

2004 MY PAJERO/MONTERO

Technical Highlights & Service Points For G. EXP, GCC



Pub. No. PTAE0309CK

FOREWORD

This Technical Highlights & Service Points Book-1 describes the new technical features and major modifications on 2004 PAJERO for General Export Countries and GCC.

The purpose of this book is to provide information of new equipped 6G75 engine mainly for training and other service activities.

As to the information of 4M40/41, 6G72, 6G74 engines and INVECSII A/T and Super Select 4WD-II in details, please refer to the previous training text books, workshop manuals and/or other publications.

All information in this book is current as of the time of publication.

We, however, reserve the right to make changes at any time without prior notice or obligation.

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Global Training Department
MITSUBISHI MOTORS CORPORATION

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0 0 GENERAL

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1 . Major changed features

Group No.	Features, modifications	Note
00 / 11	2.8L 3-door GL-RHD and 3.0L V6 5-door GLX and GLS RHD models have been discontinued	Revised
	The models with new 6G75 V6 S4-ECI MULTI (3.8L) engine has been added	New
13B	Electronic Throttle Valve (ETV) has been adopted	3.8L Models
15	Variable induction control system has been adopted	3.8L Models
23	The vehicle with 4M40 engine has been changed to 4 A/T-Sport mode.	4M40 Models
42	Upgraded anti-corrosion body has been applied	Vehicles for China
52	Seat belts with pre-tensioner for driver's and passenger's	Vehicles for Australia
54	Revised RV meter	GLS Models for G.Exp.
	Speed alarm system has been changed	Vehicles for GCC

* LWB : Long Wheel Base

2 . Model line-up

(1) GENERAL EXPORT - Short Wheelbase

(Except BRAZIL, TAIWAN, HONG KONG, SOUTH AFRICA and ARGENTINA)

Model Code		Engine	Transmission	4WD system
Left hand	Right hand			
V66WMNDFL		2.8L Inter cooled T/C Diesel (4M40)	5M/T (V5M31)	Super Select 4WD (SS4-II)
V66WMNXFL				
V63WMRXVL		3.0L V6 S4 ECI-MULTI (6G72)	INVECS-II 4A/T with Sports Mode (V4A51)	
V67WMYXVL		3.8L V6 S4 ECI-MULTI (6G75)	INVECS-II 5A/T with Sports Mode (V5A51)	
V67WMYXVQL*				

* : Step 2, 87US emission regulation models

Bold : New

GENERAL EXPORT - Long Wheelbase (1)

Model Code		Engine	Transmission	4WD system
Left hand	Right hand			
V76WLNDFL	V76WLNDFR	2.8L Inter cooled T/C Diesel (4M40)	5M/T (V5M31)	Super Select 4WD (SS4-II)
V76WLNDFQL *				
V76WLNHFL	V76WLNHFR			
V76WLNHFQL *	V76WLNHFQR *			
V76WLNXFL	V76WLNXFR			
V76WLNXFQL *				
V76WLRXFL	V76WLRXFR		INVECS-II 4A/T with Sports Mode (V4A51)	
V76WLRXFQL *				
V73WLNDVL	V73WLNDVR		3.0L V6 S4 ECI-MULTI (6G72)	
V73WLNDVQL *				
V73WLNHVL	V73WLNHVR			
V73WLNXVL *				
V73WLNXVQL *				
V73WLRXVL *	V73WLRXVR	INVECS-II 4A/T with Sports Mode (V4A51)		
V73WLRXVQL *				

* : Step 2, 87US emission regulation models

GENERAL EXPORT - Long Wheelbase (2)

Model Code		Engine	Transmission	4WD system
Left hand	Right hand			
V78WLNXFQL *		3.2L D4 Inter cooled T/C DI-D (4M41)	5M/T (V5M31)	Super Select 4WD (SS4-II)
V78WLYXFQL *	V78WLYXFQR *		INVECS-II 5A/T with Sports Mode (V5A51)	
V75WLNXLVL	V75WLNXLVR	3.5L V6 S4 ECI-MULTI (6G74)	5M/T (V5M31)	
V75WLNXLVQL *				
V77WLYXLVL	V77WLYXLVR	3.8L V6 S4 ECI-MULTI (6G75)	INVECS-II 5A/T with Sports Mode (V5A51)	
V77WLYXLVQL *				

(2) GCC - Short Wheelbase

Model Code		Engine	Transmission	4WD system
Left hand	Right hand			
V63WMRXLVLW		3.0L V6 S4 ECI-MULTI (6G72)	INVECS-II 4A/T with Sports Mode (V4A51)	Super Select 4WD (SS4-II)
V65WMNDVLW		3.5L V6 S4 ECI-MULTI (6G74)	5M/T (V5M31)	
V67WMYXLVLW		3.8L V6 S4 ECI-MULTI (6G75)	INVECS-II 5A/T with Sports Mode (V5A51)	

* : Step 2, 87US emission regulation models

Bold : New

GCC - Long Wheelbase

Model Code		Engine	Transmission	4WD system
Left hand	Right hand			
V73WLNDVLW		3.0L V6 S4 ECI-MULTI (6G72)	5M/T (V5M31)	Super Select 4WD (SS4-II)
V73WLRDVLW			INVECS-II 4A/T with Sports Mode (V4A51)	
V73WLNXLVW			5M/T (V5M31)	
V73WLRXLVW			INVECS-II 4A/T with Sports Mode (V4A51)	
V75WLNDVLW		3.5L V6 S4 ECI-MULTI (6G74)	5M/T (V5M31)	
V75WLNXLVW				
V75WLYXLVW				
V77WLYXLVW		3.8L V6 S4 ECI-MULTI (6G75)	INVECS-II 5A/T with Sports Mode (V5A51)	

Bold : New models

(3) BRAZIL - Short wheelbase

Model Code	Engine	Transmission	4WD system
V67WMYXVQL1B	3.8L V6 S4 ECI-MULTI (6G75)	INVECS-II 5A/T with Sports Mode (V5A51)	Super Select 4WD (SS4-II)

BRAZIL - Long Wheelbase

Model Code	Engine	Transmission	4WD system
V76WLNXFQL1B	2.8L Inter cooled T/C (4M40)	5M/T (V5M31)	Super Select 4WD (SS4-II)
V76WLRXFQL1B		INVECS-II 4A/T with Sports Mode (V4A51)	
V77WLYXVQL1B	3.8L V6 S4 ECI- MULTI (6G75)	INVECS-II 5A/T with Sports Mode (V5A51)	
V78WLNXFQL1B	3.2L D4 Inter cooled T/C DI-D (4M41)	5M/T (V5M31)	
V78WLYXFQL1B		INVECS-II 5A/T with Sports Mode (V5A51)	

Bold : New models

(4) TAIWAN - Long wheelbase

Model Code	Engine	Transmission	4WD system
V77WLYXVQL1Q	3.8L V6 S4 ECI-MULTI (6G75)	INVECS-II 5A/T with Sports Mode (V5A51)	Super Select 4WD (SS4-II)

Bold : New models

(5) HONG KONG - Long wheelbase

Model Code	Engine	Transmission	4WD system
V73W LNDVQR1D	3.0L V6 S4 ECI- MULTI (6G72)	5M/T (V5M31)	Super Select 4WD (SS4-II)
V73WLRUVQR1D		INVECS-II 4A/T with Sports Mode (V4A51)	
V75WLYXCQR1D	3.5L V6 D4 GDI (6G74)	INVECS-II 5A/T with Sports Mode (V5A51)	

(6) SOUTH AFRICA - Short wheelbase

Model Code	Engine	Transmission	4WD system
V68WMNXFR6S	3.2L D4 Inter cooled T/C DI-D (4M41)	5M/T (V5M31)	Super Select 4WD (SS4-II)
V68WMYXFR6S		INVECS-II 5A/T with Sports Mode (V5A51)	
V67WMYXVR6S	3.8L V6 S4 ECI-MULTI (6G75)		

SOUTH AFRICA - Long wheelbase

Model Code	Engine	Transmission	4WD system
V78WLNXXFR6S	3.2L D4 Inter cooled T/C DI-D (4M41)	5M/T (V5M31)	Super Select 4WD (SS4-II)
V78WLYXFR6S		INVECS-II 5A/T with Sports Mode (V5A51)	
V75WLNXXVR6S	3.5L V6 S4 ECI-MULTI (6G74)	5M/T (V5M31)	
V77WLYXVR6S	3.8L V6 S4 ECI-MULTI (6G75)	INVECS-II 5A/T with Sports Mode (V5A51)	

Bold : New

(7) ARGENTINA - Long wheelbase

Model Code	Engine	Transmission	4WD system
V76WLNXL6A	2.8L Inter cooled T/C (4M40)	5M/T (V5M31)	Super Select 4WD (SS4-II)
V78WLNXL6A	3.2L D4 Inter cooled T/C DI-D (4M41)		

(8) AUSTRALIA - Long wheelbase

Model Code	Engine	Transmission	4WD system
V78WLNHFR8	3.2L D4 Inter cooled T/C DI-D (4M41)	5M/T(V5M31)	Super Select 4WD (SS4-II)
V78WLYHFR8		INVECS-II 5A/T with Sports Mode (V5A51)	
V78WLNXFR8		5M/T(V5M31)	
V78WLYXFR8		INVECS-II 5A/T with Sports Mode (V5A51)	
V78WLNPF8		5M/T(V5M31)	
V78WLYPF8		INVECS-II 5A/T with Sports Mode (V5A51)	
V75WLNHVR8	3.5L V6 S4 ECI-MULTI (6G74)	5M/T (V5M31)	
V75WLNXVR8			
V77WLYHVR8	3.8L V6 S4 ECI-MULTI (6G75)	INVECS-II 5A/T with Sports Mode (V5A51)	
V77WLYXVR8			
V77WLYPVR8			

Bold : New

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3 . Model Code

<u>V</u>	<u>6</u>	<u>7</u>	<u>W</u>	<u>M</u>	<u>Y</u>	<u>X</u>	<u>V</u>	<u> </u>	<u>L</u>	<u>W</u>
1	2	3	4	5	6	7	8	9	10	11

- | | |
|--|---|
| <p>1 Development
V : PAJERO, MONTERO</p> <p>2 Model type
6 : Short wheelbase
7 : Long wheelbase</p> <p>3 Engine type
3 : 6G72 3.0 Liters, Petrol
5 : 6G74 3.5 Liters, Petrol
6 : 4M40 2.8 Liters, Diesel
7 : 6G75 3.8 Liters, Petrol
8 : 4M41 3.2 Liters, Diesel</p> <p>4 Sort
W : Wagon</p> <p>5 Body style
L : 5-door
M : 3-door</p> <p>6 Transmission
N : 5 Manual transmission
R : 4 Automatic transmission with
Sports mode
Y : 5 Automatic transmission with
Sports mode</p> | <p>7 Trim level
D : GL, H : GLX, X : GLS, LTD</p> <p>8 Specified engine feature
C : GDI
F : Turbo charger with intercooler
V : ECI-MULTI (MPI)</p> <p>9 Exhaust emission specification
Q : With catalytic converter
None : Without catalytic converter</p> <p>10 Steering wheel location
L : Left hand
R : Right hand</p> <p>11 Destination
W : for GCC
1B: for BRAZIL
1C: for CHINA
1D: for HONG KONG
1Q: for TAIWAN
6S : for SOUTH AFRICA
8 : for AUSTRALIA
None : for GENERAL EXPORT</p> |
|--|---|

4 . Chassis Number General Export and Australia

<u>J</u>	<u>M</u>	<u>Y</u>	<u>L</u>	<u>N</u>	<u>V6</u>	<u>7</u>	<u>W</u>	<u>4</u>	<u>J</u>	<u>000001</u>
1	2	3	4	5	6	7	8	9	10	11

1 Fixed figure

J : Asia

2 Distribution channel

M : Japan channel

3 Destination

Y : General Export

F : Australia

4 Body style

M : 3-door

L : 5-door

5 Transmission

N : 5 Speed Manual transmission

R : 4 Speed Automatic transmission with
Sports mode

Y : 5 Speed Automatic transmission with
Sports mode

6 Development order

V6 : MITSUBISHI PAJERO/MONTERO
Short wheelbase

V7 : MITSUBISHI PAJERO/MONTERO
Long wheelbase

7 Engine

3 : 6G72 3.0L Petrol

5 : 6G74 3.5L Petrol

6 : 4M40 2.8L Diesel

7 : 6G75 3.8L Petrol

8 : 4M41 3.2L Diesel

8 Sort

W : Station wagon

9 Model year

4 : 2004

10 Plant

J : Pajero Manufacturing Co., Ltd.

11 Serial number

000001 : General Export (Except BRAZIL)
AUSTRALIA

100001 : since January 2001 (BRAZIL)

5 . Chassis Number GCC

<u>J</u>	<u>M</u>	<u>Y</u>	<u>M</u>	<u>N</u>	<u>V6</u>	<u>7</u>	<u>W</u>	<u>4</u>	<u>J</u>	<u>700001</u>
1	2	3	4	5	6	7	8	9	10	11

1 Fixed figure

J : Asia

2 Distribution channel

M : Japan channel

3 Destination

Y : for GCC

4 Body style

M : 3-door

L : 5-door

5 Transmission

N : 5 Speed Manual transmission

R : 4 Speed Automatic transmission with
Sports modeY : 5 Speed Automatic transmission with
Sports mode

6 Development order

V6 : MITSUBISHI PAJERO/MONTERO
Short wheelbaseV7 : MITSUBISHI PAJERO/MONTERO
Long wheelbase

7 Engine

3 : 6G72 3.0L Petrol

5 : 6G74 3.5L Petrol

7 : 6G75 3.8L Petrol

8 Sort

W : Station wagon

9 Model year

4 : 2004

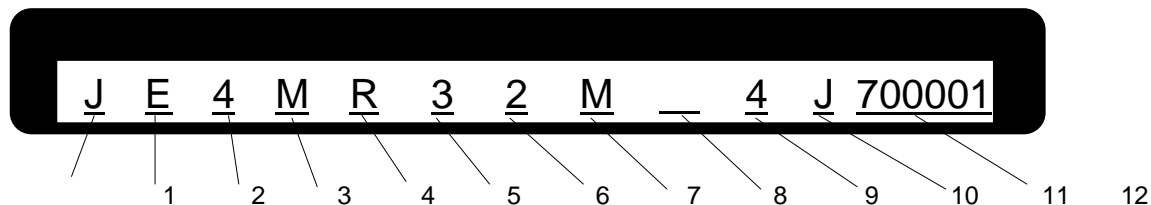
10 Plant

J : Pajero Manufacturing Co., Ltd.

11 Serial number

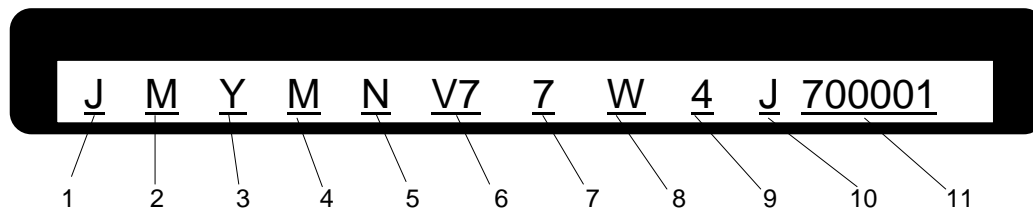
700001 to 799999

6 . Vehicle Identification Code Chart Plate GCC



- | | |
|---|--|
| 1 Fixed figure
J : Japan | 7 Body
2 : 5-door
3 : 3-door |
| 2 Make
E : Mitsubishi | 8 Engine
M : 3.0L ECI-MULTI (MPI)
N : 3.5L ECI-MULTI (MPI)
O : 3.8L ECI-MULTI (MPI) |
| 3 Vehicle type
4 : Multi-purpose passenger vehicle | 9 Check digits*1
1, 2, 3, 9, X |
| 4 Others
M : 2,268kg - 2,722kg/HYDRAULIC | 10 Model year
4 : 2004 |
| 5 Car line
R : PAJERO | 11 Plant
J : Pajero Manufacturing Co., Ltd. |
| 6 Price class
3 : GL, 5 : GLX, 6 : GLS | 12 Serial number
700001 to 799999 |

6 . Vehicle Identification Code Chart Plate UAE, KUWAIT, OMAN



- | | |
|--|---|
| 1 Fixed figure
J : Asia | 7 Engine
3 : 6G72 3.0L ECI-MULTI
5 : 6G74 3.5L ECI-MULTI
7 : 6G75 3.8L ECI-MULTI |
| 2 Distribution channel
M : Japan channel | 8 Sort
W : Station wagon |
| 3 Destination
Y : for GCC | 9 Model year
4 : 2004 |
| 4 Body style
M : 3-door
L : 5-door | 10 Plant
J : Pajero Manufacturing Co., Ltd. |
| 5 Transmission type
N : 5 Speed Manual transmission
R : 4 Speed Automatic transmission with Sports mode
Y : 5 Speed Automatic transmission with Sports mode | 11 Serial number
700001 to 799999 |
| 6 Development order
V6 : PAJERO Short wheel base
V7 : PAJERO Long wheel base | |

7 . Major Specifications for G.Exp

< Except CHINA, HONG KONG and ARGENTINA because of 03-MY carry over >

7-1. 3-door models

1) Dimensions and Weights

Engine		2.8L Intecooled T/C Diesel		3.0L V6 ECI-MULTI	3.8L V6 ECI-MULTI	
Price class		GL	GLS	GLS	GLS	
Model code		V66WMNDFL	V66WMNXFL	V63WMRXVL	V67WMYXVL	V67WMYXVQL*
Transmission		5M/T		4A/T	5A/T	
Overall length	mm	4,295	4,315	4,315	4,315	
Overall width	mm	1,885	1,895	1,895	1,895	
Overall height	mm	1,845		1,845	1,845	
Wheelbase	mm	2,545		2,545	2,545	
Front track	mm	1,560		1,560	1,560	
Rear track	mm	1,560		1,560	1,560	
Ground clearance	mm	235		235	235	
Cargo room length	mm	1,025	1,010	1,010	1,010	
Cargo room width	mm	1,400		1,400	1,400	
Cargo room height	mm	1,105		1,105	1,105	
Curb weight	kg	1,890	1,945	1,895	1,945	
Seating capacity	person	5		5	5	

* : Step 2, 87US emission regulation model

Bold : New or revised

2) Performance

Engine	2.8L Intecooled T/C Diesel		3.0L V6 ECI-MULTI	3.8L V6 ECI-MULTI	
Price class	GL	GLS	GLS	GLS	
Model code	V66WMNDFL	V66WMNXFL	V63WMRXVL	V67WMYXVL	V67WMYXVQL*
Transmission	5M/T		4A/T	5A/T	
Max. speed km/h	160		170	180	
Roof carrying capacity kg	100		100	100	
Max. climbing ability tan	0.7		0.7	0.7	
Min. turning radius m	5.3		5.3	5.3	
Approach angle	39.0 °		39.0 °	39.0 °	
Ramp break-over angle	26.5 °		26.5 °	26.5 °	
Departure angle	33.5 °		33.5 °	33.5 °	
Engine type	4M40		6G72	6G75	
Displacement cc	2,835		2,972	3,828	
Bore x Stroke mm	95.0 x 100.0		91.1 x 76.0	95.0 x 91.0	
Compression ratio	21.0		9.0	9.5	
Max. output (EEC net) kW (PS) / rpm	92 (125) / 4,000		133 (181) / 5,500	150 (204) / 5,000	
Max. torque (EEC net) Nm (kgm) / rpm	292 (30.0) / 2,000		255 (26.0) / 4,500	314 (32.0) / 3,250	

* : Step 2, 87US emission regulation model **Bold : New or revised**

3) Electrical system

Engine	2.8L Intecooled T/C Diesel		3.0L V6 ECI-MULTI	3.8L V6 ECI-MULTI	
Price class	GL	GLS	GLS	GLS	
Model code	V66WMNDFL	V66WMNXFL	V63WMRXVL	V67WMYXVL	V67WMYXVQL*
Transmission	5M/T		4A/T	5A/T	
Battery	95D31L		75D23L	75D23L	
Alternator V-A	12 - 90		12 - 110	12 - 110	
Starter motor V-kW	12 - 2.2		12 - 1.4	12 - 1.4	

4) Fuel system

Engine	2.8L Intecooled T/C Diesel		3.0L V6 ECI-MULTI	3.8L V6 ECI-MULTI	
Price class	GL	GLS	GLS	GLS	
Model code	V66WMNDFL	V66WMNXFL	V63WMRXVL	V67WMYXVL	V67WMYXVQL*
Transmission	5M/T		4A/T	5A/T	
Fuel supply equipment	Indirect injection fuel pump		ECI-MULTI	ECI-MULTI	
Fuel tank capacity Liters	71				

* : Step 2, 87US emission regulation model **Bold : New or revised**

5) Transfer

Engine		2.8L Intecooled T/C Diesel		3.0L V6 ECI-MULTI	3.8L V6 ECI-MULTI	
Price class		GL	GLS	GLS	GLS	
Model code		V66WMNDFL	V66WMNXFL	V63WMRXVL	V67WMYXVL	V67WMYXVQL*
Transmission		5M/T		4A/T	5A/T	
Drive system		Super select 4WD (SS4-II)		Super select 4WD (SS4-II)	Super select 4WD (SS4-II)	
Transfer gear ratio	High	1.000		1.000	1.000	
	Low	1.900		1.900	1.900	

6) Transmission

Engine		2.8L Intecooled T/C Diesel		3.0L V6 ECI-MULTI	3.8L V6 ECI-MULTI	
Price class		GL	GLS	GLS	GLS	
Model code		V66WMNDFL	V66WMNXFL	V63WMRXVL	V67WMYXVL	V67WMYXVQL*
Transmission		5M/T		4A/T	5A/T	
Type		V 5M 31		V 4A 51(INVECS II Sports mode)	V 5A 51(INVECS II Sports mode)	
Clutch		Single, dry plate, hydraulic actuation		Torque converter	Torque converter	
Gear ratio	1st	3.952		2.842	3.789	
	2nd	2.238		1.495	2.057	
	3rd	1.398		1.000	1.421	
	4th	1.000		0.731	1.000	
	5th	0.761			0.731	
	Reverse	3.553		2.720	3.865	
	Final	4.900		4.636	4.300	

7) Steering

Engine	2.8L Intecooled T/C Diesel		3.0L V6 ECI-MULTI	3.8L V6 ECI-MULTI	
Price class	GL	GLS	GLS	GLS	
Model code	V66WMNDFL	V66WMNXFL	V63WMRXVL	V67WMYXVL	V67WMYXVQL*
Transmission	5M/T		4A/T	5A/T	
Type	Rack & Pinion, power-assisted				

8) Suspensions

Engine	2.8L Intecooled T/C Diesel		3.0L V6 ECI-MULTI	3.8L V6 ECI-MULTI	
Price class	GL	GLS	GLS	GLS	
Model code	V66WMNDFL	V66WMNXFL	V63WMRXVL	V67WMYXVL	V67WMYXVQL*
Transmission	5M/T		4A/T	5A/T	
Front	Double wishbone coil springs with stabilizer bar				
Rear	Multi-link coil springs with stabilizer bar				

9) Brakes

Engine	2.8L Intecooled T/C Diesel		3.0L V6 ECI-MULTI	3.8L V6 ECI-MULTI	
Price class	GL	GLS	GLS	GLS	
Model code	V66WMNDFL	V66WMNXFL	V63WMRXVL	V67WMYXVL	V67WMYXVQL*
Transmission	5M/T		4A/T	5A/T	
Front	16"ventilated discs (2pot)			16"ventilated discs (2pot)	
Rear	16" ventilated drum-in-discs			16" ventilated drum-in-discs	
Booster	8" + 9" vacuum			Hydraulic brake booster w / ABS	

1 0) Tires and wheels

Engine	2.8L Intecooled T/C Diesel		3.0L V6 ECI-MULTI	3.8L V6 ECI-MULTI	
Price class	GL	GLS	GLS	GLS	
Model code	V66WMNDFL	V66WMNXFL	V63WMRXVL	V67WMYXVL	V67WMYXVQL*
Transmission	5M/T		4A/T	5A/T	
Tires	235 / 80R16	265 / 70R16			
Wheels	16" x 6JJ steel	16" 7JJ light alloy			

* : Step 2, 87US emission regulation model **Bold : New or revised**

8 . Major Specifications for G.Exp

8-1. 5-door model <2.8-liter Intercooled T/C Diesel>

1) Dimensions and Weights

Engine		2 . 8L Intercooled T/C Diesel							
Price class		GL		GLX		GLS			
Model code	LHD	V76WLNDFL	V76WLNDFQL*	V76WLNHFL	V76WLNHFQL*	V76WLNXFL	V76WLNXFQL*	V76WLRXFL	V76WLRXFQL*
	RHD	V76WLNDFR		V76WLNHFR	V76WLNHFQR*	V76WLNXFR		V76WLRXFR	
Transmission		5M/T						4A/T	
Overall length	mm	4,810				4,830			
Overall width	mm	1,885				1,895			
Overall height	mm	1,855							
Wheelbase	mm	2,780							
Front track	mm	1,560							
Rear track	mm	1,560							
Ground clearance	mm	235							
Cargo room length	mm	1,510		1,495					
Cargo room width	mm	1,470		1,405					
Cargo room height	mm	1,105							
Curb weight	kg	2,020		2,065		2,125			
Seating capacity	persons	9		7					

* : Step 2, 87US emission regulation model

2) Performance

Engine		2 . 8 L Intercooled T/C Diesel							
Price class		GL		GLX		GLS			
Model code	LHD	V76WLNDFL	V76WLNDFQL*	V76WLNHFL	V76WLNHFQL*	V76WLNXFL	V76WLNXFQL*	V76WLRXFL	V76WLRXFQL*
	RHD	V76WLNDFR		V76WLNHFR	V76WLNHFQR*	V76WLNXFR		V76WLRXFR	
Transmission		5M/T						4A/T	
Max. speed	km/h	160							
Roof carrying capacity	kg	100							
Max. climbing ability	tan	0.7							
Min. turning radius	m	5.7							
Approach angle		39 °							
Ramp break-over angle		24.5 °							
Departure angle		24.0 °							
Engine type		2.8-Liter S4 Intercooled Turbo charged Diesel (4M40)							
Displacement	cc	2,835							
Bore x Stroke	mm	95.0 x 100.o							
Compression ratio		21.0							
Max. output (EEC net) kW (PS) / rpm		92 (125) / 4,000							
Max. torque (EEC net) Nm (kgm) / rpm		294 (30.0) / 2,000							

* : Step 2, 87US emission regulation model

3) Electrical system

Engine		2 . 8 L Intercooled T/C Diesel							
Price class		GL		GLX		GLS			
Model code	LHD	V76WLNDFL	V76WLNDFQL*	V76WLNHFL	V76WLNHFQL*	V76WLNXFL	V76WLNXFQL*	V76WLRXFL	V76WLRXFQL*
	RHD	V76WLNDFR		V76WLNHFR	V76WLNHFQR*	V76WLNXFR		V76WLRXFR	
Transmission		5M/T						4A/T	
Battery		95D31L							
Alternator	V-A	12 - 90							
Starter motor	V-kW	12 - 2.2							

4) Fuel system

Engine		2 . 8 L Intercooled T/C Diesel							
Price class		GL		GLX		GLS			
Model code	LHD	V76WLNDFL	V76WLNDFQL*	V76WLNHFL	V76WLNHFQL*	V76WLNXFL	V76WLNXFQL*	V76WLRXFL	V76WLRXFQL*
	RHD	V76WLNDFR		V76WLNHFR	V76WLNHFQR*	V76WLNXFR		V76WLRXFR	
Transmission		5M/T						4A/T	
Fuel supply equipment		Indirect injection fuel pump							
Fuel tank capacity Liters		90							

* : Step 2, 87US emission regulation model

5) Transfer

Engine		2 . 8 L Intercooled T/C Diesel							
Price class		GL		GLX		GLS			
Model code	LHD	V76WLNDFL	V76WLNDFQL*	V76WLNHFL	V76WLNHFQL*	V76WLNXFL	V76WLNXFQL*	V76WLRXFL	V76WLRXFQL*
	RHD	V76WLNDFR		V76WLNHFR	V76WLNHFQR*	V76WLNXFR		V76WLRXFR	
Transmission		5M/T						4A/T	
Drive system		Super select 4WD (SS4 - II)							
Transfer gear ratio	High	1.000							
	Low	1.900							

6) Transmission

Engine		2 . 8 L Intercooled T/C Diesel							
Price class		GL		GLX		GLS			
Model code	LHD	V76WLNDFL	V76WLNDFQL*	V76WLNHFL	V76WLNHFQL*	V76WLNXFL	V76WLNXFQL*	V76WLRXFL	V76WLRXFQL*
	RHD	V76WLNDFR		V76WLNHFR	V76WLNHFQR*	V76WLNXFR		V76WLRXFR	
Transmission		5M/T						4A/T	
Type		V 5 M 31						V 4A 51(INVECS II Sports mode)	
Clutch		Single, dry plate with hydraulic actuation						Torque converter	
Gear ratio	1st	3.952						2.842	
	2nd	2.238						1.495	
	3rd	1.398						1.000	
	4th	1.000						0.731	
	5th	0.761							
	Reverse	3.553						2 . 7 2 0	
	Final	4.900							

7) Steering

Engine		2 . 8 L Intercooled T/C Diesel							
Price class		GL		GLX		GLS			
Model code	LHD	V76WLNDFL	V76WLNDFQL*	V76WLNHFL	V76WLNHFQL*	V76WLNXFL	V76WLNXFQL*	V76WLRXFL	V76WLRXFQL*
	RHD	V76WLNDFR		V76WLNHFR	V76WLNHFQR*	V76WLNXFR		V76WLRXFR	
Transmission		5M/T						4A/T	
Type		Rack - and - pinion							

8) Suspension

Engine		2 . 8 L Intercooled T/C Diesel							
Price class		GL		GLX		GLS			
Model code	LHD	V76WLNDFL	V76WLNDFQL*	V76WLNHFL	V76WLNHFQL*	V76WLNXFL	V76WLNXFQL*	V76WLRXFL	V76WLRXFQL*
	RHD	V76WLNDFR		V76WLNHFR	V76WLNHFQR*	V76WLNXFR		V76WLRXFR	
Transmission		5M/T						4A/T	
Front		Double wishbone coil springs with stabilizer bar							
Rear		Multi - link coil springs with stabilizer bar							

9) Brake

Engine		2 . 8 L Intercooled T/C Diesel							
Price class		GL		GLX		GLS			
Model code	LHD	V76WLNDFL	V76WLNDFQL*	V76WLNHFL	V76WLNHFQL*	V76WLNXFL	V76WLNXFQL*	V76WLRXFL	V76WLRXFQL*
	RHD	V76WLNDFR		V76WLNHFR	V76WLNHFQR*	V76WLNXFR		V76WLRXFR	
Transmission		5M/T						4A/T	
Front		16" ventilated discs (2 - pot)							
Rear		16" drum-in-discs							
Booster		8" + 9" vacuum							

1 0) Tires and wheels

Engine		2 . 8 L Intercooled T/C Diesel							
Price class		GL		GLX		GLS			
Model code	LHD	V76WLNDFL	V76WLNDFQL*	V76WLNHFL	V76WLNHFQL*	V76WLNXFL	V76WLNXFQL*	V76WLRXFL	V76WLRXFQL*
	RHD	V76WLNDFR		V76WLNHFR	V76WLNHFQR*	V76WLNXFR		V76WLRXFR	
Transmission		5M/T						4A/T	
Tires		235 / 80R16				265 /70R16			
Wheels		16" x 6.0JJ steel				16" x 7.0JJ light alloy			

