FPPECM3

CONNECTOR AMP #776164-1
TERMINAL AMP #770520-3

J1 BLACK

INJ +	6	361 R 16	
INJ 1	7	555 T 16	
INJ 2	9	556 W 16	
INJ 3	11	557 BR-Y 16	
INJ 4	8	558 BR-LB 16	
INJ 5	10	559 T-BK 16	
INJ 6	12	560 LG-D 16	
AUX OUT	31	648 W-PK 18	
EGR	21	18 D-Y 18	
AUX ANA P2	19	198 DG-D 18	
MAP	20	398 LG-BK 18	
FPP 1	15	151 LB-BK 18	
IA	22	743 GY 18	
ECT	28	354 LG-R 18	
IVS	17	307 BK-Y 18	
AUX ANA P1	18	150 DG-W 18	
FPP 2	16	114 LB-Y 18	
EGR PWM	23	352 BR-LG 18	
EGR RECIRC	24	360 BR-PK 18	
POWER GROUND	1	570 BK-W 16	
POWER GROUND	2	570 BK-W 16	
ANA_RTN	13	359 GY-R 18	
5 VOLT REF	14	351 BR-W 18	
VSW	3	16 R-LG 18	
EGO 1	24	74 GY-LB 18	
EGO 2	25	94 R-BK 18	
EGO 3	26	392 R-LG 18	
KNK +	29	310 Y-R 18	
KNK -	30	311 DG-P 18	
CRANK +	33	350 GY 18	
CRANK -	32	349 DB 18	
CAM +	35	452 GY-R 18	
CAM -	34	282 DB-O 18	
VBAT	4	37 Y 16	
VBAT	5	37 Y 16	37 Y 18

TWIST 10 (360 DEG) TURNS/FOOT MIN FULL LENGTH

HO2S #3
CAT. MONITOR

361A R 16
570 BK-W 16
392 R-LG 18
359 GY-R 18

1F1T-14A464-FA CONN
F67B-14487-AA TERM
E6DB-14A468-AA LOCK

F4SB-14A464-AJC CONN
E6DB-14A468-AA LOCK
F67B-14487-AA TERM

361A R 16
570 BK-W 16
94 R-BK 18
359 GY-R 18

HO2S #2

F4SB-14A464-AJC CONN
E6DB-14A468-AA LOCK
F67B-14487-AA TERM

361A R 16
570 BK-W 16
74 GY-LB 18
359 GY-R 18

HO2S #1

282 DB-O 18
452 GY-R 18

F6VB-14A464-EA CONN
F0CB-14474-AA TERM
F4SB-14603-EA SEAL
F0CB-14A468-AA LOCK

CAM

349 DB 18
350 GY 18

F6VB-14A464-EA CONN
F0CB-14474-AA TERM
F4SB-14603-EA SEAL
F0CB-14A468-AA LOCK

CRANK

310 Y-R 18
311 DG-P 18

97BG-14A624-YB8 CONN
97BG-14421-AHA TERM
97BG-10C930-BA SEAL

KNOCK

CONNECTOR AMP #776164-4
TERMINAL AMP #770520-3

J2 GREY

SPK PWR GROUND	4	570 BK-W 16	
COIL 1	1	850 Y-BK 18	
COIL 2	2	851 Y-R 18	
COIL 3	3	852 Y-W 18	
COIL 4	13		
COIL 5	24		
COIL 6	25		
STARTER LOCKOUT	22	342 LG-P 18	
FUEL LOCKOUT	23	242 BG 18	
FUEL PUMP	9	926A LB-O 18	
RELAY CONTROL	32	15 R-Y 18	
TPS1	30	355 GY-W 18	
TPS2	31	357 Y-W 18	
DBW 1	28	151 LB-BK 18	
DBW 2	29	317 GY-O 18	
BRAKE SWITCH	6	511 LG-R 18	
OIL PRESSURE	7	253 DG-W 18	
TACH	8	11 T-Y 18	
MIL	27	658 PK-LG 18	
FUEL PUMP MON	10	238 DG-Y 18	
AUX OUT	5	71 O-LG 18	
FUEL SELECT	14	72 Y-BK 18	
AUX ANA P1	15	148 Y-R 18	
GDV SELECT 1	16	306 T-LB 18	
GDV SELECT 2	17	307 BK-Y 18	
ROAD SPEED +	11	169 LG-BK 18	
ROAD SPEED -	12	172 LB-R 18	
GASCOUS TRIM	26		
OVERSPEED	33		
CAN +	18	662 DG-P 18	
CAN -	19	459 O-LG 18	
RS 485 +	20		
RS 485 -	21		
RS 232 TX	34	669 DG-W 18	
RS 232 RX	35		
		458 O-BK 18	

