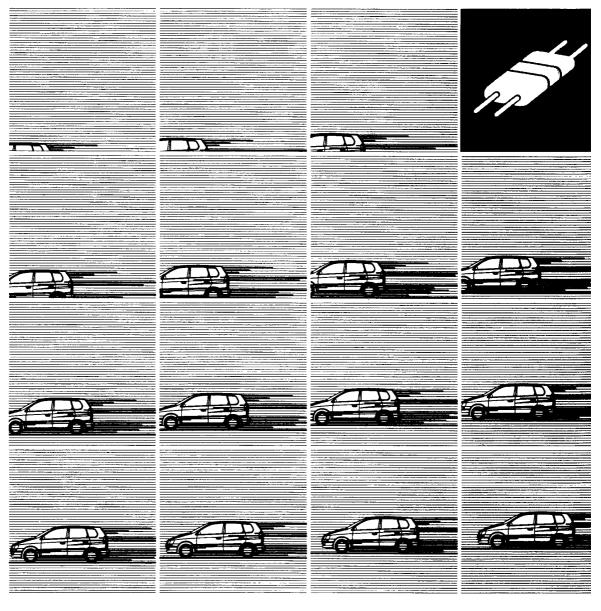


Workshop Manual

electrical wiring

SPACE STAR'99



Pub. No. EMXE99E1

SPACE STAR

ELECTRICAL WIRING

FOREWORD

This Electrical Wiring Manual contains information necessary for inspection and servicing of electrical wiring of Mitsubishi SPACE STAR edited in the form of wiring harness configuration diagrams and function-separated circuit diagrams.

It is recommended that all service mechanics engaged in the servicing of the vehicle refer to the following publications as well as this manual.

TECHNICAL INFORMATION MANUAL IMXE99E1

WORKSHOP MANUAL CHASSIS GROUP

CMXE99E1

BODY REPAIR MANUAL

BMXE99E1

ENGINE GROUP

PWEE ...

(Looseleaf edition)

PARTS CATALOGUE

N606H509D□

All information, illustrations and product descriptions contained in this manual are current as of time of publication. We, however, reserve the right to make changes at any time without prior notice or obligation.

MITSUBISHI MOTOR SALES Europe B.V.

GROUP INDEX

HOW TO READ THE WIRING DIAGRAMS	1
WIRING HARNESS CONFIGURATION DIAGRAMS	2
SINGLE PART INSTALLATION POSITION	3
CIRCUIT DIAGRAM	4

HOW TO USE THIS MANUAL

CONTENTS

The preceding page contains GROUP INDEX that lists the group title and group number.

PAGE NUMBERS

All page numbers consist of two sets of digits separated by a dash. The digits preceding the dash identify the number of the group. The digits following the dash represent the consecutive page number within the group. The page number can be found on the top left or right of each page.

OPERATION AND TROUBLESHOOTING HINTS

In the GROUP 4 circuit diagrams, the operation and troubleshooting hints are given on the previous page or following page for each circuit where necessary.

HOW TO READ THE WIRING DIAGRAMS

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MODELS 1-2	HOW TO READ CIRCUIT DIAGRAMS 1-4
COMPOSITION AND CONTENTS OF WIRING DIAGRAMS 1-2	MARKINGS FOR CONNECTOR EARTHING 1-6
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DIAGINATIO	ABBREVIATION SYMBOLS 1-10

MODELS 00100030308

Model code	е	Engine model	Transmission model	Fuel supply system
DG1A	LNDEL6/R6	4G13-SOHC (1,299 mℓ)	F5MR1	MPI
	LNDJL6		(2WD-5M/T)	
	LNJEL6/R6			
	LNJJL6			
DG5A	LNDCL6/R6	4G93-DOHC-GDI (1,834 mℓ)	F5M42 (2WD-5M/T)	GDI
	LNDGL6			
	LNJCL6/R6			
	LNJGL6			

