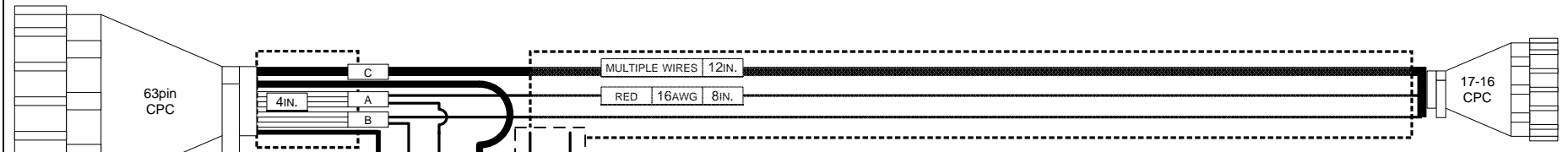
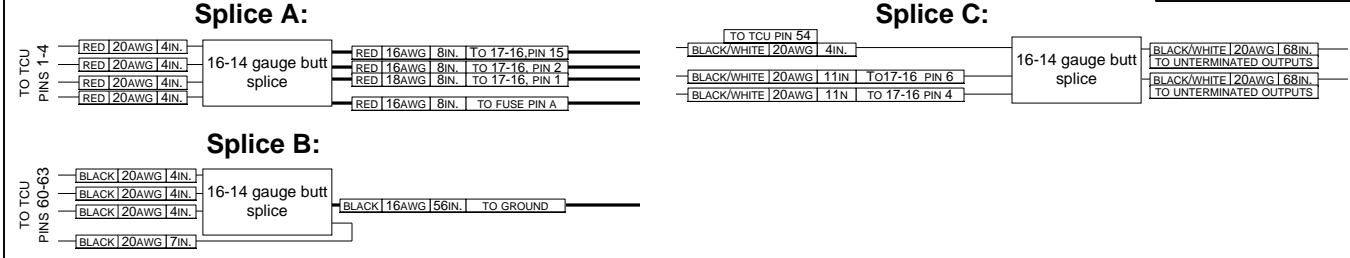


REV.	DESCRIPTION	DATE	BY
0	ORIGINAL REVISION	05/03/2005	JT
1	ADDED SUB-HARNESS DIAGRAMS	5/31/2005	RC
2	COMBINED E4OD/AODE/4R70	1/18/2006	JB

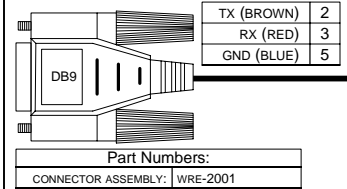


**Part Numbers:**

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

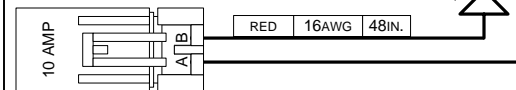
**Part Numbers:**

CONNECTOR:	CON-0022/206037-1
TERMINAL (16-18AWG):	CON-0051/66100-7
SEAL:	CON-0039/213920-2
BACKSHELL:	CON-0004/206070-1



**Part Numbers:**

CONNECTOR ASSEMBLY:	WRE-2001
---------------------	----------



**Part Numbers:**

CONNECTOR ASSEMBLY:	CON-2200/15300027
FUSE CAP:	CON-2201/ES10CAP
TERMINAL(18-16GAUGE)	CON-1016/12048159
TERMINAL(14-12GAUGE)	CON-1017/12129497
CABLE SEAL(20-16GAUGE)	CON-1004/12089679
CABLE SEAL(18-14GAUGE)	CON-1001/12015323
CABLE SEAL(16-12GAUGE)	CON-1002/12010293

