

- SERVICE HINTS -

EFI MAIN RELAY 2 – 4: CLOSED WITH IGNITION SW AT ON OR ST POSITION E2 EFI WATER TEMP. SENSOR 1 – 2: APPROX. 16.2KΩ (–20°C, –4°F) : APPROX. 2.45KΩ (20°C, 68°F)
1 – 2: APPROX. 16.2 KΩ (–20 °C, –4 °F)
1 – 2: APPROX. 16.2 KΩ (–20 °C, –4 °F)
: APPROX. 0.32 ΚΩ (80 °C, 176 °F)
E 3 EGR GAS TEMP. SENSOR (FOR CALIFORNIA)
1 – 2: APPROX. 78.30 KΩ (50 °C, 122 °F)
APPROX. 13.06 KΩ (100 °C, 212 °F)
APPROX. 3.16 KΩ (150 °C, 302 °F)
E 9, E10 ENGINE AND ECT ECU
(VOLTAGE AT ENGINE AND ECT ECU WIRING CONNECTORS)
BATT – E1 : ALWAYS APPROX. 12 VOLTS
IGSW – E1 :APPROX. 12 VOLTS WITH IGNITION SW ON
+B,+B1 -E1 :APPROX. 12 VOLTS WITH IGNITION SW ON
VC – E2 : 4–6 VOLTS WITH IGNITION SW ON
IDL1, IDL2 - E2 : 0-1 VOLTS WITH IGNITION SW ON AND THROTTLE VALVE FULLY CLOSED
: 10–14 VOLTS WITH IGNITION SW ON AND THROTTLE VALVE FULLY OPEN
VTA1, VTA2 - E2 : 0.1-1.0 VOLTS WITH IGNITION SW ON AND THROTTLE VALVE FULLY CLOSED
: 3–6 VOLTS WITH IGNITION SW ON AND THROTTLE VALVE FULLY OPEN
THA $- E2$: 1–3 VOLTS WITH IGNITION SW ON AND INTAKE AIR TEMP. 20°C (68°F)
THW – E2 : 0.1–1.0 VOLTS WITH IGNITION SW ON AND COOLANT TEMP. 80°C (176°F)
STA – E1 : 6–14 VOLTS WITH ENGINE CRANKING
#10, #20, #30, #40 – E1 :APPROX. 12 VOLTS WITH IGNITION SW ON
IGF1, IGF2 – E1 : 0–1 VOLTS WITH ENGINE IDLING
MREL – E1 :APPROX. 12 VOLTS WITH IGNITION SW ON
DI – E1 : 7.5–14 VOLTS WITH ENGINE IDLING
FPU – E1 :APPROX. 12 VOLTS WITH IGNITION SW ON
PAG – E1 :APPROX. 12 VOLTS WITH ENGINE IDLING
ISC1, ISC2, ISC3, ISC4 – E1 : APPROX. 12 VOLTS WITH IGNITION SW ON
HTL1, HTR1, HTL2, HTR2 – E01: 0–2 VOLTS WITH ENGINE IDLING
EGR1, EGR2, EGR3, EGR4 – E1 :APPROX. 12 VOLTS WITH IGNITION SW ON
EGR – EI : 12 VOLTS WITH ENGINE IDLING
NSW – E1 : 0–1 VOLTS WITH IGNITION SW ON AND SHIFT LEVER P OR N RANGE
: 10–14 VOLTS WITH IGNITION SW ON AND SHIFT EXCEPT P OR N RANGE
TE1 – E1 : APPROX. 12 VOLTS WITH IGNITION SW ON
TE2 – E1 :APPROX. 12 VOLTS WITH IGNITION SW ON
W – E1 : APPROX. 12 VOLTS WITH ENGINE IDLING
0–2 VOLTS WITH IGNITION SW ON
A/C – E1 : 0-2 VOLTS WITH AIR CONDITIONER ON
10-14 VOLTS WITH AIR CONDITIONER OFF
ACMG – E1 : 0–2 VOLTS WITH AIR CONDITIONER ON
: 10–14 VOLTS WITH AIR CONDITIONER OFF
TR – E1 : APPROX. 12 VOLTS WITH IGNITION SW ON
VTA1, VTA2 - E2 : 0-1 VOLTS WITH IGNITION SW ON AND THROTTLE VALVE FULLY CLOSED
3-5.5 VOLTS WITH IGNITION SW ON AND THROTTLE VALVE FULLY OPEN
NEO – E1 : 4–6 VOLTS WITH IGNITION SW ON