COMPOSITION AND CONTENTS OF WIRING DIAGRAMS

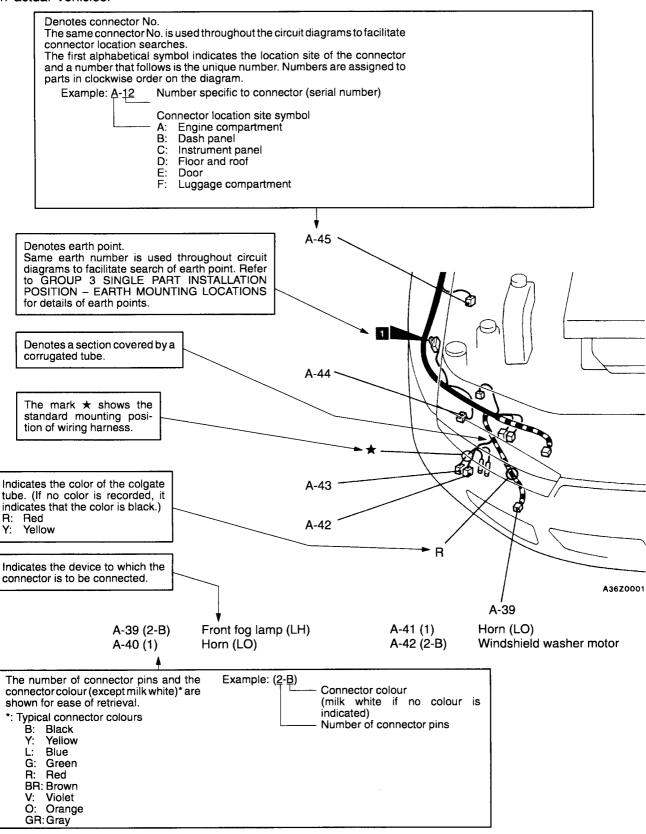
- (1) This manual consists of wiring harness diagrams, installation locations of individual parts, circuits diagrams and index.
- (2) In each section, all specifications are listed, including optional specifications. Accordingly, some specifications may not be applicable for individual vehicles.

Section	Basic contents
Wiring harness configuration diagrams	Connector locations and harness wiring configurations on actual vehicles are illustrated.
Single part installation position	Locations are shown for each point of relays, electronic control units, sensors, solenoids, solenoid valves, diodes, inspection connectors, fusible links, fuses, etc. In the part's lists, parts are listed in alphabetical order.
Circuit diagrams	 Circuits from power supply to earth are shown completely, classified according to system. There is a main division into power circuits, and circuits classified by system. The circuits classified by system also include operation and troubleshooting hints. Junction block Junction block The entire circuit for the junction block is described, because only the part of the junction block needed is normally shown in each circuit diagram. Joint connectors
Index	All components used are listed by connector number and component name.

HOW TO READ CONFIGURATION DIAGRAMS

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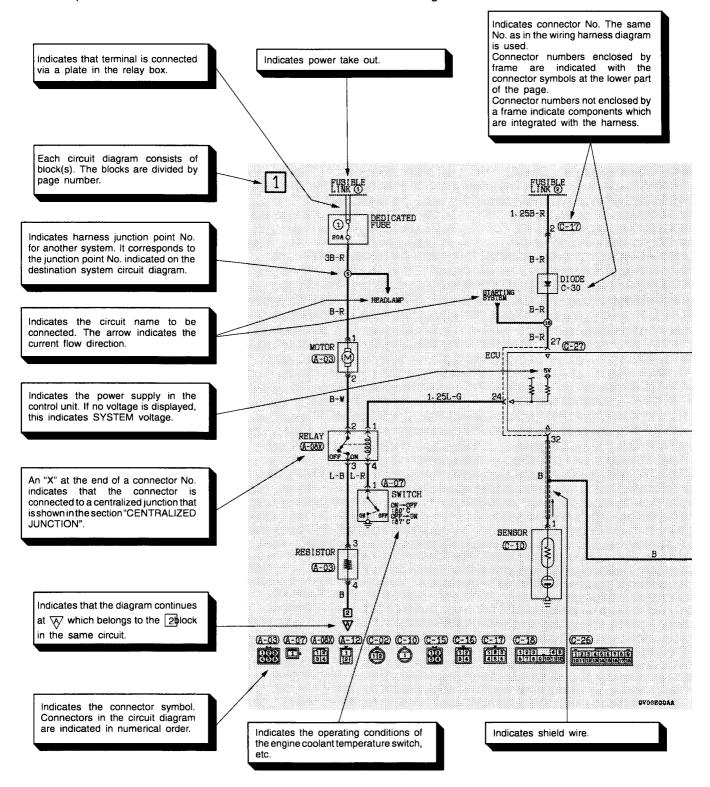
The wiring harness diagrams clearly show the connector locations and harness routings at each site on actual vehicles.