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

**Unterminated Wires**

FUNCTION	WIRE COLOR	PIN
SENSOR GND	BLACK/WHITE	54
SENSOR GND	BLACK/WHITE	54
RPM	ORANGE/BLACK	5
SPARE SPEED	ORANGE/LT.GREEN	7
SPEEDOMETER DRIVE	ORANGE/WHITE	9
BRAKE LIGHT	GRAY/LT.BLUE	16
TPS	YELLOW/BLACK	46
MAP	YELLOW/RED	47
CLT	YELLOW/LT.GREEN	48
SPARE DIGITAL 1	GRAY/BLACK	13
SPARE DIGITAL 2	GRAY/RED	14
SPARE DIGITAL 3	GRAY/LT.GREEN	15
SPARE ANALOG	YELLOW/LT.BLUE	49
REF. VOLTAGE	RED/WHITE	58

**17 - 16 PINOUT & CORRESPONDANCE CHART**

TCU POS	PCS WIRE COLOR	FUNCTION	PIN	FORD COLOR
1-4	RED (18AWG)	+12V RANGE SW	1	PURPLE/ORANGE
1-4	RED (16AWG)	+12V SOLENOIDS	2	RED
53	PINK/RED	SHIFT SOL 2	3	PURPLE/ORANGE
54	BLK/WHT	SENSOR GND	4	LT.BLUE/BLK
51	YELL/ORG	TFT HIGH	5	ORANGE/BLK
54	BLK/WHT	SENSOR GND	6	GRAY/RED
36	PINK/LT.GRN	CCS SOL	7	BROWN/ORANGE
6	ORG/RED	4WD/SPEED HI	8	LT.BLUE
50	YEL/WHT	ANALOG RANGE	9	LT.BLUE/YELLOW
-	-	-	10	-
28	VIOLET/RED	TCC SOL	11	PURPLE/YELLOW
-	-	-	12	-
-	-	-	13	-
59	PINK/BLK	SHIFT SOL 1	14	ORANGE/YELLOW
1-4	RED (16AWG)	EPC +12(88-94)	15	WHITE/RED
37	VIOLET/BLK	EPC LOW	16	WHITE/YELLOW

**Powertrain Control Solutions, LLC.**

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Ashland, VA 23005

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

TITLE:

**E4OD HARNESS**

PART #: TCM-4109 (95-97 E4OD)  
TCM-4112 (89-94 E4OD)  
TCM-4116 (92-97 AODE/4R70)

DRAWN BY: **Jim Taylor** DATE: **05/03/2005** PAGE: **2 OF 6**

DESCRIPTION:  
**E4OD, AODE & 4R70  
HARNESS FOR 89-97**

REV.	DESCRIPTION	DATE	BY
0	ORIGINAL REVISION	05/03/2005	JT
1	ADDED SUB-HARNESS DIAGRAMS	5/31/2005	RC
2	COMBINED E4OD/AODE/4R70	1/18/2006	JB

