

MIL STATUS Off
MIL STATUS Off
ABSLT TPS(%) 32.9
ENG SPEED(RPM) 2101
ENG SPEED(RPM) 2111
CALC LOAD(%) 91.0
MAF(LB/M) 6.40
MAP("HG) 27.2
COOLANT(°F) 181
COOLANT(°F) 181
IAT(°F) 12
IGN ADV(°) 21.5
ST FTRM1(%) 3.9
ST FTRM2(%) 3.1
LT FTRM1(%) 2.3
LT FTRM2(%) 2.3
VEH SPEED(MPH) 69
VEH SPEED(MPH) 69
FUEL SYS 1 CLSD
FUEL SYS 2 CLSD
REL TPS(%) 4.7
O2S12(V) 0.870
ST FTRM12(%) -24.2
O2S22(V) 0.855
ST FTRM22(%) -14.8
EQ RATIO11 1.130
O2S11(mA) 0.398
EQ RATIO21 1.073
O2S21(mA) 0.195
MIL DIST(mi) 0
OBD2 STAT CA

FRAME: -1 TM: -5.7

MIL STATUS(\$01) Off
MIL STATUS(\$08) Off
ABSLT TPS(%) 27.8
ENG SPEED(\$01) 2124
ENG SPEED(\$08) 2134
CALC LOAD(%) 76.1
MAF(LB/M) 4.90
MAP("HG) 21.6

COOLANT(\$01) 183
COOLANT(\$08) 183
IAT(°F) 14
IGN ADV(°) 29.0
ST FTRM1(%) 4.7
ST FTRM2(%) 5.5
LT FTRM1(%) 2.3
LT FTRM2(%) 2.3
VEH SPEED(\$01) 69
VEH SPEED(\$08) 69
FUEL SYS 1 CLSD
FUEL SYS 2 CLSD
REL TPS(%) 14.1
O2S12(V) 0.555
ST FTRM12(%) 3.1
O2S22(V) 0.575
ST FTRM22(%) 3.9
EQ RATIO11 1.009
O2S11(mA) -0.086
EQ RATIO21 0.988
O2S21(mA) 0.000
MIL DIST(mi) 0
OBD2 STAT CA

FRAME: 0 TM: 0.0

MIL STATUS Off
MIL STATUS Off
ABSLT TPS(%) 22.4
ENG SPEED(RPM) 2148
ENG SPEED(RPM) 2152
CALC LOAD(%) 59.2
MAF(LB/M) 3.79
MAP("HG) 17.7
COOLANT(°F) 183
COOLANT(°F) 183
IAT(°F) 14
IGN ADV(°) 30.0
ST FTRM1(%) 3.9
ST FTRM2(%) 5.5
LT FTRM1(%) 2.3
LT FTRM2(%) 2.3
VEH SPEED(MPH) 69
VEH SPEED(MPH) 69

FUEL SYS 1 CLSD
FUEL SYS 2 CLSD
REL TPS(%) 13.7
O2S12(V) 0.655
ST FTRM12(%) 4.7
O2S22(V) 0.470
ST FTRM22(%) 5.5
EQ RATIO11 0.986
O2S11(mA) -0.043
EQ RATIO21 0.997
O2S21(mA) -0.031
MIL DIST(mi) 0
OBD2 STAT CA

FRAME: 1 TM: 5.3

MIL STATUS(\$01) Off
MIL STATUS(\$08) Off
ABSLT TPS(%) 22.4
ENG SPEED(\$01) 2154
ENG SPEED(\$08) 2156
CALC LOAD(%) 59.2
MAF(LB/M) 3.77
MAP("HG) 17.4
COOLANT(\$01) 183
COOLANT(\$08) 183
IAT(°F) 16
IGN ADV(°) 30.5
ST FTRM1(%) 4.7
ST FTRM2(%) 5.5
LT FTRM1(%) 2.3
LT FTRM2(%) 2.3
VEH SPEED(\$01) 69
VEH SPEED(\$08) 69
FUEL SYS 1 CLSD
FUEL SYS 2 CLSD
REL TPS(%) 13.7
O2S12(V) 0.680
ST FTRM12(%) 5.5
O2S22(V) 0.600
ST FTRM22(%) 5.5
EQ RATIO11 0.996
O2S11(mA) 0.074
EQ RATIO21 1.002