* : Step 2, 87US emission regulation model

8-2. 5-door model < 3.0-liter V6 MPI >

1) Dimensions and Weights

Engine		3.0 V6 ECI-MULTI						
Price class		GL		GLX	GLS			
Model code	LHD	V73WLNDVL	V73WLNDVQL*	V73WLNHVL	V73WLNXL	V73WLNXLVQL*	V73WLRXL	V73WLRXLVQL*
	RHD	V73WLNDVR		V73WLNHVR			V73WLRXVR	
Transmission		5M/T					4A/T	
Overall length	mm	4,810			4,830			
Overall width	mm	1,885			1,895			
Overall height	mm	1,855						
Wheelbase	mm	2,780						
Front track	mm	1,560						
Rear track	mm	1,560						
Ground clearance	mm	235						
Cargo room length	mm	1,510		1,495				
Cargo room width	mm	1,470		1,405				
Cargo room height	mm	1,105						
Curb weight	kg	1,960		2,005	2,065			
Seating capacity	persons	9		7				

* : Step 2, 87US emission regulation model

2) Performance

Engine		3.0 V6 ECI-MULTI						
Price class		GL		GLX	GLS			
Model code	LHD	V73WLNDVL	V73WLNDVQL*	V73WLNHVL	V73WLNXL	V73WLNXLVQL*	V73WLRXL	V73WLRXLVQL*
	RHD	V73WLNDVR		V73WLNHVR			V73WLRXVR	
Transmission		5M/T					4A/T	
Max. speed	km/h	175						170
Roof carrying capacity	kg	100						
Max. climbing ability	tan	0.7						
Min. turning radius	m	5.7						
Approach angle		39.0						
Ramp break-over angle		24.5						
Departure angle		24.0						
Engine type		3.0-liter S4 ECI-MULTI (6G72)						
Displacement	cc	2,972						
Bore x Stroke	mm	91.1 x 76.0						
Compression ratio		9.0						
Max. output (EEC net)	kW (PS) / rpm	133 (181) / 5,500						
Max. torque (EEC net)	Nm (kgm) / rpm	255 (26.0) / 4,500						

* : Step 2, 87US emission regulation model

3) Electrical system

Engine		3.0 V6 ECI-MULTI						
Price class		GL		GLX	GLS			
Model code	LHD	V73WLNDVL	V73WLNDVQL*	V73WLNHVL	V73WLNXLVL	V73WLNXLVQL*	V73WLRXLVL	V73WLRXLVQL*
	RHD	V73WLNDVRL		V73WLNHVR			V73WLRXLVR	
Transmission		5M/T					4A/T	
Battery		75D23L						
Alternator V-A		12 - 110						
Starter motor V-kW		12 - 1.2					12 - 1.4	

4) Fuel system

Engine		3.0 V6 ECI-MULTI						
Price class		GL		GLX	GLS			
Model code	LHD	V73WLNDVL	V73WLNDVQL*	V73WLNHVL	V73WLNXLVL	V73WLNXLVQL*	V73WLRXLVL	V73WLRXLVQL*
	RHD	V73WLNDVRL		V73WLNHVR			V73WLRXLVR	
Transmission		5M/T					4A/T	
Fuel supply equipment		ECI - MULTI						
Fuel tank capacity Liters		90						

* : Step 2, 87US emission regulation model

5) Transfer

Engine		3.0 V6 ECI-MULTI						
Price class		GL		GLX	GLS			
Model code	LHD	V73WLNDVL	V73WLNDVQL*	V73WLNHVL	V73WLNXLVL	V73WLNXLVQL*	V73WLRXLVL	V73WLRXLVQL*
	RHD	V73WLNDVR		V73WLNHVR			V73WLRXVR	
Transmission		5M/T					4A/T	
Drive system		Super select 4WD (SS4-II)**		Super select 4WD (SS4-II)				
Transfer gear ratio	High	1.000						
	Low	1.900						

6) Transmission

Engine		3.0 V6 ECI-MULTI						
Price class		GL		GLX	GLS			
Model code	LHD	V73WLNDVL	V73WLNDVQL*	V73WLNHVL	V73WLNXL	V73WLNXLVQL*	V73WLRXL	V73WLRXLVQL*
	RHD	V73WLNDVR		V73WLNHVR			V73WLRXVR	
Transmission		5M/T					4A/T	
Type		V5M31					INVECS-II 4A/T Sports mode	
Clutch		Single-dry plate with hydraulic actuation					Torque converter	
Gear ratio	1st	3.952**		3.952			2.842	
	2nd	2.238**		2.238			1.495	
	3rd	1.398**		1.398			1.000	
	4th	1.000**		1.000			0.731	
	5th	0.819**		0.819				
	Reverse	3.553**		3.553			2.720	
	Final	4.636						

7) Steering

Engine		3.0 V6 ECI-MULTI						
Price class		GL		GLX	GLS			
Model code	LHD	V73WLNDVL	V73WLNDVQL*	V73WLNHVL	V73WLNXL	V73WLNXLVQL*	V73WLRXL	V73WLRXLVQL*
	RHD	V73WLNDVR		V73WLNHVR			V73WLRXVR	
Transmission		5M/T					4A/T	
Type		Rack and pinion (power assisted)						

8) Suspensions

Engine		3.0 V6 ECI-MULTI						
Price class		GL		GLX	GLS			
Model code	LHD	V73WLNDVL	V73WLNDVQL*	V73WLNHVL	V73WLNXL	V73WLNXLVQL*	V73WLRXL	V73WLRXLVQL*
	RHD	V73WLNDVR		V73WLNHVR			V73WLRXVR	
Transmission		5M/T					4A/T	
Front		Double wishbone coil springs with stabilizer bar						
Rear		Multi-link coil springs with stabilizer						

9) Brakes

Engine		3.0 V6 ECI-MULTI						
Price class		GL		GLX	GLS			
Model code	LHD	V73WLNDVL	V73WLNDVQL*	V73WLNHVL	V73WLNXL	V73WLNXLVQL*	V73WLRXL	V73WLRXLVQL*
	RHD	V73WLNDVR		V73WLNHVR			V73WLRXVR	
Transmission		5M/T					4A/T	
Front		16" ventilated discs (2-pot)						
Rear		16" ventilated drum-in-discs						
Booster		8" + 9" vacuum						

1 0) Tires and wheels

Engine		3.0 V6 ECI-MULTI						
Price class		GL		GLX	GLS			
Model code	LHD	V73WLNDVL	V73WLNDVQL*	V73WLNHVL	V73WLNXL	V73WLNXLVQL*	V73WLRXL	V73WLRXLVQL*
	RHD	V73WLNDVR		V73WLNHVR			V73WLRXVR	
Tires		235/ 80R16			265/ 70R16			
Wheels		16" x 6.0JJ steel			16" x 7.0JJ light alloy wheel			

* : Step 2, 87US emission regulation model

8- 3. 5-door model < 3.2-liter DI-D, 3.5-liter V6-MPI, 3.8-liter V6-MPI >

1) Dimensions and Weights

Engine		3.2 Intercooled T/V DI-D		3.5 V6 ECI-MULTI		3.8 V6 ECI-MULTI	
Price class		GLS					
Model code	LHD	V78WLYXFQL*	V78WLNXFQL*	V75WLNXLVL	V75WLNXLVQL*	V77WLYXLVL	V77WLYXLVQL*
	RHD	V78WLYXFQR*		V75WLNXLVR		V77WLYXLVR	
Transmission		5M/T	5A/T	5M/T		5A/T	
Overall length	mm	4,810					
Overall width	mm	1,885					
Overall height	mm	1,855					
Wheelbase	mm	2,780					
Front track	mm	1,560					
Rear track	mm	1,560					
Ground clearance	mm	225		235			
Cargo room length	mm	1,495					
Cargo room width	mm	1,405					
Cargo room height	mm	1,105					
Curb weight	kg	2,145		2,090			
Seating capacity	persons	7					

* : Step 2, 87US emission regulation model

Bold : New or revised

2) Performance

Engine		3.2 Intercooled T/V DI-D		3.5 V6 ECI-MULTI		3.8 V6 ECI-MULTI	
Price class		GLS					
Model code	LHD	V78WLYXFQL*	V78WLNXFQL*	V75WLNXLVL	V75WLNXLVQL*	V77WLYXLVL	V77WLYXLVQL*
	RHD	V78WLYXFQR*		V75WLNXLVR		V77WLYXLVR	
Transmission		5M/T	5A/T	5M/T		5A/T	
Max. speed	km/h	170		180		180	
Roof carrying capacity	kg	100					
Max. climbing ability	tan	0.7					
Min. turning radius	m	5.7					
Approach angle		39.0					
Ramp break-over angle		24.5					
Departure angle		24.0					
Engine type		3.5-Liter Intercooled TC DI-D (4M41)		3.5-liter V6 S4 ECI-MULTI (6G74)		3.8-Liter V6 S4 ECI-MULTI (6G75)	
Displacement	cc	3,200		3,497		3,828	
Bore x stroke	mm	98.5 x 105.0		93.0 x 85.8		95.0 x 91.0	
Compression ratio		17.0		9.0		9.5	
Max. output (EEC net) kW (PS)/ rpm		121 (165)/ 3,800		140 (190)/ 5,000		150 (204)/ 5,000	
Max. torque (EEC net) Nm (kgm)/ rpm		373 (38.0)/ 2,000		303 (330.9)/ 3,500		314 (32.0)/ 3,250	

* : Step 2, 87US emission regulation model

Bold : New or revised

3) Electrical system

Engine		3.2 Intercooled T/V DI-D		3.5 V6 ECI-MULTI		3.8 V6 ECI-MULTI	
Price class		GLS					
Model code	LHD	V78WLYXFQL*	V78WLNXFQL*	V75WLNXLV	V75WLNXLVQL*	V77WLYXLV	V77WLYXLVQL*
	RHD	V78WLYXFQR*		V75WLNXLVR		V77WLYXLVR	
Transmission		5M/T	5A/T	5M/T		5A/T	
Battery		95D31L		75D23L		75D23L	
Alternator		12 - 125		12 - 110		12 - 110	
Starter motor		12 - 2.2		12 - 1.2		12 - 1.4	

4) Fuel system

Engine		3.2 Intercooled T/V DI-D		3.5 V6 ECI-MULTI		3.8 V6 ECI-MULTI	
Price class		GLS					
Model code	LHD	V78WLYXFQL*	V78WLNXFQL*	V75WLNXL	V75WLNXLVQL*	V77WLYXL	V77WLYXLVQL*
	RHD	V78WLYXFQR*		V75WLNXLVR		V77WLYXLVR	
Transmission		5M/T	5A/T	5M/T		5A/T	
Fuel supply equipment		Electronic direct injection fuel pump		ECI - MULTI			
Fuel tank capacity	Liter	90					

* : Step 2, 87US emission regulation model

Bold : New or revised

5) Transfer

Engine		3.2 Intercooled T/V DI-D		3.5 V6 ECI-MULTI		3.8 V6 ECI-MULTI	
Price class		GLS					
Model code	LHD	V78WLYXFQL*	V78WLNXFQL*	V75WLNXLVL	V75WLNXLVQL*	V77WLYXLVL	V77WLYXLVQL*
	RHD	V78WLYXFQR*		V75WLNXLVR		V77WLYXLVR	
Transmission		5M/T	5A/T	5M/T		5A/T	
Drive system		Super select 4WD (SS4-II)					
Transfer gear ratio	High	1.000					
	Low	1.900					

6) Transmission

Engine		3.2 Intercooled T/V DI-D		3.5 V6 ECI-MULTI		3.8 V6 ECI-MULTI	
Price class		GLS					
Model code	LHD	V78WLYXFQL*	V78WLNXFQL*	V75WLNXLVL	V75WLNXLVQL*	V77WLYXLVL	V77WLYXLVQL*
	RHD	V78WLYXFQR*		V75WLNXLVR		V77WLYXLVR	
Transmission		5A/T	5M/T	5M/T		5A/T	
Type		INVECS-II, 5A/T with Sports mode (V5A51)	V5M31	V5M31		INVECS - II, 5A/T with Sports mode (V5A51)	
Clutch		Torque converter	Single, dry plate with hydraulic actuation			Torque converter	
Gear ratio	1st	3.789	4.234			3.789	
	2nd	2.057	2.238			2.057	
	3rd	1.421	1.398			1.421	
	4th	1.000	1.000			1.000	
	5th	0.731	0.761	0.819		0.731	
	Reverse	3.865	3.553			3.865	
	Final	3/917	4.100	4.300			

7) Steering

Engine		3.2 Intercooled T/V DI-D		3.5 V6 ECI-MULTI		3.8 V6 ECI-MULTI	
Price class		GLS					
Model code	LHD	V78WLYXFQL*	V78WLNXFQL*	V75WLNXLVL	V75WLNXLVQL*	V77WLYXLVL	V77WLYXLVQL*
	RHD	V78WLYXFQR*		V75WLNXLVR		V77WLYXLVR	
Transmission		5M/T	5A/T	5M/T		5A/T	
Type		Rack and pinion (power assist)					

8) Suspension

Engine		3.2 Intercooled T/V DI-D		3.5 V6 ECI-MULTI		3.8 V6 ECI-MULTI	
Price class		GLS					
Model code	LHD	V78WLYXFQL*	V78WLNXFQL*	V75WLNXLVL	V75WLNXLVQL*	V77WLYXLVL	V77WLYXLVQL*
	RHD	V78WLYXFQR*		V75WLNXLVR		V77WLYXLVR	
Transmission		5A/T	5M/T	5M/T		5A/T	
Front		Double wishbone coil springs with stabilizer bar					
Rear		Multi-link coil springs with stabilizer bar					

9) Brake

Engine		3.2 Intercooled T/V DI-D		3.5 V6 ECI-MULTI		3.8 V6 ECI-MULTI	
Price class		GLS					
Model code	LHD	V78WLYXFQL*	V78WLNXFQL*	V75WLNXLVL	V75WLNXLVQL*	V77WLYXLVL	V77WLYXLVQL*
	RHD	V78WLYXFQR*		V75WLNXLVR		V77WLYXLVR	
Transmission		5A/T	5M/T	5M/T		5A/T	
Front		16" ventilated discs (2-pot)					
Rear		16" ventilated drum-in-discs					
Booster		Hydraulic brake booster					

* : Step 2, 87US emission regulation model

Bold : New or revised

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1 0) Tires and wheels

Engine		3.2 Intercooled T/V DI-D		3.5 V6 ECI-MULTI		3.8 V6 ECI-MULTI	
Price class		GLS					
Model code	LHD	V78WLYXFQL*	V78WLNXFQL*	V75WLNXLVL	V75WLNXLVQL*	V77WLYXLVL	V77WLYXLVQL*
	RHD	V78WLYXFQR*		V75WLNXLVR		V77WLYXLVR	
Transmission		5M/T	5A/T	5M/T		5A/T	
Tires		265 / 70R16					
Wheels		16" x 7.0JJ light alloy					

Bold : New model

9 . Major Specifications for GCC

9-1. 3-door models

1) Dimensions and Weights

Engine		3.0L V6 ECI-MULTI	3.5L V6 ECI-MULTI	3.8L V6 ECI-MULTI
Price class		GLS	GL	GLS
Model code		V63WMRXVLW	V65WMNDVLW	V67WMYXVLW
Transmission		4A/T	5M/T	5A/T
Overall length	mm	4,315	4,295	4,315
Overall width	mm	1,895	1,885	1,895
Overall height	mm	1,845		
Wheelbase	mm	2,545		
Front track	mm	1,560		
Rear track	mm	1,560		
Ground clearance	mm	235		
Cargo room length	mm	1,010	1,025	1,010
Cargo room width	mm	1,400		
Cargo room height	mm	1,105		
Curb weight	kg	1,915	1,855	1,940
Seating capacity	person	5		

Bold : New model

2) Performance

Engine	3.0L V6 ECI-MULTI	3.5L V6 ECI-MULTI	3.8L V6 ECI-MULTI
Price class	GLS	GL	GLS
Model code	V63WMRXVLW	V65WMNDVLW	V67WMYXVLW
Transmission	4A/T	5M/T	5A/T
Max. speed km/h	170	180	
Roof carrying capacity kg	100		
Max. climbing ability tan	0.7		
Min. turning radius m	5.3		
Approach angle	39.0°		
Ramp break-over angle	26.5°		
Departure angle	33.5°		
Engine type	3.0-liter V6 S4 ECI-MULTI (6G7)	3.5-liter V6 S4 ECI-MULTI (6G74)	3.8-liter V6 S4 ECI-MULTI (6G75)
Displacement cc	2,972	3,497	3,828
Bore x stroke mm	91.1 x 76.0	93.0 x 85.8	95.0 x 90.0
Compression ratio	9.0	9.0	9.5
Max. output HP/rpm	190/ 5,500	200/ 5,000	230/ 5,000
Max. torque kg m/rpm	27.0/ 4500	31.8/ 3,500	35.1/ 3,250

Bold : New model

3) Electrical system

Engine	3.0L V6 ECI-MULTI	3.5L V6 ECI-MULTI	3.8L V6 ECI-MULTI
Price class	GLS	GL	GLS
Model code	V63WMRXVLW	V65WMNDVLW	V67WMYXVLW
Transmission	4A/T	5M/T	5A/T
Battery	75D23L		
Alternator	12-110		
Starter	12-1.4	12-1.2	12-1.4

4) Fuel system

Engine	3.0L V6 ECI-MULTI	3.5L V6 ECI-MULTI	3.8L V6 ECI-MULTI
Price class	GLS	GL	GLS
Model code	V63WMRXVLW	V65WMNDVLW	V67WMYXVLW
Transmission	4A/T	5M/T	5A/T
Fuel supply equipment	ECI-MULTI		
Fuel tank capacity liters	71		

Bold : New model

5) Transfer

Engine		3.0L V6 ECI-MULTI	3.5L V6 ECI-MULTI	3.8L V6 ECI-MULTI
Price class		GLS	GL	GLS
Model code		V63WMRXVLW	V65WMNDVLW	V67WMYXVLW
Transmission		4A/T	5M/T	5A/T
Drive system		Super select 4WD (SS4-II)		
Transfer gear ratio	High	1.000		
	Low	1.900		

6) Transmission

Engine		3.0L V6 ECI-MULTI	3.5L V6 ECI-MULTI	3.8L V6 ECI-MULTI
Price class		GLS	GL	GLS
Model code		V63WMRXVLW	V65WMNDVLW	V67WMYXVLW
Transmission		4A/T	5M/T	5A/T
Type		INVECS-II 4A/T with Sports mode (V4A51)	V5M31	INVECS-II 4A/T with Sports mode (V5A51)
Clutch		Torque converter	Single, dry plate with hydraulic actuation	Torque converter
Gear ratio	1st	2.842	4.234	3.789
	2nd	1.495	2.238	2.057
	3rd	1.000	1.398	1.421
	4th	0.731	1.000	1.000
	5th		0.819	0.731
	Reverse	2.720	3.553	3.865
	Final	4.636	4.300	

Bold : New or revised

7) Steering

Engine	3.0L V6 ECI-MULTI	3.5L V6 ECI-MULTI	3.8L V6 ECI-MULTI
Price class	GLS	GL	GLS
Model code	V63WMRXVLW	V65WMNDVLW	V67WMYXVLW
Transmission	4A/T	5M/T	5A/T
Type	Rack and pinion (power assisted)		

8) Suspension

Engine	3.0L V6 ECI-MULTI	3.5L V6 ECI-MULTI	3.8L V6 ECI-MULTI
Price class	GLS	GL	GLS
Model code	V63WMRXVLW	V65WMNDVLW	V67WMYXVLW
Transmission	4A/T	5M/T	5A/T
Front	Double wishbone coil springs with stabilizer bar		
Rear	Multi-link coil springs with stabilizer bar		

9) Brake

Engine	3.0L V6 ECI-MULTI	3.5L V6 ECI-MULTI	3.8L V6 ECI-MULTI
Price class	GLS	GL	GLS
Model code	V63WMRXVLW	V65WMNDVLW	V67WMYXVLW
Transmission	4A/T	5M/T	5A/T
Front	16" ventilated discs (2-pot)		
Rear	16" ventilated drum-in-discs		
Booster	8" + 9" vacuum	Hydraulic brake booster	

Bold : New or revised

1 0) Tires and wheels

Engine	3.0L V6 ECI-MULTI	3.5L V6 ECI-MULTI	3.8L V6 ECI-MULTI
Price class	GLS	GL	GLS
Model code	V63WMRXVLW	V65WMNDVLW	V67WMYXVLW
Transmission	4A/T	5M/T	5A/T
Tires	265/ 70R16	235/ 80R16	265/ 70R16
Wheels	16" x 7.0JJ light alloy	16" x 6.0JJ steel	16" x 7.0JJ light alloy

Bold : New or revised

10-1. 5-door models

1) Dimensions and Weights

Engine	3.0 V6 ECI-MULTI				3.5 V6 ECI-MULTI			3.8 V6 ECI-MULTI
Price class	GL		GLS		GL	GLS		
Model code	V73WLNDVLW	V73WLRDVLW	V73WLNXLVW	V73WLRXLVW	V75WLNDVLW	V75WLNXLVW	V75WLYXLVW	V77WLYXLVW
Transmission	5M/T	4A/T	5M/T	4A/T	5M/T		5A/T	
Overall length	mm	4,810		4,830		4,810	4,830	
Overall width	mm	1,885		1,895		1,885	1,895	
Overall height	mm	1,855						
Wheelbase	mm	2,780						
Front track	mm	1,560						
Rear track	mm	1,560						
Ground clearance	mm	235						
Cargo room length	mm	1,510		1,495		1,510	1,495	
Cargo room width	mm	1,470		1,405		1,470	1,405	
Cargo room height	mm	1,105						
Curb weight	kg	1,960		2,080		1,985	2105	
Seating capacity	person	9		7		9	7	

Bold : New or revised

2) Performance

Engine	3.0 V6 ECI-MULTI				3.5 V6 ECI-MULTI			3.8 V6 ECI-MULTI
Price class	GL		GLS		GL	GLS		
Model code	V73WLNDVLW	V73WLRDVLW	V73WLNXLVW	V73WLRXLVW	V75WLNDVLW	V75WLNXLVW	V75WLYXLVW	V77WLYXLVW
Transmission	5M/T	4A/T	5M/T	4A/T	5M/T		5A/T	
Max. speed km/h	175	170	175	170	180		175	180
Roof carrying capacity kg	100							
Max. climbing ability	0.7							
Min. turning radius tan m	5.7							
Approach angle	39.0 °							
Ramp break-over angle	24.5 °							
Departure angle	24.0 °							
Engine type	3.0-liter V6 S4 ECI-MULTI (6G72)				3.5-liter V6 S4 ECI-MULTI (6G74)			3.8-liter ECI-MULTI (6G75)
Displacement cc	2,972				3,497			3,828
Bore x stroke mm	91.1 x 76.0				93.0 x 85.8			95.0 x 90.0
Compression ratio	9.0							9.5
Max. output HP/rpm	190/ 5,500				200/ 5,000			233/ 5,000
Max. torque kg m/rpm	27.0/ 4,500				31.8/ 3,500			35.1/ 3,250

Bold : New or revised

3) Electrical system

Engine	3.0 V6 ECI-MULTI				3.5 V6 ECI-MULTI			3.8 V6 ECI-MULTI
Price class	GL		GLS		GL	GLS		
Model code	V73WLNDVLW	V73WLRDVLW	V73WLNXLVW	V73WLRXLVW	V75WLNDVLW	V75WLNXLVW	V75WLYXLVW	V77WLYXLW
Transmission	5M/T	4A/T	5M/T	4A/T	5M/T		5A/T	
Battery	75D23L							
Alternator V-A	12 - 110							
Starter V-kW	12 - 1.2	12 - 1.4	12 - 1.2	12 - 1.4	12 - 1.2		12 - 1.4	

4) Fuel system

Engine	3.0 V6 ECI-MULTI				3.5 V6 ECI-MULTI			3.8 V6 ECI-MULTI
Price class	GL		GLS		GL	GLS		
Model code	V73WLNDVLW	V73WLRDVLW	V73WLNXLVW	V73WLRXLVW	V75WLNDVLW	V75WLNXLVW	V75WLYXLVW	V77WLYXLVW
Transmission	5M/T	4A/T	5M/T	4A/T	5M/T		5A/T	
Fuel supply system	ECI-MULTI							
Fuel tank capacity	90							

Bold : New or revised

5) Transfer

Engine		3.0 V6 ECI-MULTI				3.5 V6 ECI-MULTI			3.8 V6 ECI-MULTI
Price class		GL		GLS		GL	GLS		
Model code		V73WLNDVLW	V73WLRDVLW	V73WLNXLVLW	V73WLRXLVLW	V75WLNDVLW	V75WLNXLVLW	V75WLYXLVLW	V77WLYXLVLW
Transmission		5M/T	4A/T	5M/T	4A/T	5M/T		5A/T	
Drive system		Super select 4WD (SS4-II)							
Transfer gear ratio	High	1.000							
	Low	1.925	1.9000						

6) Transmission

Engine		3.0 V6 ECI-MULTI				3.5 V6 ECI-MULTI			3.8 V6 ECI-MULTI
Price class		GL		GLS		GL	GLS		
Model code		V73WLNDVLW	V73WLRDVLW	V73WLNXLVW	V73WLRXLVW	V75WLNDVLW	V75WLNXLVW	V75WLYXLVW	V77WLYXLW
Transmission		5M/T	4A/T	5M/T	4A/T	5M/T		5A/T	
Type		V5M31	INVECS-II with Sports mode (V4A51)	V5M31	INVECS-II with Sports mode (V5A51)	V5M31		INVECS-II with Sports mode (V5A51)	
Clutch		Single, dry plate hydraulic actuation	Torque converter	Single, dry plate hydraulic actuation	Torque converter	Single, dry plate hydraulic actuation		Torque converter	
Gear ratio	1st	3.952	2.842	3.952	2.842	4.234		3.789	
	2nd	2.238	1.495	2.238	1.495	2.238		2.057	
	3rd	1.398	1.000	1.398	1.000	1.398		1.421	
	4th	1.000	0.731	1.000	0.731	1.000		1.000	
	5th	0.819		0.819		0.819		0.731	
	Reverse	3.553	2.720	3.553	2.720	3.553		3.865	
	Final	4.636				4.300			

7) Steering

Engine	3.0 V6 ECI-MULTI				3.5 V6 ECI-MULTI			3.8 V6 ECI-MULTI
Price class	GL		GLS		GL	GLS		
Model code	V73WLNDVLW	V73WLRDVLW	V73WLNXLVW	V73WLRXLVW	V75WLNDVLW	V75WLNXLVW	V75WLYXLVW	V77WLYXLVW
Transmission	5M/T	4A/T	5M/T	4A/T	5M/T		5A/T	
Type	Rack and pinion (power assisted)							

8) Suspension

Engine	3.0 V6 ECI-MULTI				3.5 V6 ECI-MULTI			3.8 V6 ECI-MULTI
Price class	GL		GLS		GL	GLS		
Model code	V73WLNDVLW	V73WLRDVLW	V73WLNXLVW	V73WLRXLVW	V75WLNDVLW	V75WLNXLVW	V75WLYXLVW	V77WLYXLVW
Transmission	5M/T	4A/T	5M/T	4A/T	5M/T		5A/T	
Front	Double wishbone coil springs with stabilizer bar							
Rear	Multi-link coil springs with stabilizer bar							

9) Brake

Engine	3.0 V6 ECI-MULTI				3.5 V6 ECI-MULTI			3.8 V6 ECI-MULTI
Price class	GL		GLS		GL	GLS		
Model code	V73WLNDVLW	V73WLRDVLW	V73WLNXLVW	V73WLRXLVW	V75WLNDVLW	V75WLNXLVW	V75WLYXLVW	V77WLYXLVW
Transmission	5M/T	4A/T	5M/T	4A/T	5M/T		5A/T	
Front	16"ventilated discs (2-pot)							
Rear	16" ventilated drum-in-discs							
Booster	8" + 9" vacuum				Hydraulic brake booster			

1 0) Tires and wheels

Engine	3.0 V6 ECI-MULTI				3.5 V6 ECI-MULTI			3.8 V6 ECI-MULTI
Price class	GL		GLS		GL	GLS		
Model code	V73WLNDVLW	V73WLRDVLW	V73WLNXLVW	V73WLRXLVW	V75WLNDVLW	V75WLNXLVW	V75WLYXLVW	V77WLYXLVW
Transmission	5M/T	4A/T	5M/T	4A/T	5M/T		5A/T	
Tires	235/ 80R16		265/ 70R16		235/ 80R16	265/ 70R16		
Wheels	16" x 6.0JJ steel		16"x 7.0JJ light alloy		16" x 6.0JJ steel	16"x 7.0JJ light alloy		

Bold : New or revised

1 0 . Major Specifications for Brazil and South Africa

10-1. 3-door models

1) Dimensions and Weights

Destination		BRAZIL	SOUTH AFRICA		
Engine		3.8L V6 ECI-MULTI	3.2L Inter cooled T/C DI-D		3.8L V6 ECI-MULTI
Price class		GLS			
Model code		V67WMYXVQL18	V68WMNXFR6S	V68WMYXFR6S	V67WMYXVR6S
Transmission		5A/T	5M/T	5A/T	
Overall length	mm	4,315			
Overall width	mm	1,895			
Overall height	mm	1,845			
Wheelbase	mm	2,545			
Front track	mm	1,560			
Rear track	mm	1,560			
Ground clearance	mm	235	225		235
Cargo room length	mm	1,010			
Cargo room width	mm	1,400			
Cargo room height	mm	1,105			
Curb weight	kg	1,940	2,010		1,930
Seating capacity	person	5			

Bold : New or revised

2) Performance

Destination	BRAZIL	SOUTH AFRICA		
Engine	3.8L V6 ECI-MULTI	3.2L Inter cooled T/C DI-D		3.8L V6 ECI-MULTI
Price class	GLS			
Model code	V67WMYXVQL18	V68WMNXFR6S	V68WMYXFR6S	V67WMYXVR6S
Transmission	5A/T	5M/T	5A/T	
Max. speed km/h	180	170		180
Roof carrying capacity kg	100			
Max. climbing ability tan	0.7			
Min. turning radius m	5.3			
Approach angle	39.0			
Ramp break-over angle	26.5			
Departure angle	33.5			
Engine type	3.8-liter V6 S4 ECI-MULTI	3.2-liter Inter cooled T/C DI-D (4M41)		3.8-liter V6 S4 ECI-MULTI
Displacement cc	3,828	3,200		3,828
Bore x stroke mm	95.0 x 90.0	98.5 x 105.0		95.0 x 90.0
Compression ratio	9.5	17.0		9.5
Max. output kW (PS)/ rpm	150(204)/ 5,000	121(165)/ 3,800		150(204)/ 5,000
Max. torque Nm (kg m)/ rpm	314(32.0)/ 3,250	373(38.0)/ 2,000		314(32.0)/ 3,250

Bold : New or revised

3) Electrical system

Destination	BRAZIL	SOUTH AFRICA		
Engine	3.8L V6 ECI-MULTI	3.2L Inter cooled T/C DI-D		3.8L V6 ECI-MULTI
Price class	GLS			
Model code	V67WMYXVQL18	V68WMNXFR6S	V68WMYXFR6S	V67WMYXVR6S
Transmission	5A/T	5M/T	5A/T	
Battery	75D23L	95D31L		75D23L
Alternator V-A	12-110	12-125		12-110
Starter V-kW	12-1.4	12-2.2		12-1.4