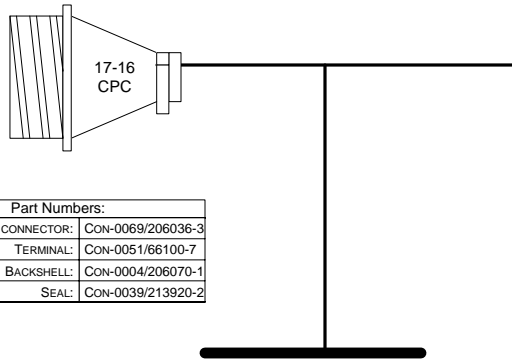
CPC	Pin Function	Harness Function	FORD	colors
1	+12v	Battery Connection	+12v	red
2	+12v	Battery Connection	+12v	red
3	+12v	Battery Connection	+12v	red
4	+12v	Battery Connection	+12v	red
5	Speed Input 1	Engine Speed Input	RPM	orange/black
6	Speed Input 2	Transmission Speed Input	4WD/Speed High	orange/red
7	Speed Input 3	TCC Speed Input	VSS	orange/lt. green
8	Speed Input 4	Optional Speed Input	-	orange/lt. blue
9	Speed Output	Speedometer Drive Output	Speedometer In	orange/white
10	unused	-	-	-
11	unused	-	-	-
12	PWM Out 4/freq2	PWM/Solenoid Driver	-	violet/lt. blue
13	Digital Input 1	Digital Input	Spare Dig 1	gray/black
14	Digital Input 2	Digital Input	Spare Dig 2	gray/red
15	Digital Input 3	Digital Input	Spare Dig 3	gray/lt. green
16	Digital Input 4	Digital Input	Brake Light	gray/lt. blue
17	Digital Input 5	Digital Input	-	gray/white
18	Digital Input 6	Digital Input	-	gray/orange
19	Digital Out 5	Digital Driver	-	pink/white
20	PWM Out 3/freq2	PWM/Solenoid Driver	-	violet/lt. green
21	Digital Input 7	Digital Input	-	gray/yellow
22	Digital Input 8	Digital Input	-	gray/pink
23	Digital Input 9	Digital Input	-	brown/black
24	Digital Input 10	Digital Input	-	brown/red
25	Digital Input 11	Digital Input	-	brown/lt. green
26	Digital Input 12	Digital Input	-	brown/lt. blue
27	Digital Out 6	Digital Driver	-	pink/orange
28	PWM Out 2/freq1	PWM/Solenoid Driver	TCC PWM Sol	violet/red
29	unused	-	-	-
30	RS-232 Transmit	Communications Cable	db9	white/orange
31	RS-232 Receive	Communications Cable	db9	white/lt. blue
32	CAN/RS-232 GND	Communications Cable	db9	white/lt. green
33	CAN High	Communications Cable	-	white/red
34	CAN Low	Communications Cable	-	white/black
35	unused	-	-	-
36	Digital Out 3/PWM 9	Digital Driver	CCS Solenoid	pink/lt. green
37	PWM Out 1/freq 1	PWM/Solenoid Driver	Line Pres	violet/black
38	unused	-	-	-
39	Digital Input 13	Digital Input	-	brown/white
40	Digital Input 14	Digital Input	-	brown/orange
41	Digital Input 15	Digital Input	-	brown/yellow
42	Digital Input 16	Digital Input	-	brown/pink
43	unused	-	-	-
44	Digital Out 4	Digital Driver	-	pink/lt. blue
45	PWM Out 6/freq1	PWM/Solenoid Driver	-	violet/orange
46	Analog Input 1	Analog Input	TPS	yellow/black
47	Analog Input 2	Analog Input	MAP	yellow/red
48	Analog Input 3	Analog Input	CLT	yellow/lt. green
49	Analog Input 4	Analog Input	Spare Analog In	yellow/lt. blue
50	Analog Input 5/temp	Analog Input	Analog Range	yellow/white
51	Analog Input 6/temp	Analog Input	Fluid Temp	yellow/orange
52	Pwm Out 5/freq1	PWM/Solenoid Driver	-	violet/white
53	Digital Out 2/PWM 8	Digital Driver	Shift Solenoid B	pink/red
54	Sensor/AD Gnd	Sensor or reference Gnd	Fluid Temp/VSS	black/white
55	unused	-	-	-
56	unused	-	-	-
57	unused	-	-	-
58	Ref Voltage (+5v)	Sensor/reference Voltage	-	red/white
59	Digital Out 1/PWM 7	Digital Driver	Shift Solenoid A	pink/black
60	Gnd	Battery Connection	Gnd	black
61	Gnd	Battery Connection	Gnd	black
62	Gnd	Battery Connection	Gnd	black
63	Gnd	Battery Connection	Gnd	black

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

Extra wires list	
1	brown/black
2	brown/lt.blue
3	brown/lt.green
4	brown/orange
5	brown/pink
6	brown/red
7	brown/white
8	brown/yellow
9	gray/orange
10	gray/pink
11	gray/white
12	gray/yellow
13	orange/lt.blue
14	orange/lt.green
15	pink/lt.blue
16	pink/orange
17	pink/white
18	violet/lt.blue
19	violet/lt.green
20	violet/orange
21	violet/white

REV.	DESCRIPTION	DATE	BY
0	ORIGINAL REVISION	05/03/2005	JT
1	ADDED SUB-HARNESS DIAGRAMS	5/31/2005	RC
2	COMBINED E4OD/AODE/4R70	1/18/2006	JB