TWIST 10 (360 DEG) TURNS/FOOT MIN FULL LENGTH

IGNITION COIL

361A R 16
851 Y-R 18
852 Y-W 18
850 Y-BK 18

VBATT
COIL 2
COIL 3
COIL 1

4 3 2 1

YF1T-14A464-CA CONN
97BG-14474-ACA TERM
XV43-14603-AA SEAL 18 GA
XV4T-14603-FA SEAL 16 GA

WPTWR2
LOCKOFF SOLENOID

PWR
A
B

242 BG 18
16 R-LG 18

PED_12015792 CONNECTOR
PED_12124580 TERM FEMALE (14/16 AWG)
PED_12089188 TERM FEMALE (18/20 AWG)
PED_12015323 SEAL

BOSCH KOMPAKT 1 928 403 736 CONN
1 928 498 060 TERMINAL
1 928 300 599 SEAL

358 LG-BK 18
351 BR-W 18
743 GY 18
359 GY-R 18

BOSCH_TMAP

354 LG-R 18

359 GY-R 18

F65B-14A464-JB CONN
F5AB-14474-AA TERM
F75B-14603-BA SEAL

CHT

355 GY-W 18
357 Y-W 18
151 LB-BK 18
317 GY-O 18
351 BR-W 18
359 GY-R 18

BOSCH THROTTLE

AMP_1-967616-1 CONNECTOR
AMP_965906-5 TERMINAL
AMP_967067-1 SEAL

253 DG-W 18

F65B-14A464-CA CONN
F57B-14474-HA TERM
F7S8-14603-CA SEAL

OIL_4.2L

D-89

31 W-R 18

OIL
PRESSURE

PED_12015798 CONNECTOR
PED_12089040 TERMINAL MALE
PED_12015323 SEAL

359 GY-R 18 D TWR RTN
351 BR-W 18 C 5V
669 DG-W 18 B TX
458 O-BK 18 A RX

FPP_COMM

OMRON G8JN-1C6T-F-DC12 RELAY
PED_12077951 CONN
PED_12020156 TERM (14-20 AWG)
PED_12033997 TERM (12-14 AWG)

STARTER_RELAY

32 R-LG 16
30
87A
87
32A R-LG 16
33 W-PK 16

16 R-LG 18
86
342 LG-P 18
85

RELAY_OMRON_FPP

OMRON G8JN-1C6T-F-DC12 RELAY
PED_12077951 CONN
PED_12020156 TERM (14-20 AWG)
PED_12033997 TERM (12-14 AWG)

FUEL_PUMP_RELAY

37 Y 14
30
87
787 PK-BK 16
F4
15A
787A PK-BK 16
16 R-LG 18
86
926A LB-O 18
85

PED_12066681 HOLDER
PED_12033731 COVER
PED_12033997 TERM

RELAY_OMRON_FPP

OMRON G8JN-1C6T-F-DC12 RELAY
PED_12077951 CONN
PED_12020156 TERM (14-20 AWG)
PED_12033997 TERM (12-14 AWG)

POWER_RELAY

37 Y 14
30
87
361 R 16
F5
15A
361A R 16
37 Y 16
86
15 R-Y 18
85

PED_12066681 HOLDER
PED_12033731 COVER
PED_12033997 TERM

RELAY_OMRON_FPP

361 R 16 2
555 T 16 1
556 W 16 4
557 BR-Y 16 16
558 BR-LB 16 12
559 T-BK 16 11
560 LG-D 16 13
39 R-W 18 3
570 BK-W 18 15
10
11
12
13
14
15
16