4) Fuel system

Destination	BRAZIL	SOUTH AFRICA		
Engine	3.8L V6 ECI-MULTI	3.2L Inter cooled T/C DI-D		3.8L V6 ECI-MULTI
Price class	GLS			
Model code	V67WMYXVQL18	V68WMNXFR6S	V68WMYXFR6S	V67WMYXVR6S
Transmission	5A/T	5M/T	5A/T	
Fuel supply system	ECI-MULTI	Electronic direct injection fuel pump		ECI-MULTI
Fuel tank capacity liters	71			

Bold : New or revised

5) Transfer

Destination		BRAZIL	SOUTH AFRICA	
Engine		3.8L V6 ECI-MULTI	3.2L Inter cooled T/C DI-D	3.8L V6 ECI-MULTI
Price class		GLS		
Model code		V67WMYXVQL18	V68WMNXFR6S	V68WMYXFR6S V67WMYXVR6S
Transmission		5A/T	5M/T	5A/T
Type		Super select 4WD (SS4-II)		
Transfer gear ratio	High	1.000		
	Low	1.900		

6) Transmission

Destination		BRAZIL	SOUTH AFRICA	
Engine		3.8L V6 ECI-MULTI	3.2L Inter cooled T/C DI-D	3.8L V6 ECI-MULTI
Price class		GLS		
Model code		V67WMYXVQL18	V68WMNXFR6S	V68WMYXFR6S V67WMYXVR6S
Transmission		5A/T	5M/T	5A/T
Type		INVECS-II Sports mode (V5A51)	V5M31	INVECS-II Sports mode (V5A51)
Clutch		Torque converter	Single, dry plate Hydraulic actuation	Torque converter
Gear ratio	1st	3.789	4.234	3.789
	2nd	2.057	2.238	2.057
	3rd	1.421	1.398	1.421
	4th	1.000	1.000	1.000
	5th	0.731	0.761	0.731
	Reverse	3.865	3.553	3.865
	Final	4.300	4.100	4.300

7) Steering

Destination	BRAZIL	SOUTH AFRICA		
Engine	3.8L V6 ECI-MULTI	3.2L Inter cooled T/C DI-D		3.8L V6 ECI-MULTI
Price class	GLS			
Model code	V67WMYXVQL18	V68WMNXFR6S	V68WMYXFR6S	V67WMYXVR6S
Transmission	5A/T	5M/T	5A/T	
Type	Rack and pinion (power assisted)			

8) Suspension

Destination	BRAZIL	SOUTH AFRICA		
Engine	3.8L V6 ECI-MULTI	3.2L Inter cooled T/C DI-D		3.8L V6 ECI-MULTI
Price class	GLS			
Model code	V67WMYXVQL18	V68WMNXFR6S	V68WMYXFR6S	V67WMYXVR6S
Transmission	5A/T	5M/T	5A/T	
Front	Double wishbone coil springs with stabilizer bar			
Rear	Multi link coil springs with stabilizer bar			

9) Brake

Destination	BRAZIL	SOUTH AFRICA		
Engine	3.8L V6 ECI-MULTI	3.2L Inter cooled T/C DI-D		3.8L V6 ECI-MULTI
Price class	GLS			
Model code	V67WMYXVQL18	V68WMNXFR6S	V68WMYXFR6S	V67WMYXVR6S
Transmission	5A/T	5M/T	5A/T	
Front	16" ventilated discs (2-pot)			
Rear	16" ventilated drum-in-discs			
Booster	Hydraulic brake booster			

1 0) Tires and wheels

Destination	BRAZIL	SOUTH AFRICA		
Engine	3.8L V6 ECI-MULTI	3.2L Inter cooled T/C DI-D		3.8L V6 ECI-MULTI
Price class	GLS			
Model code	V67WMYXVQL18	V68WMNXFR6S	V68WMYXFR6S	V67WMYXVR6S
Transmission	5A/T	5M/T	5A/T	
Tires	265/ 70R16			
Wheels	16" x 7.0JJ light alloy			

10-2. 5-door models for Brazil

1) Dimensions and Weights

Destination	BRAZIL				
Engine	2.8L I/C T/C DIESEL		3.2L I/C T/C DI-D		3.8L V6 MPI
Price class	GLS				
Model code	V76WLNXFQL18	V76WLRFQL18	V78WLNXFQL18	V78WLYXFQL18	V77WLYXVQL18
Transmission	5M/T	4A/T	5M/T	5A/T	
Overall length	mm	4,830			
Overall width	mm	1,895			
Overall height	mm	1,855			
Wheelbase	mm	2,780			
Front track	mm	1,560			
Rear track	mm	1,560			
Ground clearance	mm	235	225		235
Cargo room length	mm	1,495			
Cargo room width	mm	1,405			
Cargo room height	mm	1,105			
Curb weight	kg	2,135	2,145		2,090
Seating capacity	person	7			

Bold : New or revised

2) Performance

Destination	BRAZIL				
Engine	2.8L I/C T/C DIESEL		3.2L I/C T/C DI-D		3.8L V6 MPI
Price class	GLS				
Model code	V76WLNXFQL18	V76WLRFQL18	V78WLNXFQL18	V78WLYXFQL18	V77WLYXVQL18
Transmission	5M/T	4A/T	5M/T	5A/T	
Max. speed km/h	160		170	180	
Roof carrying capacity kg	100				
Max. climbing ability tan	0.7				
Min. turning radius m	5.7				
Approach angle	39.0				
Ramp break-over angle	24.5				
Departure angle	24.0				
Engine type	2.8-liter Inter-cooled T/C (4M40)		3.2-liter Inter-cooled T/C DI-D (4M41)		3.8-liter V6 S4 ECI-MULTI (6G75)
Displacement cc	2,835		3,200		3,828
Bore x stroke mm	95.0 x 100.0		98.5 x 105.0		95.0 x 91.0
Compression ratio	21.0		17.0		9.5
Max. output kW (PS)/ rpm	92(125)/ 4,000		121(165)/ 3,800		150(204)/ 5,000
Max. torque Nm (kg m)/ rpm	294(30.0)/ 2,000		373(38.0)/ 2,000		314(32.0)/ 3,250

Bold : New or revised

3) Electrical system

Destination	BRAZIL				
Engine	2.8L I/C T/C DIESEL		3.2L I/C T/C DI-D		3.8L V6 MPI
Price class	GLS				
Model code	V76WLNXFQL18	V76WLRFQL18	V78WLNXFQL18	V78WLYXFQL18	V77WLYXVQL18
Transmission	5M/T	4A/T	5M/T	5A/T	
Battery	95D31L				75D23L
Alternator V-A	12-90		12-125		12-110
Starter V-kW	12-2.2				12-1.4

4) Fuel system

Destination	BRAZIL				
Engine	2.8L I/C T/C DIESEL		3.2L I/C T/C DI-D		3.8L V6 MPI
Price class	GLS				
Model code	V76WLNXFQL18	V76WLRFQL18	V78WLNXFQL18	V78WLYXFQL18	V77WLYXVQL18
Transmission	5M/T	4A/T	5M/T	5A/T	
Fuel supply equipment	Indirect injection fuel pump		Electronic direct injection fuel pump		ECI-MULTI
Fuel tank capacity	90				

Bold : New or revised

5) Transfer

Destination		BRAZIL			
Engine		2.8L I/C T/C DIESEL		3.2L I/C T/C DI-D	3.8L V6 MPI
Price class		GLS			
Model code		V76WLNXFQL18	V76WLRFLQL18	V78WLNXFQL18	V78WLYXFQL18
Transmission		5M/T	4A/T	5M/T	5A/T
Type		Super select 4WD (SS4-II)			
Transfer gear ratio	High	1.000			
	Low	1.900			

6) Transmission

Destination		BRAZIL			
Engine		2.8L I/C T/C DIESEL		3.2L I/C T/C DI-D	3.8L V6 MPI
Price class		GLS			
Model code		V76WLNXFQL18	V76WLRFLQL18	V78WLNXFQL18	V78WLYXFQL18
Transmission		5M/T	4A/T	5M/T	5A/T
Type		V5M31	INVECS-II Sports mode (V4A51)	V5M31	INVECS-II Sports mode (V5A51)
Clutch		Single, dry plate hydraulic actuation	Torque converter	Single, dry plate hydraulic actuation	Torque converter
Gear ratio	1st	3.952	2.842	4.234	3.789
	2nd	2.238	1.495	2.238	2.057
	3rd	1.398	1.000	1.398	1.421
	4th	1.000	0.731	1.000	1.000
	5th	0.761		0.761	0.731
	Reverse	3.553	2.720	3.553	3.865
	Final	4.900		4.100	4.300

7) Steering

Destination	BRAZIL				
Engine	2.8L I/C T/C DIESEL		3.2L I/C T/C DI-D		3.8L V6 MPI
Price class	GLS				
Model code	V76WLNXFQL18	V76WLRFQL18	V78WLNXFQL18	V78WLYXFQL18	V77WLYXVQL18
Transmission	5M/T	4A/T	5M/T	5A/T	
Type	Rack and pinion (power assist)				

8) Suspension

Destination	BRAZIL				
Engine	2.8L I/C T/C DIESEL		3.2L I/C T/C DI-D		3.8L V6 MPI
Price class	GLS				
Model code	V76WLNXFQL18	V76WLRFQL18	V78WLNXFQL18	V78WLYXFQL18	V77WLYXVQL18
Transmission	5M/T	4A/T	5M/T	5A/T	
Front	Double wishbone coil springs with stabilizer bar				
Rear	Multi-link coil springs with stabilizer bar				

9) Brake

Destination	BRAZIL				
Engine	2.8L I/C T/C DIESEL		3.2L I/C T/C DI-D		3.8L V6 MPI
Price class	GLS				
Model code	V76WLNXFQL18	V76WLRFQL18	V78WLNXFQL18	V78WLYXFQL18	V77WLYXVQL18
Transmission	5M/T	4A/T	5M/T	5A/T	
Front	16" ventilated discs (2-pot)				
Rear	16" ventilated drum-in-discs				
Booster	8" + 9" vacuum		Hydraulic brake booster		

1 0) Tires and wheels

Destination	BRAZIL				
Engine	2.8L I/C T/C DIESEL		3.2L I/C T/C DI-D		3.8L V6 MPI
Price class	GLS				
Model code	V76WLNXFQL18	V76WLRFQL18	V78WLNXFQL18	V78WLYXFQL18	V77WLYXVQL18
Transmission	5M/T	4A/T	5M/T	5A/T	
Tires	265/ 70R16				
Wheels	16" x 7.0JJ light alloy				

Bold : New or revised

10- 3. 5-door models for South Africa

1) Dimensions and Weights

Destination	SOUTH AFRICA			
Engine	2.8L I/C T/C DIESEL		3.5LV6 MPI	3.8L V6 MPI
Price class	GLS			
Model code	V78WLNXR6S	V78WLYXR6S	V75WLNXR&S	V77WLYXR6S
Transmission	5M/T	5A/T	5M/T	5A/T
Overall length	mm	4,830		
Overall width	mm	1,895		
Overall height	mm	1,855		
Wheelbase	mm	2,780		
Front track	mm	1,560		
Rear track	mm	1,560		
Ground clearance	mm	225	235	
Cargo room length	mm	1,495		
Cargo room width	mm	1,405		
Cargo room height	mm	1,105		
Curb weight	kg	2,135	2,145	2,090
Seating capacity	person	7		

Bold : New or revised

2) Performance

Destination	SOUTH AFRICA			
Engine	3.2L I/C T/C DI-D		3.5LV6 MPI	3.8L V6 MPI
Price class	GLS			
Model code	V78WLNXR6S	V78WLYXFR6S	V75WLNXR6S	V77WLYXR6S
Transmission	5M/T	5A/T	5M/T	5A/T
Max. speed km/h	170		180	
Roof carrying capacity kg	100			
Max. climbing ability tan	0.7			
Min. turning radius m	5.7			
Approach angle	39.0 °			
Ramp break-over angle	24.5 °			
Departure angle	24.0 °			
Engine type	3.2-liter Inter-cooled T/C DI-D (4M41)		3.5-liter V6 S4 ECI-MULTI (6G74)	3.8-liter V6 S4 ECI-MULTI (6G75)
Displacement cc	3,200		3,497	3,828
Bore x stroke mm	98.5 x 105.0		93.0 x 85.8	95.0 x 91.0
Compression ratio	17.0		9.0	9.5
Max. output kW (PS)/ rpm	121(165)/ 3,800		140(190)/ 5,000	150(204)/ 5,000
Max. torque Nm (kg m)/ rpm	373(38.0)/ 2,000		303(30.9)/ 3,500	314(32.0)/ 3,250

Bold : New or revised

3) Electrical system

Destination	SOUTH AFRICA			
Engine	3.2L I/C T/C DI-D		3.5LV6 MPI	3.8L V6 MPI
Price class	GLS			
Model code	V78WLNXR6S	V78WLYXFR6S	V75WLNXR6S	V77WLYXR6S
Transmission	5M/T	5A/T	5M/T	5A/T
Battery	95D31L		75D23L	
Alternator V-A	12-125		12-110	
Starter V-kW	12-2.2		12-1.4	

4) Fuel system

Destination	SOUTH AFRICA			
Engine	3.2L I/C T/C DI-D		3.5LV6 MPI	3.8L V6 MPI
Price class	GLS			
Model code	V78WLNXFR6S	V78WLYXFR6S	V75WLNXVR&S	V77WLYXR6S
Transmission	5M/T	5A/T	5M/T	5A/T
Fuel supply equipment	Electronic direct injection fuel pump		ECI-MULTI	
Fuel tank capacity	liter	90		

Bold : New or revised

5) Transfer

Destination		SOUTH AFRICA			
Engine		3.2L I/C T/C DI-D		3.5LV6 MPI	3.8L V6 MPI
Price class		GLS			
Model code		V78WLNXR6S	V78WLYXFR6S	V75WLNXR&S	V77WLYXR6S
Transmission		5M/T	5A/T	5M/T	5A/T
Type		Super select 4WD (SS4-II)			
Transfer gear ratio	High	1.000			
	Low	1.900			

6) Transmission

Destination		SOUTH AFRICA			
Engine		3.2L I/C T/C DI-D		3.5LV6 MPI	3.8L V6 MPI
Price class		GLS			
Model code		V78WLNXR6S	V78WLYXFR6S	V75WLNXR&S	V77WLYXR6S
Transmission		5M/T	5A/T	5M/T	5A/T
Type		V5M31	INVECS-II Sports mode (V5A51)	V5M31	INVECS-II Sports mode (V5A51)
Clutch		Single dry plate with hydraulic actuation	Torque converter	Single dry plate with hydraulic actuation	Torque converter
Gear ratio	1st	4.234	3.789	4.234	3.789
	2nd	2.238	2.057	2.238	2.057
	3rd	1.398	1.421	1.398	1.421
	4th	1.000	1.000	1.000	1.000
	5th	0.761	0.731	0.761	0.731
	Reverse	3.553	3.865	3.553	3.865
	Final	4.100	3.917	4.300	

Bold : New or revised

7) Steering

Destination	SOUTH AFRICA			
Engine	3.2L I/C T/C DI-D		3.5LV6 MPI	3.8L V6 MPI
Price class	GLS			
Model code	V78WLNXR6S	V78WLYXR6S	V75WLNXR&S	V77WLYXR6S
Transmission	5M/T	5A/T	5M/T	5A/T
Type	Rack and pinion (power assisted)			

8) Suspension

Destination	SOUTH AFRICA			
Engine	3.2L I/C T/C DI-D		3.5LV6 MPI	3.8L V6 MPI
Price class	GLS			
Model code	V78WLNXR6S	V78WLYXR6S	V75WLNXR&S	V77WLYXR6S
Transmission	5M/T	5A/T	5M/T	5A/T
Front	Double wishbone coil springs with stabilizer bar			
Rear	Multi-link coil springs with stabilizer bar			

9) Brake

Destination	SOUTH AFRICA			
Engine	3.2L I/C T/C DI-D		3.5LV6 MPI	3.8L V6 MPI
Price class	GLS			
Model code	V78WLNXR6S	V78WLYXR6S	V75WLNXR&S	V77WLYXR6S
Transmission	5M/T	5A/T	5M/T	5A/T
Front	16" ventilated discs (2-pot)			
Rear	16" ventilated drum-in-discs			
Booster	Hydraulic brake booster			

Bold : New or revised

1 0) Tires and wheels

Destination	SOUTH AFRICA			
Engine	3.2L I/C T/C DI-D		3.5LV6 MPI	3.8L V6 MPI
Price class	GLS			
Model code	V78WLNXFR6S	V78WLYXFR6S	V75WLNXVR&S	V77WLYXR6S
Transmission	5M/T	5A/T	5M/T	5A/T
Tires	265/ 70R16			
Wheels	16" x 7.0 JJ light alloy			

Bold : New or revised

1 1 . Major Specifications for Australia and Taiwan < V77WL models (3.8-liter MPI) . Others are no change >

11-1. 5-door models

1) Dimensions and Weights

Destination	AUSTRALIA			TAIWAN
Engine	3.8L V6 MPI			
Price class	GLX	GLS	EXCEED	GLS
Model code	V77WLYHVR8	V77WLYVZR8	V77WLYPVR8	V77WLYXVQL1Q
Transmission	5A/T			
Overall length	mm	4,830		
Overall width	mm	1,895		
Overall height	mm	1,855		
Wheelbase	mm	2,780		
Front track	mm	1,560		
Rear track	mm	1,560		
Ground clearance	mm	2,35		
Cargo room length	mm	1,495		
Cargo room width	mm	1,405		
Cargo room height	mm	1,105		
Curb weight	kg	2085	2105	2135
Seating capacity	person	7		

Bold : New models

2) Performance

Destination	AUSTRALIA			TAIWAN
Engine	3.8L V6 MPI			
Price class	GLX	GLS	EXCEED	GLS
Model code	V77WLYHVR8	V77WLYVZR8	V77WLYPVR8	V77WLYXVQL1Q
Transmission	5A/T			
Max. speed km/h	180			
Roof carrying capacity kg	100			
Max. climbing ability tan	0.7			
Min. turning radius m	5.7			
Approach angle	39.0			
Ramp break-over angle	24.5			
Departure angle	24.0			
Engine type	3.8-liter V6 S4 ECI-MULTI			
Displacement cc	3,828			
Bore x stroke mm	95.0 x 91.0			
Compression ratio	9.5			
Max. output kW (PS)/ rpm	150(204) / 5,000			
Max. torque Nm (kg m)/ rpm	314(32.0) / 3,250			

Bold : New or revised

3) Electrical system

Destination	AUSTRALIA			TAIWAN
Engine	3.8L V6 MPI			
Price class	GLX	GLS	EXCEED	GLS
Model code	V77WLYHVR8	V77WLYVZR8	V77WLYPVR8	V77WLYXVQL1Q
Transmission	5A/T			
Battery	7 5D23L			
Alternator	12-110			
Starter	12-1.4			

4) Fuel system

Destination	AUSTRALIA			TAIWAN
Engine	3.8L V6 MPI			
Price class	GLX	GLS	EXCEED	GLS
Model code	V77WLYHVR8	V77WLYVZR8	V77WLYPVR8	V77WLYXVQL1Q
Transmission	5A/T			
Fuel supply equipment	ECI-MULTI			
Fuel tank capacity	90			

Bold : New or revised

5) Transfer

Destination		AUSTRALIA			TAIWAN
Engine		3.8L V6 MPI			
Price class		GLX	GLS	EXCEED	GLS
Model code		V77WLYHVR8	V77WLYXVR8	V77WLYPVR8	V77WLYXVQL1Q
Transmission		5A/T			
Drive system		Super select 4WD (SS4-II)			
Gear ratio	High	1.000			
	Low	1.900			

6) Transmission

Destination		AUSTRALIA			TAIWAN
Engine		3.8L V6 MPI			
Price class		GLX	GLS	EXCEED	GLS
Model code		V77WLYHVR8	V77WLYXVR8	V77WLYPVR8	V77WLYXVQL1Q
Transmission		5A/T			
Type		INVECS-II Sports mode (V5A51)			
Clutch		Torque converter			
Gear ratio	1st	3.789			
	2nd	2.057			
	3rd	1.421			
	4th	1.000			
	5th	0.731			
	Reverse	3.865			
	Final	4.300			

Bold : New or revised

7) Steering

Destination	AUSTRALIA			TAIWAN
Engine	3.8L V6 MPI			
Price class	GLX	GLS	EXCEED	GLS
Model code	V77WLYHVR8	V77WLYXVR8	V77WLYPVR8	V77WLYXVQL1Q
Transmission	5A/T			
Type	Rack and pinion (power assisted)			

8) Suspension

Destination	AUSTRALIA			TAIWAN
Engine	3.8L V6 MPI			
Price class	GLX	GLS	EXCEED	GLS
Model code	V77WLYHVR8	V77WLYXVR8	V77WLYPVR8	V77WLYXVQL1Q
Transmission	5A/T			
Front	Double wishbone coil springs with stabilizer bar			
Rear	Multi-link coil springs with stabilizer bar			

9) Brake

Destination	AUSTRALIA			TAIWAN
Engine	3.8L V6 MPI			
Price class	GLX	GLS	EXCEED	GLS
Model code	V77WLYHVR8	V77WLYXVR8	V77WLYPVR8	V77WLYXVQL1Q
Transmission	5A/T			
Front	16" ventilated discs (2-pot)			
Rear	16" ventilated drum-in-discs			
Booster	Hydraulic brake booster			

1 0) Tires and wheels

Destination	AUSTRALIA			TAIWAN
Engine	3.8L V6 MPI			
Price class	GLX	GLS	EXCEED	GLS
Model code	V77WLYHVR8	V77WLYXVR8	V77WLYPVR8	V77WLYXVQL1Q
Transmission	5A/T			
Tires	235/ 80R16	265/ 70R16		
Wheels	16" x 6.0JJ steel	16" x 7.0JJ light alloy		

Bold : New or revised

1 1 ENGINE

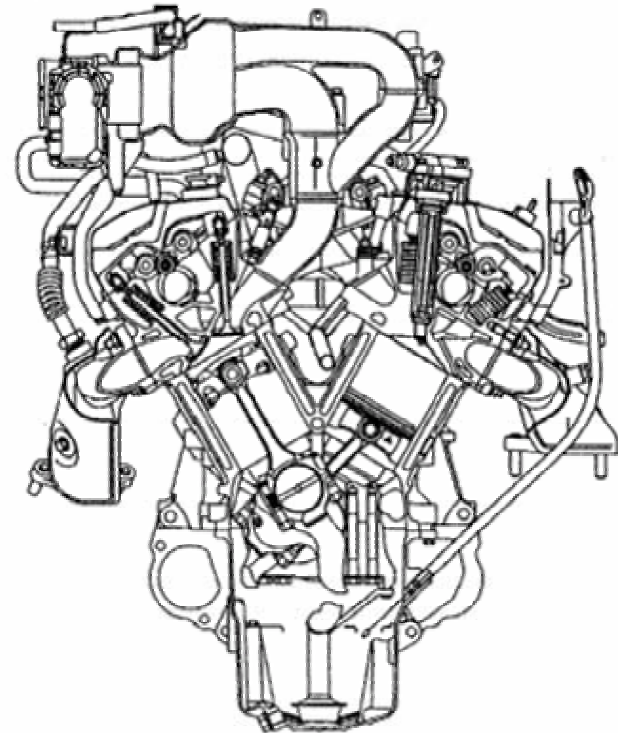
MAJOR SPECIFICATIONS	0 1
ENGINE STRUCTURE	0 2
ENGINE PERFORMANCE	0 3
SPECIAL TOOLS	0 4
ENGINE ASSEMBLY	0 5, 0 6

1 Major specifications

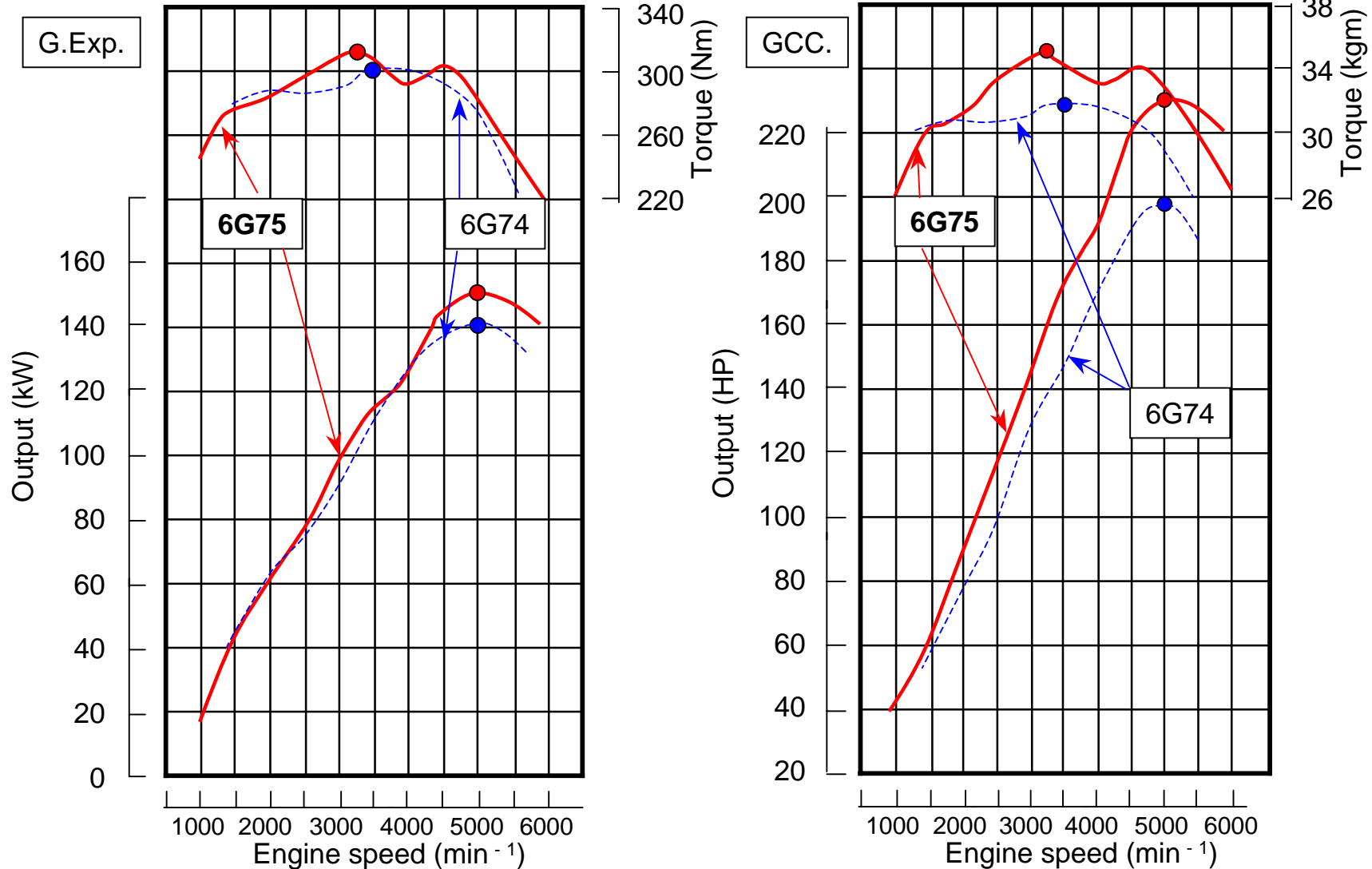
Item			6G75	6G74
Displacement cc			3,828	3,496
Bore x Stroke mm			95.0 x 90.0	93.0 x 85.8
Compression ratio			9.5	9.0
Bank angle degree			60 - V6	
Valve layout			SOHC 4-Valve	
Valve size In/Ex-mm			36.5 / 32	33 / 29
Valve timing	Intake vale (degree)	Open	BTDC 5	BTDC 5
		Close	ATDC 55	ABDC 55
	Exhaust valve (degree)	Open	BBDC 51	BBDC 51
		Close	ATDC 17	ATDC 17
Intake air control mm			ETV (65)	Cable (60)
Variable Induction control system (valve size) mm			With (48)	Without
Fuel			Regular (unleaded/leaded)	
Fuel supply			ECI MULTI	
Max. Output kW/rpm			150 / 5,000	140 / 5,000
Max. Torque Nm/rpm			314 / 3,250	303 / 3,500
Red zone rpm			6,000	
Fuel cut off rpm			6,500	
Exhaust emission			EU STEP-II / R15-04	

2 Engine structure


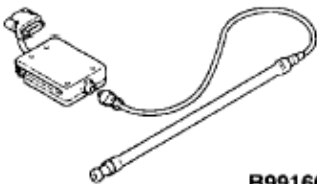

- In increasing the engine displacement, the basic structure of 6G74 engine has been followed.
- The pitch of the cylinder bore, the bank offset, the overall length/overall height of the cylinder block and the position of the cylinder head bolts of 6G75 engine has been carried over.
- A variable induction control system has been applied for improving low and mid-speed torque as well as fuel economy.
- ETV (Electronic Throttle Valve) has been adopted to improve drivability such as cold and hot starting. The ETV is controlled via engine ECU.