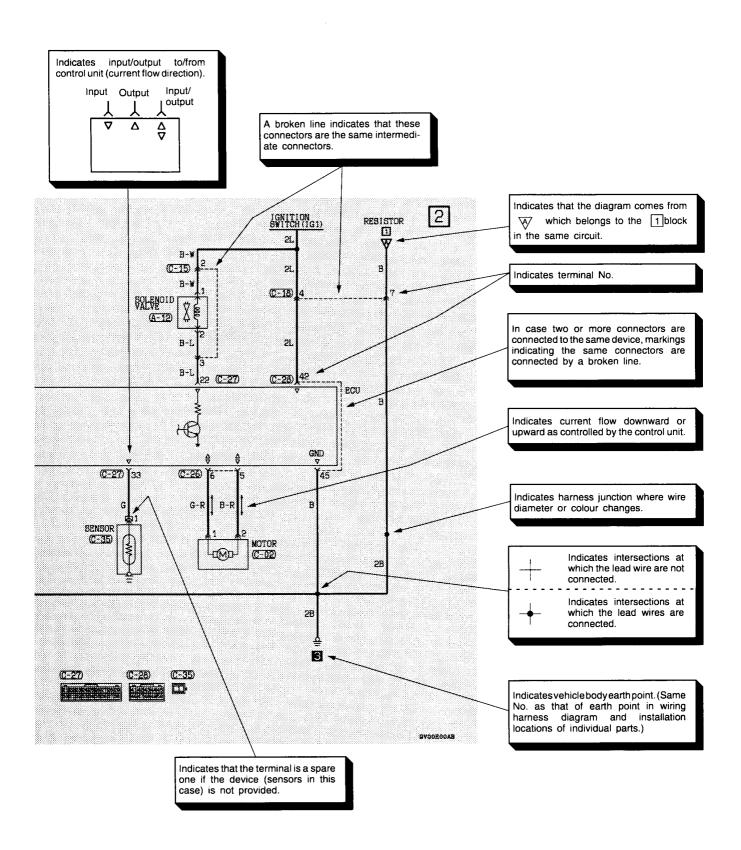


HOW TO READ CIRCUIT DIAGRAMS

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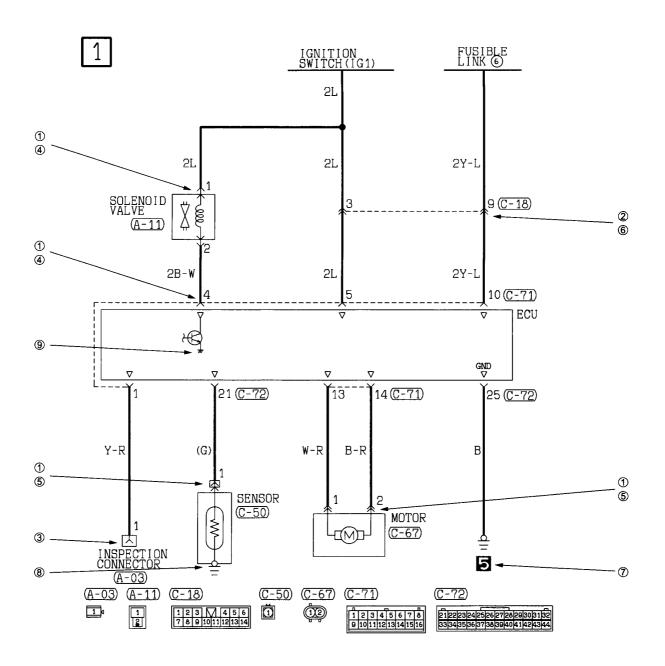
The circuit of each system from fuse (or fusible link) to earth is shown. The power supply is shown at the top and the earth at the bottom to facilitate understanding of the current flow.





MARKINGS FOR CONNECTOR EARTHING

00100790077



0V00E02AA

Item	No.	Connector/Earthing	Symbol	Contents
Connector and terminal marking	_	Male connector	Male terminal	The male and female terminals are indicated as shown. The connector with male terminal(s) is called as male connector and indicated by double connector contour lines, while the connector with female terminal(s) is called as female connector and indicated by single connector contour line.
		Male terminal	1 2 3 4 5 6 7 8 16Z0016	
		Female connector	Female terminal	
		Female terminal	Female connector 1 2 3 4 5 6 7 8 16Z0017	
Connector symbol marking	•	Device 1 2 3 4	1 2 3 4	The symbol indicates the vehicle connector as viewed from the illustrated direction. At the connector symbol on the device side is shown, and for an intermediate connector, a male connector symbol is shown. For spare connectors
	2	Intermediate connector	5 6 7 8 16Z0016	and check connectors, no device is connected, and so the harness-side connector symbol is shown for these connectors. The details for the diagnosis connector differ from the above description. For details, refer to the "MUT-II operation instructions".
	3	Spare connector, check connector	1 2 3 4 5 6 7 B 16Z0017	