O2S21(mA) -0.063
MIL DIST(mi) 0
OBD2 STAT CA

FRAME: 2 TM: 10.6

MIL STATUS Off
MIL STATUS Off
ABSLT TPS(%) 22.4
ENG SPEED(RPM) 2153
ENG SPEED(RPM) 2157
CALC LOAD(%) 60.0
MAF(LB/M) 3.82
MAP("HG) 18.0
COOLANT(°F) 181
COOLANT(°F) 181
IAT(°F) 18
IGN ADV(°) 30.0
ST FTRM1(%) 4.7
ST FTRM2(%) 5.5
LT FTRM1(%) 2.3
LT FTRM2(%) 2.3
VEH SPEED(MPH) 69
VEH SPEED(MPH) 69
FUEL SYS 1 CLSD
FUEL SYS 2 CLSD
REL TPS(%) 14.5
O2S12(V) 0.655
ST FTRM12(%) 4.7
O2S22(V) 0.685
ST FTRM22(%) 5.5
EQ RATIO11 0.995
O2S11(mA) -0.031
EQ RATIO21 0.996
O2S21(mA) -0.031
MIL DIST(mi) 0
OBD2 STAT CA

FRAME: 3 TM: 15.9

MIL STATUS(\$01) Off
MIL STATUS(\$08) Off

ABSLT TPS(%) 22.7
ENG SPEED(\$01) 2150
ENG SPEED(\$08) 2150
CALC LOAD(%) 63.5
MAF(LB/M) 4.10
MAP("HG) 18.9
COOLANT(\$01) 181
COOLANT(\$08) 181
IAT(°F) 18
IGN ADV(°) 29.0
ST FTRM1(%) 4.7
ST FTRM2(%) 5.5
LT FTRM1(%) 2.3
LT FTRM2(%) 2.3
VEH SPEED(\$01) 69
VEH SPEED(\$08) 69
FUEL SYS 1 CLSD
FUEL SYS 2 CLSD
REL TPS(%) 14.5
O2S12(V) 0.650
ST FTRM12(%) 4.7
O2S22(V) 0.495
ST FTRM22(%) 5.5
EQ RATIO11 0.993
O2S11(mA) 0.008
EQ RATIO21 1.001
O2S21(mA) -0.043
MIL DIST(mi) 0
OBD2 STAT CA

FRAME: 4 TM: 21.2

MIL STATUS Off
MIL STATUS Off
ABSLT TPS(%) 23.1
ENG SPEED(RPM) 2149
ENG SPEED(RPM) 2152
CALC LOAD(%) 63.9
MAF(LB/M) 4.15
MAP("HG) 19.2
COOLANT(°F) 181
COOLANT(°F) 181
IAT(°F) 18
IGN ADV(°) 29.0

ST FTRM1(%) 4.7
ST FTRM2(%) 5.5
LT FTRM1(%) 2.3
LT FTRM2(%) 2.3
VEH SPEED(MPH) 69
VEH SPEED(MPH) 69
FUEL SYS 1 CLSD
FUEL SYS 2 CLSD
REL TPS(%) 14.9
O2S12(V) 0.545
ST FTRM12(%) 4.7
O2S22(V) 0.640
ST FTRM22(%) 4.7
EQ RATIO11 0.997
O2S11(mA) -0.086
EQ RATIO21 0.991
O2S21(mA) 0.008
MIL DIST(mi) 0
OBD2 STAT CA

FRAME: 5 TM: 26.5

MIL STATUS(\$01) Off
MIL STATUS(\$08) Off
ABSLT TPS(%) 22.7
ENG SPEED(\$01) 2148
ENG SPEED(\$08) 2160
CALC LOAD(%) 61.2
MAF(LB/M) 3.84
MAP("HG) 17.7
COOLANT(\$01) 181
COOLANT(\$08) 181
IAT(°F) 19
IGN ADV(°) 30.5
ST FTRM1(%) 3.1
ST FTRM2(%) 4.7
LT FTRM1(%) 2.3
LT FTRM2(%) 2.3
VEH SPEED(\$01) 69
VEH SPEED(\$08) 69
FUEL SYS 1 CLSD
FUEL SYS 2 CLSD
REL TPS(%) 13.7
O2S12(V) 0.530

