

## ENGINE CONTROL

## EFI SYSTEM (3SZ-VE, K3-VE)

BASIC INSPECTION .....	ES-1
LOCATION .....	ES-2
DIAGNOSTIC TROUBLE CODE CHART .....	ES-3
PROBLEM SYMPTOMS TABLE .....	ES-4
HOW TO PROCEED WITH TROUBLESHOOTING .....	ES-6
CUSTOMER PROBLEM ANALYSIS CHECK SHEET .....	ES-7
CHECK / CLEAR DTCs .....	ES-8
FREEZE FRAME DATA .....	ES-10
CIRCUIT DIAGRAM .....	ES-12
ECU TERMINALS .....	ES-16
ECU DATA LIST / ACTIVE TEST .....	ES-21
FAIL-SAFE CHART .....	ES-27
P0105/31 .....	ES-28
P0110/43 .....	ES-31
P0115/42 .....	ES-35
P0120/41 .....	ES-38
P0130/21 .....	ES-43
P0135/23 .....	ES-47
P0141/24 .....	ES-47
P0136/22 .....	ES-50
P0171/25 .....	ES-53
P0172/26 .....	ES-53
P0300/17 .....	ES-58
P0301/17 .....	ES-58
P0302/17 .....	ES-58
P0303/17 .....	ES-58
P0304/17 .....	ES-58
P0325/18 .....	ES-63
P0335/13 .....	ES-66
P0340/14 .....	ES-69
P0350/16 .....	ES-72
P0420/27 .....	ES-75
P0443/76 .....	ES-79
P0500/52 .....	ES-81
P0505/71 .....	ES-83
P0535/44 .....	ES-87
P1105/32 .....	ES-89
P1300/36 .....	ES-90
P1346/75 .....	ES-94
P1349/73 .....	ES-95
P1351/62 .....	ES-99
P1510/54 .....	ES-100
P1560/61 .....	ES-103
P1600/83 .....	ES-105
P1601/81 .....	ES-106
P1656/74 .....	ES-109
U0101/82 .....	ES-112
U0121/86 .....	ES-112
U0156/87 .....	ES-112
U1000/85 .....	ES-112
U1002/88 .....	ES-112
FUEL PUMP CONTROL SYSTEM .....	ES-115

ECU POWER SOURCE SYSTEM.....	ES-120
THROTTLE BODY ASSEMBLY (3SZ-VE)	
COMPONENTS .....	ES-125
REMOVAL .....	ES-127
INSTALLATION .....	ES-128
INSPECTION .....	ES-129
KNOCK CONTROL SENSOR (3SZ-VE)	
COMPONENTS .....	ES-130
REMOVAL .....	ES-133
INSTALLATION .....	ES-134
INSPECTION .....	ES-134
CAMSHAFT TIMING OIL CONTROL VALVE ASSEMBLY (3SZ-VE)	
COMPONENTS .....	ES-135
REMOVAL .....	ES-136
INSTALLATION .....	ES-136
ON-VEHICLE INSPECTION .....	ES-136
INSPECTION .....	ES-137
ENGINE CONTROL COMPUTER (3SZ-VE)	
COMPONENTS .....	ES-138
REMOVAL .....	ES-139
INSTALLATION .....	ES-139
E.F.I. WATER TEMPERATURE (3SZ-VE)	
INSPECTION .....	ES-140
E.F.I. COMPUTER RELAY (3SZ-VE)	
INSPECTION .....	ES-141
THROTTLE POSITION SENSOR (3SZ-VE)	
INSPECTION .....	ES-142

## SUPPLEMENT

EFI SYSTEM (3SZ-VE, K3-VE)	
DIAGNOSTIC TROUBLE CODE CHART .....	ES-143
ECU DATA LIST / ACTIVE TEST .....	ES-144
P0116/42 .....	ES-145
P0133/21 .....	ES-148
P1115/46 .....	ES-151