**Optional Connector**



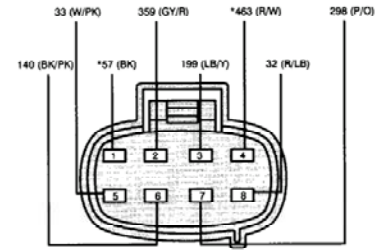
Part Numbers:

CONNECTOR:	CON-0069/206036-3
TERMINAL:	CON-0051/66100-7
BACKSHELL:	CON-0004/206070-1
SEAL:	CON-0039/213920-2

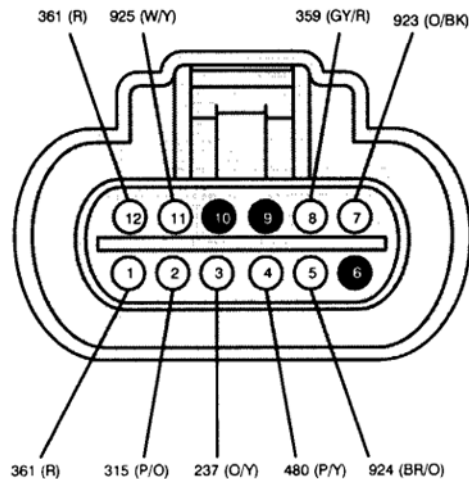
Unterminated Wires	
FUNCTION	COLOR
START CIRCUIT	WHITE/PINK
BACKUP LAMPS FEED	BLACK/PINK
START CIRCUIT TO INTERLOCK MODULE	RED/LT. BLUE
ELECTRONIC SHIFT CONTROL MODULE FEED	RED/WHITE
ELECTRONIC SHIFT CONTROL MODULE GROUND	BLACK

PIN	CIRCUIT FUNCTION	TCU Pos	17-16 Pos
1	GROUND	UNTERM	-
2	SIGNAL RETURN	54	6
3	TRANSMISSION RANGE (TR) POSITION OUTPUT	50	9
4	ELECTRONIC SHIFT CONTROL MODULE FEED	UNTERM	-
5	START CIRCUIT	UNTERM	-
6	BACKUP LAMPS FEED	UNTERM	-
7	HOT IN RUN	1-4	1
8	START CIRCUIT TO INTERLOCK MODULE	UNTERM	-

\* (4X4SHIFT ON THE FLY ONLY)



**C1012 (BLACK)  
 TRANSMISSION RANGE (TR) SENSOR  
 (W/E4OD TRANSMISSION)**



**C1048 (GRAY)  
 E4OD TRANSMISSION**

PIN	CIRCUIT FUNCTION	TCU Pos	17-16 POS
1	POWER FROM PCM RELAY	1-4	2
2	SHIFT SOLENOID 2	53	3
3	SHIFT SOLENOID 1	59	14
4	TORQUE CONVERTER CLUTCH SOLENOID	28	11
5	COAST CLUTCH ASOLENOID	36	7
6	-	-	-
7	TRANSMISSION FLUID TEMPERATURE	51	5
8	SENSOR SIGNAL RETURN	54	6
9	-	-	-
10	-	-	-
11	ELECTRONIC PRESSURE CONTROL POWER -	37	16
12	ELECTRONIC PRESSURE CONTROL +	1-4	2

17 - 16 PINOUT & CORRESPONDANCE CHART					
TCU POS	PCS WIRE COLOR	FUNCTION	PIN	FORD COLOR	WIRE TERMINATION
1-4	RED (18AWG)	+12V RANGE SW	1	PURPLE/ORANGE	C1012 - PIN 7
1-4	RED (16AWG)	+12V SOLENOIDS	2	RED	C1048 - PIN 1,12
53	PINK/RED	SHIFT SOL 2	3	PURPLE/ORANGE	C1048 - PIN 2
54	BLK/WHT	SENSOR GND	4	LT.BLUE/BLK	-
51	YELL/ORG	TFT HIGH	5	ORANGE/BLK	C1048 - PIN 7
54	BLK/WHT	SENSOR GND	6	GRAY/RED	C1048 - PIN 8, C1012 - PIN 2
36	PINK/LT.GRN	CCS SOL	7	BROWN/ORANGE	C1048 - PIN 5
6	ORG/RED	4WD/SPEED HI	8	LT.BLUE	-
50	YEL/WHT	ANALOG RANGE	9	LT.BLUE/YELLOW	C1012 - PIN 3
-	-	-	10	-	-
28	VIOLET/RED	TCC SOL	11	PURPLE/YELLOW	C1048 - PIN 4
-	-	-	12	-	-
-	-	-	13	-	-
59	PINK/BLK	SHIFT SOL 1	14	ORANGE/YELLOW	C1048 - PIN 3
1-4	RED	EPC +12(88-94)	15	WHITE/RED	-
37	VIOLET/BLK	EPC LOW	16	WHITE/YELLOW	C1048 - PIN 11

