

Harness Specification

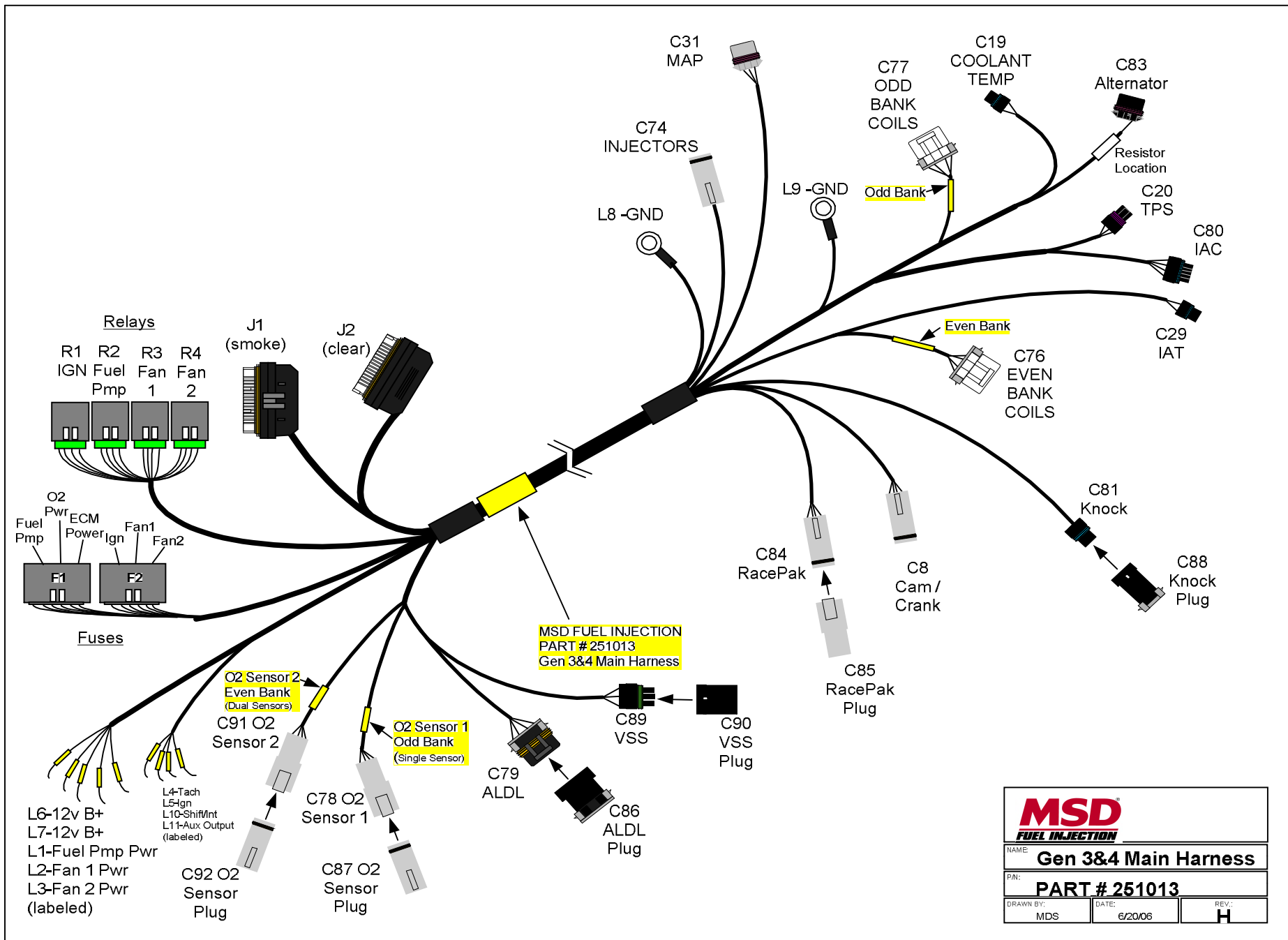


P/N: **251013**

REV:

I

NAME: **Gen 3&4 Main Harness**



MSD
FUEL INJECTION

NAME: Gen 3&4 Main Harness		
P/N: PART # 251013		
DRAWN BY: MDS	DATE: 6/20/06	REV: H

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Rev:

I

Name: Gen 3&4 Main Harness

C8

Pin	Function	Color	Dest1
1	CRANK/CAM SENSOR POWER 12V	Red/Wht	J2-17
2	CRANK/CAM SENSOR GND	Blk/Wht	J2-18
3	CRANK/CAM SENSOR POWER 5V	Gry	J2-22
4	CAM SENSOR SIGNAL	Brn/Wht	J2-32
5	CRANK SENSOR SIGNAL	Blu/Wht	J2-16
6	SEALING PLUG		

C19

Pin	Function	Color	Dest1
A	SENSOR GROUND	Blk	J2-3
B	WATER TEMP. SIGNAL	Ylw/Blk	J2-7

C20

Pin	Function	Color	Dest1
A	TPS VREF (5v)	Gry	J2-2
B	TPS GROUND	Blk	J2-3
C	TPS SIGNAL	Dk Blu/wht	J2-23

C29

Pin	Function	Color	Dest1
A	INTAKE AIR TEMP. SIGNAL	Lt Brn	J2-21
B	SENSOR GROUND	Blk	J2-3

C31

Pin	Function	Color	Dest1
A	SENSOR GROUND	Blk	J2-3
B	MAP SIGNAL	Lt Grn	J2-8
C	SENSOR POWER	Gry	J2-2

C74

Pin	Function	Color	Dest1
1	INJECTOR POWER, EVEN	pnk	F2-B
2	TRIGGER, INJECTOR (ODD) A	grn	J1-26
3	TRIGGER, INJECTOR (EVEN) B	blu	J1-11
4	INJECTOR POWER, ODD	pnk	F2-B

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C76

Pin	Function	Color	Dest1
A	COIL GROUND, EVEN (R)	blk/wht	L8
B	TRIGGER, COIL 2	red/wht	J2-14
C	TRIGGER, COIL 4	grn/wht	J2-28
D	cavity plug n/c		
E	EST SPARK RETURN, EVEN (R)	brn	J1-13
F	TRIGGER, COIL 6	lt blu/wht	J2-29
G	TRIGGER, COIL 8	ppl/wht	J2-15
H	COIL POWER, EVEN (R)	pnk	F2-B

Connector Name

EVEN COILS (R)

Label

EVEN COILS

C77

Pin	Function	Color	Dest1
A	COIL GROUND, ODD (L)	blk/wht	L8
B	TRIGGER, COIL 7	red	J2-30
C	TRIGGER, COIL 5	dk grn	J2-13
D	cavity plug n/c		
E	EST SPARK RETURN, ODD (L)	brn	J1-13
F	TRIGGER, COIL 3	lt blu	J2-12
G	TRIGGER, COIL 1	ppl	J2-31
H	COIL POWER, ODD (L)	pnk/blk	F2-B

Connector Name

ODD COILS (L)

Label

ODD COILS

C78

Pin	Function	Color	Dest1
1	SIGNAL - ODD BANK	tan	J2-6
2	CLEAN GROUND	blk	J2-3
3	IGNITION	pnk	F1-D
4	DIRTY GROUND	blk/wht	L8

Connector Name

O2 Sensor 1

Label

WIDEBAND O2

C79

Pin	Function	Color	Dest1
A	GROUND	blk/wht	L9
B	cavity plug n/c		
C	CAN HI	grn	J2-24
D	CAN LO	ylw	J2-9
E	cavity plug n/c		
F	B+ 12V	org	F2-B
G	SERIAL DATA	org/blk	J2-10
H	cavity plug n/c		
J	cavity plug n/c		
K	SWITCHED IGNITION	pnk	F2-B

Connector Name

ALDL

Label

ALDL

C80

Pin	Function	Color	Dest1
A	IAC B LOW	grn/blk	J1-15
B	IAC B HIGH	grn/wht	J1-30
C	IAC A LOW	blu/blk	J1-31
D	IAC A HIGH	blu/wht	J1-16