(RESISTANCE OF ENGINE AND ECT ECU WIRING CONNECTORS) +B, +B1 − #10, #20, #30, #40 : 13.2−14.2 Ω
+B, +B1 –STJ: 2–4 Ω
+B, +B1 – ISC1, ISC2, ISC3, ISC4 : 10–30 Ω
+B, +B1 –FPU: 37–44 Ω
+B, +B1 – EGR1, EGR2, EGR3, EGR4: 19.9–23.4 Ω
+B, +B1 – EGR : 33–39 Ω
+B, +B1, HTR1, HTR2 : 5.1–6.3 Ω
+B, +B1 – PAG : 30–34 Ω
IDL1, IDL2 – E2 : INFINITY WITH THROTTLE VALVE OPEN
0–2.3Ω WITH THROTTLE VALVE FULLY CLOSED
VTA1, VTA2 – E2 : 3.3–10 Ω WITH THROTTLE VALVE FULLY OPEN
200–800 Ω WITH THROTTLE VALVE FULLY CLOSED
$VC - E2 : 4-9K\Omega$
THW - E2 : 200–400 Ω WITH COOLANT TEMP. 80 °C (176 °F)
THA $-E2$: 2–3 K Ω WITH INTAKE AIR TEMP. 20 °C (68 °F)
THG – E2 : 69.4–88.5 ΚΩ WITH EGR GAS TEMP. 50 °C (112 °F) G1. G2 –G− : 0.835–13.5 ΚΩ
$NE- NE- : 0.835-13.5K\Omega$
F12 FUEL PUMP RESISTOR
1 – 2 : APPROX. 0.7 Ω 11 ISC VALVE
$4, 6-5$: APPROX. 21.3 Ω
1, $3-2$: APPROX. 21.3
1 6, I 7, I 8, I 9, I10, I11 I12, I13 INJECTOR 1 – 2 : ΑΡΡRΟΧ. 13,8 Ω
03,04 OXYGEN SENSOR SUB
1 – 2 : APPROX. 5.6 Ω (20 °C, (68 °F)
T 2 THROTTLE POSITION SENSOR
1 – 3 : 3.3–10.0K Ω with throttle valve fully opened position 0.2–1.2K Ω with clearance between lever and stop screw 0MM (0 in.)
$1 - 2$: LESS THAN 2.3K Ω WITH CLEARANCE BETWEEN LEVER AND STOP SCREW 0.4 MM (0.0157 IN.)
INFINITY WITH CLEARANCE BETWEEN LEVER AND STOP SCREW 0.85MM (0.0335 IN.)

O : PARTS LOCATION

COD	ЭE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
A 9)	26	11	27	N 1	27
C 1		26	12	27	03	27
C 2	2	26	13	27	O 4	27
C 3	3	26	16	27	O 6	29
C13	В	28	17	27	07	29
C14	А	28	18	27	S 1	27
E 2	2	26	19	27	S 3	27
E3		26	l10	27	S12	29
E4		26	I11	27	T 2	27
E 7	,	26	l12	27	Т 6	29
E 9	А	28	l13	27	V 1	27
E10	В	28	l15	29	V 2	27
F 9)	26	K 1	27	V 3	27
F15	5	30	K 2	27		
F16	5	30	K 3	29		