**Powertrain Control Solutions, LLC.**

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DRAWN BY: Jim Taylor DATE: 5/03/2005 PAGE: 4 OF 5

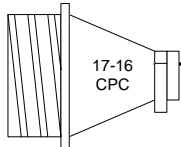
TITLE: **TCU SUB-HARNESS FOR E4OD 1989-1994**

PART NUMBER: **CON-2905**

DESCRIPTION: **TCU SUB-HARNESS FOR E4OD FORD 1989-1994 F250 TRANS.**

REV.	DESCRIPTION	DATE	BY
0	ORIGINAL REVISION	05/03/2005	JT
1	ADDED SUB-HARNESS DIAGRAMS	5/31/2005	RC
2	COMBINED E4OD/AODE/4R70	1/18/2006	JB

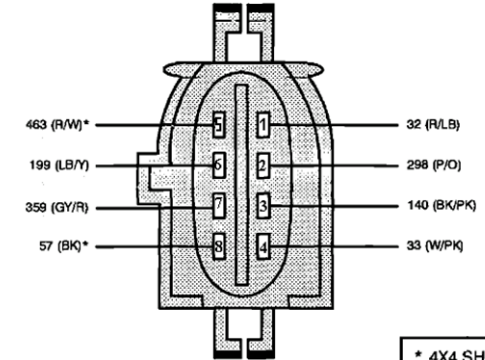
**Optional Connector**



Part Numbers:	
CONNECTOR:	CON-0069/206036-3
TERMINAL:	CON-0051/66100-7
BACKSHELL:	CON-0004/206070-1
SEAL:	CON-0039/213920-2

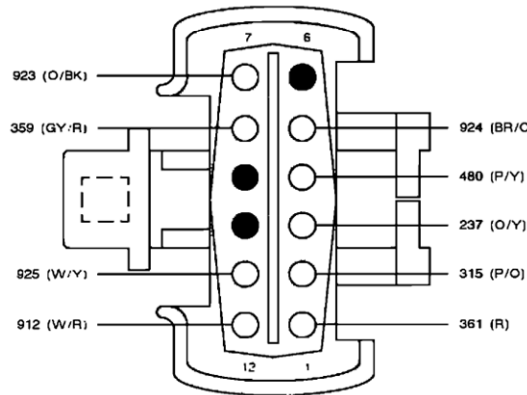
Unterminated Wires	
FUNCTION	COLOR
REVERSE LAMPS	BLACK/PINK
STARTER RELAY POWER	WHITE/PINK
TO STARTER RELAY	RED/LT.BLUE
4x4 SWITCH	RED/WHITE
GROUND	BLACK

PIN	WIRE COLOR	CIRCUIT FUNCTION	TCU Pos	17-16 POS
1	RED/LT.BLUE	STARTER RELAY	UNTERM	-
2	PURPLE/ORANGE	+12 V SOURCE	1-4	1
3	BLACK/PINK	REVERSE LAMPS	UNTERM	-
4	WHITE/PINK	STARTER RELAY POWER	UNTERM	-
5	RED/WHITE	4x4 SWITCH	UNTERM	-
6	LT.BLUE/YELLOW	ANALOG RANGE	50	9
7	GRAY/RED	SENSOR GROUND	54	6
8	BLACK	GROUND	UNTERM	-