Connector Name

IAC

Label

IAC

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C81

Connector Name

Knock 1

Label

Knock 1

Pin

Function

Color

Dest1

A KNOCK SENSOR 1
 B KNOCK SENSOR 2

dk blu J1-17
 lt blu J1-1

C83

Connector Name

Alternator

Label

Alternator

Pin

Function

Color

Dest1

A Excitation Resistor - 100 - 300 ohms / 5 watt
 ALTERNATOR EXCITE (IGN)

red

C84

Connector Name

RACEPAK

Label

RACEPAK

Pin

Function

Color

Dest1

A SENSOR GROUND
 B SENSOR POWER (5v)
 C OIL TEMP. SIGNAL
 D OIL PRESS. SIGNAL
 E FUEL PRESS. SIGNAL
 F SEALING PLUG

blk J2-3
 gry J2-2
 lt blu/blk J2-26
 dk brn J2-20
 grn J2-4

C85

Connector Name

RACEPAK PLUG

Label

Pin

Function

Dest1

A Cavity Plug N/C
 B Cavity Plug N/C
 C Cavity Plug N/C
 D Cavity Plug N/C
 E Cavity Plug N/C
 F Cavity Plug N/C

C86

Connector Name

ALDL PLUG

Label

Pin

Function

Dest1

A Cavity Plug N/C
 B Cavity Plug N/C
 C Cavity Plug N/C
 D Cavity Plug N/C
 E Cavity Plug N/C
 F Cavity Plug N/C
 G Cavity Plug N/C
 H Cavity Plug N/C
 J Cavity Plug N/C
 K Cavity Plug N/C

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C87

Pin	Function
1	Cavity Plug N/C
2	Cavity Plug N/C
3	Cavity Plug N/C
4	Cavity Plug N/C

Connector Name

O2 PLUG

Label

Dest1

C88

Pin	Function
A	Cavity Plug N/C
B	Cavity Plug N/C

Connector Name

KNOCK PLUG

Label

Dest1

C89

Pin	Function
A	12v Sensor Power
B	Ground
C	VSS Signal

Connector Name

VSS

Label

Color	Dest1
red	F2-B
Blk/wht	L-9
ylw	J2-25

C90

Pin	Function
A	Cavity Plug N/C
B	Cavity Plug N/C
C	Cavity Plug N/C

Connector Name

VSS Plug

Label

Dest1

C91

Pin	Function
1	SIGNAL - EVEN BANK
2	CLEAN GROUND
3	IGNITION
4	DIRTY GROUND

Connector Name

O2 Sensor 2

Label

WIDEBAND O2

Color	Dest1
ppl	J2-22
blk	J2-3
pnk/blk	F1-D
blk/wht	L8

C92

Pin	Function
1	Cavity Plug N/C
2	Cavity Plug N/C
3	Cavity Plug N/C
4	Cavity Plug N/C

Connector Name

O2 PLUG

Label

Dest1

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Connector Name

FUSE

Label

FUSE 1

F1

Pin	Function	Color	Dest1	Fuse Size
A	B+ Power	red/dk grn	R2-87	15 AMP
B	Fuel Pump Power	org/dk grn	L1	
C	Ign Power	pnk	R1-87	15 AMP
D	O2 Sensor Power	pnk	C78-3/C91-3	
E	B+ Power	org	L6	15 AMP
F	B+ Power to controller	org	J2-1	

Connector Name

FUSE 1

Label

IGN FUSE

F2

Pin	Function	Color	Dest1	Fuse Size
A	Ign Power	pnk	R1-87	15 AMP
B	COIL POWER, EVEN (R)	pnk	C76-H	
B	COIL POWER, ODD (L)	pnk	C77-H	
B	INJECTOR POWER EVEN	pnk	C74-1	
B	INJECTOR POWER ODD	pnk	C74-4	
B	ALDL POWER B+ 12v	pnk	C79-F	
B	ECM IGNITION INPUT	pnk	J2-19	
C	B+ Power	red/lt blu	R3-87	30 AMP
D	Fan 1 Power	org/lt blu	L2	
E	B+ Power	red/dk blu	R4-87	30 AMP
F	Fan 2 Power	org/dk blu	L3	

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L1	Lead - Fuel Pump Power
L2	Lead - Fan 1 Power
L3	Lead - Fan 2 Power
L4	Lead - Tach Signal
L5	Lead - Ignition Switch
L6	B+ for Ignition and Fuel Pump Relays
L7	B+ for Fan 1 and 2 Relays
L8	Ground - Dirty for coils (3/8" Ring Terminal)
L9	Ground - Clean for ECM (3/8" Ring Terminal)
L10	Lead - Shift Interupt
L11	Lead - Aux Output