INJ +
INJ 1
INJ 2
INJ 3
INJ 4
INJ 5
INJ 6
DASH ECT
GROUND

F2TB-14A464-HA CONN
F2AB-14A468-CA SPACER
F7EB-14487-AA TERM (18-20 AWG)
F2UB-14487-AA TERM (14-16 AWG)
F6HT-14A666-HA PLUG

FORD 42 PIN CONNECTOR
F2V9-14A464-LA CONN
F6EB-14487-AA TERM (DR L9.34,L42)
F2UB-14487-AA TERM (ALL OTHER 14-16 AWG)
F7EB-14487-AA TERM (ALL 18-20 AWG)
F1VB-14A468-BA SPACER (2 REQD)
F1VB-14A468-AA SPACER (1 REQD)
F6HT-14A666-HA PLUG (SMALL CAVITY)
F6HT-14A666-GA PLUG (LARGE CAVITY)

39 R-W 18
307 BK-Y 18
151 LB-BK
16 WATER TEMP
25 IVS
14 FPP1

570 BK-W 16
570 BK-W 16
570 BK-W 16
570 BK-W 12
F1
30A
570 BK-W 12
34 GROUND

PED_12033769 HOLDER
PED_12033731 COVER
PED_12033997 TERM

16 R-LG 18
F2
5A
16 R-LG 18
16 R-LG 18
1 VSW

PED_12066681 HOLDER
PED_12033731 COVER
PED_12033997 TERM

37 Y 14
F3
20A
37 Y 14
37 Y 14
9 VBATT

PED_12033769 HOLDER
PED_12033731 COVER
PED_12033997 TERM

37 Y 14

648 W-PK 18
18 O-Y 18
198 DG-D 18
27 AUX OUT2
38 EGR ANA IN
32 ANA AUX PD1

150 DG-W 18
114 LB-Y 18
352 BR-LG 18
360 BR-PK 18
359 GY-R 18
351 BR-W 18
37 ANA AUX PU1
12 FPP2
40 EGR PWM
41 EGR REC
33 ANA RTN
31 VREF

26 OIL PRES
4 BRAKE
2 TACH
6 MIL
39 AUX OUT1
7 FUEL SELECT
10 AUX ANA PU2
24 GDV SELECT 1
23 GDV SELECT 2
35 ROADSPEED +
36 ROADSPEED -
28 CAN +
29 CAN -
11 RS 232+
3 RS 232-
13 STARTER CONTROL
15 START IN INTERRUPT
19 START IN AUTOCRANK
5 FUEL PUMP

31 W-R 18
511 LG-R 18
11 T-Y 18
658 PK-LG 18
71 O-LG 18
72 Y-BK 18
148 Y-R 18
306 T-LB 18
307 BK-Y 18
169 LG-BK 18
172 LB-R 18
662 DG-P 18
459 O-LG 18
669 DG-W 18
458 O-BK 18
32 R-LG 16
32A R-LG 16
33 W-PK 16
787A PK-BK 16

238 DG-Y 18

MEGAJECTOR INTERFACE

PED_12015024 CONN
12089305 TRM MALE 14/16
12089040 TRM MALE 18/20

PED_12015798 CONN
12124580 TRM FEMALE 14/16
12089188 TRM FEMALE 18/20

TWIST 10 (360 DEG) TURNS/FOOT MIN FULL LENGTH

662 DG-P 18
459 O-LG 18
361A R 16
570 BK-W 16

TWR
D
C
B
A

PLUG (CAN+)
PLUG (CAN-)
PLUG (RELAY POWER)
PLUG (GROUND)

WPSHDSQ4

WPTWRSQ4

NOTES:
ALL WIRE IS SAE J1128 TXL TYPE
HARNESS TO BE LABELED WITH ECI PART NUMBER AND REVISION
HARNESS TO BE LABELED WITH FORD PART NUMBER 3U1E-12A690-AA

REVISIONS

REV.	DESCRIPTION	APPROVAL	DATE
A	PRODUCTION RELEASE	JLS	9/24/03

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EControls Inc

DRAWN BY: J. SUTTON		CHK BY:	
SHEET 1	OF1	APPROVED:	
DATE: 9/24/2003		DATE:	
FORD POWER PRODUCTS 4.2L / 2004			
USED ON:		DRAWING NUMBER E1305200	REVISION A