**C1012**  
**MANUAL LEVEL POSITION SENSOR**

\* 4X4 SHIFT ON THE FLY ONLY



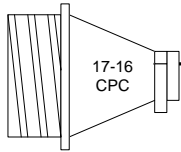
**C1048**  
**E4OD TRANSMISSION**

PIN	CIRCUIT FUNCTION	TCU Pos	17-16 POS
1	POWER FROM EEC RELAY	1-4	2
2	SOLENOID 2 SHIFT SIGNAL	53	3
3	SOLENOID 1 SHIFT SIGNAL	59	14
4	CONVEWRTER CLUTCH CONTROL SOLENOID	28	11
5	COAST CLUTCH SOLENOID	36	7
6	-	-	-
7	TRANSMISSION OIL TEMPERATURE	51	5
8	SENSOR SIGNAL RETURN	54	6
9	-	-	-
10	-	-	-
11	ELECTRONIC PRESSURE CONTROL -	37	16
12	ELECTRONIC PRESSURE CONTROL +	1-4	15

17 - 16 PINOUT & CORRESPONDANCE CHART					
TCU POS	PCS WIRE COLOR	FUNCTION	PIN	FORD COLOR	WIRE TERMINATION
1-4	RED (18AWG)	+12V RANGE SW	1	PURPLE/ORANGE	C1012 - PIN 2
1-4	RED (16AWG)	+12V SOLENOIDS	2	RED	C1048 - PIN 1
53	PINK/RED	SHIFT SOL 2	3	PURPLE/ORANGE	C1048 - PIN 2
54	BLK/WHT	SENSOR GND	4	LT.BLUE/BLK	-
51	YELL/ORG	TFT HIGH	5	ORANGE/BLK	C1048 - PIN 7
54	BLK/WHT	SENSOR GND	6	GRAY/RED	C1048 - PIN 8, C1012 - PIN 7
36	PINK/LT.GRN	CCS SOL	7	BROWN/ORANGE	C1048 - PIN 5
6	ORG/RED	4WD/SPEED HI	8	LT.BLUE	-
50	YEL/WHT	ANALOG RANGE	9	LT.BLUE/YELLOW	C1012 - PIN 6
-	-	-	10	-	-
28	VIOLET/RED	TCC SOL	11	PURPLE/YELLOW	C1048 - PIN 4
-	-	-	12	-	-
-	-	-	13	-	-
59	PINK/BLK	SHIFT SOL 1	14	ORANGE/YELLOW	C1048 - PIN 3
1-4	RED	EPC +12(88-94)	15	WHITE/RED	C1048 - PIN 12
37	VIOLET/BLK	EPC LOW	16	WHITE/YELLOW	C1048 - PIN 11

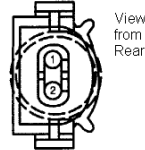
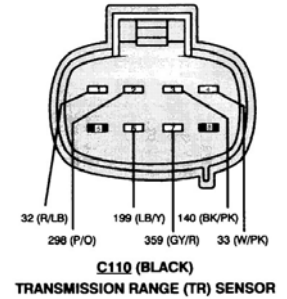
REV.	DESCRIPTION	DATE	BY
0	ORIGINAL REVISION	05/03/2005	JT
1	ADDED SUB-HARNESS DIAGRAMS	5/31/2005	RC
2	COMBINED E4OD/AODE/4R70	1/18/2006	JB

Part Numbers:	
CONNECTOR:	CON-0069/206036-5
TERMINAL:	CON-0051/66098-7
BACKSHELL:	CON-0004/206070-1
SEAL:	CON-0039/213920-2



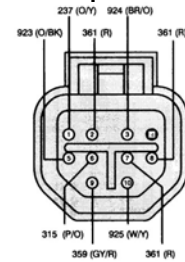
PIN	COLOR	TCU Pos
1	Purple/Orange	C110 Pin 2
2	Red	C132 Pin 2
3	Purple/Blue	C132 Pin 6
4	Gray	C187 Pin 2
5	Orange/Black	C132 Pin 5
6	Gray/Red	C110 Pin 7, C132 Pin 9
7		
8	Dark Green/White	C187 Pin 1
9	Light Blue/Yellow	C110 Pin 6
10		
11	Blue/White	C132 Pin 3
12		
13		
14	Orange/Black	C132 Pin 1
15	Red	C132 Pin 7,8
16	White/Red	C132 Pin 10