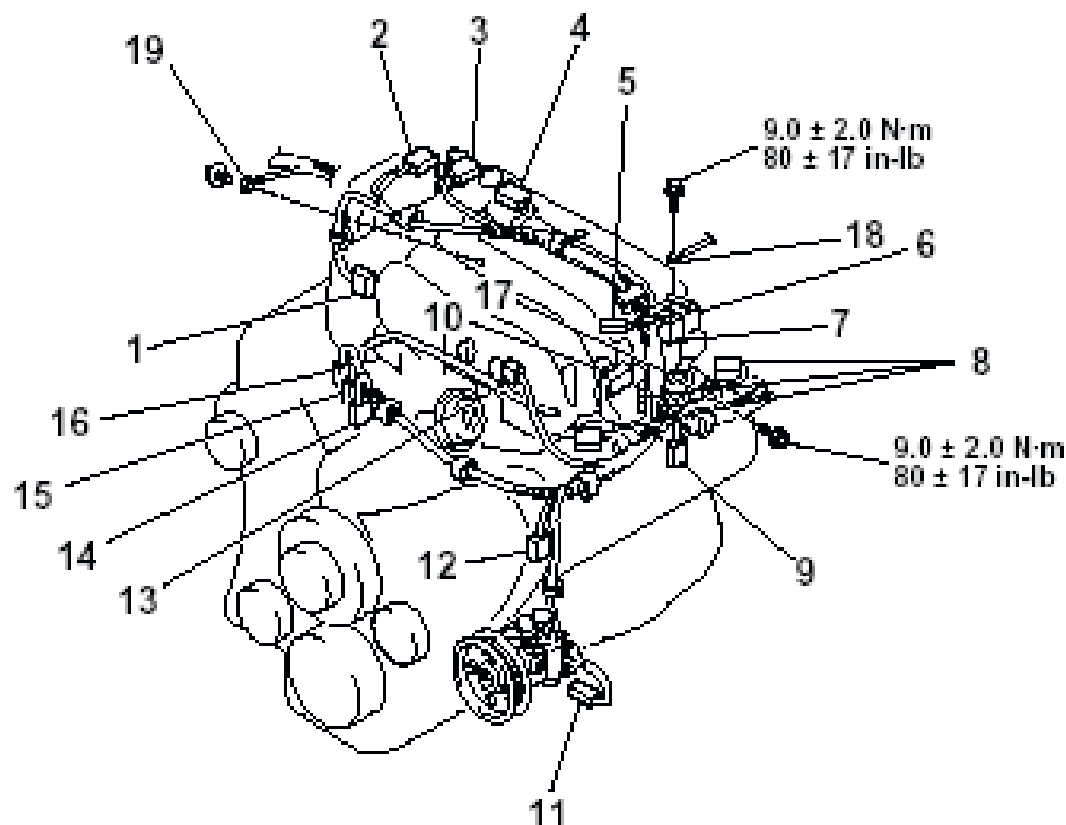
3 Engine performance curb (EEC-NET)



4 Special tools

Tool	Part's number	Name	Use
 B991502	MB991502	MUT-II sub assembly	Drive belt tension check
 B991668	MB991668	Belt tension meter set	
	MB991316	Test harness (4-pin, square)	Oxygen sensor check

5 Engine assembly (1)

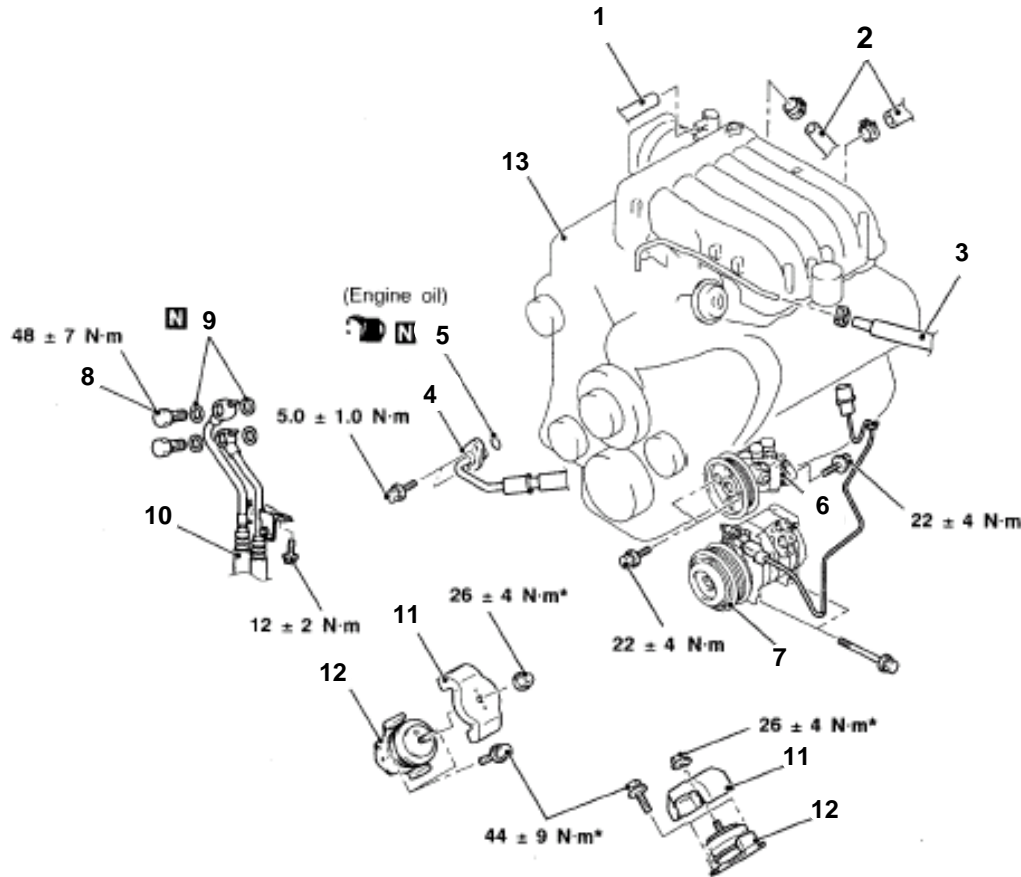


- 1 Throttle position sensor connector
- 2 EGR connector
- 3 Right bank heated oxygen sensor connector

- 4 Manifold differential pressure sensor
- 5 Noise condenser connector

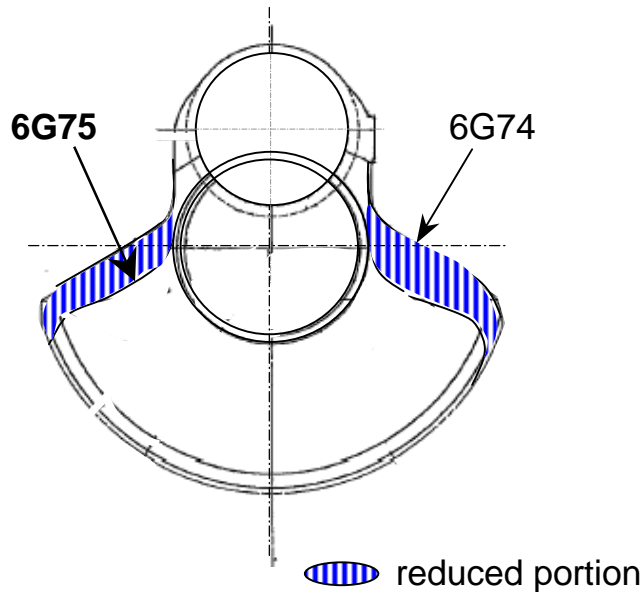
- 6 Control wiring harness and Camshaft position sensor wiring harness
- 7 Knock sensor connector
- 8 Ignition coil connector
- 9 Left bank heated oxygen sensor connector
- 10 Control wiring harness and injection wiring harness combination
- 11 Power steering pump switch connector
- 12 A/C compressor assembly connector
- 13 Intake manifold tuning solenoid connector
- 14 Crankshaft position sensor connector
- 15 Engine coolant temperature gauge unit connector
- 16 Engine coolant temperature gauge sensor connector
- 17 Ground cable
- 18 Ground cable
- 19 Ground cable

5 Engine assembly (2)

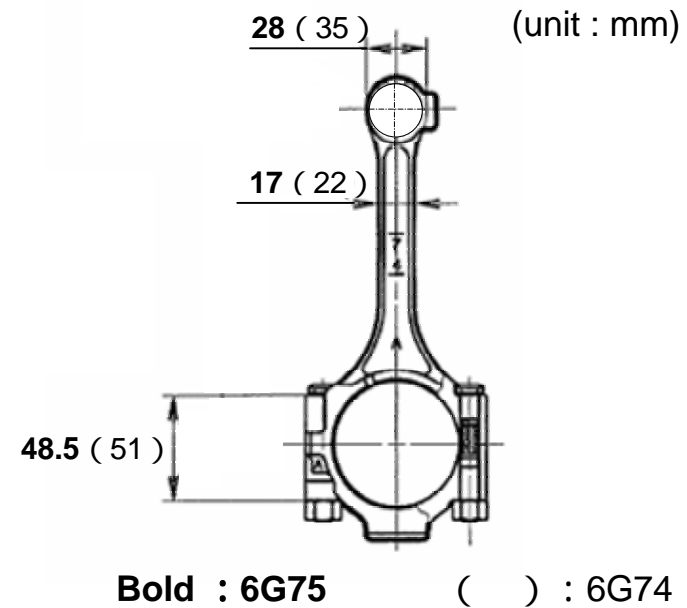


- 1 Vacuum hose connection
- 2 Heater hose connection
- 3 Fuel return hose connection
- 4 Fuel high-pressure hose connection
- 5 O-ring
- 6 Power steering oil pump assembly
- 7 A/C compressor assembly
- 8 Eye bolts
- 9 Gaskets
- 10 Engine oil cooler hose connection
- 11 Heat protector
- 12 Engine front mount insulators
- 13 Engine assembly

6. Weight reduction of major engine parts (main moving)



Crank shaft (Counter weight)



Connecting rod

13B MULTIPOINT INJECTION

MAJOR SPECIFICATIONS	0 1
SERVICE SPECIFICATIONS	0 2
SYSTEM DIAGRAM	0 3
TROUBLE SHOOTING	0 6
THROTTLE BODY	1 0

1 Major specifications

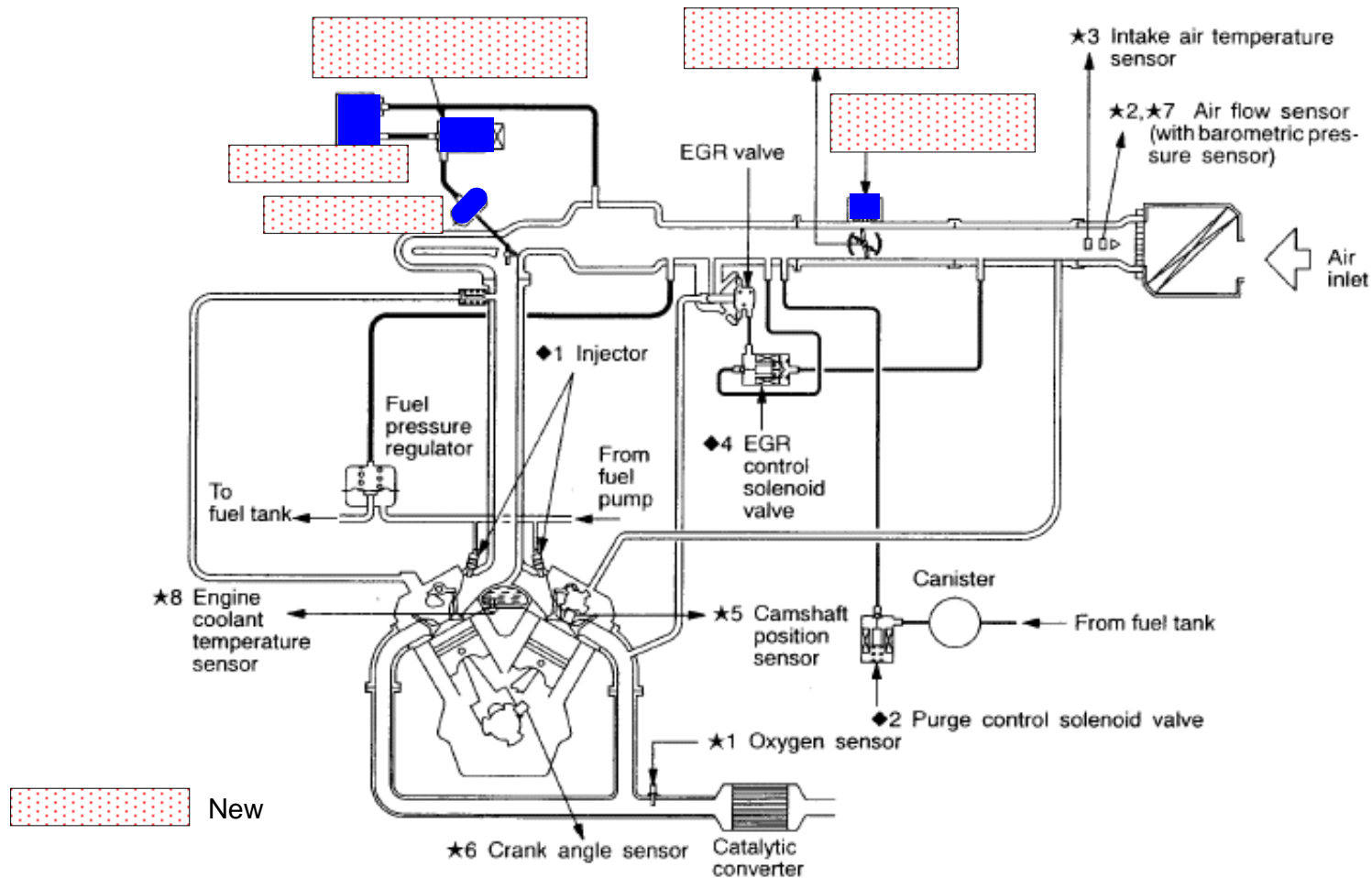
Item		Specifications
Throttle body	Throttle bore mm	65
	Throttle position sensor	Contactless type
	Throttle valve control servo	DC motor type with brush
Engine- A/T- ECU	Identification model number	E6T383388 <G. Exp>
		E6T383389 <GCC, Australia, S.Africa>
		E6T383390 <Brazil>
		E6T383391 <Taiwan>
Sensor	Accelerator pedal position sensor	Variable resistor type
	Accelerator pedal position switch	Rotary contact type, within accelerator pedal position sensor (main)
	Detonation sensor <Taiwan>	Piezoelectric type
Actuators	Injector identification mark	GDH 305

2 Service specifications

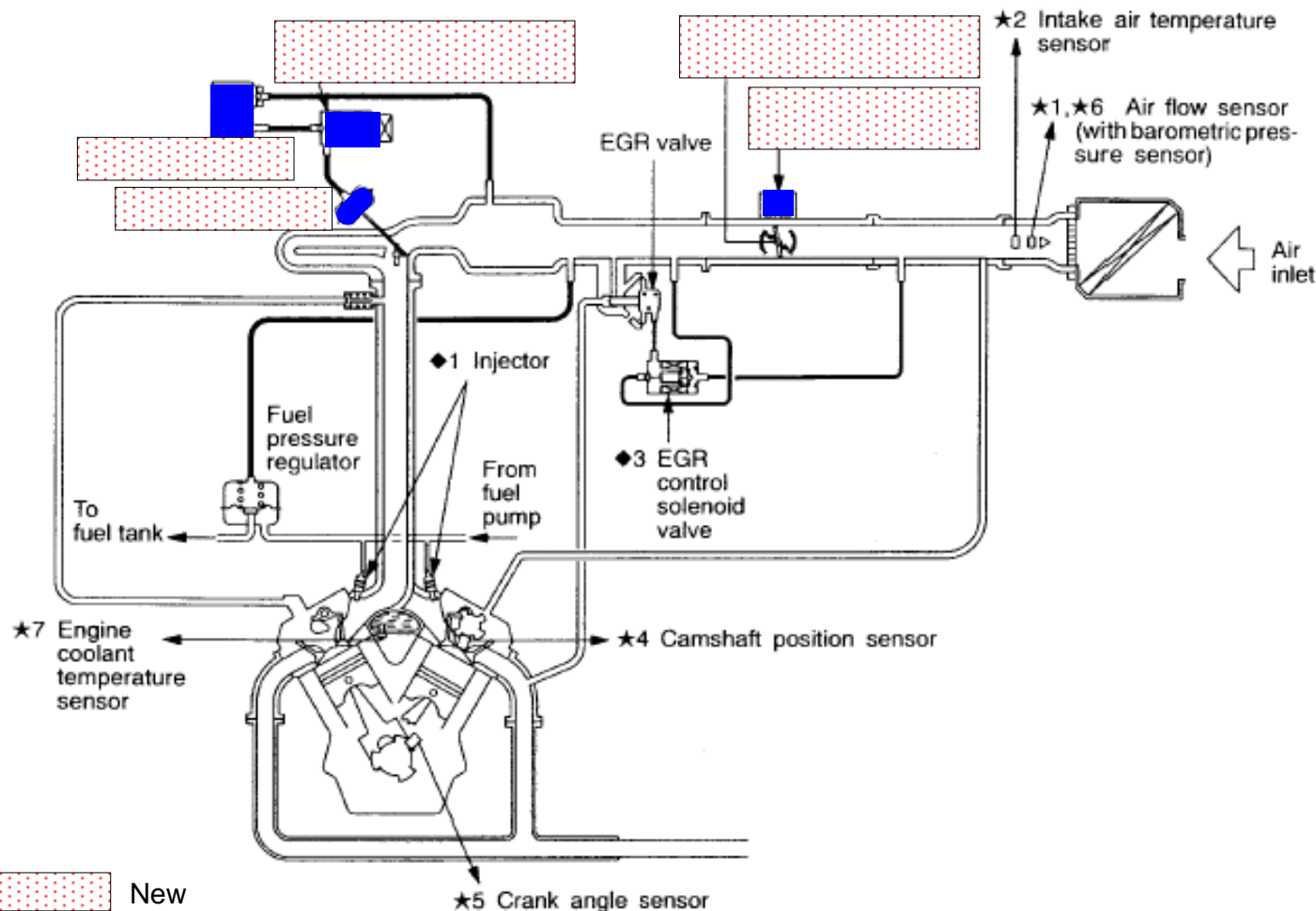
Item		Specifications
Adjustment voltage of accelerator pedal position sensor (main and sub)	V	0.985 - 1.085
Resistance of accelerator pedal position sensor (main and sub)	k	3.5 - 6.5
Oxygen sensor heater resistance (at 20) <Taiwan>	Left bank oxygen sensor (front)	4.5 - 8.0
	Right bank oxygen sensor (front)	
	Left bank oxygen sensor (rear)	11 - 18
	Right bank oxygen sensor (rear)	

3 System diagram

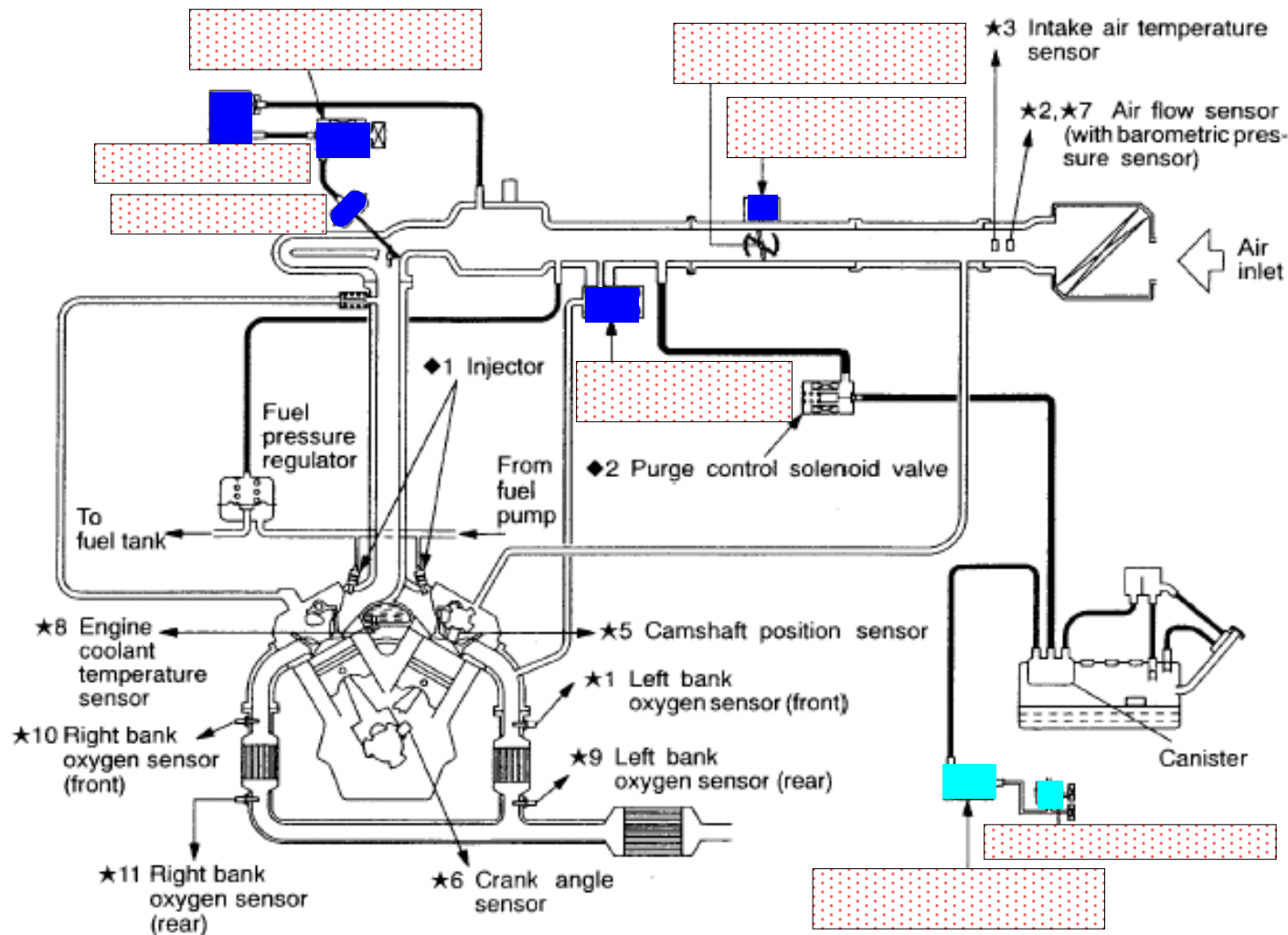
(1) Vehicles for General export with catalytic converter, GCC, Brazil and Australia



(2) Vehicles for General export without catalytic converter, South Africa



(3) Vehicles for Taiwan



 New

4 Troubleshooting

1) Diagnosis function

Inspection items when engine warning lamp “ON”

Item
Engine - A/T- ECU
Air flow sensor
Intake air temperature sensor
Engine coolant temperature sensor
Throttle position sensor
Crank angle sensor
Camshaft position sensor
Injector
Barometric pressure sensor
Immobilizer system
Detonation sensor <Taiwan>

2) Inspection chart for diagnosis codes

Code No.	Diagnosis items	Main diagnosis contents
P0100	Air flow sensor system	Open or short-circuit in sensor related circuits
P0110	Intake air temperature sensor system	
P0115	Engine coolant temperature sensor system	<ul style="list-style-type: none"> · Open or short-circuit in sensor related circuits · Excessive connector contact resistance
P0122	Throttle position sensor (main) circuit low input	Open or short-circuit in the TPS (main) circuit or loose connector contact
P0123	Throttle position sensor (main) circuit high input	
P0105	Barometric pressure sensor system	Open or short-circuit in sensor related circuits
P0201	Injector system - Cylinder 1	Open circuit in Injector related circuit
P0202	Injector system - Cylinder 2	
P0203	Injector system - Cylinder 3	
P0204	Injector system - Cylinder 4	
P0205	Injector system - Cylinder 5	
P0206	Injector system - Cylinder 6	
P0222	Throttle position sensor (sub) circuit low input	Open or short-circuit in the TPS (sub) circuit or loose connector contact
P0223	Throttle position sensor (sub) circuit high input	
P0325	Detonation sensor system <Taiwan>	Abnormal sensor output

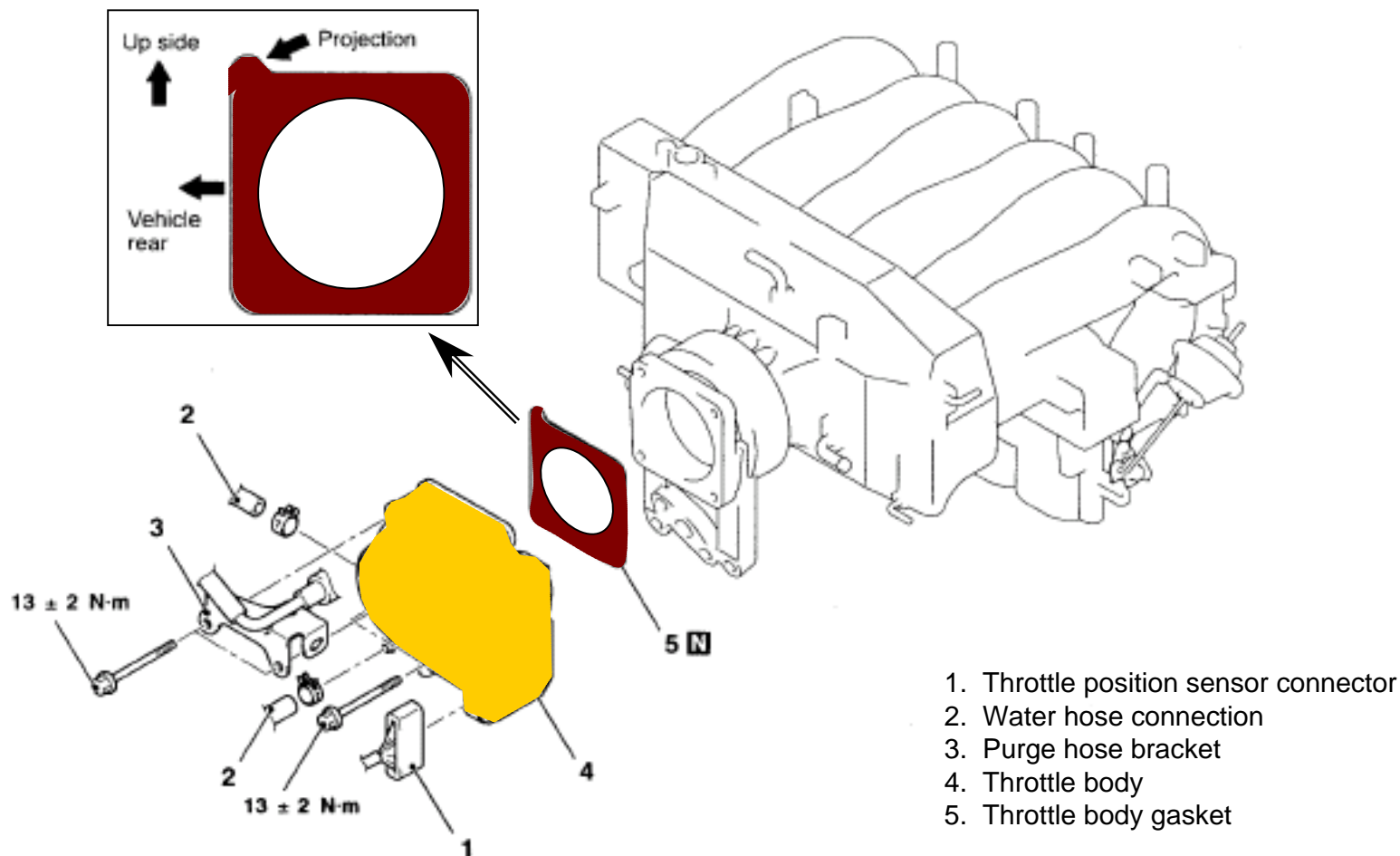
From the previous slide

Code No.	Diagnosis items	Main diagnosis contents
P0335	Crank angle sensor system	Open or short-circuit in the crank angle sensor circuit or loose connector contact
P0340	Camshaft position sensor system	Open or short-circuit in the camshaft position sensor circuit or loose connector contact
P0500	Vehicle speed sensor system · A/T DTC No29 (Vehicle speed sensor system)	Abnormal signal input
P0606	Power train control module main processor system	Malfunction of the Engine-A/T-ECU
P0638	Throttle valve control servo circuit range / performance problem	Open or short-circuit in the throttle valve control servo circuit or loose connector contact
P0642	Throttle position sensor power supply	Malfunction of the Engine-A/T-ECU
P0657	Throttle valve control servo relay system	Open or short-circuit in the throttle valve control servo relay circuit or loose connector contact
P1601	Immobilizer system	Open or short-circuit, or loose connector contact
P2100	Throttle valve control servo circuit (open)	Open or short-circuit in the throttle valve control servo circuit or loose connector contact
P2101	Throttle valve control servo magneto	
P2102	Throttle valve control servo circuit (shorted low)	
P2103	Throttle valve control servo circuit (shorted high)	
P2108	Throttle valve control servo module processor	Malfunction of the Engine-A/T-ECU

From the previous slide

Code No.	Diagnosis items	Main diagnosis contents
P2121	Accelerator pedal position sensor (main) range/performance problem	<ul style="list-style-type: none"> · Open or short-circuit in the accelerator pedal position sensor (main) circuit or loose connector contact · Short-circuit in the accelerator position switch circuit or loose connector contact
P2122	Accelerator pedal position sensor (main) circuit low input	Open or short-circuit in the accelerator pedal position sensor (main) circuit or loose connector contact
P2123	Accelerator pedal position sensor (main) circuit high input	
P2126	Accelerator pedal position sensor (sub) circuit range/performance problem	<ul style="list-style-type: none"> · Open or short-circuit in the accelerator pedal position sensor (sub) circuit or loose connector contact · Short-circuit in the accelerator position switch circuit or loose connector contact
P2127	Accelerator pedal position sensor (sub) circuit low input	Open or short-circuit in the accelerator pedal position sensor (sub) circuit or loose connector contact
P2128	Accelerator pedal position sensor (sub) circuit high input	
P2135	Throttle position sensor (main and sub) range/performance problem	Short circuit in the throttle position sensor (main) circuit or loose connector contact
P2138	Accelerator pedal position sensor (main and sub) range/performance problem	Short circuit in the accelerator pedal position sensor (main) circuit or loose connector contact

5 Throttle body



1 4 ENGINE COOLING

MAJOR SPECIFICATIONS 0 1

1 Specification

The radiator specification of 6G75 engine has been changed.