: RELAY BLOCKS

CODE	SEE PAGE	RELAY BLOCKS (RELAY BLOCK LOCATION)
2	19	ENGINE COMPARTMENT LEFT

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR				
CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)		
1A	_ 20	ENGINE ROOM MAIN WIRE		
1B	20			
1E	20	INSTRUMENT PANEL WIRE		
1H				
11	20			
1J	20	COWL WIRE		
1K				
3A	- 23	INSTRUMENT PANEL WIRE		
3D				

: []	CONNECTOR J	OINING WIRE HARNESS AND WIRE HARNESS			
CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)			
EB1	34	ENGINE WIRE AND ENGINE ROOM MAIN WIRE (FRONT SIDE OF R/B NO.2)			
EB2	- 34				
EC1	34	ENGINE WIRE AND ENGINE ROOM NO. 4 WIRE (FRONT SIDE OF CYLINDER HEAD COVER LH)			
EC2	- 34	ENGINE WIRE AND ENGINE ROOM NO. 4 WIRE (I ROAT GIDE OF OTELINDER HEAD COVER EII)			
ED1	34	ENGINE NO. 2 WIRE AND ENGINE WIRE (REAR SIDE OF AIR INTAKE CHAMBER)			
Ee1	34	ENGINE WIRE AND ENGINE NO. 4 WIRE (REAR SIDE OF AIR INTAKE CHAMBER)			
IE1	36	ENGINE WIRE AND COWL WIRE (R/B NO. 4)			
IG2	36	INSTRUMENT PANEL WIRE AND COWL WIRE (R/B NO. 5)			
IG3	38	INSTRUMENT PANEL WIRE AND COWL WIRE (RIGHT KICK PANEL)			
IH1	36	COWL NO. 2 WIRE AND COWL WIRE (BEHIND COMBINATION METER)			
ll1	36	ENGINE WIRE AND A/C WIRE (BEHIND GLOVE BOX)			
IJ1					
IJ2	- 36	ENGINE WIRE AND COWL WIRE (RIGHT KICK PANEL)			
IK1	36	ENCINE WIDE AND INERTHINENT DANEL WIDE (DICHT VICK DANEL)			
IK2	- 50	ENGINE WIRE AND INSTRUMENT PANEL WIRE (RIGHT KICK PANEL)			
BT1	40	FLOOR WIRE AND COWL WIRE (LEFT KICK PANEL)			

v		
CODE	SEE PAGE	GROUND POINTS LOCATION
EB	34	FRONT SIDE OF LEFT FENDER
ED	34	REAR SIDE OF CYLINDER HEAD RH
EE	34	REAR SIDE OF CYLINDER HEAD LH
IF	36	LEFT KICK PANEL
IH	36	UNDER THE ASHTRAY LH
BK	40	UNDER THE CENTER PILLAR LH

SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
34	ENGINE ROOM MAIN WIRE	l16		
	ENGINE WIRE	l17	38	INSTRUMENT PANEL WIRE
34		l18		
		l19		
		121		
		122		
		132	38	ENGINE WIRE
		133		
		134		
_ 34	ENGINE NO. 4 WIRE	B11	40	FLOOR MAIN WIRE
		B12		
38	COWL WIRE			
	34 - 34 - 34	34 ENGINE ROOM MAIN WIRE 34 ENGINE WIRE 34 ENGINE WIRE 34 ENGINE NO. 4 WIRE	34 ENGINE ROOM MAIN WIRE 116 34 ENGINE ROOM MAIN WIRE 117 34 ENGINE WIRE 119 34 ENGINE WIRE 121 132 133 134 ENGINE NO. 4 WIRE B11 34 ENGINE NO. 4 WIRE B11	34 ENGINE ROOM MAIN WIRE 116 117 118 117 118 119 121 121 122 132 133 38 134 34 ENGINE WIRE 117 132 133 38 134 ENGINE NO. 4 WIRE B11 34 ENGINE NO. 4 WIRE B11