PIN	CIRCUIT FUNCTION	COLOR	TCU Pos	17-16 Pos
1	START CIRCUIT	(32)RED/LIGHT BLUE	UNTERMINATED	-
2	POWER (HOT IN RUN)	(298)PURPLE/ORANGE	1-4	1
3	BACKUP LAMP FEED	(140)BLACK/PINK	UNTERMINATED	-
4	START CIRCUIT	(33)WHITE/PINK	UNTERMINATED	-
5	NOT USED	-----	UNTERMINATED	-
6	TRANSMISSION RANGE POSITION OUTPUT	(199)LIGHT BLUE/YELLOW	50	9
7	SIGNAL RETURN	(359)GRAY/RED	54	6
8	NOT USED	-----	UNTERMINATED	-



**C187**  
**OUTPUT SHAFT SPEED (OSS) SENSOR**

PIN	CIRCUIT FUNCTION	COLOR	TCU Pos	17-16 Pos
1	OUTPUT SHAFT SPEED SENSOR SIGNAL TO PCM	DARK GREEN/WHITE	6	8
2	SIGNAL RETURN	GRAY	54	4

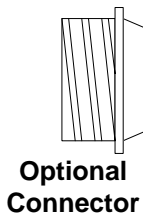


**C132 (WHITE)**  
**4R70W TRANSMISSION**

PIN	CIRCUIT FUNCTION	COLOR	TCU Pos	17-16 Pos
1	SHIFT SOLENOID #1	(237) ORANGE/BLACK	59	14
2	VEHICLE POWER	(361) RED	1-4	2
3	TORQUE CONVERTER CLUTCH SOLENOID (-)	(924)BLUE/WHITE	28	11
4	NOT USED	-----	---	---
5	TRANSMISSION FLUID TEMPERATURE INPUT	(923) ORANGE/BLACK	51	5
6	SHIFT SOLENOID # 2	(315) PURPLE/BLUE	53	3
7	EPC (+)	(361) RED	1-4	15
8	TCC (+)	(361) RED	1-4	15
9	SIGNAL RETURN	(359) GRAY/RED	54	6
10	ELECTRONIC PRESSURE CONTROL SOLENOID (-)	(925) WHITE/RED	37	16

Labeled Unterminated Wires	
Reverse Lamps(Reverse Active)	Black/Pink
Starter Relay(Park&NeutralActive)	Red/Lt. Blue White/Pink

REV.	DESCRIPTION	DATE	BY
0	ORIGINAL REVISION	05/03/2005	JT
1	ADDED SUB-HARNESS DIAGRAMS	5/31/2005	RC
2	COMBINED E4OD/AODE/4R70	1/18/2006	JB



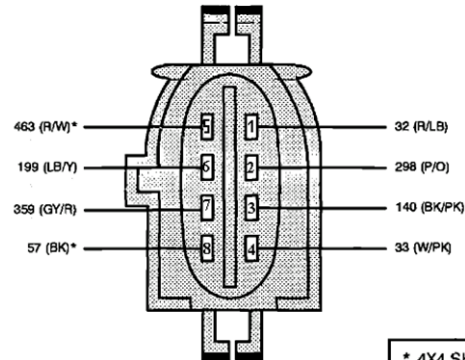
Part Numbers:

