Wht (from Rev Switch fused +)

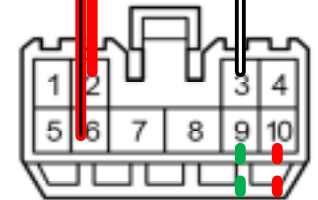
Blk/Org (to Rev light switch return)

Red (Rev Switch return)

Red/Blk (to Rev fuse)

Blk/Wht (AC Mag clutch trigger)

N3



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E4 (A)

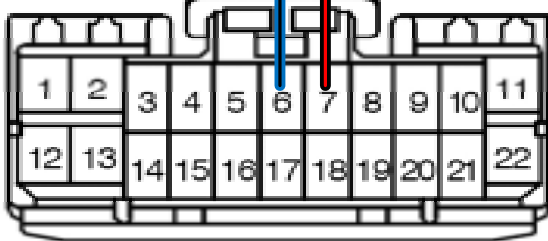
Blu/Blk (To A/C amplifier)

Blk/Red (To A/C Amplifier)

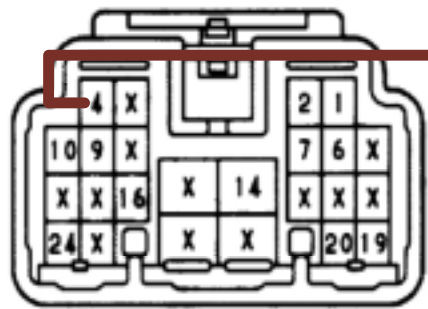
A/C amp Not Wired Yet

Wht/Grn (A/C Idle up VSV)

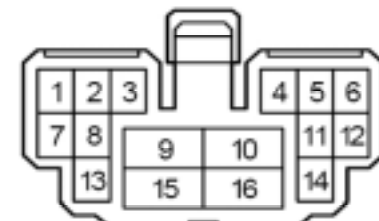
Wht/Red (A/C Idle up VSV)



IE1



N5

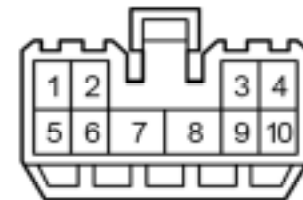


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IE2

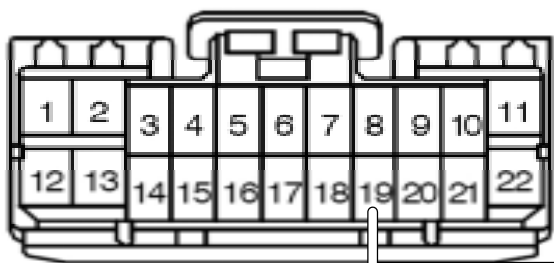


N3



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E4 (A)



Brn (OBD II Ground)

Brn (OBD II Shielded ground)

Brn (OBD II Ground)

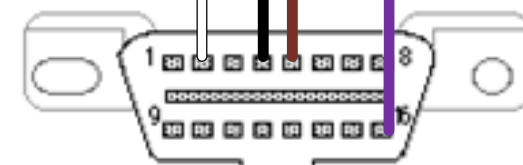
White (DLC 3 OBDII)

Wht/Blk (Ground)

Violet (OBDII Power)



