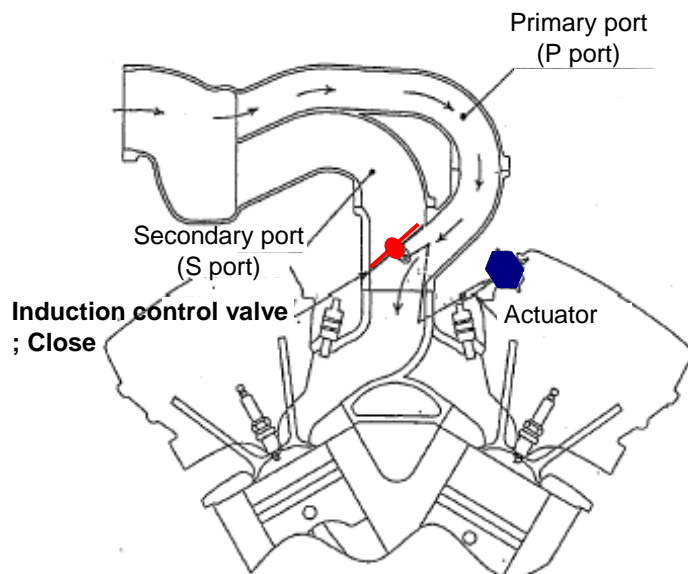
Item		Specification
Size : Height x Width x Thickness	mm	703.6 x 500 x 24 (fp:1.5)
Performance	kJ / h	239,000

1 5 INTAKE AND EXHAUST

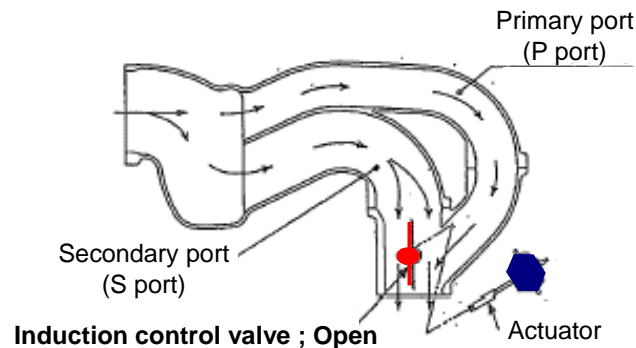
VARIABLE INDUCTION SYSTEM	0 1
AIR CLEANER	0 4
INTAKE MANIFOLD	0 5
EXHAUST MANIFOLD	0 7

1 Variable induction control system

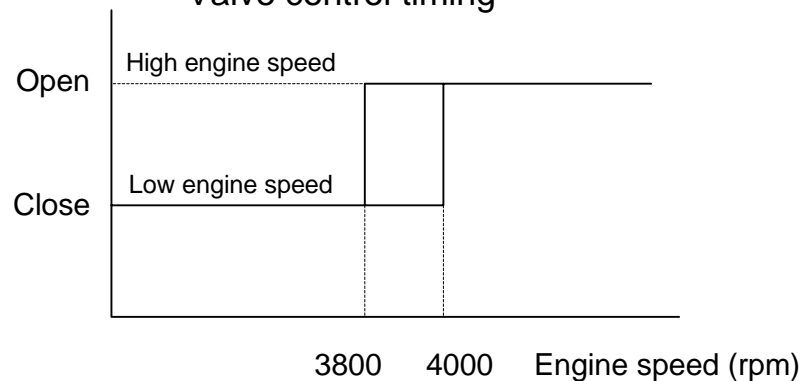
Low engine speed



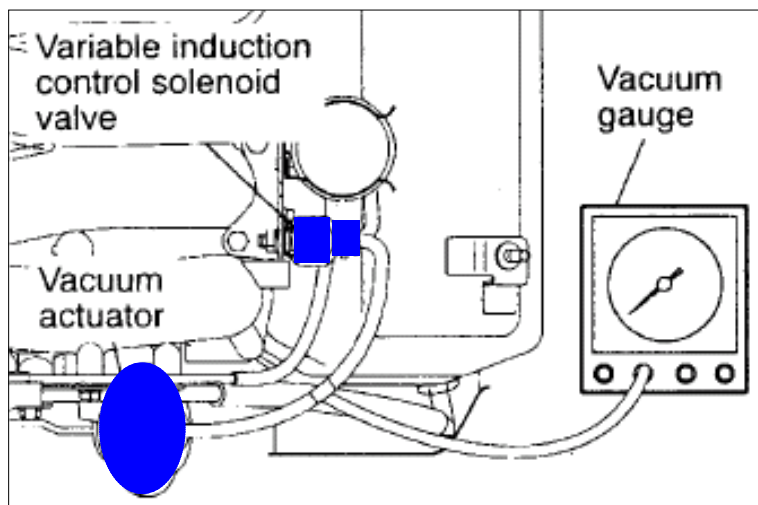
High engine speed



Valve control timing

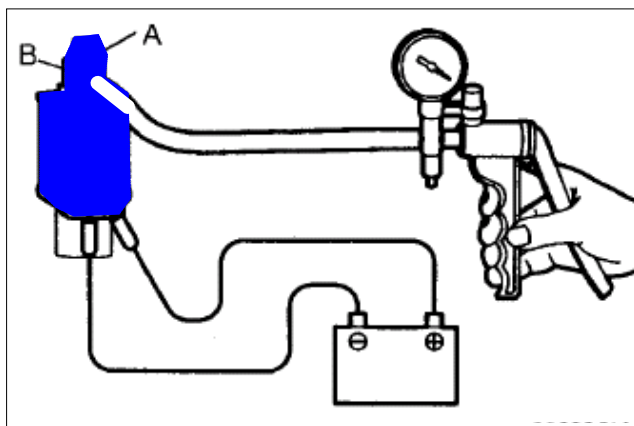


(1) Variable induction control system check

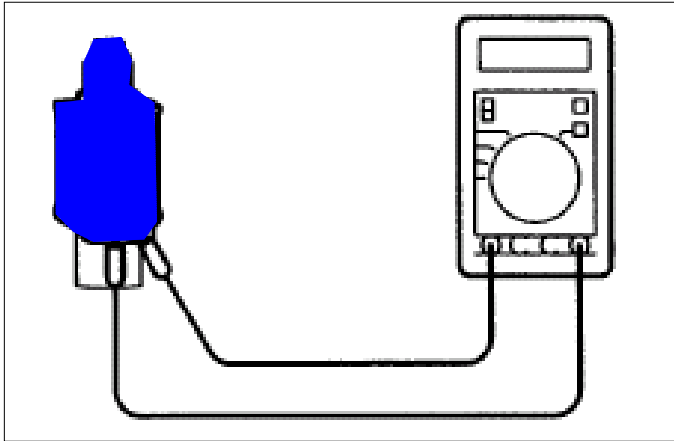


Engine speed	Normal condition	Control valve
3,800rpm or less	Vacuum maintained	Closed
Within 3,800rpm or less, engine is suddenly raced	Vacuum not changed	Closed
4,000rpm or more	Vacuum leaks	Open

(2) Variable induction control solenoid valve check



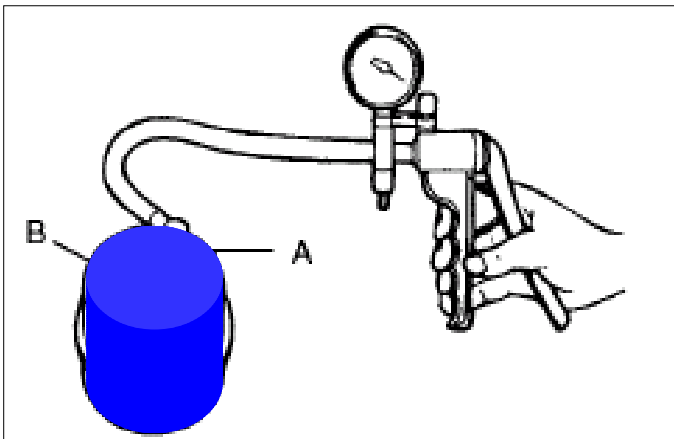
Battery positive voltage	Nipple (A) condition	Normal condition
Applied	Open	Vacuum leaks
	Closed	Vacuum maintained
Not applied	Open	Vacuum leaks



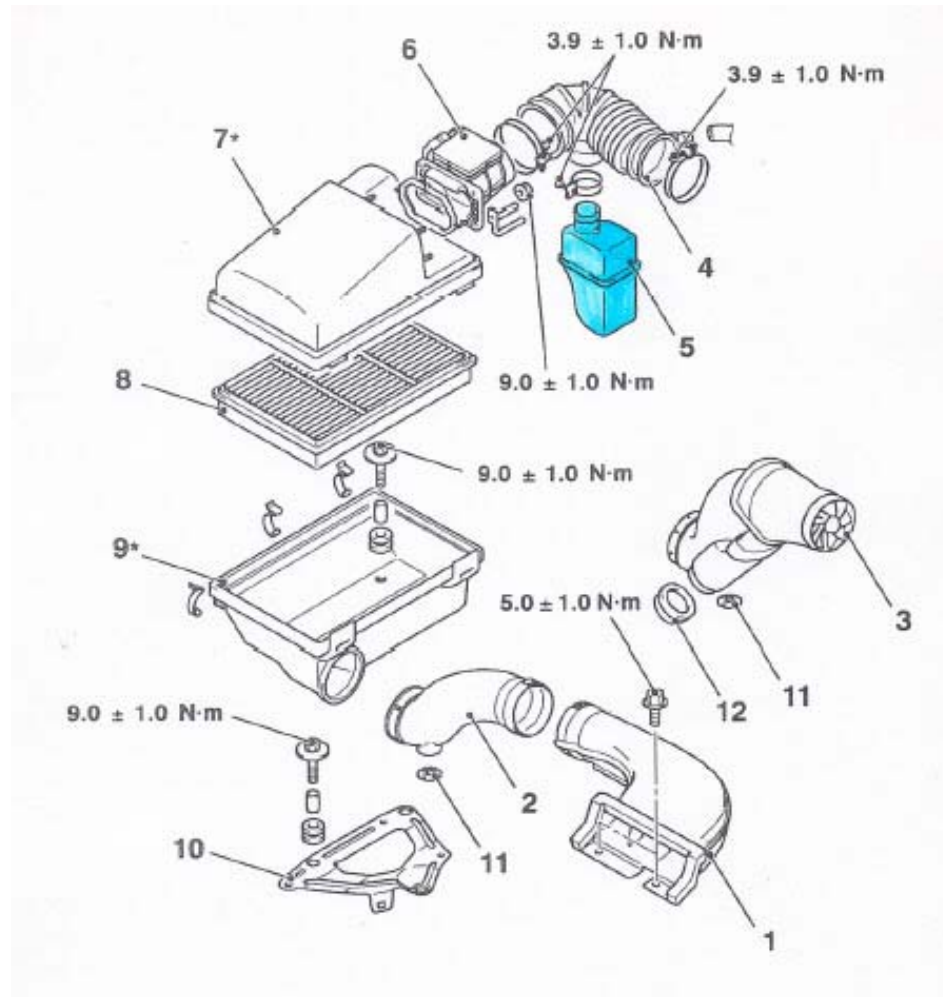
- Measure the resistance between the terminals of the variable induction control solenoid valve.

Standard value : 29 35 [at 20]

(3) Vacuum tank check

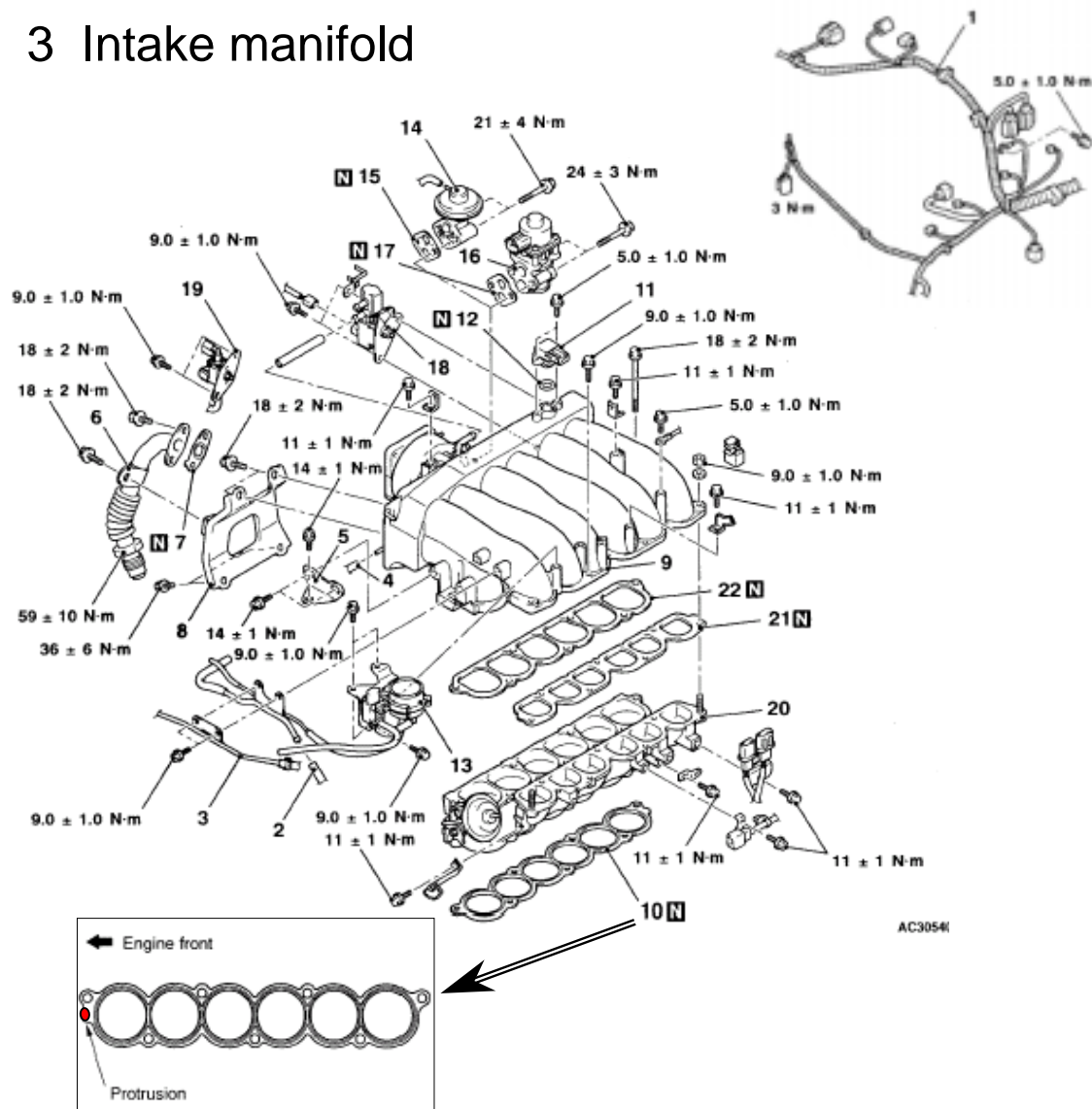


2 Air cleaner

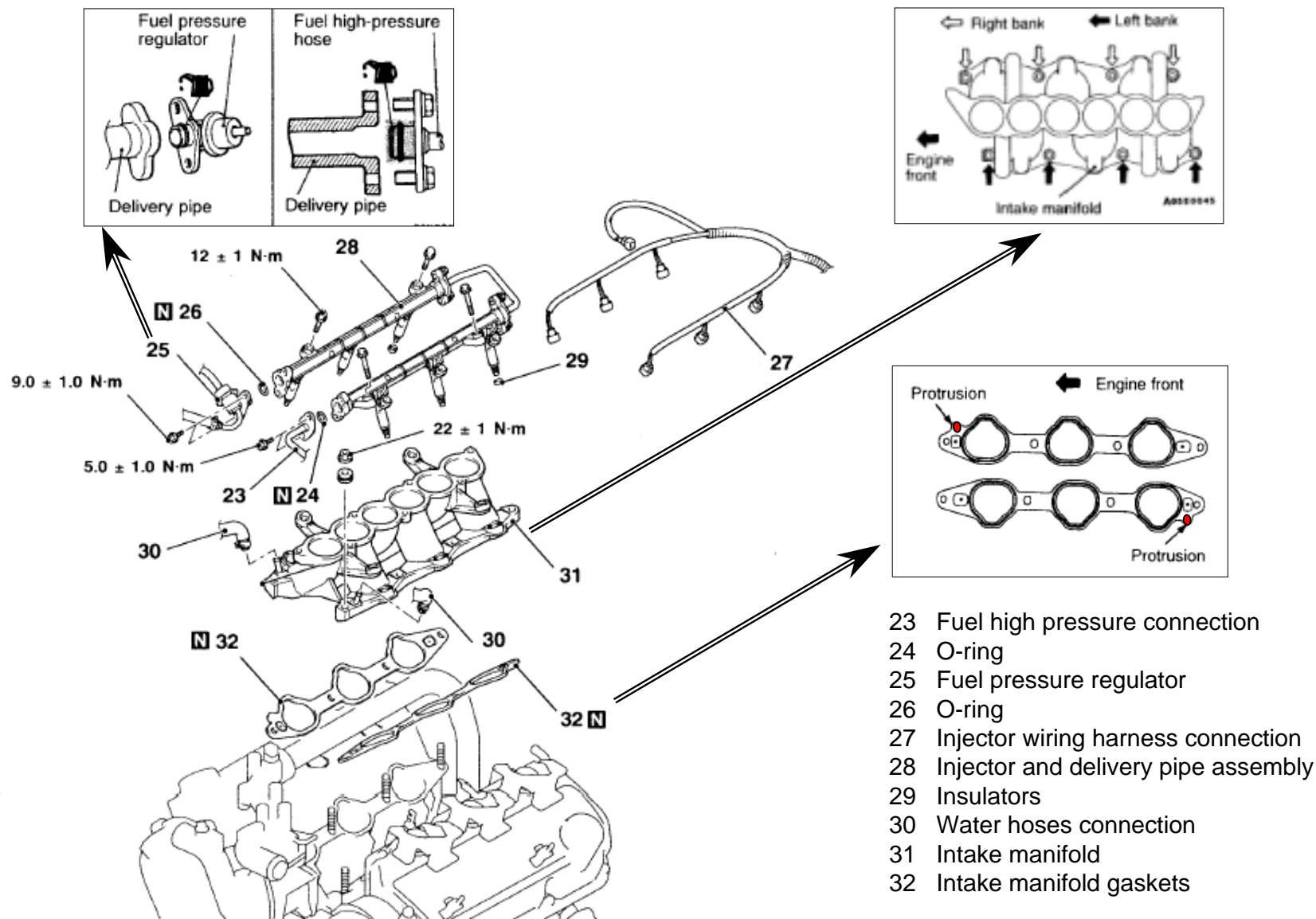


- 1 Air duct (A)
- 2 Air duct (B)
- <Vehicle without Pre-cleaner>
- 3 Pre-cleaner assembly
- 4 Air intake hose
- 5 Resonator
- 6 Air flow sensor assembly
- 7 Air cleaner cover
- 8 Air cleaner element
- 9 Air cleaner body
- 10 Air cleaner bracket
- 11 Unloader valve
- 12 Unloader valve

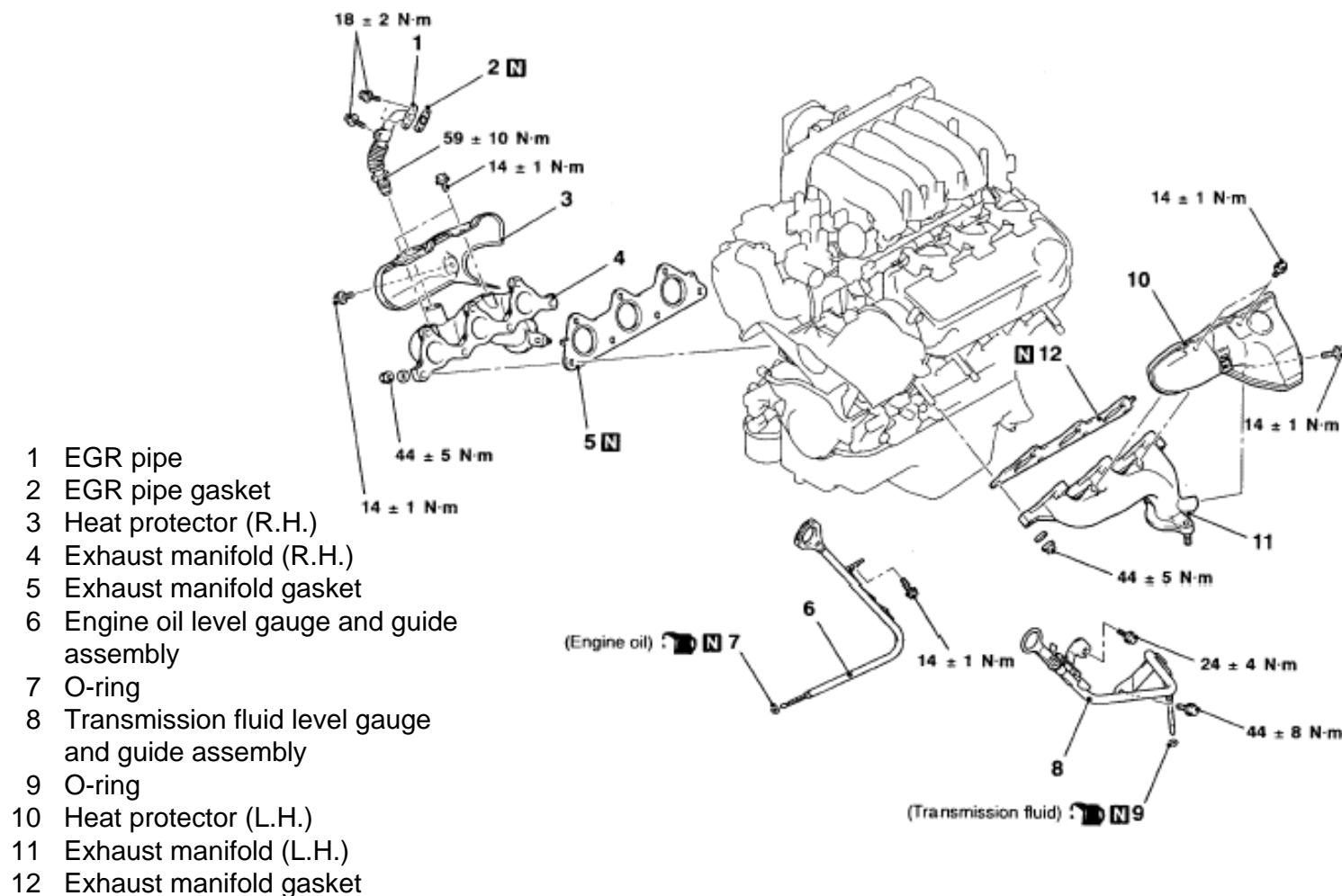
3 Intake manifold



- 1 Control wiring harness connection
- 2 PCV hose connection
- 3 Fuel pipe
- 4 Vacuum hose connection
- 5 Water outlet fitting bracket
- 6 EGR pipe
- 7 EGR pipe gasket
- 8 Surge tank stay
- 9 Surge tank
- 10 Surge tank gasket
- 11 Manifold differential pressure sensor <Taiwan>
- 12 O-ring <Taiwan>
- 13 Solenoid valve and vacuum hose assembly
- 14 EGR valve <Except for Taiwan>
- 15 EGR valve gasket <Except for Taiwan>
- 16 EGR valve <Taiwan>
- 17 EGR valve gasket <Taiwan>
- 18 Solenoid valve
- 19 Solenoid valve
- 20 Intake manifold tuning valve assembly
- 21 Intake manifold tuning valve gasket (P)
- 22 Intake manifold tuning valve gasket (S)



4 Exhaust manifold



- 1 EGR pipe
- 2 EGR pipe gasket
- 3 Heat protector (R.H.)
- 4 Exhaust manifold (R.H.)
- 5 Exhaust manifold gasket
- 6 Engine oil level gauge and guide assembly
- 7 O-ring
- 8 Transmission fluid level gauge and guide assembly
- 9 O-ring
- 10 Heat protector (L.H.)
- 11 Exhaust manifold (L.H.)
- 12 Exhaust manifold gasket

1 6 ENGINE ELECTRICAL

ALTERNATOR	0 1
STARTER MOTOR	0 1
IGNITION SYSTEM	0 2
SPECIAL TOOLS	0 5
SPARK PLUG	0 6
IGNITION COIL	0 7
CRANK ANGKE SENSOR	0 8
DETONATION SENSOR	0 9

1 Alternator specification for 6G7 MPI

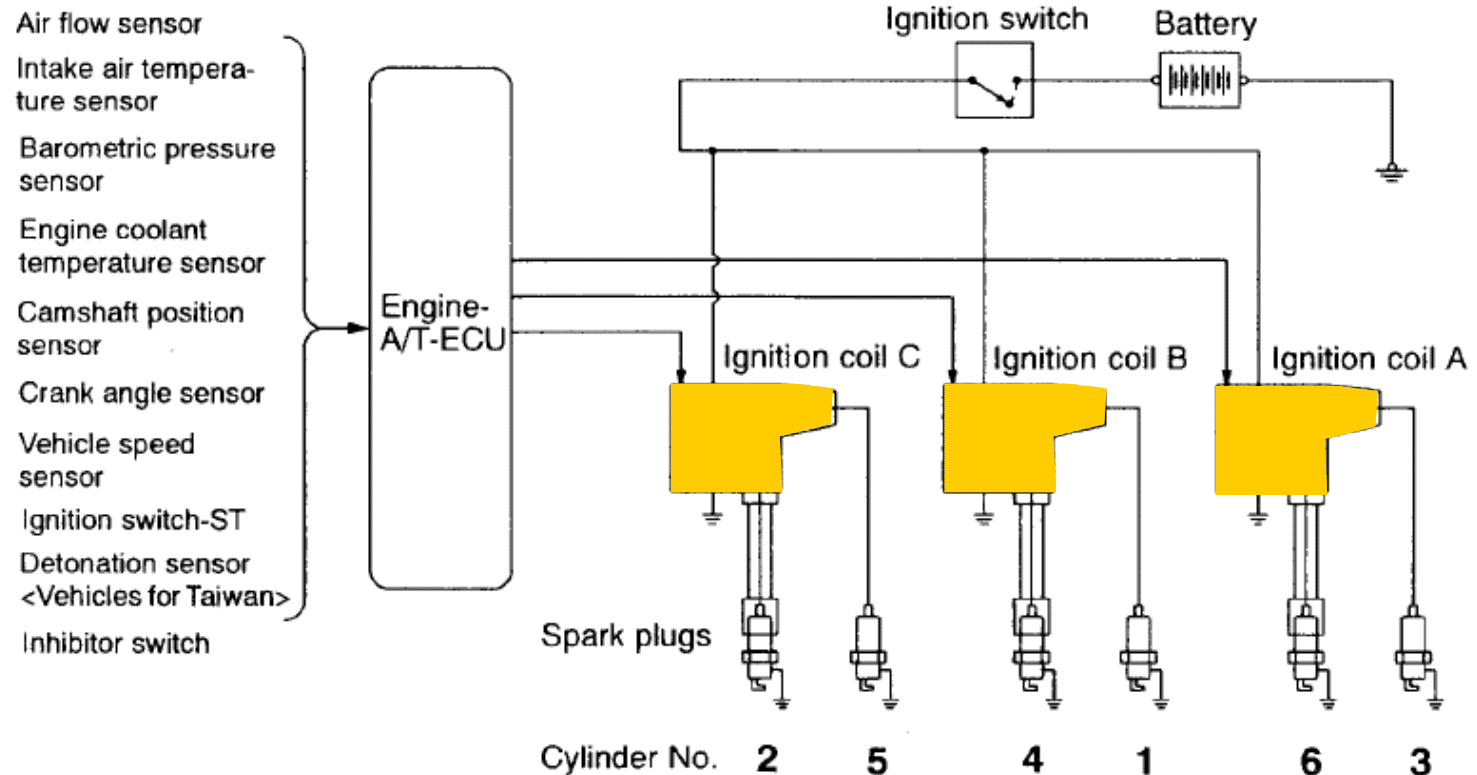
Item	6G72/74 MPI	6G75 MPI
Rated output V/A	12/110 (12/85--03MY)	12/110
Voltage regulator	Electronic built-in type	

2 Starter motor specification for 6G7 MPI

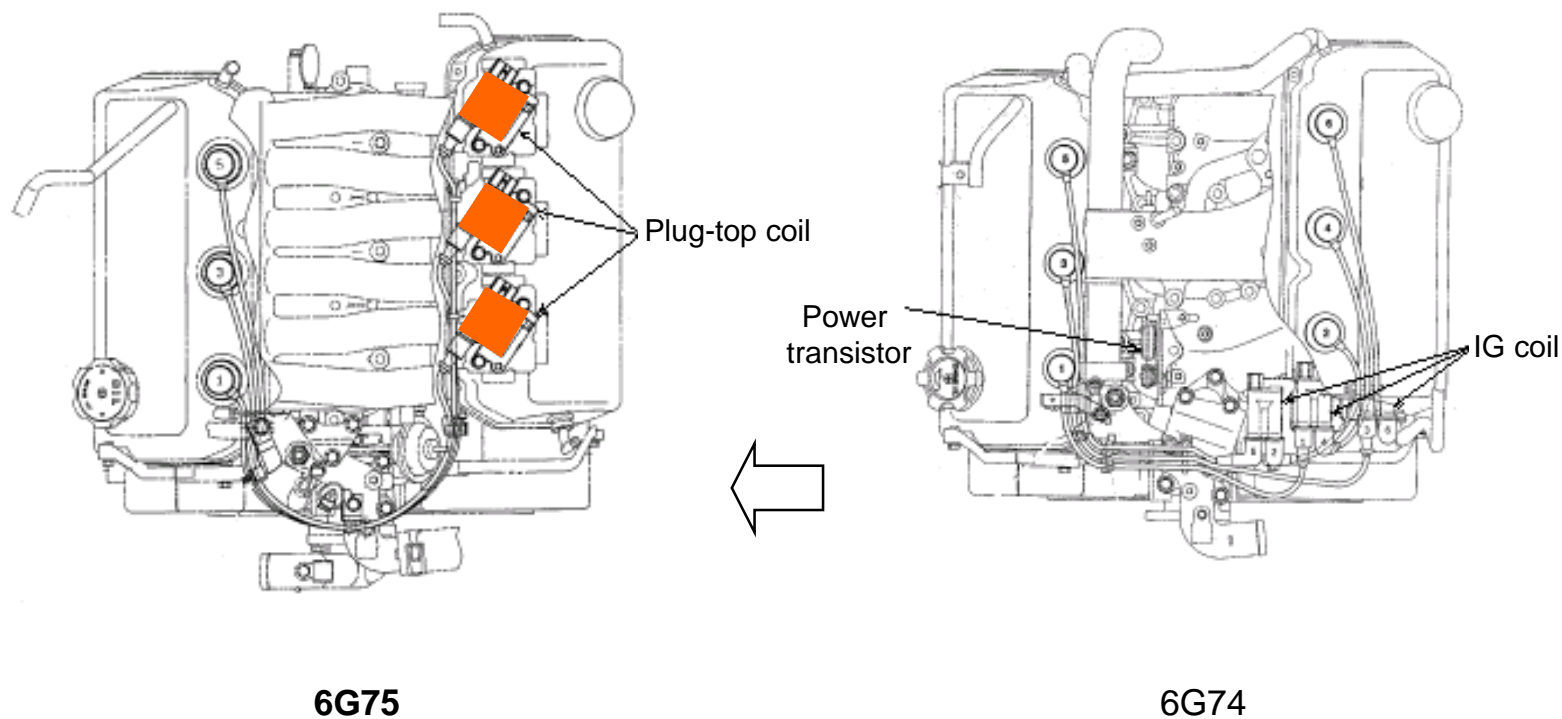
Item	6G72/74 MPI	6G75 MPI
Rated output kW/V	1.4/12 (1.2/12--03MY)	1.4/12
No. of pinion teeth	8	

3 Ignition system for 6G7 MPI

1) System diagram



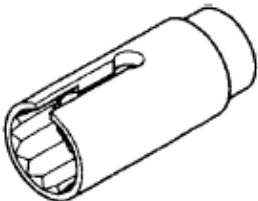
2) Configuration diagram



3) Specifications

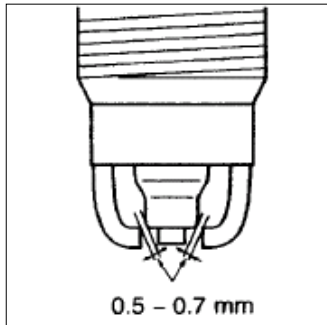
Spark plug				
Item		Specifications		
		6G72/74/75 < Except Taiwan>		6G75 < Taiwan >
Make	NGK	BKR6ETUB		IFR6F
	DENSO	————		SK20PR-AB
Plug gap mm	Standard value	0.5	0.7	0.7 0.8
	Limit	————		1.0
Ignition coil				
Item		Standard value		
Secondary coil resistance k		8.5 11.5		
Resistive code				
Item		Limit		
Resistance k		Max.8.5		

4 Special tool

Tool	Part number	Name	Use
	MD 998773	Detonation sensor wrench	Detonation sensor removal and installation

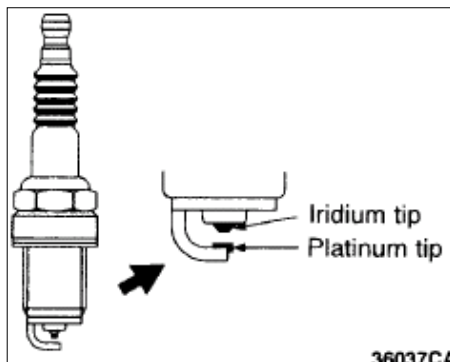
5 Spark plug check and cleaning

< Except Taiwan >



Caution : Remove carbon deposits with wire brush or plug cleaner

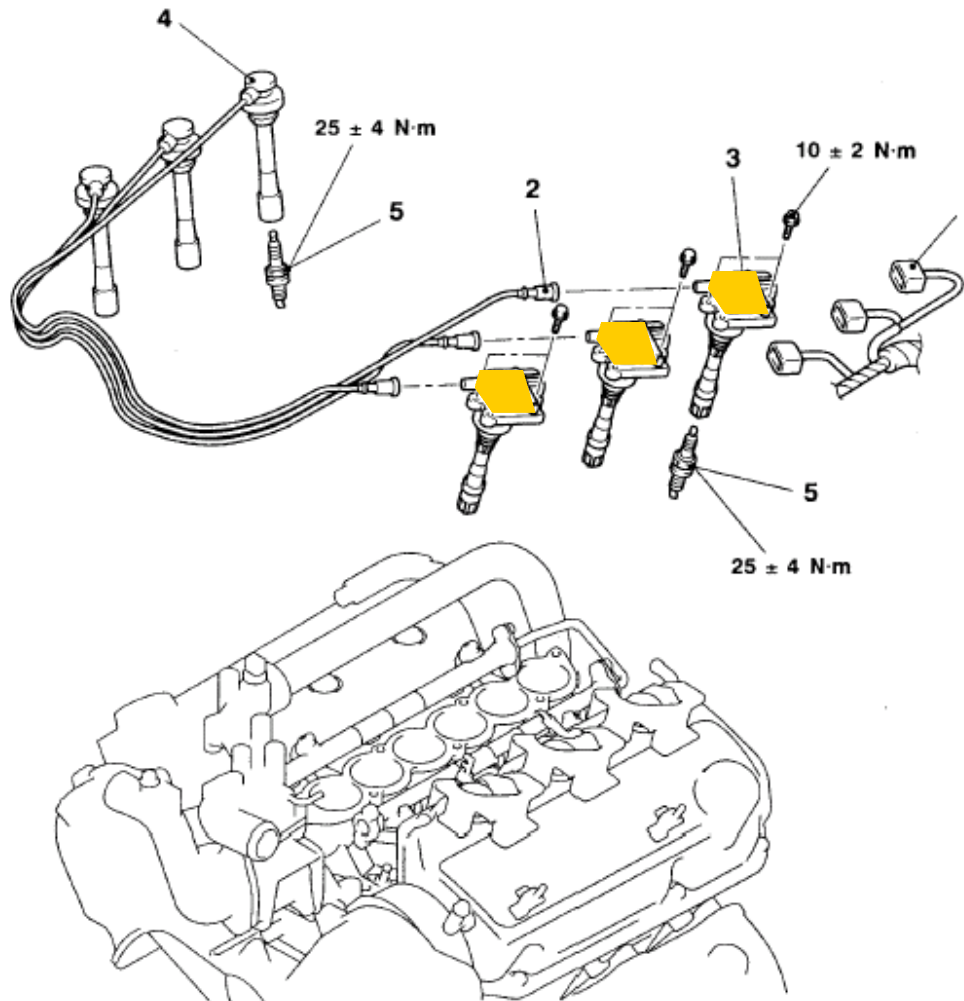
< Taiwan >



Caution :

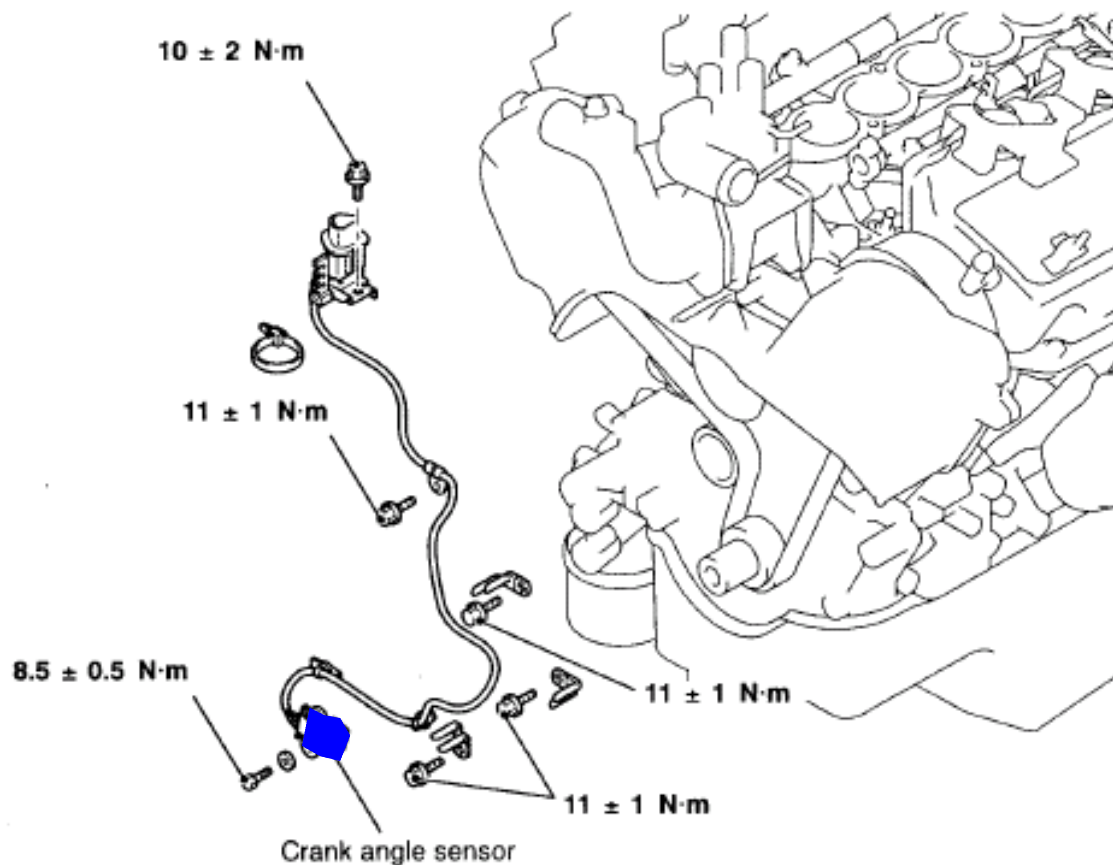
- Do not attempt to adjust the gap of the platinum plug
- Always use a plug cleaner and finish cleaning within 20 seconds.
- Do not use wire brushes to avoid damage of the platinum tip and the iridium tip.