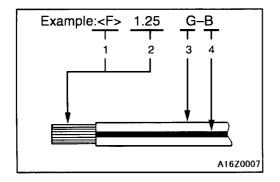
Item	No.	Connector/Earthing	Symbol	Contents
Connector connection marking		Direct connection type	16Z0023	A connection between a device and connector on the harness side is either by direct insertion in the device (direct connection type) or by connection with a harness connector on the device side furnished (harness connection type). The two types are indicated
	(5)	Harness connection type	16Z0024	as illustrated.
	6	Intermediate connector	16Z0025	
Earth markings	•	Body earth		Earth is either by body earth, device earth or control unit interior earth. These are indicated as illustrated.
	8	Device earth		
	9	Earth in control unit	# 16Z0020	

WIRE COLOUR CODES

00100800053

Wire colours are identified by the follow colour codes.

Code	Wire colour	Code	Wire colour	
В	Black	Р	Pink	
BR	Brown	R	Red	
G	Green	SB	Sky blue	
GR	Gray	SI	Silver	
L	Blue	V	Violet	
LG	Light green	W	White	
0	Orange	Υ	Yellow	



If a cable has two colours, the first of the two colour code characters indicates the basic colour (colour of the cable coating) and the second indicates the marking colour.

No.	Meaning		
1	<f>:Flexible wire</f>		
	<t>:Twisted wire</t>		
2	Wire size(mm ²)*		
3	Basic colour (colour of the cable coating)		
4	Marking colour		

NOTE

*: No code indicates 0.5 mm². Cable colour code in parentheses indicates 0.3 mm².

ABBREVIATION SYMBOLS

00100810124

The Abbreviation symbols used in wiring diagrams are defined below.

1. Abbreviation symbols used for system name

Abbreviation symbol	Meaning	Abbreviation symbol	Meaning
ABS	Anti-skid braking system	EGR	Exhaust gas recirculation
A/C	Air conditioner	M/T	Manual transmission
DRL	Daytime running lamp	MPI	Multi-point injection
		SRS	Supplemental restraint system

2. Abbreviation symbols used for combination meters

Abbreviation symbol	Meaning	Abbreviation symbol	Meaning
ABS	Anti-skid braking system warning lamp	OIL	Oil pressure warning lamp
BEAM	High beam indicator lamp	R/FOG	Rear fog lamp indicator lamp
BRAKE	Brake warning lamp	SPEED	Speedometer
CHECK ENGINE	Check engine warning lamp	SRS	Supplemental restraint system warning lamp
CHG	Charging warning lamp	TACHO	Tachometer
DOOR	Door-ajar warning lamp	T/GA	Engine coolant temperature gauge
F/GA	Fuel gauge	TRIP	Tripmeter
F/FOG	Front fog lamp indicator lamp	TURN (LH)	Turn signal indicator (L.H.)
FUEL	Low fuel warning lamp	TURN (RH)	Turn signal indicator (R.H.)
ODO	Odometer	WASHER	Washer fluid level warning lamp

3. Abbreviation symbols used for switches and relays

Name of switches and relays	Abbreviation symbol	Operation	Name of switches and relays	Abbreviation symbol	Operation
Blower	LO	Blower operates at low	Power window switch	UP	Window closes
switch		speed		DOWN	Window opens
	ML	Blower operates at medium low speed		AUTO UP	Window is easily closed with one action
	МН	Blower operates at medium high speed		AUTO DOWN	Window is easily opened with one action
	Н	Blower operates at high speed		LOCK	Window locked
Dimmer	LO	Low beams ON		UNLOCK	Window unlocked
passing switch	н	High beams ON	Remote con- trolled mirror	LH	L.H. mirror operates
Door lock actuator, door	LOCK	Door locked	switch	RH	R.H. mirror operates
lock keycy- linder switch or door lock switch	UNLOCK	Door unlocked	Room lamp switch	DOOR	Room lamps ON when a door is open
Heated seat	LO	Normal heating	Sunroof switch	OPEN	Sunroof slides to open
switch	HI	Rapid heating		UP	Sunroof tilts up
Ignition switch	ACC	When turned to the ACC (ACCESSORY) or ON position, the power circuit will start		CLOSE/ DOWN	Sunroof tilts down or slides to close
	IG1	Even when at the ST (START) position, the	Turn signal switch	LH	L.H. turn signal lamps ON
		power circuit will start		RH	R.H. turn signal lamps ON
	IG2	When at the ST (START) position, the	Variable intermittent	SLOW	Pause time for intermit- tent operation lengthen
		power circuit will not start functioning	wiper control switch	FAST	Pause time for intermit- tent operation shorten
Lighting switch	TAIL	Position, tail, licence plate and other illumination lamps ON	Windshield wiper switch or rear wiper	LO	Wipers operate at low speed
	HEAD	Headlamps ON	switch	Н	Wipers operate at high
Others	ON	Switched on			speed
	OFF	Switched off	-	INT	Wipers operate inter- mittently