Ground Point
Passenger Kick
Panel

7.5 amp fused
positive 12v

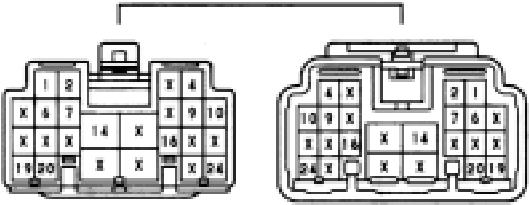


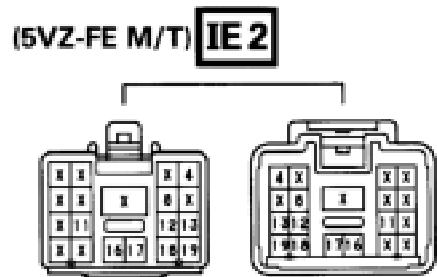
Function










Wire

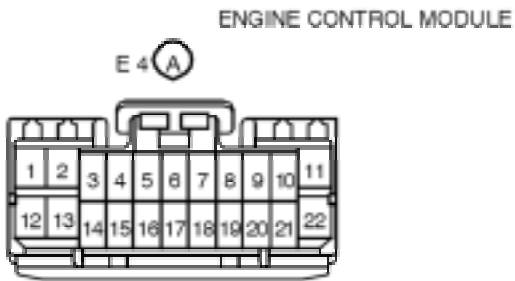
Datalink Connector 1 to ABS Comp (not Used)	1	Red w/ Yellow 
Datalink Connector 1 to ABS Comp (not Used)	2	Black w/ Red 
	3	XXXXXXXXXX
Datalink Connector 3 – OBD II (shielded ground)	4	Brown 
ABS ECU (Not used)	5	Red w/ Black 
Datalink Connector 1 to ABS Comp (not Used)	6	Yellow w/ Black 
Cruise Control (not Used)	7	Yellow w/ Blue 
VSV Vapor Pressure (VSV pigtail) pin 2	8	Lt Green w/ Red 
ABS ECU (Not Used)	9	White w/ Red 
from oil pressure sender to oil gauge (combo Meter)	10	Yellow w/ Blue 
Vapor Pressure Sensor (VSV pigtail) pin 1	11	Brown w/ Black 
Vapor Pressure Sensor (VSV pigtail) pin 3	12	Green w/ Black 
Vapor Pressure Sensor (VSV pigtail) pin 2	13	Red w/ Blue 
Ignition Power (IGN2)	14	Black w/ Red (Larger) 
	15	XXXXXXXXXX
Circuit Opening Relay pin 4 (COR ground)	16	Green w/ Yellow 
	17	XXXXXXXXXX
	18	XXXXXXXXXX
VSV ADD system (not used)	19	White w/ Black 
4WD Detection Switch	20	Pink w/ Green 
	21	XXXXXXXXXX
	22	XXXXXXXXXX
Data Link Connector 1 – (cruise control unused)	23	Black w/ Blue 
From Datalink Conn 1 to ABS (not used)	24	Black w/ Yellow 

(5VZ-FE M/T) **IE 1** DARK GRAY

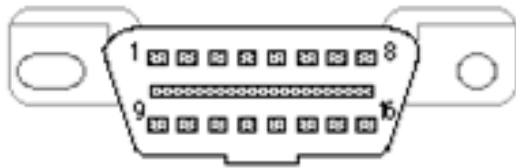

















Function		Wire
	1	XXXXXXXXXX
	2	XXXXXXXXXX
	3	XXXXXXXXXX
VSV EVAP (out to engine compartment) pin 2	4	White w/ Green 
	5	XXXXXXXXXX
	6	XXXXXXXXXX
	7	XXXXXXXXXX
Datalink Conn 1 to ABS Light Comb Meter (not used)	8	Pink w/ Black 
	9	XXXXXXXXXX
	10	XXXXXXXXXX
From A/C Magnetic Clutch to AC amplifier	11	Black w/ White 
From igniter to tachometer (Combo Meter)	12	Black 
Datalink Connector 3 (OBDII) pin 5 (Shielded Ground)	13	Brown 
	14	XXXXXXXXXX
	15	XXXXXXXXXX
Back up light switch (reverse lights)	16	Red w/ White 
Back up light switch (reverse lights)	17	Black w/ Orange 
from Water Temp Sender to water temp gauge (Combo Meter)	18	Yellow w/ Green 
4wd From ADD (not used)	19	Green w/ Yellow 