6 Ignition coil installation < 6 G75-MPI >

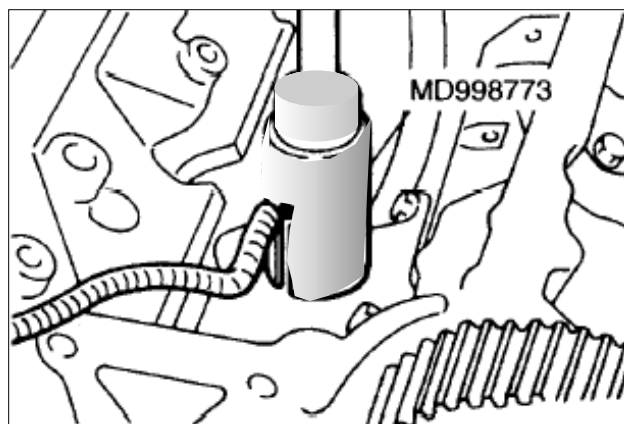
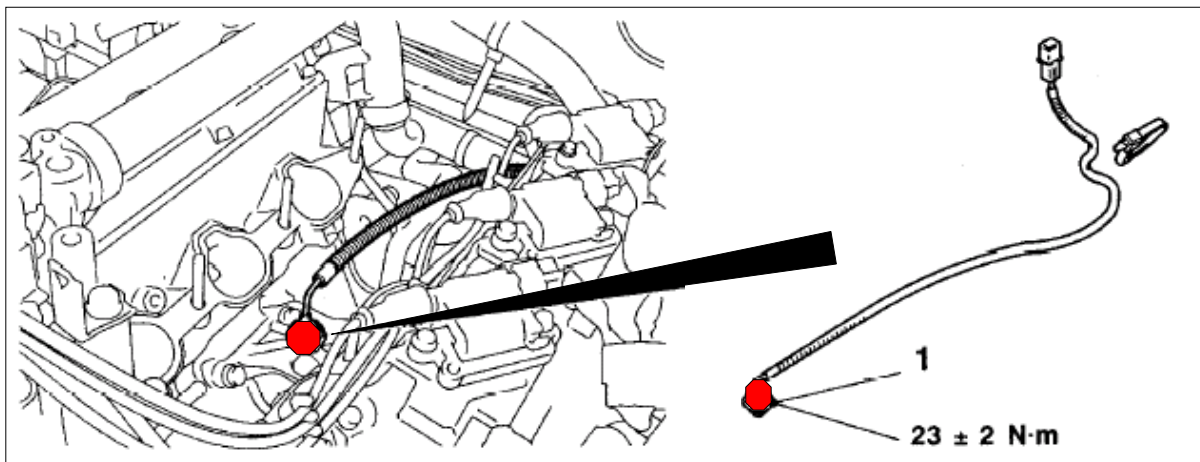


- 1 Ignition coil connectors
- 2 Spark plug cables connection
- 3 Ignition coils
- 4 Spark plug cables
- 5 Spark plugs

7 Crank angle sensor < 6 G75-MPI >



8 Detonation sensor <Taiwan 6 G75-MPI >



Tightening torque : $23 \pm 2 \text{ N} \cdot \text{m}$

1 7 ENGINE AND EMISSION CONTROL

GENERAL	0 1
ENGINE CONTROL SYSTEM	0 2
VACUUM HOSE PIPING SYSTEM DIAGRAM	0 6
VACUUM CIRCUIT SYSTEM DIAGRAM	0 9
EVAPOLATIVE EMISSION CONTROL	1 2
SYSTEM DIAGRAM	
EXHAUST GAS RECIRCURATION	1 4
SYSTEM DIAGRAM	

1. General

< 6 G72 / 74-MPI >

- A catalytic converter has been added to the vehicles with 6G72/74-MPI for GCC and to the vehicles with 6G74-MPI engine for Australia.

< 6 G75-MPI >

- 6G75-MPI engine has been added to the model line-up.

The emission control system consists of the following subsystems;

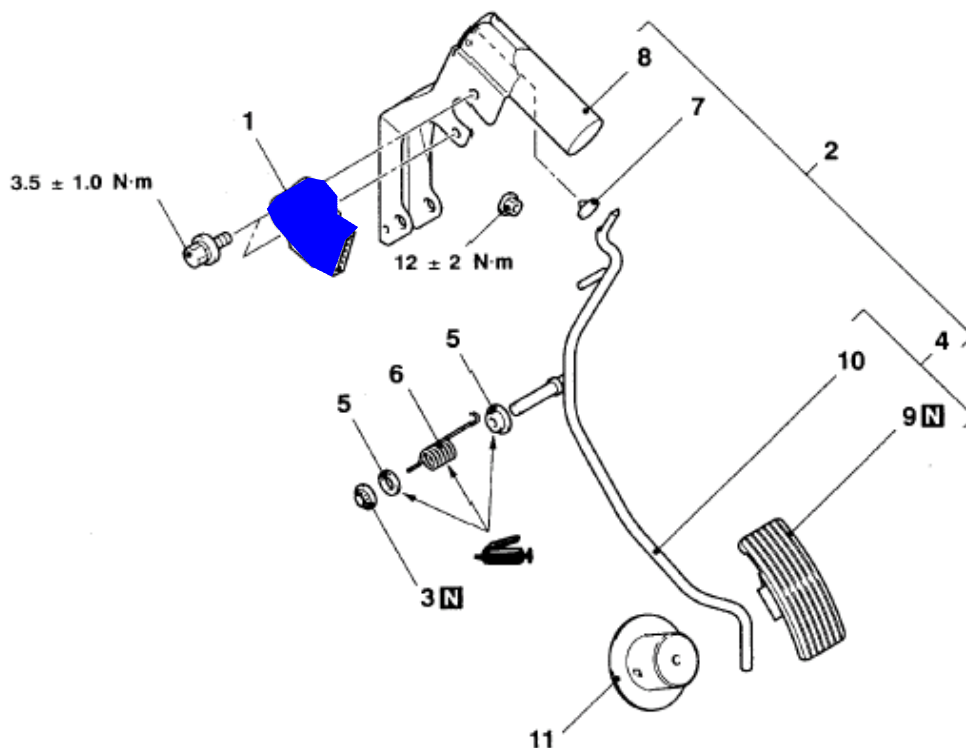
- Crank case emission control system
- Evaporative emission control system
- Exhaust emission control system

Service specifications

Item	Standard value
Purge control solenoid valve coil resistance (at 20)	30 34
EGR control solenoid valve resistance (at20) < Vehicles except Taiwan >	28 36
EGR Valve (stepper motor) resistance (at 20) < Vehicles for Taiwan >	20 24

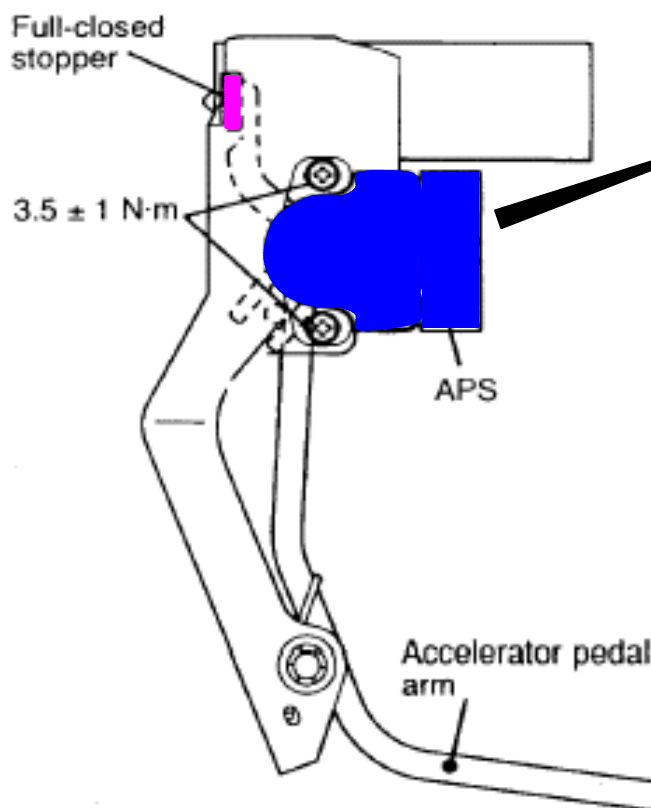
2. Engine control system < 6 G75-MPI >

1) Accelerator pedal with Accelerator pedal Position Sensor (APS)



- 1 Accelerator pedal position sensor
- 2 Accelerator pedal assembly
- 3 Push-on spring nut
- 4 Accelerator pedal pad and accelerator arm assembly
- 5 Bushing
- 6 Spring
- 7 Stopper
- 8 Accelerator pedal bracket
- 9 Accelerator pedal pad
- 10 Accelerator arm
- 11 Accelerator stopper

2) Accelerator pedal Position Sensor (APS)

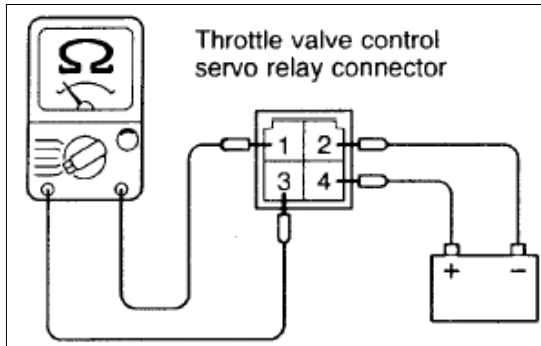


APS-side connector

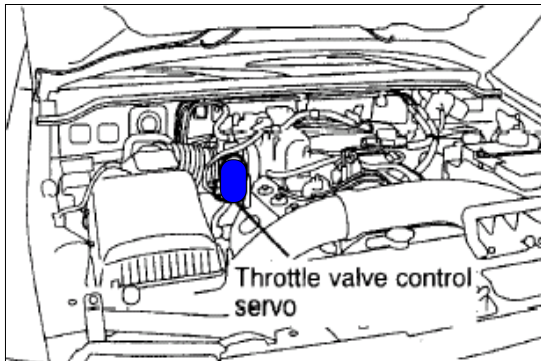


- Standard voltage value of the APS when turn the APS : 0.985 1.085 V
- Standard value of the resistances between APS connector terminal 2 and terminal 1, and between terminal 8 and terminal 7 : 3.5 6.5 k
- The resistances between APS terminal 2 and terminal 3, and between 8 and terminal 6 change smoothly in proportion to the pedal stroke when depress the accelerator pedal slowly.
- The continuity between APS connector terminal 4 and terminal 5.
 - Depress the accelerator pedal : No continuity
 - Release the accelerator pedal : Continuity

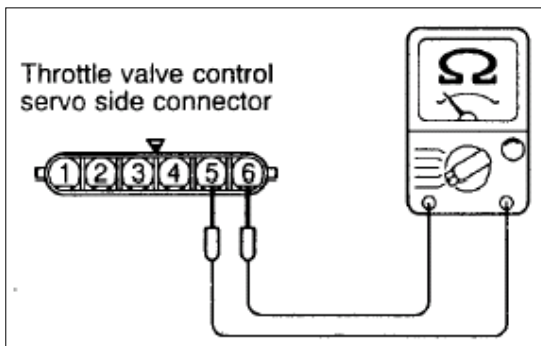
3) Throttle valve position sensor



Battery voltage	Terminal Number			
	1	2	3	4
Not supplied		—	—	—
Supplied	—	—	—	—
		-		+



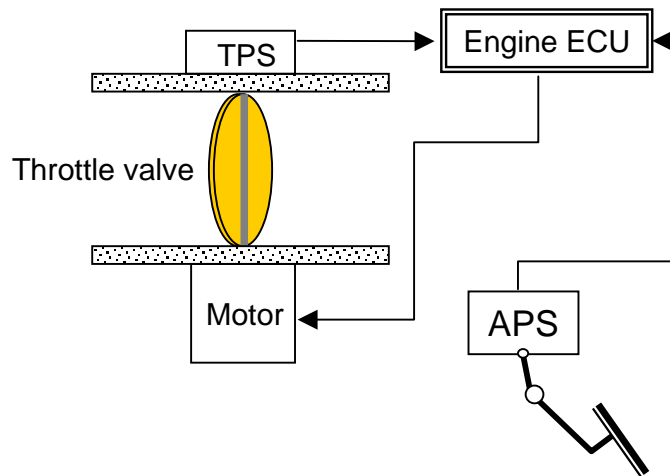
- Throttle valve control operation
 - Disconnect the air intake hose from the throttle body
 - IG switch ON
 - Operate the accelerator pedal and confirm that the throttle valve is opening and closing accordingly.



- Terminal resistance
Standard value of the resistance : 0.3 100 at 20

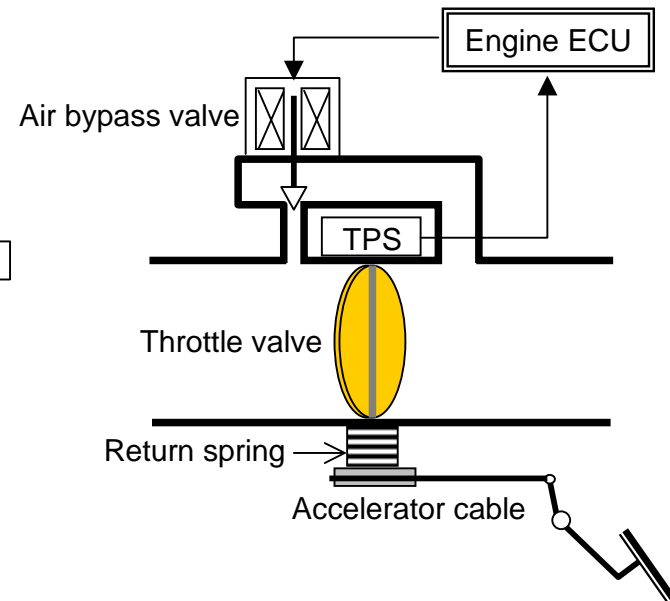
4) Electronic Throttle Valve (ETV) control system

ETV



6G75

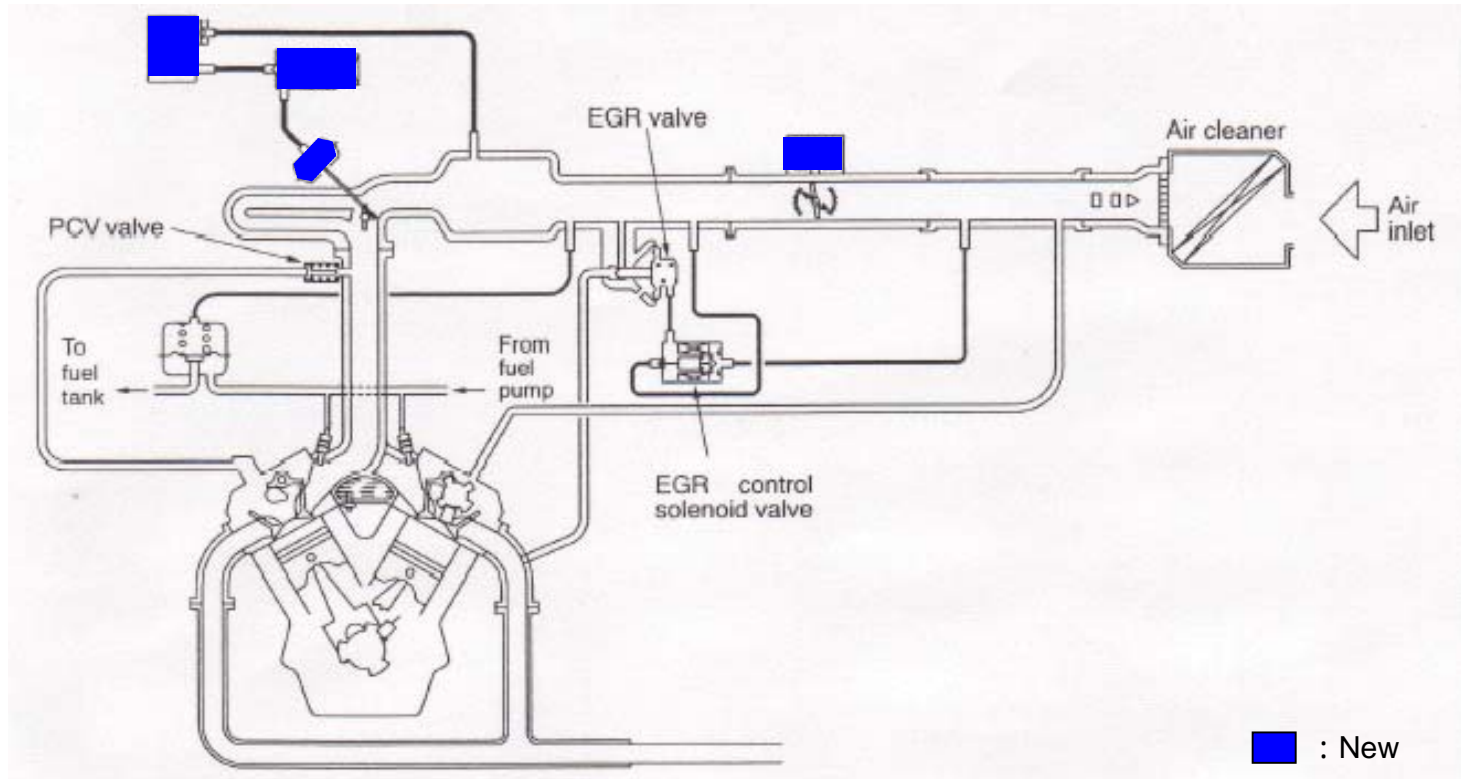
Cable



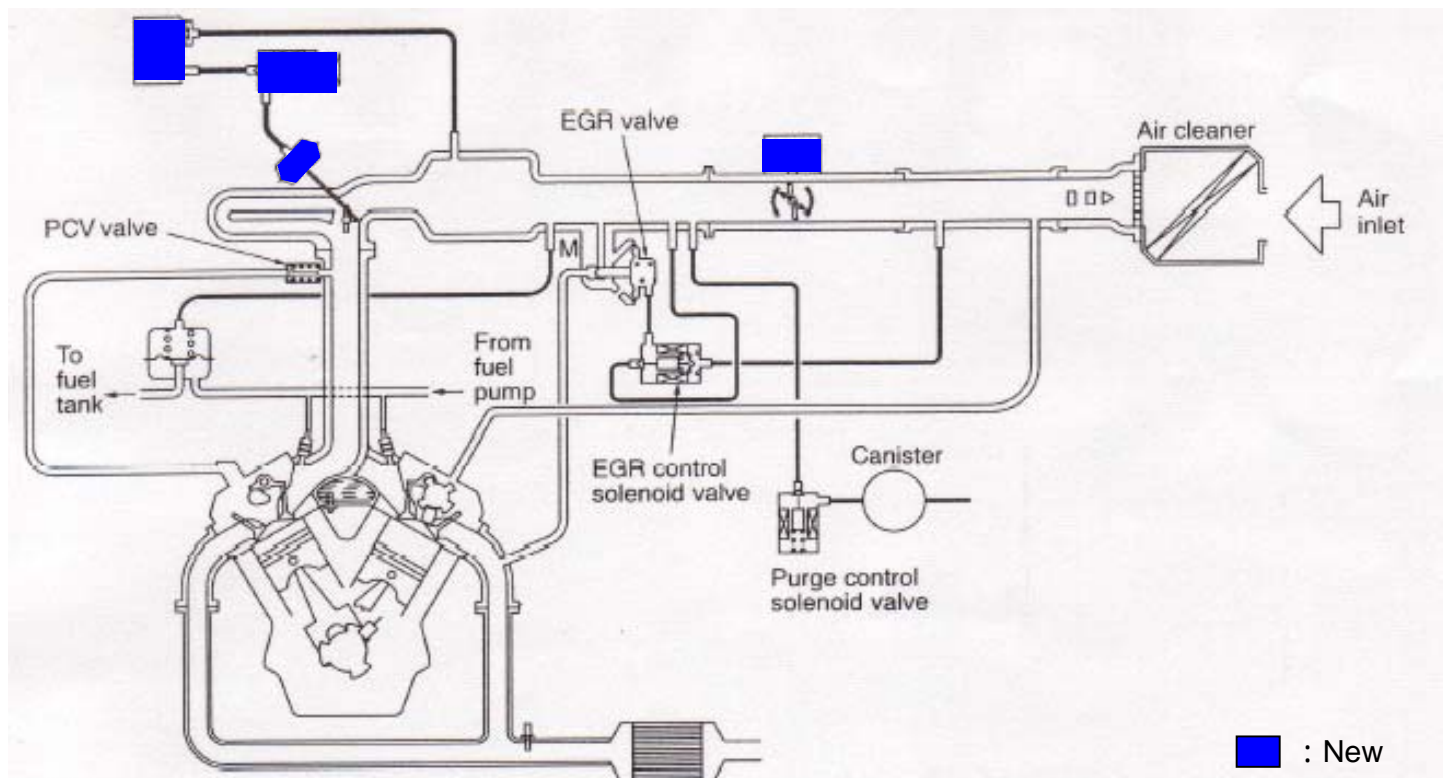
6G74

3. Vacuum hose piping system diagram

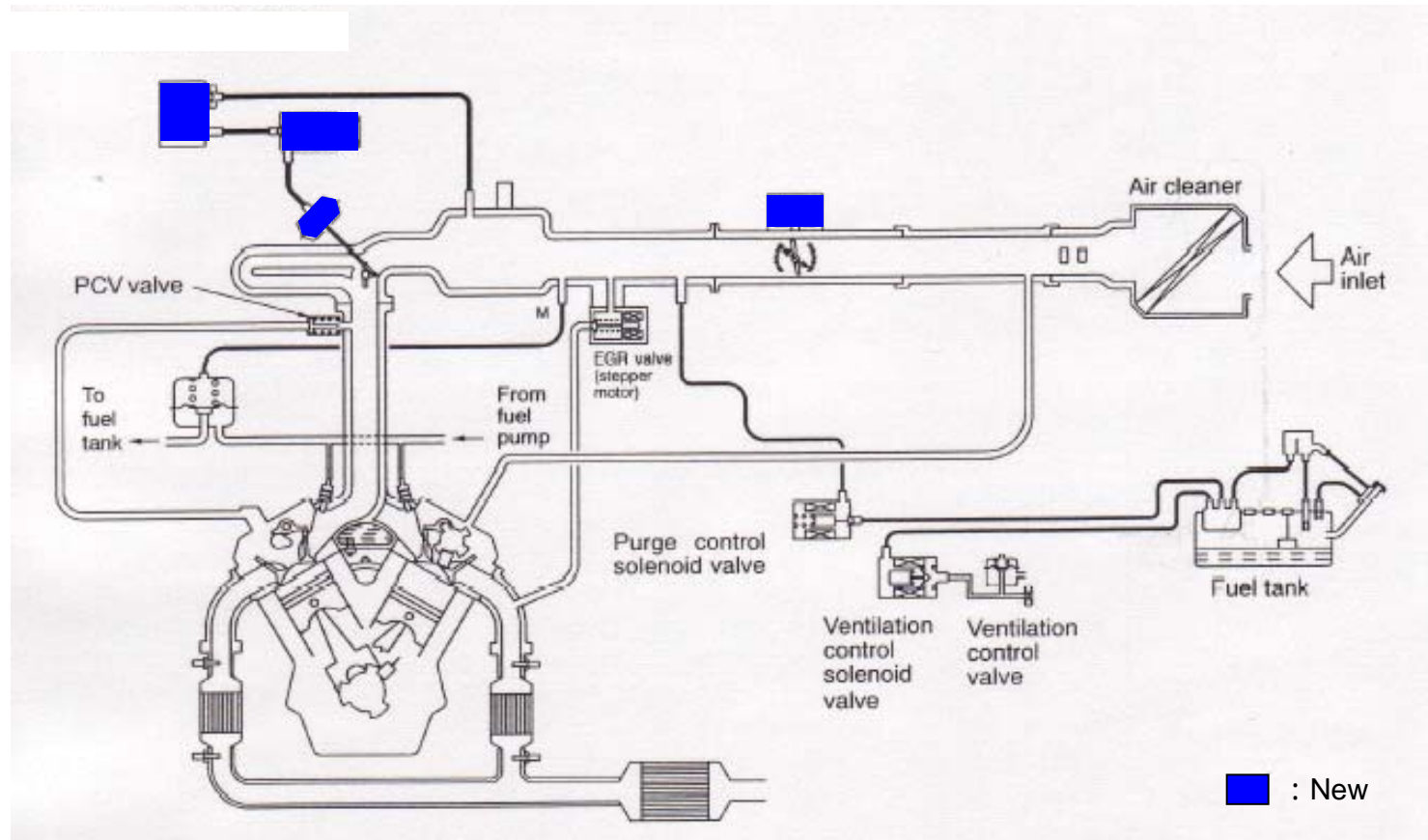
< Vehicles for General Export without catalytic converter, South Africa >



< Vehicles for General Export with catalytic converter,
GCC, Brazil, South Africa >

