

## GROUP 00 – GENERAL INFORMATION

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BULLETIN No.	SUBJECT	MODEL
<a href="#">00/2003/001</a>	03 MY Introduction	MK Triton
<a href="#">00/2003/002</a>	New Model Introduction	ZE Outlander
<a href="#">00/2003/002a</a>	New Model Introduction	ZE Outlander
<a href="#">00/2003/003</a>	New Model Introduction	CG Lancer
<a href="#">00/2003/004</a>	Mono Fuel LPG Magna	TJ Magna
<a href="#">00/2003/005</a>	New Model Introduction	TL/KL Magna/Verada
<a href="#">00/2003/006</a>	Inspection of jack assy	MK Triton
<a href="#">00/2003/007</a>	04 MY Introduction	PA Challenger
<a href="#">00/2003/008</a>	04 MY Introduction	WA Express
<a href="#">00/2003/009</a>	04 MY Introduction	ZE Outlander
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<a href="#">00/2003/011</a>	04 MY Introduction	CH Lancer
<a href="#">00/2003/012</a>	04 MY Introduction	SJ Express
<a href="#">00/2003/013</a>	04 MY Introduction	NP Pajero
<a href="#">R-00/2002/001</a>	Introduction of Ralliart Magna	Ralliart Magna
<a href="#">00/2002/002</a>	Introduction of direct injection diesel	NM Pajero
<a href="#">00/2002/003</a>	Immobiliser repair procedures	All
<a href="#">00/2002/004</a>	Introduction of Police Specification Magna	TJ Magna
<a href="#">00/2002/005</a>	Correction to operators handbook	CE Lancer
<a href="#">00/2002/006</a>	Introduction of revised Service and Warranty book	All
<a href="#">00/2002/007</a>	Introduction of CG Model Lancer	CG Lancer
<a href="#">00/2002/008</a>	03 MY CE Lancer/Mirage	CE Lancer/Mirage

## **GROUP 00 – GENERAL INFORMATION, cont'd**

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BULLETIN No.	SUBJECT	MODEL
<a href="#">00/2002/009</a>	03 MY WA Starwagon Introduction	WA Starwagon
<a href="#">00/2002/010</a>	03 MY Introduction	UG Nimbus
<a href="#">00/2002/011</a>	03 MY PA Challenger Introduction	PA Challenger
<a href="#">00/2002/012</a>	03 MY MK Triton Introduction	MK Triton
<a href="#">00/2002/013</a>	Operation of RWKE system	CE Lancer
<a href="#">00/2002/014</a>	Introduction of 03 MY NP Pajero	NP Pajero
<a href="#">00/2002/015</a>	Introduction of AWD Magna / Verada	TJ/KJ Magna Verada



MITSUBISHI

# SERVICE BULLETIN

**GROUP:**00 – General Information

**DATE:** January 2003

**NO.** 00/2003/001


**MODEL:** MK Triton

**SUBJECT:** 03 M/Y MK Triton Turbo Diesel Introduction

**COUNTRIES:**

Australia

R.I.WYATT  
MANAGER - AFTERSALES  
TECHNICAL SUPPORT

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**Bulletin Consists of 2 Pages**

The purpose of this bulletin is to advise of the introduction of the 2.8L intercooled Turbo Diesel to the 03 MY Triton range of vehicles. The model codes will remain as **MK** with the option code of **M03** to identify the model year.

The naturally aspirated 2.8L Diesel is no longer available in the MK Triton model range.

## Model codes

MODEL CODE	ENGINE		TRANSMISSION	
	Type	Code	Type	Code
MK3L27	2.4L MPI	E63	5 M/T	D26
MK7H27	3.0L V6	E05	5 M/T	D26
MK8H27	3.0L V6	E05	4 A/T	D18
MK3H23	2.4L MPI	E63	5 M/T	D26
MK3H47	2.4L MPI	E63	5 M/T	D26
MK7H47	3.0L V6	E05	5 M/T	D26
MK8H47	3.0L V6	E05	4 A/T	D18
MK7W27	3.0L V6	E05	5 M/T	D62
MK9W27	2.8L TURBO DSL	E27	5 M/T	D62
MK7W23	3.0L V6	E05	5 M/T	D62
MK9W23	2.8L TURBO DSL	E27	5 M/T	D62
MK7W47	3.0L V6	E05	5 M/T	D62
MK9W47	2.8L TURBO DSL	E27	5 M/T	D62
MK7X47	3.0L V6	E05	5 M/T	D62
MK8X47	3.0L V6	E05	4 A/T	D19
MK9X47	2.8L TURBO DSL	E27	5 M/T	D62

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## Paint repair codes

MMAL CODE	MMC CODE	PAINT COLOUR	PAINT REPAIR CODES			
			SPIES/ HECKER	PPG	SPARTAN	GLASURIT
AG	G-60	TIMBER GREEN	65087	KTR3B	22242	55-MAU-AG
ZJ	H82	CHROMATIC SILVER	83349	–	–	–
ZX	R59	PALMA RED	34379	–	23578	–
NF	T38	NARES BLUE	55897	KEM2B	22234	55-MAU-NF
WQ	W32	MARBLE WHITE	22372	2MK7B	22328	22-MIT-W32
KF	X08	PYRENESS BLACK	70882	6JE2B	–	–

## Two tone

MMAL CODES	MMC CODES	PAINT COLOURS
ZK	GU7	TIMBER GREEN / CHROMATIC SILVER
ZL	J9A	PYRENESS BLACK / CHROMATIC SILVER
ZM	PA4	BORDEAUX MAROON / CHROMATIC SILVER
ZP	TA0	NARES BLUE / CHROMATIC SILVER

## Operators manual

Operators Manual Pt No. **MR963509** and Service and warranty book Pt No **MR928661** is provided with the vehicle and it is essential that these publications are in the vehicle when delivered to the customer.