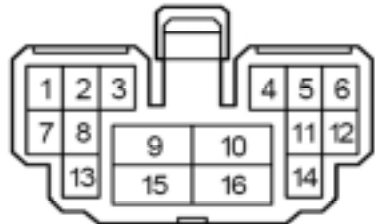


Function	Pin	Wire
	1	XXXXXXXXXX
From 15A EFI Fuse (switched 12v+)	2	Black w/ Green
	3	XXXXXXXXXX
to MIL lamp - check engine light (combo meter)	4	Violet
	5	XXXXXXXXXX
From A/C Amplifier (not rectified yet)	6	Blue w/ Black
From A/C Amplifier (not rectified yet)	7	Black w/ Red
To Speedo Combo Meter (speed sensor)	8	Green
from 4WD Detection Switch (IE1 pin 20)	9	Pink w/ Green
	10	XXXXXXXXXX
From starter Relay <1-2>	11	Black w/ White
VSV EVAP & VSV Vapor Pressure (out to engine Compartment) pin 1 both VSV's	12	White w/ Red
	13	XXXXXXXXXX
	14	XXXXXXXXXX
	15	XXXXXXXXXX
	16	XXXXXXXXXX
	17	XXXXXXXXXX
	18	XXXXXXXXXX
Data Link Connector 3 (OBDII) pin 2 SDL	19	White
From Stop Light Switch	20	Green w/ White
	21	XXXXXXXXXX
	22	XXXXXXXXXX













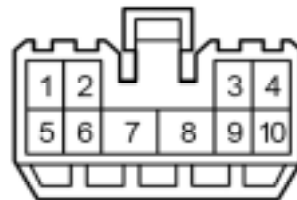
Function	Pin	Wire
	1	XXXXXXXXXX
OBDII Signal (E4 A ECU Conn - Pin 19)	2	White
	3	XXXXXXXXXX
OBDII Ground (passenger lick panel)	4	White w/ Black
Ground Shield (IE2 – pin 13)	5	Brown
	6	XXXXXXXXXX
	7	XXXXXXXXXX
	8	XXXXXXXXXX
	9	XXXXXXXXXX
	10	XXXXXXXXXX
	11	XXXXXXXXXX
	12	XXXXXXXXXX
	13	XXXXXXXXXX
	14	XXXXXXXXXX
	15	XXXXXXXXXX
7.5 amp fuse (auxiliary fuse box or switched 12v + source)	16	Violet

Wire		Function	
XXXXXXXXXX	16		
 Black w/ Red (Large)	15		IGN 2
 Black	14		O2 sensor (unused)
XXXXXXXXXXXX	13		
 Black w Yellow	12		B+ on ECU from efi relay or COR (switched 12v +)
 Brown	11		O2 Sensor ground (unused)
XXXXXXXXXXXX	10		
 Black Large	9		Starter Relay Trigger
 Green	8		COR ground (From AFM to COR pin 4)
 Green w/ Yellow	7		O2 Sensor (unused)
 Blue w White	6		To Tachometer Combometer
 Green w White	5		Stop Light Switch
 Green w yellow	4		BATT ECU (Constant 12v+)
 Brown	3		4wd indicator ground? (Unused)
 Yellow	2		To Check Engine Light (Combometer)
 Blue	1		Fuel Pump Test Lead (unused)



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Wire		Function	
	Light Green	1	4WD Indicator Combometer
	Red	2	Reverse Light + from switch
	Black w White	3	To A/C amplifier from Magnetic clutch
	XXXXXXXXXX	4	
	Green w Red	5	Speed Sensor Combometer
	Red w Black	6	Reverse Light + from fuse
	Yellow w/ Green	7	Temperature Combometer
	Blue w Black	8	Oil Pressure to ComboMeter
	White w Green	9	A/C Idle Up VSV
	White w Red	10	A/C Idle Up VSV



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