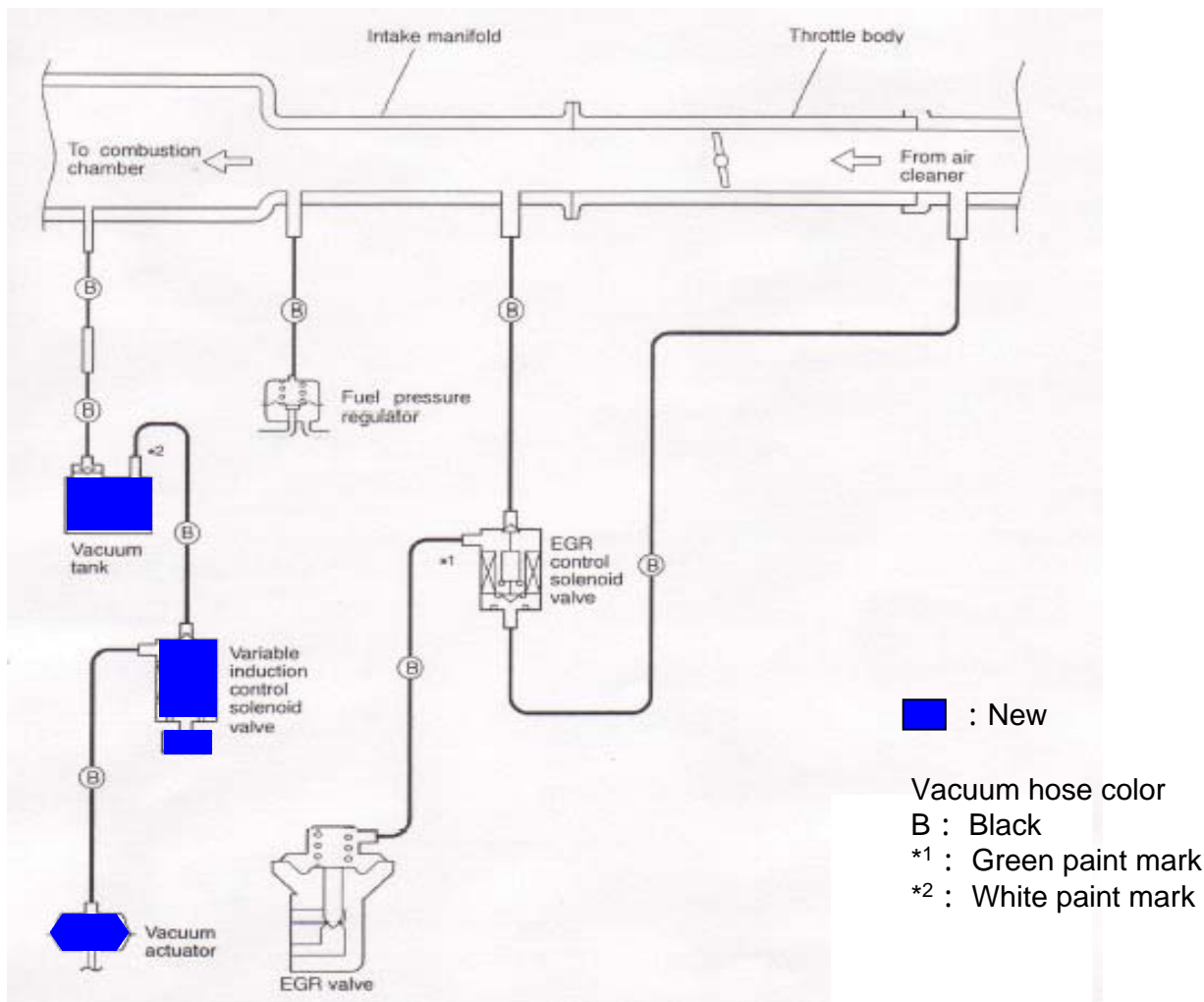


< Vehicles for Taiwan >

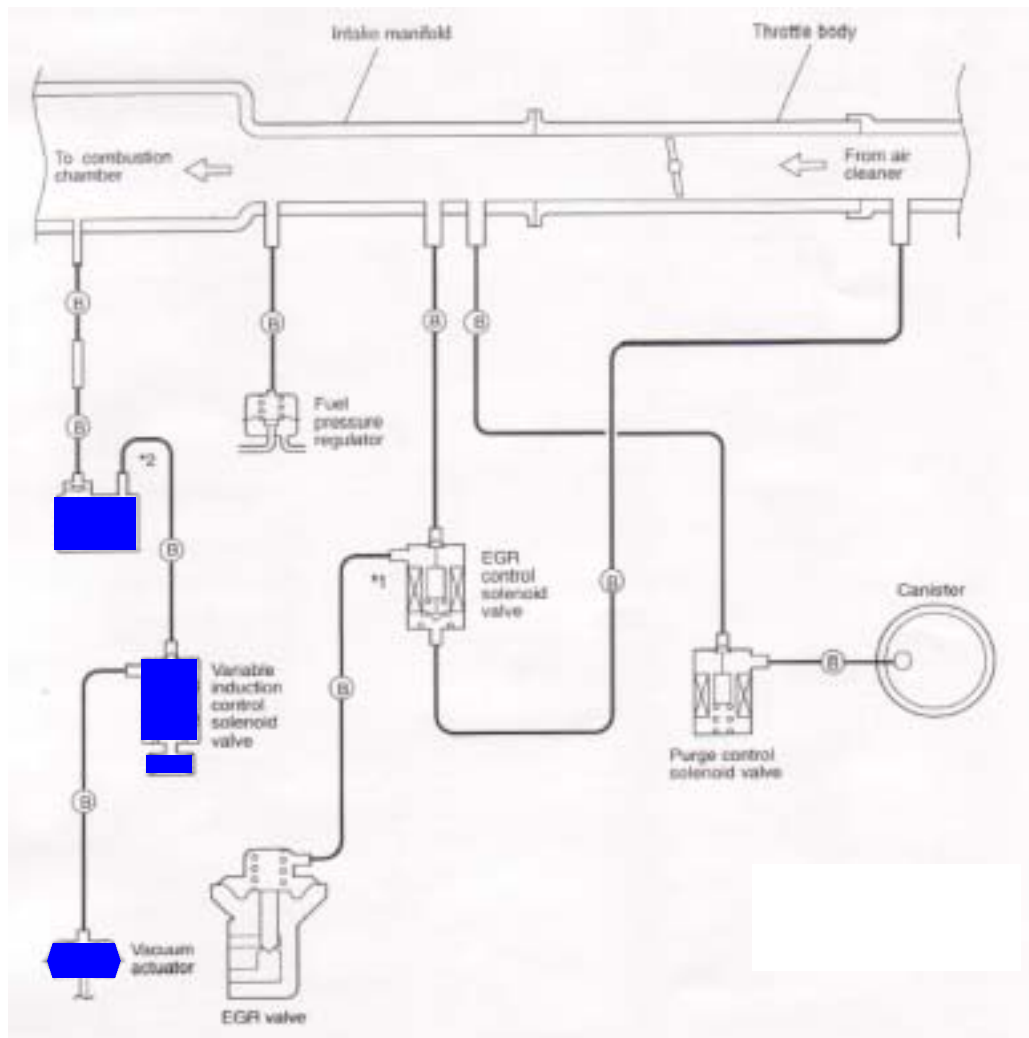


4. Vacuum circuit system diagram

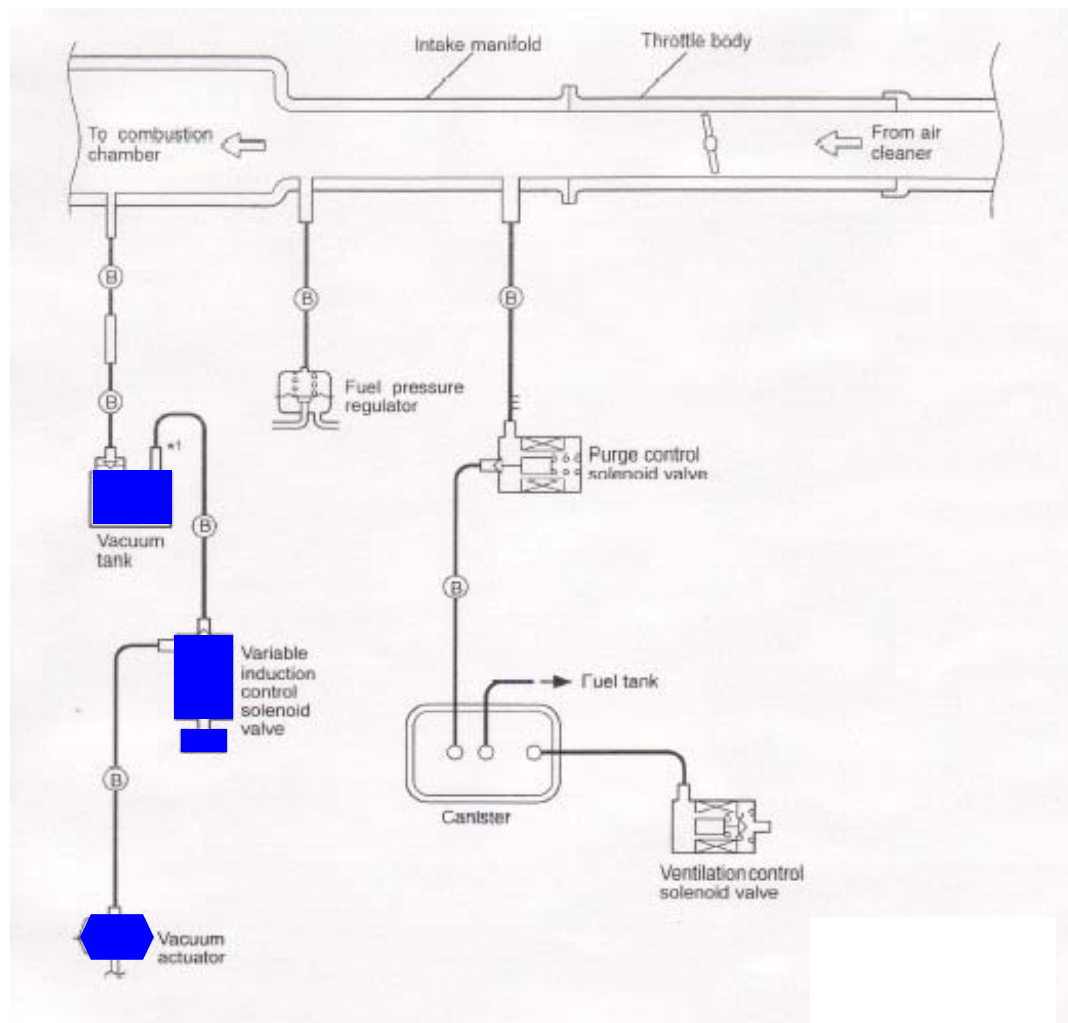
< Vehicles for General Export without catalytic converter, South Africa >




< Vehicles for General Export with catalytic converter,
GCC, Brazil, Australia >



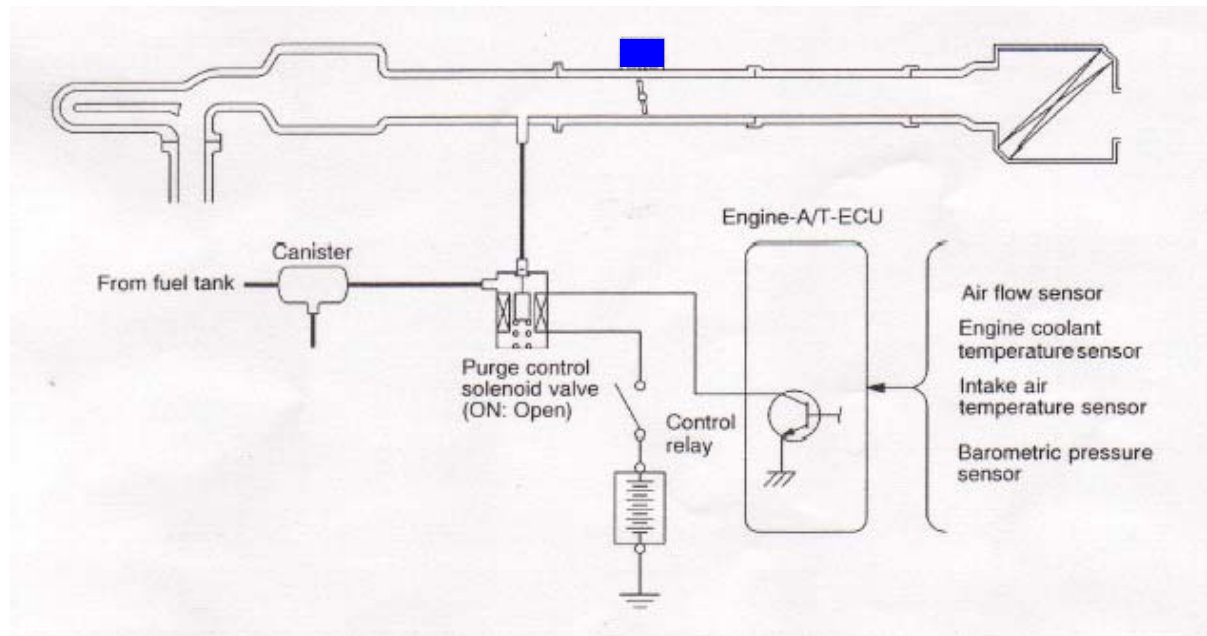
< Vehicles for Taiwan >



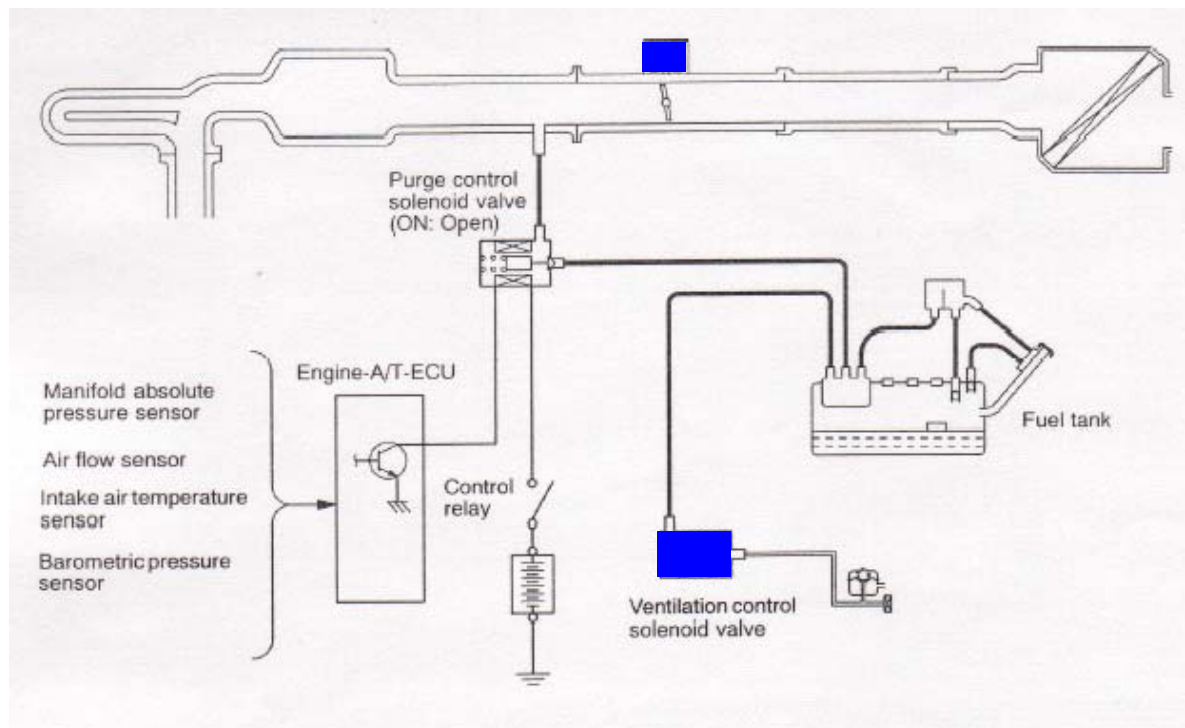
 : New
 Vacuum hose color
 B : Black
 *1 : Green paint mark

5. Evaporative emission control system diagram

< Vehicles for General Export with catalytic converter,
GCC, Brazil, Australia >



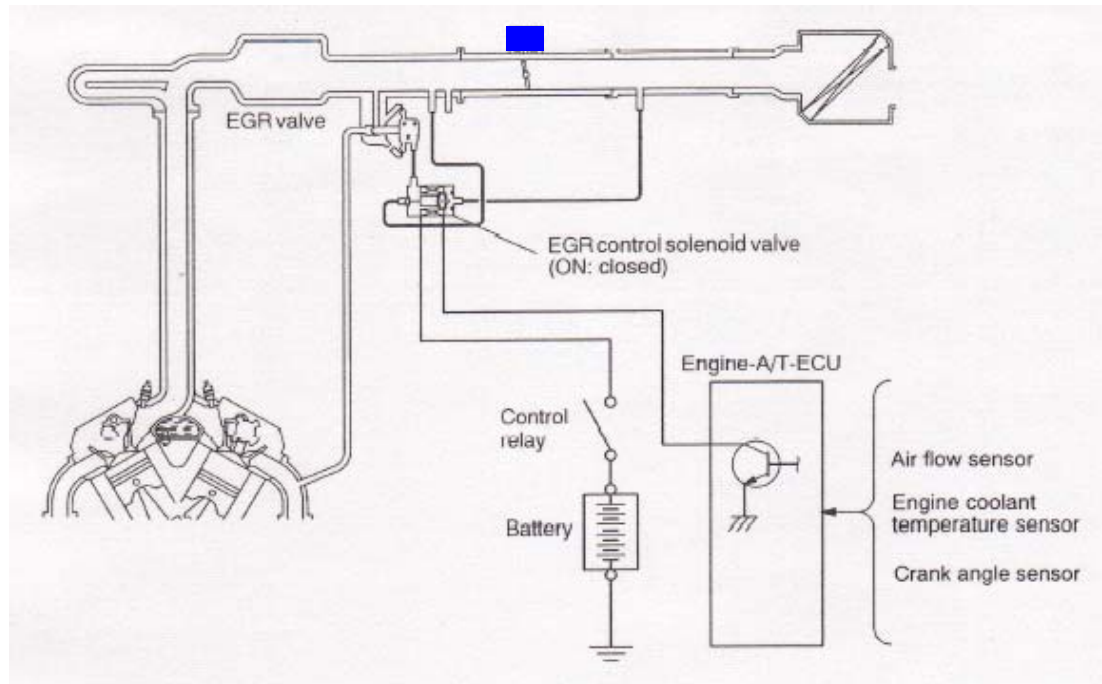
< Vehicles for Taiwan >



 : New

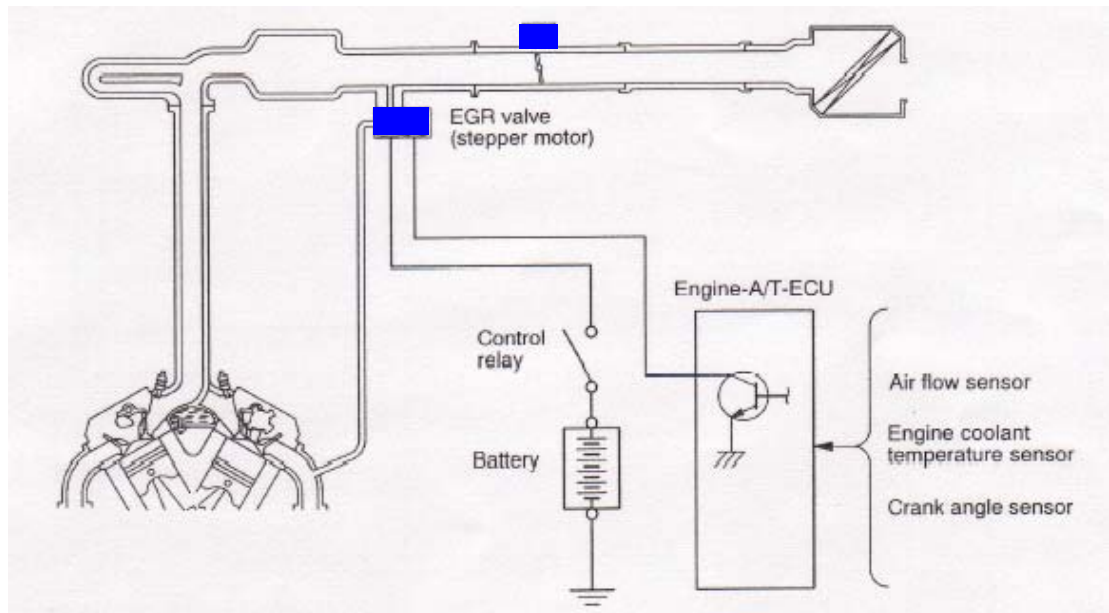
6 Exhaust gas recirculation (EGR) system diagram

< Vehicles for General Export, GCC, Brazil, Australia, South Africa >



: New

< Vehicles for Taiwan >



 : New

2 3 AUTOMATIC TRANSMISSION

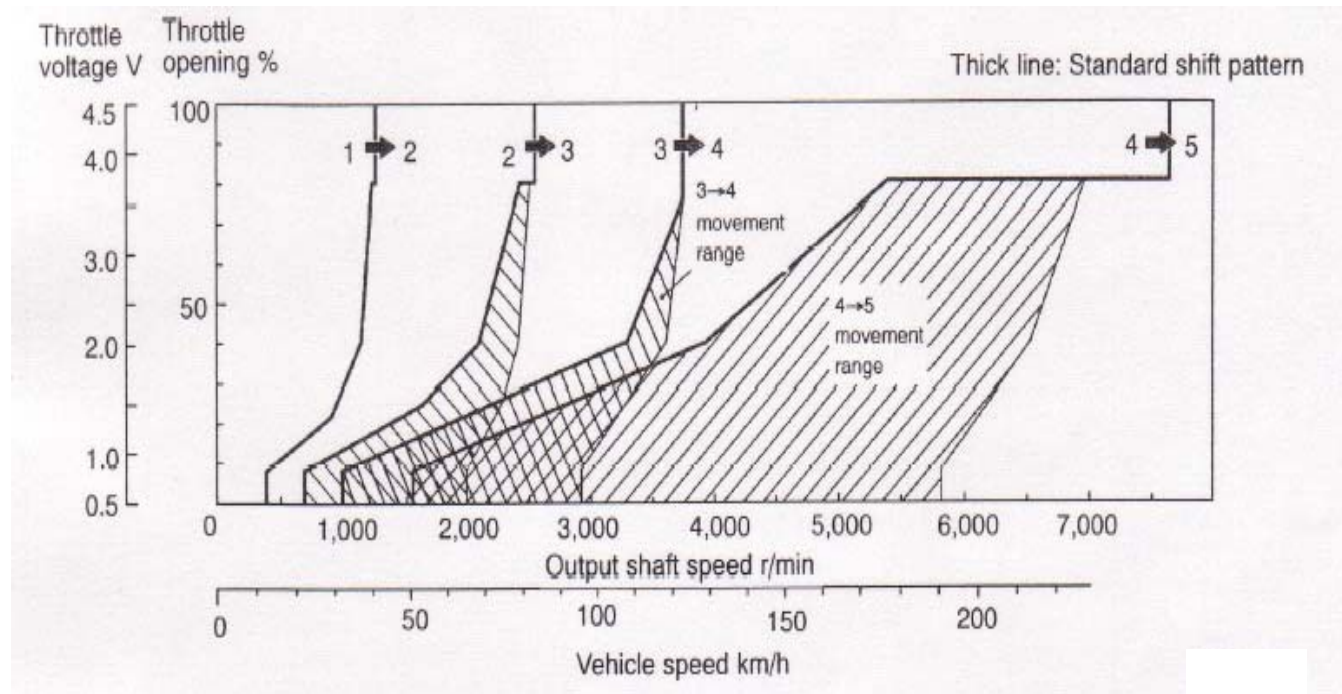
GENERAL	0 1
SHIFT PATTERN	0 1
DAMPER CLUTCH CONTROL	0 3
INSPECTIONCHART FOR DIAGNOSIS	0 5

1. General

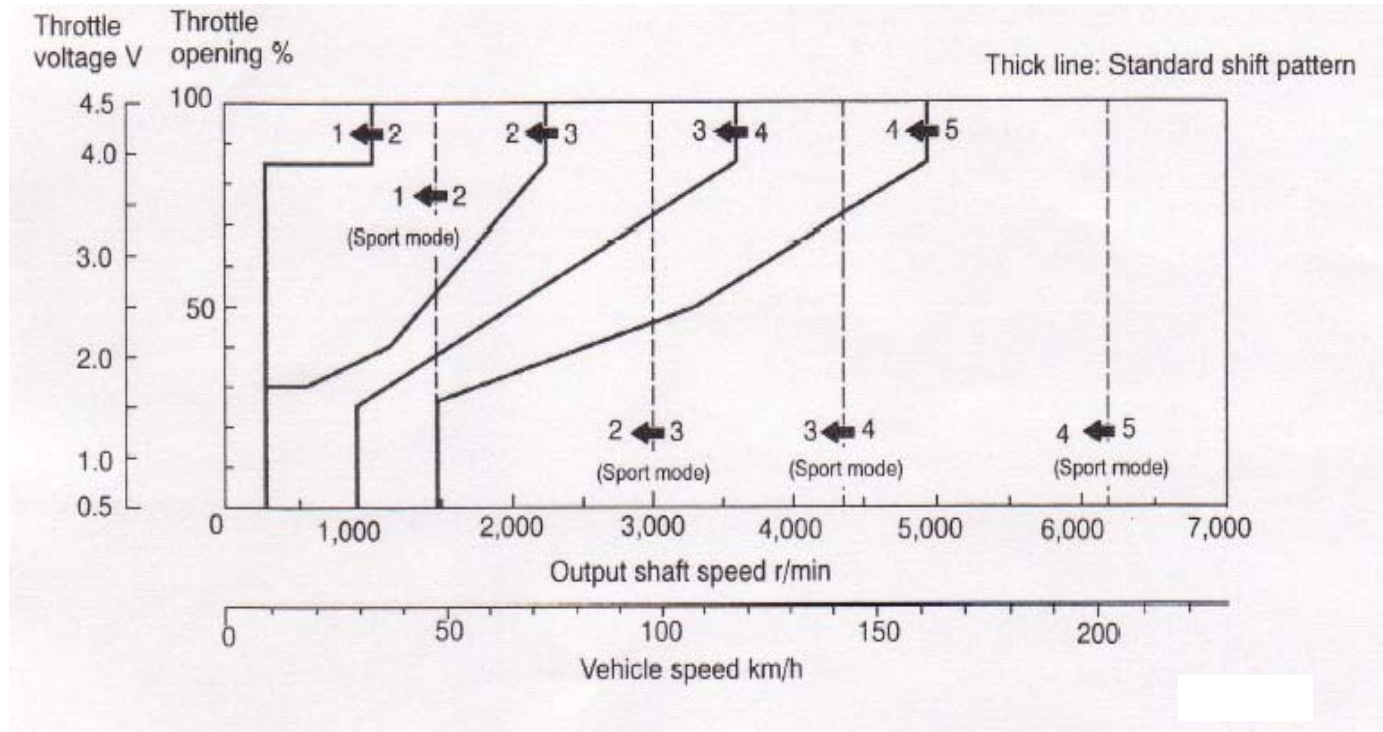
- 6G75-MPI engine has been added to the model line-up.
- Since the shift position of the vehicles with 4M40 engine has been changed from 7 positions to Sport mode. The service procedures for the vehicle with Sport mode are the same as before.

2. Shift pattern

1) Upshift pattern

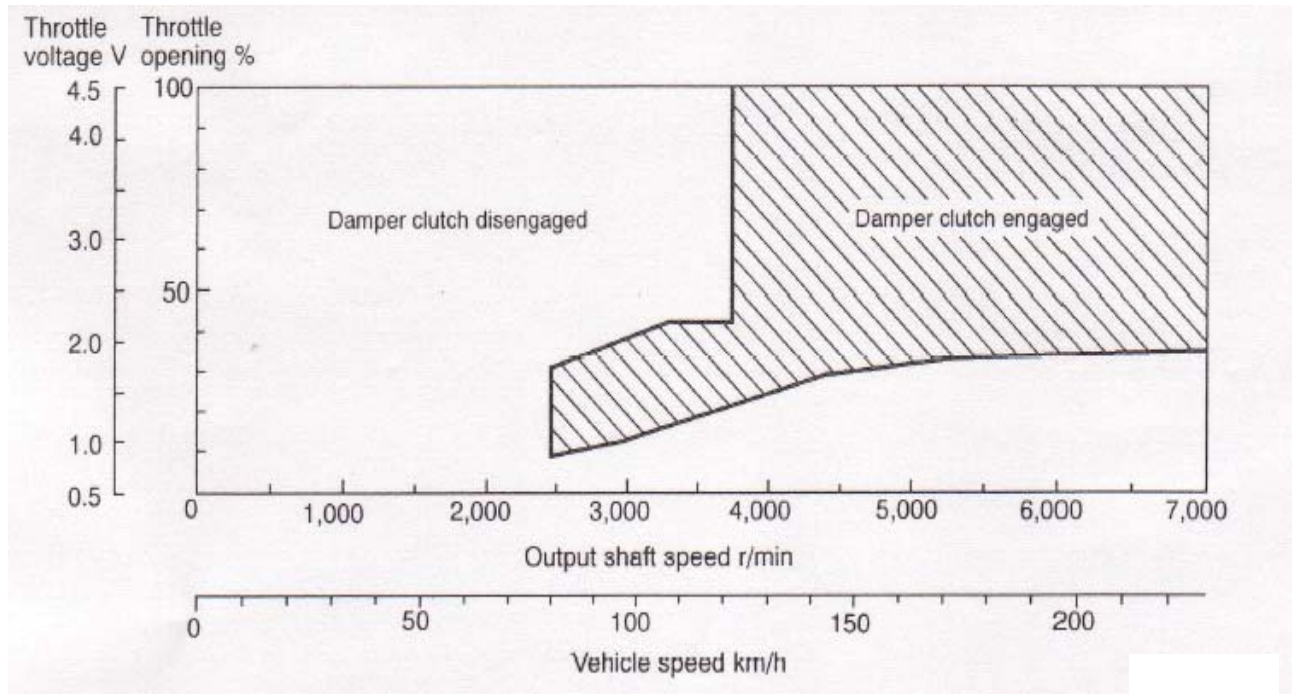


2) Downshift pattern

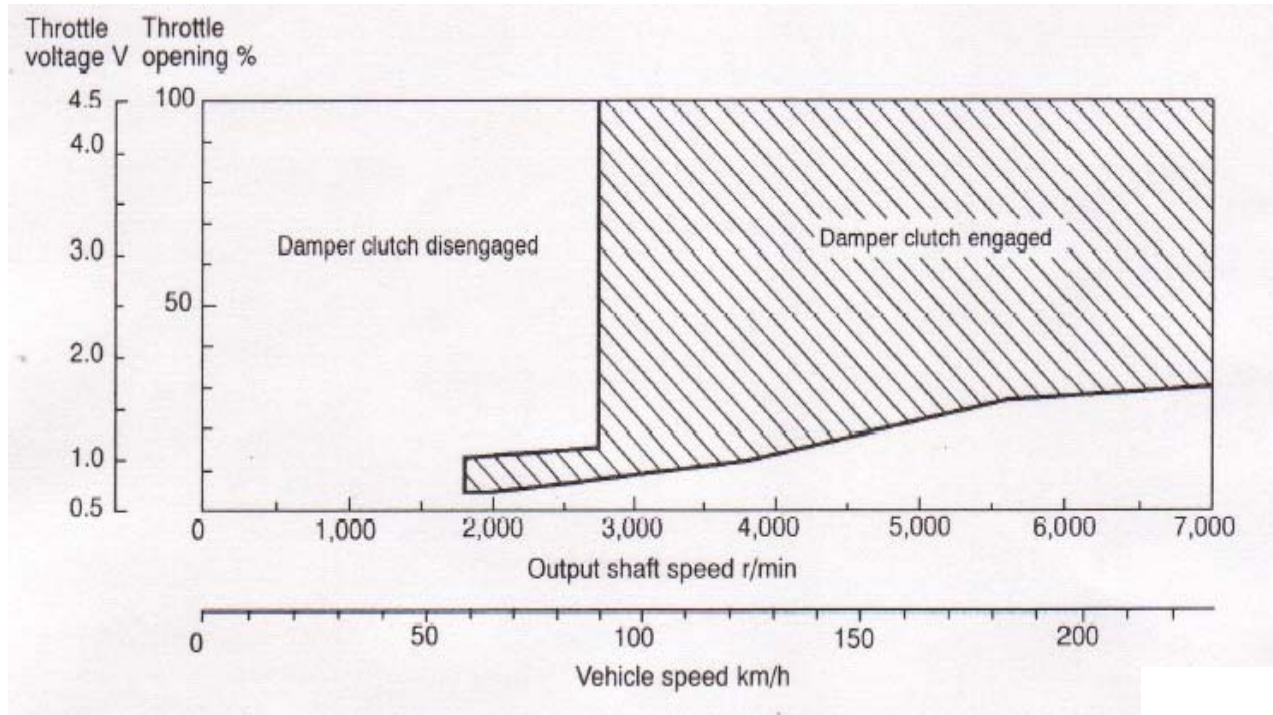


3. Damper clutch control

1) 5th Gear



2) 4th Gear



4. Inspection chart for diagnosis

Diagnosis code	Diagnosis item	
15	A/T fluid temperature sensor system	Open circuit
21	Crank angle sensor system	
22	Input shaft speed sensor system	Short-circuit / Open circuit
23	Output shaft sensor system	
26	Stop lamp switch system	Short-circuit
29	Vehicle speed sensor system	Short-circuit / Open circuit
31	LR solenoid valve system	
32	UD solenoid valve system	
33	2nd solenoid valve system	
34	OD solenoid valve system	
35	RED solenoid valve system	
36	DCC solenoid valve system	
41	1st without completion of shifting	
42	2nd without completion of shifting	
43	3rd without completion of shifting	
44	4th without completion of shifting	
45	5th without completion of shifting	
46	Reverse without completion of shifting	
52	Damper clutch control system	System malfunction
54	A/T control relay system	Short-circuit to earth/open circuit
56	N range lamp system	Short-circuit to earth