CONNECTOR:	CON-0069/206036-3
TERMINAL:	CON-0051/66100-7
BACKSHELL:	CON-0004/206070-1
SEAL:	CON-0039/213920-2

Unterminated Wires

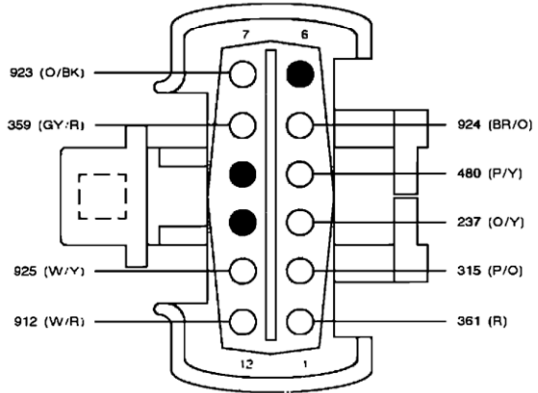
FUNCTION	COLOR
REVERSE LAMPS	BROWN/PINK
STARTER RELAY POWER	BLUE/WHITE
TO STARTER RELAY	RED/BLACK
4X4 SWITCH	WHITE
GROUND	BLACK

PIN	WIRE COLOR	CIRCUIT FUNCTION	TCU Pos	17-16 POS
1	RED/BLACK	STARTER RELAY	UNTERM	-
2	RED	+12 V SOURCE	1-4	1
3	BROWN/PINK	REVERSE LAMPS	UNTERM	-
4	BLUE/WHITE	STARTER RELAY POWER	UNTERM	-
5	WHITE	4X4 SWITCH	UNTERM	-
6	YELLOW/WHITE	ANALOG RANGE	50	9
7	BLACK/WHITE	SENSOR GROUND	54	6
8	BLACK	GROUND	UNTERM	-



**C1012**  
**MANUAL LEVEL POSITION SENSOR**

\* 4X4 SHIFT ON THE FLY ONLY



**C1048**  
**E4OD TRANSMISSION**

PIN	CIRCUIT FUNCTION	TCU Pos	COLOR
1	POWER FROM EEC RELAY	1-4	RED
2	SOLENOID 2 SHIFT SIGNAL	53	PINK/RED
3	SOLENOID 1 SHIFT SIGNAL	59	PINK/BLACK
4	CONVEWRTER CLUTCH CONTROL SOLENOID	28	VIOLET/RED
5	COAST CLUTCH SOLENOID	36	PINK/GREEN
6	-	-	-
7	TRANSMISSION OIL TEMPERATURE	51	YEL/ORANGE
8	SENSOR SIGNAL RETURN	54	BLACK/WHITE
9	-	-	-
10	-	-	-
11	ELECTRONIC PRESSURE CONTROL -	37	VIOLET/BLACK
12	ELECTRONIC PRESSURE CONTROL +	1-4	RED

17 - 16 PINOUT & CORRESPONDANCE CHART

TCU POS	PCS WIRE COLOR	FUNCTION	PIN	FORD COLOR	WIRE TERMINATION
1-4	RED (18AWG)	+12V RANGE SW	1	PURPLE/ORANGE	C1012 - PIN 2
1-4	RED (16AWG)	+12V SOLENOIDS	2	RED	C1048 - PIN 1
53	PINK/RED	SHIFT SOL 2	3	PURPLE/ORANGE	C1048 - PIN 2
54	BLK/WHT	SENSOR GND	4	LT.BLUE/BLK	-
51	YELL/ORG	TFT HIGH	5	ORANGE/BLK	C1048 - PIN 7
54	BLK/WHT	SENSOR GND	6	GRAY/RED	C1048 - PIN 8, C1012 - PIN 7
36	PINK/LT.GRN	CCS SOL	7	BROWN/ORANGE	C1048 - PIN 5
6	ORG/RED	4WD/SPEED HI	8	LT.BLUE	-
50	YEL/WHT	ANALOG RANGE	9	LT.BLUE/YELLOW	C1012 - PIN 6
-	-	-	10	-	-
28	VIOLET/RED	TCC SOL	11	PURPLE/YELLOW	C1048 - PIN 4
-	-	-	12	-	-
-	-	-	13	-	-
59	PINK/BLK	SHIFT SOL 1	14	ORANGE/YELLOW	C1048 - PIN 3
1-4	RED	EPC +12(88-94)	15	WHITE/RED	C1048 - PIN 12
37	VIOLET/BLK	EPC LOW	16	WHITE/YELLOW	C1048 - PIN 11