Color	Dest1
org/dk grn	F1-B
org/lt blu	F2-D
org/dk blu	F2-F
wht	J1-14
pnk	R1-86
red	R1-30/R2-30
red	R3-30/R4-30
blk	n/a
blk	n/a
org/wht	J1-20
gry/blk	J1-7

R1

Connector Name IGNITION RELAY Label IGNITION

Pin	Function	Color	Dest1
30	L6 - Batt B+	org	
85	Gnd/ Block	blk/wht	L9
86	Ignition Switch	pnk	L5
87-A	cavity plug n/c		
87	B+ Power OUT	pnk	F2-A

R2

Connector Name FUEL PUMP RELAY Label FUEL PUMP

Pin	Function	Color	Dest1
30	Batt B+	org	L6
85	Fuel Pump	dk grn/wht	J1-6
86	Ignition	pnk	F2-B
87-A	cavity plug n/c		
87	B+ Power OUT	red/dk grn	F1-A

R3

Connector Name FAN 1 RELAY Label FAN 1

Pin	Function	Color	Dest1
30	L7 - Batt B+	org	L7
85	Fan 1	lt blu	J1-22
86	Ignition	pnk	F2-B
87-A	cavity plug n/c		
87	B+ Power OUT	red/lt blu	F2-C

R4

Connector Name FAN 2 RELAY Label FAN 2

Pin	Function	Color	Dest1
30	Batt B+	org	L7
85	Fan 2	dk blu	J1-12
86	Ignition	pnk	F2-B
87-A	cavity plug n/c		
87	B+ Power OUT	red/dk blu	F2-E

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Connector Name

MEFi J1

Label

J1

J1

PIN	Function
J1-1	Knock Sensor 2
1 J1-2	ALDL
2 J1-6	Fuel Pump
3 J1-7	RPM/CHG
4 J1-8	Buzzer
5 J1-9	Ck/Gauge
6 J1-10	Data LO
7 J1-11	TRIGGER, INJECTOR B
8 J1-12	Fan 2
9 J1-13	Ground 3
10 J1-14	Tach
J1-15	IAC COIL B LOW (IAC TERMINAL A)
J1-16	IAC COIL A HIGH (IAC TERMINAL D)
J1-17	Knock Sensor 1
11 J1-18	Oil Level Signal
J1-20	Shift Interrupt
12 J1-22	Fan 1
13 J1-24	Oil Lamp
14 J1-26	TRIGGER, INJECTOR A
15 J1-27	MIL
16 J1-28	Ground 1
17 J1-29	Ground 2
J1-30	IAC COIL B HIGH (IAC TERMINAL B)
J1-31	IAC COIL A LOW (IAC TERMINAL C)

Must go to L9

Must go to L9

Must go to L9

18

Connector Name

MEFi J2

Label

J2

J2

PIN	Function
24 J2-1	Batt B+ from L6
25 J2-2	SENSOR POWER 5v
26 J2-3	SENSOR GROUND
27 J2-4	FUEL PRESS. SIGNAL
28 J2-6	O2-1 HI/B
29 J2-7	COOLANT TEMP. SIGNAL
30 J2-8	MAP SIGNAL
31 J2-9	Can Lo
32 J2-10	Serial Data "G"
33 J2-12	TRIGGER, COIL 3 Cyl 3 (EST H)
34 J2-13	TRIGGER, COIL 5 Cyl 5 (EST F)
35 J2-14	TRIGGER, COIL 2 Cyl 2 (EST D)
36 J2-15	TRIGGER, COIL 8 Cyl 8 (EST B)
37 J2-16	CRANK SENSOR SIGNAL
38 J2-17	SENSOR POWER 12v
39 J2-18	SENSOR GROUND
40 J2-19	Ignition from F2
41 J2-20	OIL PRESS. SIGNAL
42 J2-21	INTAKE AIR TEMP. SIGNAL
43 J2-22	O2-2 HI/B
44 J2-23	TPS SIGNAL
45 J2-24	Can Hi
46 J2-25	VSS
47 J2-26	OIL TEMP. SIGNAL
48 J2-28	TRIGGER, COIL 4 Cyl 4 (EST G)
49 J2-29	TRIGGER, COIL 6 Cyl 6 (EST E)
50 J2-30	TRIGGER, COIL 7 Cyl 7 (EST C)
51 J2-31	TRIGGER, COIL 1 Cyl 1 (EST A)
52 J2-32	CAM SYNC SENSOR SIGNAL