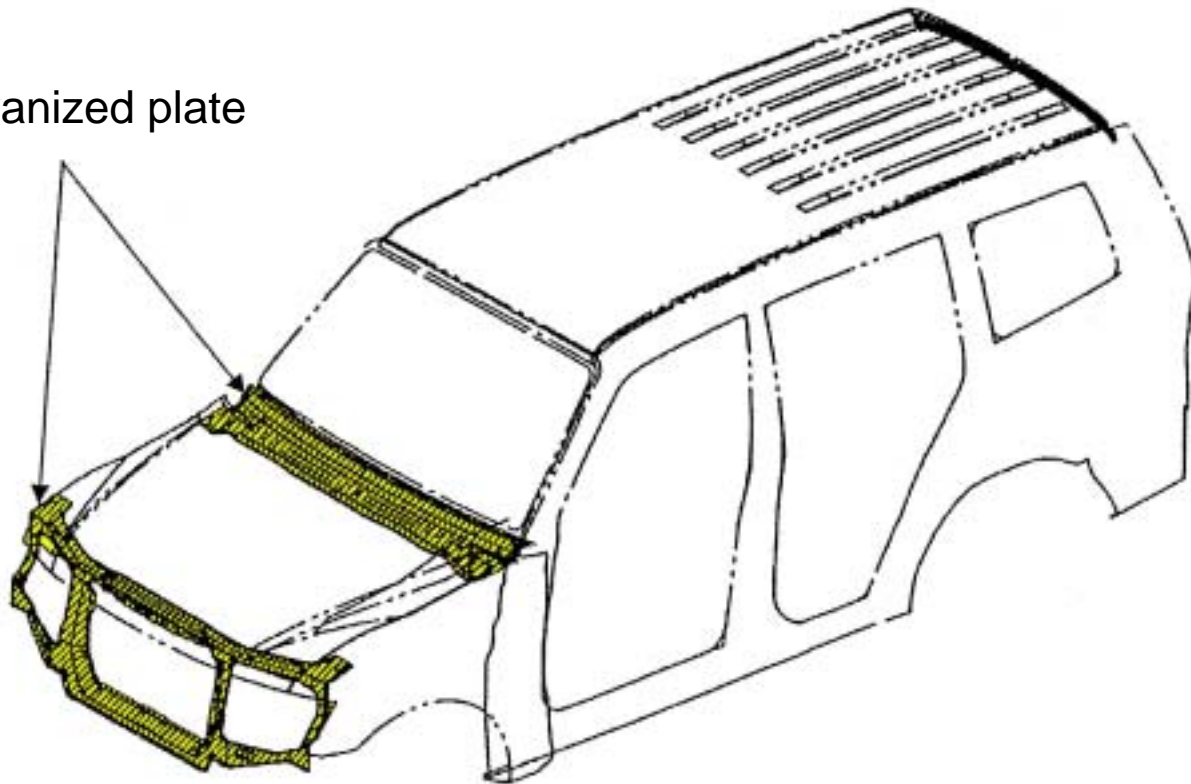
4 2 BODY

ANTI CORROSION 0 1

ANTI-CORROSION < China >

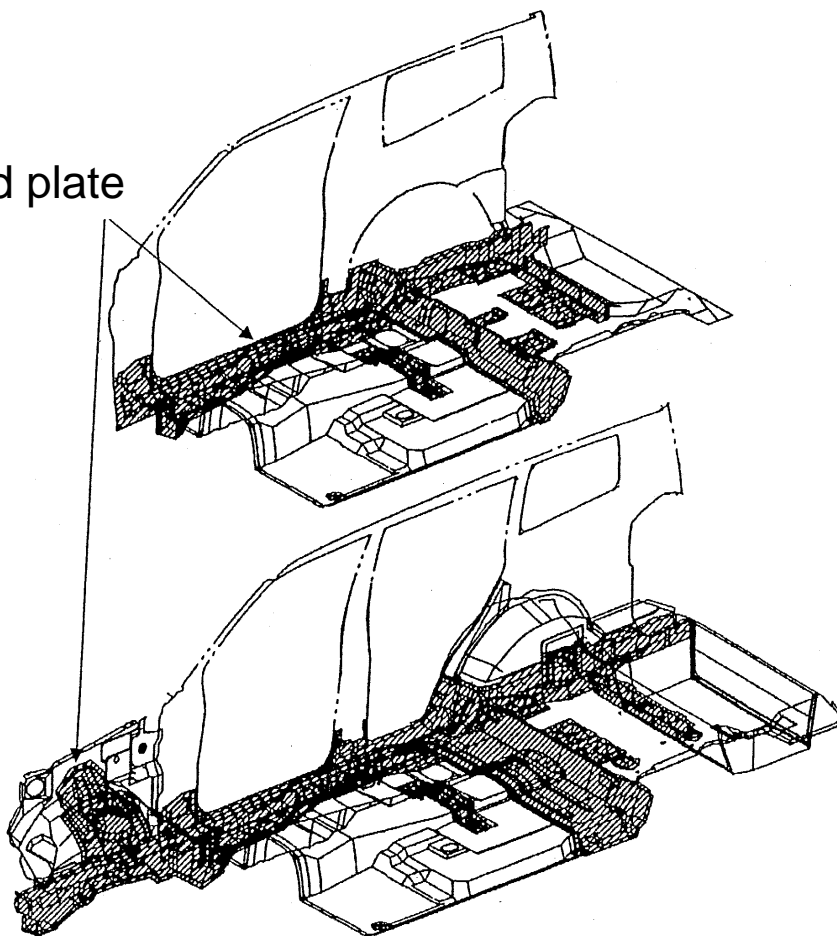
1. Body panel (1)

Galvanized plate



2. Body panel (2)

Galvanized plate

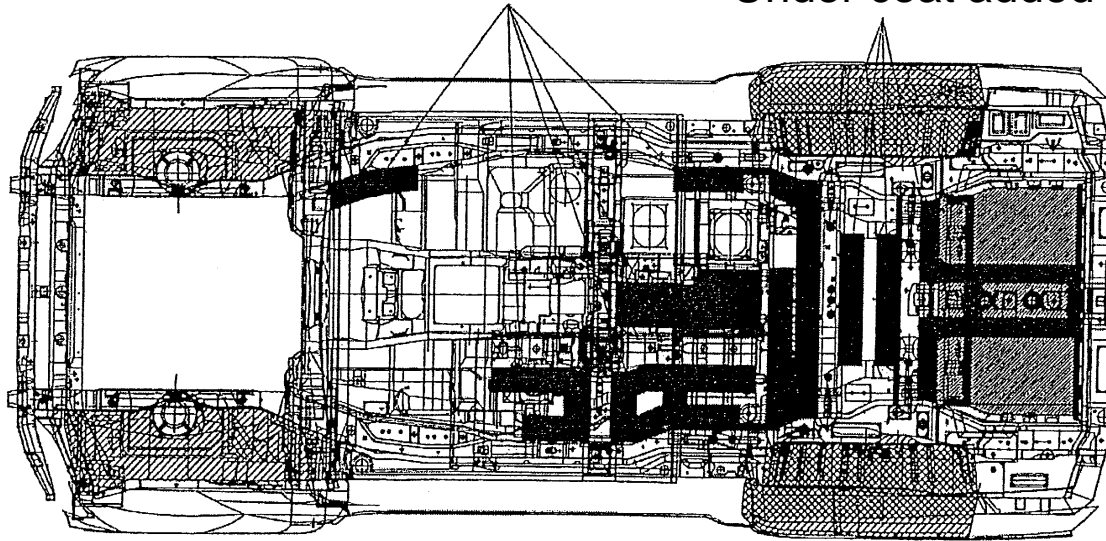


SHORT BODY

LONG BODY

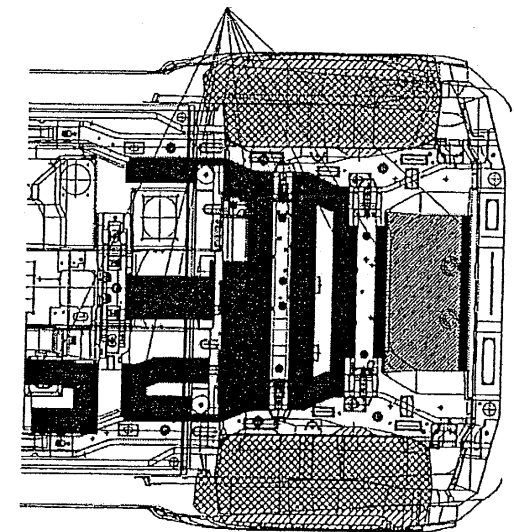
3. Floor pan (1)

Under coat added



Under coat added

Under coat added

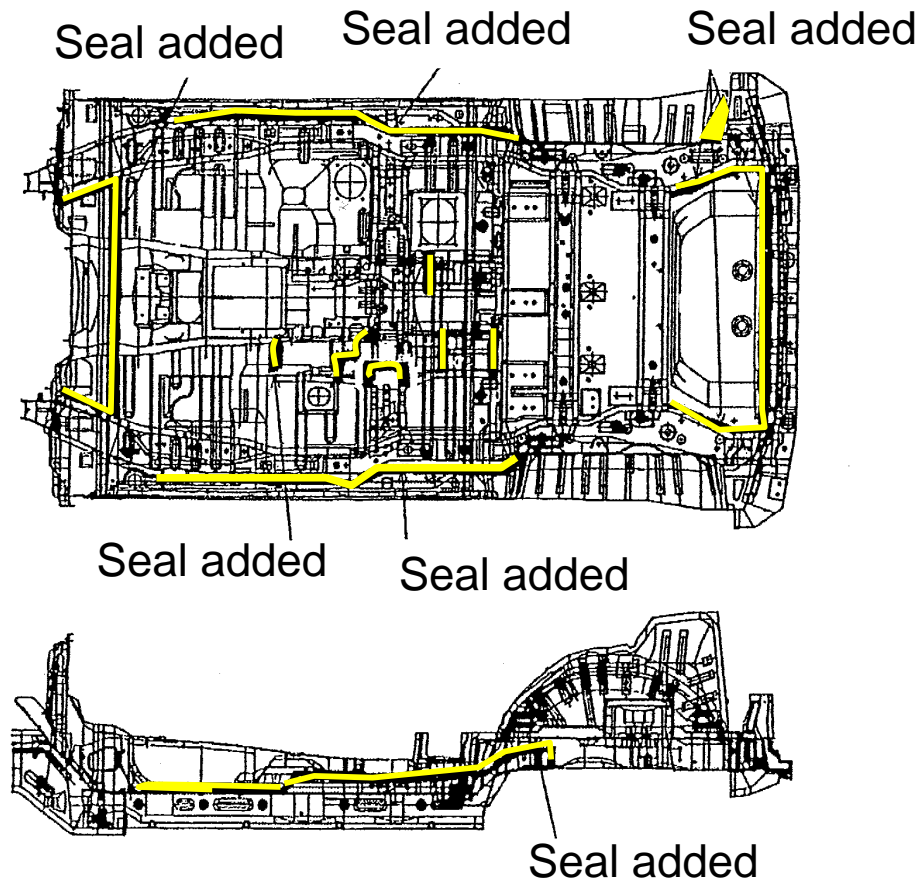


LONG BODY

SHORT BODY

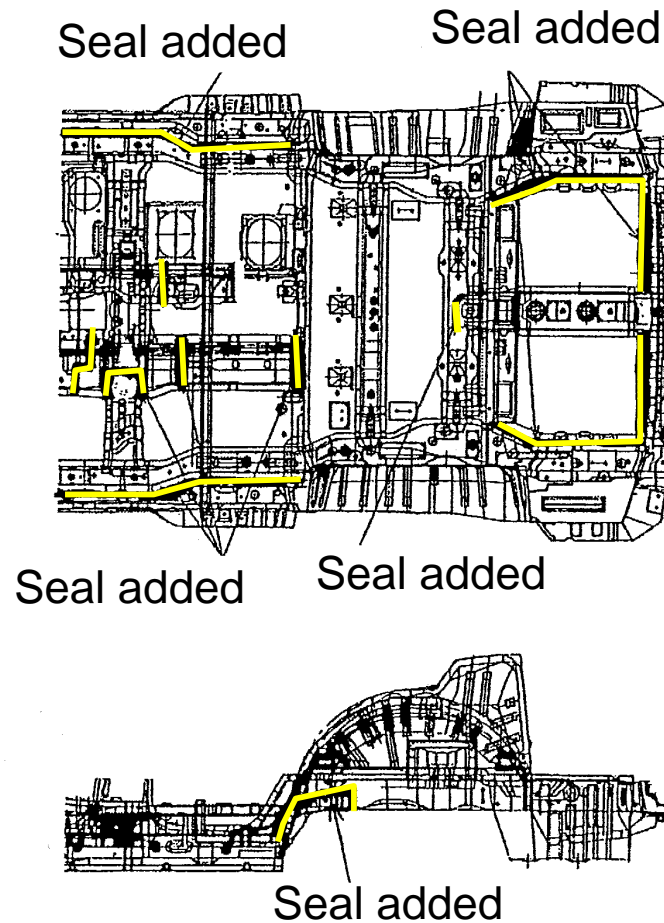
3. Floor pan (2)

SHORT BODY

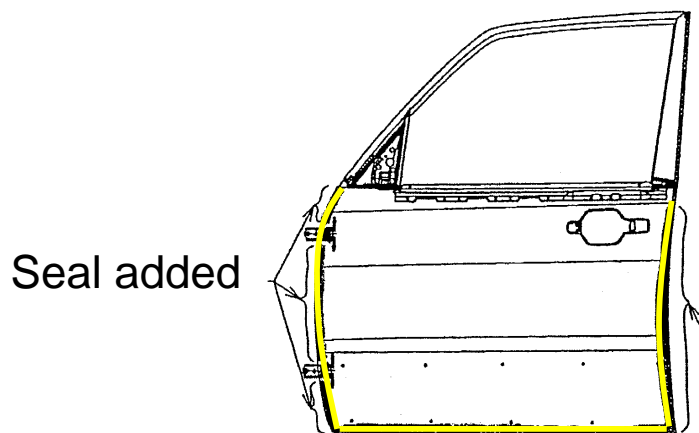


3. Floor pan (3)

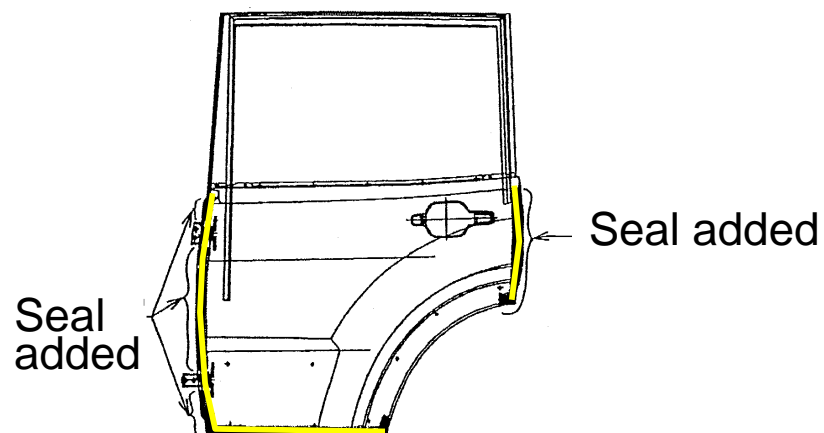
LONG BODY



4. Door



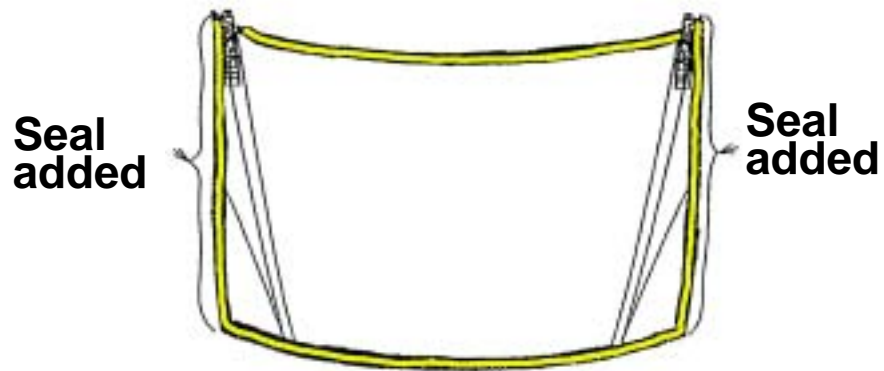
FRONT DOOR



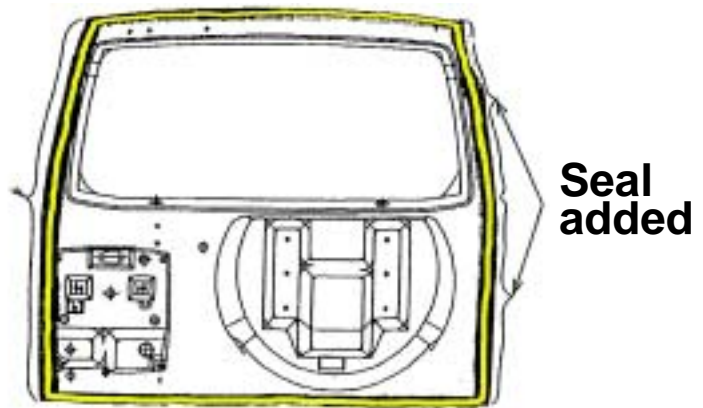
REAR DOOR

5. Hood and back door

Seal added



HOOD

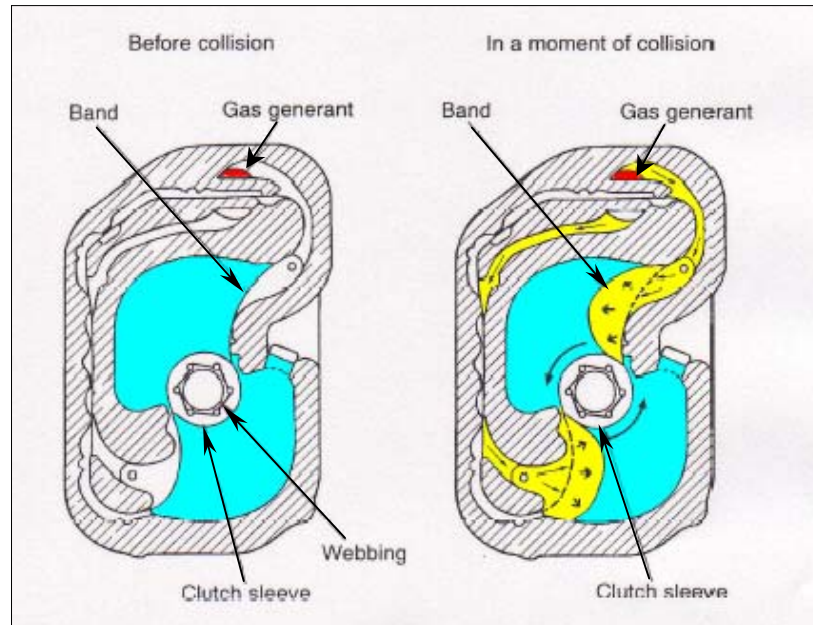
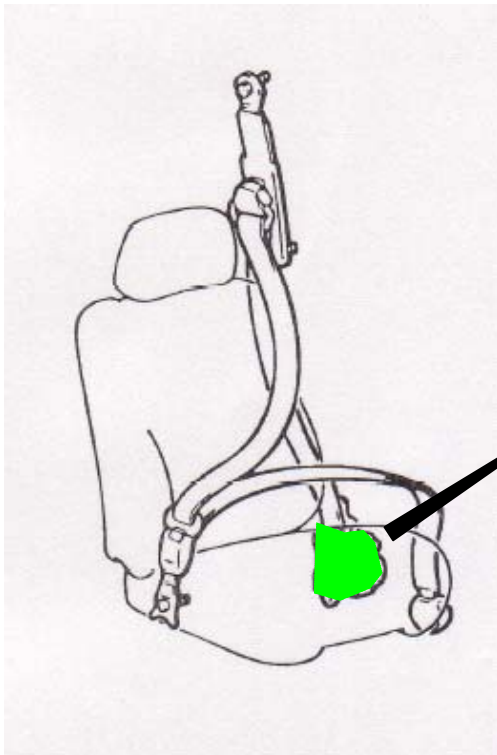


BACK DOOR

5 2 INTERIA AND SRS

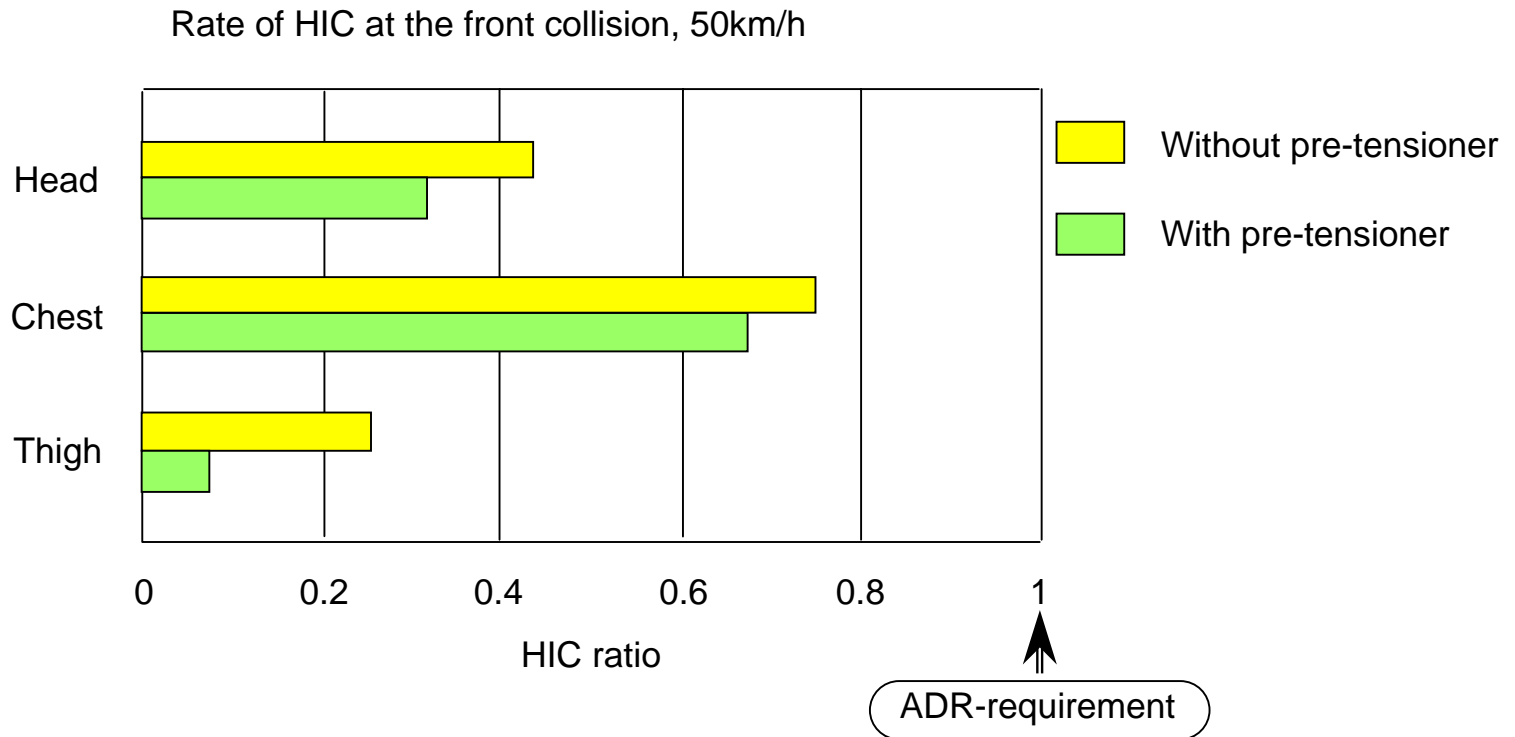
FRONT SEAT BELT	0 1
SPECIAL TOOL	0 3

1. Front seat belts with Pre-tensioner <MMAL>

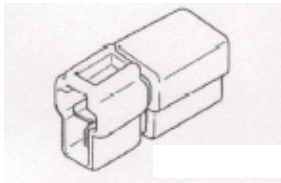
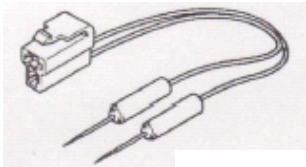


Caution : Never disassemble the seat belt with pre-tensioner

Effectiveness



2. Special tools

Tools	Part No.	Name	Application
	MB991865	Dummy resistor	SRS air bag circuit check
	MB991866	Resistor harness	

5 4 CHASSIS ELECTRICAL

RV METER	0 1
SPEED ALARM	0 4

1. RV meter

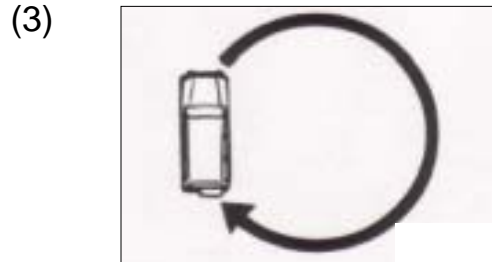
1) Compass calibration



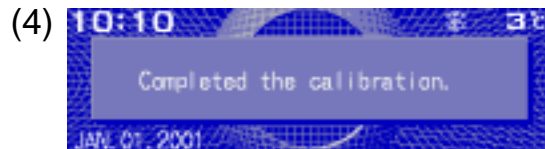
1. Press function switch 3 for three second or more during the environment information screen to call up the screen as shown in the picture (1).



2. When function switch 3 (CAL. COMP) is pressed, a message of urging geomagnetization calibration is displayed screen as shown in the picture (2).



3. Drive around the vehicle as shown in the illustration
NOTE: When driving around the vehicle to correct the sensor, select a safe and open area where there are no structures exist such as the high-tension line and the iron bridge that affect the geomagnetic sensor in circumference .



4. A message of completing geomagnetization calibration is displayed as shown in the picture.



5. Display automatically returns to compass display.

2) Time adjustment



1. Press function switch 3 for three second or more while in time display as shown in the picture (1).



2. Adjust time by using function key on the display; “▼▲” as shown in the picture (2).



3. Display automatically returns to time display.

NOTE: This function is not available while driving.

3) Language selection



1. Press function switch “ADJ” while in time display as shown in the picture (1).



2. When “LANG” appears as shown in the picture (2), press function switch 3 for language-selection mode.



3. Select preferred language by using function key on the display; “▼▲” as shown in the picture (3).



4. Display automatically returns to time display.

NOTE: English, French and Spanish are available.

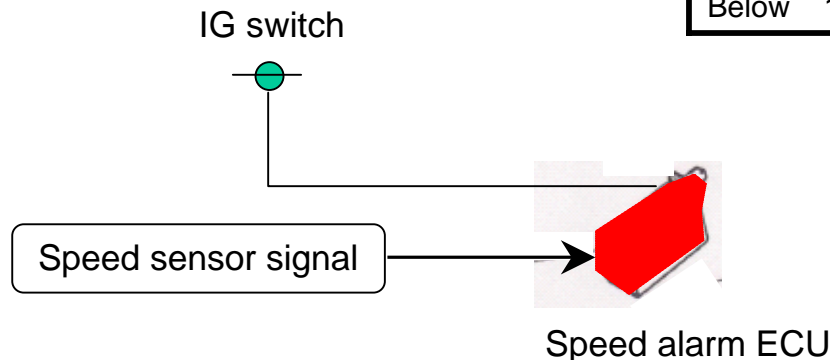
2. Speed alarm < GCC >

According to new regulation of SASO1438, the vehicle speed when the speed alarm sounds has been changed to 120 ± 5 km/h.

In order to meet the regulation, the speed alarm is now controlled by the speed alarm ECU in place of the ETACS-ECU.

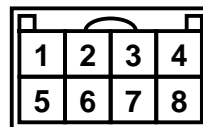
Vehicle speed	Buzzer *1
Exceed 116km/h *	ON
Below 115km/h	OFF

- * Speed meter indication ; 120 ± 5 km/h
- * 1 Frequency ; 2kHz (1kHz for 03MY)

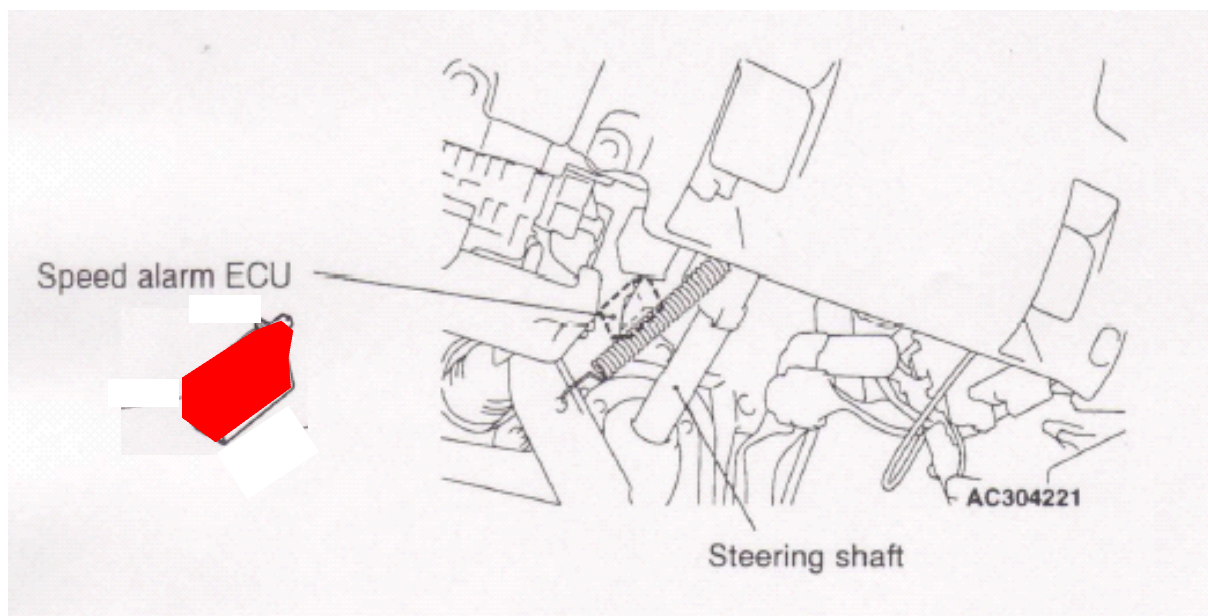


Speed alarm ECU

ECU terminal



Terminal No.	Check item	Check condition	Standard value
1	Ignition switch (IG1) power supply	Ignition switch: Lock (OFF)	0 V
		Ignition switch: ON	Battery voltage
4	Speed sensor signal input	When the vehicle is driven	0 ~ 12 V (pulse signal)
8	Earth	At all time	



MITSUBISHI

2004 MY PAJERO/MONTERO

Technical Highlights & Service Points