1-12 HOW TO READ THE WIRING DIAGRAMS – Abbreviation Symbols

4. Other abbreviation symbols

Abbreviation symbol	Meaning	Abbreviation symbol	Meaning
ECU	Electronic control unit	LCD	Liquid crystal display
GND	Earth	LH	Left hand
ILL	Illumination lamp	LHD	L.H. drive vehicles
IND	Indicator lamp	RH	Right hand
J/B	Junction block	RHD	R.H. drive vehicles
J/C	Joint connector		

WIRING HARNESS CONFIGURATION DIAGRAMS

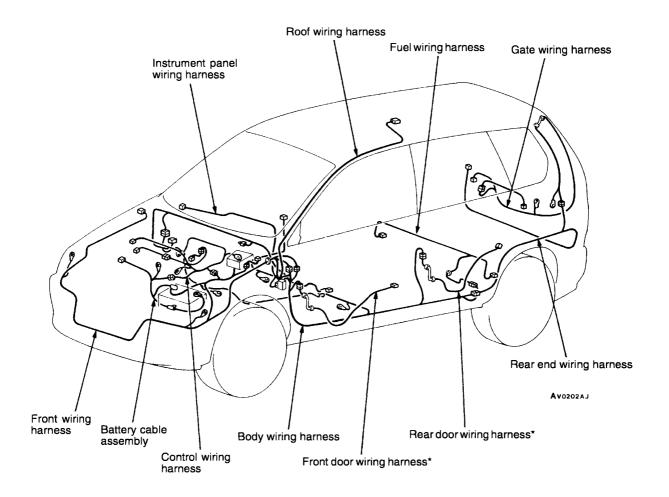
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4G93 <l.h. drive="" vehicles=""> 2-8</l.h.>	R.H. drive vehicles	
4G13 <r.h. drive="" vehicles=""> 2-12</r.h.>	DOOR	
4G93 <r.h. drive="" vehicles=""> 2-16</r.h.>		
DAGU DANE!	L.H. drive vehicles	
DASH PANEL	R.H. drive vehicles 2-35	
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OVERALL WIRING DIAGRAM

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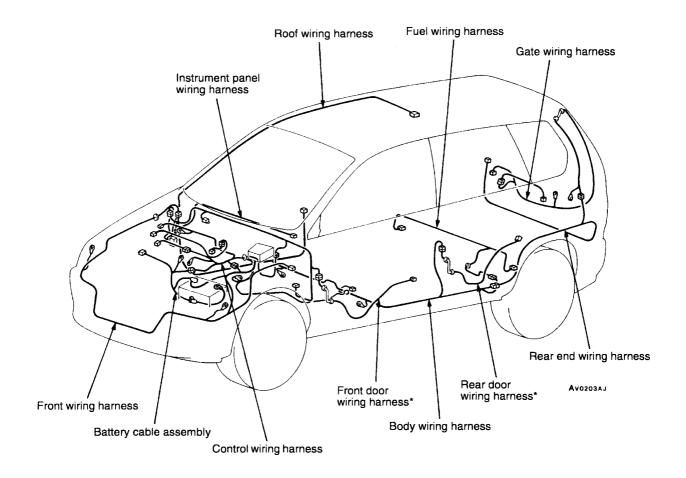
L.H. drive vehicles



Remarks

- (1) This illustration shows only major wiring harnesses.(2) *: also equipped at the right side.

R.H. drive vehicles



Remarks

- (1) This illustration shows only major wiring harnesses.(2) *: also equipped at the right side.