ST FTRM12(%) 3.9
O2S22(V) 0.610
ST FTRM22(%) 4.7
EQ RATIO11 1.007
O2S11(mA) 0.008
EQ RATIO21 1.001
O2S21(mA) -0.020
MIL DIST(mi) 0
OBD2 STAT CA

FRAME: 6 TM: 31.9

MIL STATUS Off
MIL STATUS Off
ABSLT TPS(%) 22.0
ENG SPEED(RPM) 2150
ENG SPEED(RPM) 2158
CALC LOAD(%) 56.5
MAF(LB/M) 3.56
MAP("HG) 16.8
COOLANT(°F) 181
COOLANT(°F) 181
IAT(°F) 21
IGN ADV(°) 31.0
ST FTRM1(%) 3.9
ST FTRM2(%) 3.9
LT FTRM1(%) 2.3
LT FTRM2(%) 2.3
VEH SPEED(MPH) 69
VEH SPEED(MPH) 69
FUEL SYS 1 CLSD
FUEL SYS 2 CLSD
REL TPS(%) 13.3
O2S12(V) 0.660
ST FTRM12(%) 3.9
O2S22(V) 0.600
ST FTRM22(%) 3.9
EQ RATIO11 0.990
O2S11(mA) 0.000
EQ RATIO21 0.994
O2S21(mA) -0.020
MIL DIST(mi) 0
OBD2 STAT CA

FRAME: 7 TM: 37.2

MIL STATUS(\$01) Off
MIL STATUS(\$08) Off
ABSLT TPS(%) 22.0
ENG SPEED(\$01) 2147
ENG SPEED(\$08) 2152
CALC LOAD(%) 58.0
MAF(LB/M) 3.75
MAP("HG) 17.1
COOLANT(\$01) 181
COOLANT(\$08) 181
IAT(°F) 21
IGN ADV(°) 30.5
ST FTRM1(%) 3.9
ST FTRM2(%) 3.9
LT FTRM1(%) 2.3
LT FTRM2(%) 2.3
VEH SPEED(\$01) 69
VEH SPEED(\$08) 69
FUEL SYS 1 CLSD
FUEL SYS 2 CLSD
REL TPS(%) 12.9
O2S12(V) 0.625
ST FTRM12(%) 3.9
O2S22(V) 0.650
ST FTRM22(%) 3.9
EQ RATIO11 0.996
O2S11(mA) 0.008
EQ RATIO21 1.000
O2S21(mA) -0.043
MIL DIST(mi) 0
OBD2 STAT CA

FRAME: 8 TM: 42.5

MIL STATUS Off
MIL STATUS Off
ABSLT TPS(%) 21.6
ENG SPEED(RPM) 2150
ENG SPEED(RPM) 2152
CALC LOAD(%) 55.3

MAF(LB/M) 3.47
MAP("HG) 16.5
COOLANT(°F) 181
COOLANT(°F) 181
IAT(°F) 21
IGN ADV(°) 31.0
ST FTRM1(%) 3.9
ST FTRM2(%) 3.9
LT FTRM1(%) 2.3
LT FTRM2(%) 2.3
VEH SPEED(MPH) 69
VEH SPEED(MPH) 69
FUEL SYS 1 CLSD
FUEL SYS 2 CLSD
REL TPS(%) 13.3
O2S12(V) 0.505
ST FTRM12(%) 3.9
O2S22(V) 0.530
ST FTRM22(%) 3.9
EQ RATIO11 1.002
O2S11(mA) -0.008
EQ RATIO21 0.997
O2S21(mA) -0.008
MIL DIST(mi) 0
OBD2 STAT CA