ENGINE COMPARTMENT

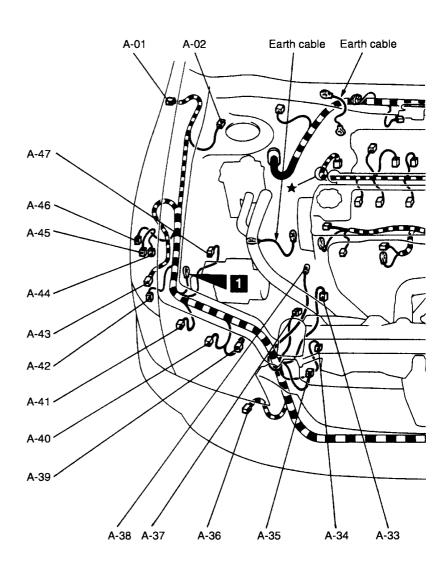
80100031264

4G13 engine <L.H. drive vehicles>

Connector symbol

A

-01 thru -47



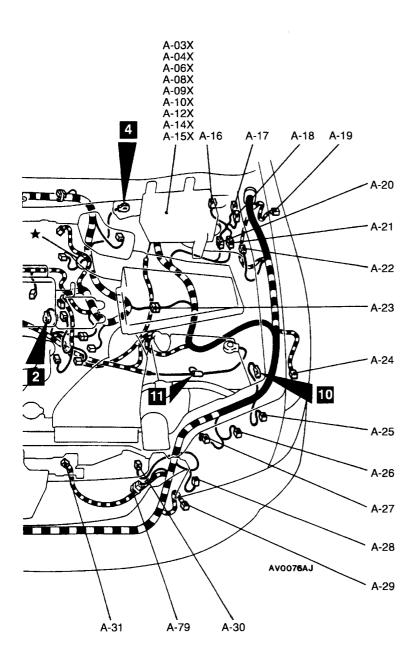
B: Black
Y: Yellow
L: Blue
G: Green
R: Red
BR: Brown
V: Violet
O: Orange

GR: Gray

Connector color code

A-01 (2-B)	Side turn signal lamp (RH)	A-17 (5)	DRL relay 1
A-02 (2-B)	Front speed sensor (RH) <abs></abs>	A-18 (5)	DRL relay 2
A-03X (5)	Headlamp washer relay	A-19 (2-B)	Side turn signal lamp (LH)
A-04X (4)	Alternator relay	A-20 (10-B)	Front wiring harness and DRL wiring
A-06X (5)	Horn relay		harness combination
A-08X (5)	Condenser fan relay (HI)	A-21 (10-B)	Front wiring harness and DRL wiring
A-09X (5)	Condenser fan relay (LO)		harness combination
A-10X (5)	A/C compressor relay	A-22 (2-B)	Front speed sensor (LH) <abs></abs>
A-12X (5)	Headlamp relay	A-23 (10-B)	Front wiring harness and control wiring
A-14X (5)	Radiator fan relay		harness combination
A-15X (5)	Tail lamp relay <drl></drl>	A-24 (2-B)	Front turn signal lamp (LH)
A-16 (13)	DRL-ECU	A-25 (3-B)	Headlamp leveling unit (LH)

WIRING HARNESS CONFIGURATION DIAGRAMS



A-26 (2-B)	Position lamp (LH)	A-38 (1)	Power steering oil pressure switch
A-27 (3-B)	Headlamp (LH)	A-39 (3-B)	Headlamp (RH)
A-28 (2)	Outside thermo sensor	A-40 (2-B)	Position lamp (RH)
A-29 (2-GR)	Front fog lamp (LH)	A-41 (3-B)	Headlamp leveling unit (RH)
A-30 (2-B)	Horn (LH)	A-42 (2-B)	Headlamp washer motor
A-31 (2-B)	Radiator fan motor	A-43 (2-B)	Front turn signal lamp (RH)
A-33 (2-BR)	Dual pressure switch	A-44 (2-BR)	Washer fluid level sensor
A-34 (4-B)	Condenser fan motor	A-45 (2-B)	Windshield washer motor
A-35 (2-B)	Horn (RH)	A-46 (2)	Rear washer motor
A-36 (2-GR)	Front fog lamp (RH)	A-47 (31-B)	ABS-ECU
A-37 (1-B)	A/C refrigerant temperature switch and magnetic clutch	A-79 (1-B)	Spare connector for front fog lamp