FRAME: 9 TM: 47.8

MIL STATUS(\$01) Off
MIL STATUS(\$08) Off
ABSLT TPS(%) 22.0
ENG SPEED(\$01) 2148
ENG SPEED(\$08) 2148
CALC LOAD(%) 56.9
MAF(LB/M) 3.63
MAP("HG) 17.1
COOLANT(\$01) 181
COOLANT(\$08) 181
IAT(°F) 21
IGN ADV(°) 30.5
ST FTRM1(%) 3.9
ST FTRM2(%) 3.9
LT FTRM1(%) 2.3
LT FTRM2(%) 2.3

VEH SPEED(\$01) 69
VEH SPEED(\$08) 69
FUEL SYS 1 CLSD
FUEL SYS 2 CLSD
REL TPS(%) 13.7
O2S12(V) 0.605
ST FTRM12(%) 3.9
O2S22(V) 0.605
ST FTRM22(%) 3.9
EQ RATIO11 0.999
O2S11(mA) -0.043
EQ RATIO21 0.994
O2S21(mA) -0.008
MIL DIST(mi) 0
OBD2 STAT CA

FRAME: 10 TM: 53.4

MIL STATUS Off
MIL STATUS Off
ABSLT TPS(%) 22.4
ENG SPEED(RPM) 2139
ENG SPEED(RPM) 2151
CALC LOAD(%) 63.1
MAF(LB/M) 4.29
MAP("HG) 19.2
COOLANT(°F) 181
COOLANT(°F) 181
IAT(°F) 21
IGN ADV(°) 28.0
ST FTRM1(%) 4.7
ST FTRM2(%) 4.7
LT FTRM1(%) 2.3
LT FTRM2(%) 2.3
VEH SPEED(MPH) 69
VEH SPEED(MPH) 69
FUEL SYS 1 CLSD
FUEL SYS 2 CLSD
REL TPS(%) 14.1
O2S12(V) 0.565
ST FTRM12(%) 4.7
O2S22(V) 0.655
ST FTRM22(%) 3.9
EQ RATIO11 1.002

O2S11(mA) -0.020
EQ RATIO21 0.996
O2S21(mA) -0.043
MIL DIST(mi) 0
OBD2 STAT CA

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View Freeze Data

P0420 (MOD \$08)

TROUB CODE P0420
ABSLT TPS(%) 19.6
ENG SPEED(RPM) 1856
CALC LOAD(%) 49.4
MAF(LB/M) 2.36
MAP("HG) 14.8
COOLANT(°F) 181
IAT(°F) 43
IGN ADV(°) 30.5
ST FTRM1(%) 4.7
ST FTRM2(%) 3.9
LT FTRM1(%) 5.5
LT FTRM2(%) 6.3
VEH SPEED(MPH) 59
FUEL SYS 1 CLSD
FUEL SYS 2 CLSD
REL TPS(%) 10.2

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O2 Monitor Tests

O2 Bank1 Sensor1

Test \$57

MOD \$08
MAX 0.00(V)
MEAS 0.00(V)
MIN 0.00(V)

Test \$86

MOD \$08
MAX 217
MEAS 178

MIN 151

Test \$8D

MOD \$08
MAX 181
MEAS 128
MIN 0

Test \$8E

MOD \$08
MAX 40
MEAS 25
MIN 0

Test \$8F

MOD \$08
MAX 110
MEAS 75
MIN 0

O2 Bank1 Sensor2

Test \$38

MOD \$08
MAX 0.5(s)
MEAS 0.0(s)
MIN 0.0(s)

Test \$47

MOD \$08
MAX 1.270(V)
MEAS 0.720(V)
MIN 0.050(V)

Test \$48

MOD \$08
MAX 1.275(V)
MEAS 0.825(V)
MIN 0.650(V)

Test \$49

MOD \$08
MAX 0.290(V)
MEAS 0.115(V)

MIN 0.00(V)

O2 Bank2 Sensor1

Test \$57

MOD \$08
MAX 0.00(V)
MEAS 0.00(V)
MIN 0.00(V)

Test \$86

MOD \$08
MAX 217
MEAS 176
MIN 151

Test \$8D

MOD \$08
MAX 181
MEAS 128
MIN 0

Test \$8E

MOD \$08
MAX 40
MEAS 25
MIN 0

Test \$8F

MOD \$08
MAX 110
MEAS 74
MIN 0

O2 Bank2 Sensor2

Test \$38

MOD \$08
MAX 0.5(s)
MEAS 0.0(s)
MIN 0.0(s)

Test \$47
MOD \$08
MAX 1.270(V)
MEAS 0.715(V)
MIN 0.050(V)

Test \$48
MOD \$08
MAX 1.275(V)
MEAS 0.850(V)
MIN 0.650(V)

Test \$49
MOD \$08
MAX 0.290(V)
MEAS 0.125(V)
MIN 0.000(V)

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Diag Monitor Tests

Test \$03

ID 01
MOD \$08
MAX ----
MEAS 354
MIN 96
STS OK

Test \$49

ID 00
MOD \$08
MAX 66
MEAS 0A
MIN ----
STS OK

Test \$4A

ID 00
MOD \$08
MAX ----
MEAS 81
MIN 0F
STS OK

Test \$62

ID 04
MOD \$08
MAX 110
MEAS 1F2
MIN ----
STS HI

Test \$64

ID 04
MOD \$08
MAX D0
MEAS 147
MIN ----
STS HI

Test \$76

ID 00
MOD \$08
MAX ----
MEAS 48F
MIN 0D
STS OK

Test \$77

ID 00
MOD \$08

MAX ----
MEAS 2D5
MIN 0D
STS OK

Test \$79

ID 01
MOD \$08
MAX 8605
MEAS 7FFE
MIN ----
STS OK

Test \$7A

ID 01
MOD \$08
MAX 8605
MEAS 7FF8
MIN ----
STS OK

Test \$81

ID 00
MOD \$08
MAX ----
MEAS 7FFF
MIN 7F6A
STS OK

Test \$82

ID 00
MOD \$08
MAX ----
MEAS 7FA1

MIN 7F06
STS OK

Test \$8F

ID 00
MOD \$08
MAX ----
MEAS 8000
MIN 8000
STS OK

Test \$9A

ID 00
MOD \$08
MAX 8000
MEAS 8000
MIN ----
STS OK

Test \$9B

ID 00
MOD \$08
MAX 8000
MEAS 8000
MIN ----
STS OK

Test \$9C

ID 00
MOD \$08
MAX 00
MEAS 00
MIN ----
STS OK

Test \$9D

ID 00
MOD \$08
MAX 00
MEAS 00
MIN ----
STS OK

Test \$9E

ID 00
MOD \$08
MAX 00
MEAS 00
MIN ----
STS OK

Test \$B0

ID 00
MOD \$08
MAX 8000
MEAS 8000
MIN ----
STS OK

Test \$B2

ID 00
MOD \$08
MAX 8000
MEAS 8000
MIN ----
STS OK

Test \$B5

ID 00
MOD \$08
MAX 8000
MEAS 8000
MIN ----
STS OK

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Vehicle Information

VIN

#1 MOD \$08: JHMCN36537C001136

CVN

#1 MOD \$08: DA 08 73 56
#2 MOD \$08: 03 68 D6 04
#3 MOD \$01: 39 1C 8D 60
#4 MOD \$01: E6 0E 1D 26

CAL ID

#1 MOD \$08: 37805-RCJ-A690
#2 MOD \$08: 37806-RCJ-A630
#3 MOD \$08: 37850-RCA-A100
#4 MOD \$01: 1K001-RCJ-A040
#5 MOD \$01: 1K101-RCJ-A730
#6 MOD \$01: 1B210-RCJ-0030

IPT

#1 MOD \$08:
OBD Mon Cond 154
Ignition Cycles 528
Cat Comp Bank1 93
Cat Cond Bank1 151
Cat Comp Bank2 127
Cat Cond Bank2 151
O2 Comp Bank1 225
O2 Cond Bank1 151
O2 Comp Bank2 225

O2 Cond Bank2	151
EGR Mon Comp	251
EGR Mon Cond	154
AIR Mon Comp	Not available
AIR Mon Cond	Not available
EVAP Mon Comp	32
EVAP Mon Cond	65

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Modules Present

Module \$08: ISO

Module \$01: ISO