## Audio manual and warranty procedures

Audio Instruction booklet Pt No. **MR924704** should be provided with the vehicle. Should the Audio unit require repairs during the warranty period, then the existing Audio change over system is to be utilised.

## Production date

February 2003



**MITSUBISHI**

# SERVICE BULLETIN

**GROUP:**00 – General Information

**DATE:** February 2003

**NO.** 00/2003/002

**MODEL:** ZE Outlander

**SUBJECT:** ZE Outlander Introduction

**COUNTRIES:**

Australia

R.I.WYATT  
MANAGER - AFTERSALES  
TECHNICAL SUPPORT

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**Bulletin Consists of 2 Pages**

The purpose of this bulletin is to advise of the introduction of the ZE Outlander all wheel drive range of vehicles. The model code is **ZE**.

MODEL CODE	ENGINE		TRANSMISSION	
	Type	Code	Type	Code
ZE2P45 (XL)	2.4L S4 MPI	E01	4-SP A/T	D16
ZE2S45 (XLS)	2.4L S4 MPI	E01	4-SP A/T	D16

## Engine Specifications

Engine type	• 2.4L SOHC 16 Valve
Engine model	• 4G64
Capacity	• 2351cc
Bore and Stroke	• 86.5 x 100 (mm)
Compression ratio	• 9.00:1
Power	• 100kW @ 5000rpm
Torque	• 205Nm @ 2500rpm

## Features

Increased safety

- Driver and Passenger Air bag
- ABS Brakes with EBD standard on XLS
- Side SRS Air bags standard on XLS

Remote keyless entry

Airconditioning

Power windows

Cruise control

Alloy Wheels on XLS

Electric door mirrors (colour coded on XLS)

Multi-Reflector type Halogen headlamps

Immobiliser

AM/FM Radio / CD & 4Speakers

6 CD Stacker / 6 Speakers on XLS

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SERVICE MANAGER FOR ACTION/DISTRIBUTION.

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## SERVICE SPECIFICATIONS

ITEMS		STANDARD VALUES
Basic ignition timing		5° BTDC ± 2°
Idle speed r/min		700 ± 100
Spark Plug type	•NGK	BK5RE
	•Denso	K16PR-U
	•Champion	RC10YC
Valve clearances		Auto lash adjusters
Front suspension	•Toe-in	1 ± 2mm
	•Camber	– 0°40' ± 30'
	•Caster	3°30' ± 30'
Rear suspension	•Toe-in	3 ± 2mm
	•Camber	– 0°05' ± 30'

## LUBRICATION

Engine oil	API classification “ For service SG” or higher	4.3L (inc filter)
Transmission (auto)	ELC-4-SP III	8.1L
Power Steering	Mitsubishi Power Steering fluid	1.0L
Coolant	Mitsubishi genuine coolant	7.0L
Rear Differential	Hypoid gear oil API GL-5 or higher	.55L
Refrigerant	HFC-134a	530-570g

## PAINT REPAIR CODES

MMAL CODE	MMC CODE	PAINT COLOUR	PAINT REPAIR CODES			
			SPIES/ HECKER	PPG	SPARTAN	GLASURIT
YX	W13	DIAMOND WHITE	24258	—	24181	—
CC	A31	BLADE SILVER	TBA	←	←	←
CD	T12	CYCLONE GREY	TBA	←	←	←
YY	X42	AMETHYST BLACK	75830	XHC1B	24180	—
YW	R20	ROSE RED	35650	XDX3B	24170	—
CH	T54	OFFSHORE BLUE	TBA	←	←	←

## OPERATORS MANUAL

Operators Manual Pt No. **MR963699** and Service and Warranty book Pt No. **MR928661** are provided with the vehicle and it is essential that these publications are in the vehicle when delivered to the customer.

## AUDIO MANUAL

Audio Instruction booklet Pt No. **MR924704** should be provided with the vehicle.

## PRODUCTION DATE

June 2002

**MITSUBISHI**

# SERVICE BULLETIN

**GROUP:**00 – General Information**DATE:** March 2003**NO.** 00/2003/002a**MODEL:** ZE Outlander**SUBJECT:** ZE Outlander Introduction**COUNTRIES:**

Australia

R.I.WYATT  
MANAGER - AFTERSALES  
TECHNICAL SUPPORT**Bulletin Consists of 3 Pages**

**Revised: This bulletin has been revised and replaces original issue. Changes include deletion of reference to separate Audio booklet and addition of further vehicle specifications.**

The purpose of this bulletin is to advise of the introduction of the ZE Outlander all wheel drive range of vehicles. The model code is **ZE**.

MODEL CODE	ENGINE		TRANSMISSION	
	Type	Code	Type	Code
ZE2P45 (XL)	2.4L S4 MPI	E01	4-SP A/T(W4A42)	D16
ZE2S45 (XLS)	2.4L S4 MPI	E01	4-SP A/T(W4A42)	D16

## Engine Specifications

Engine type	• 2.4L SOHC 16 Valve
Engine model	• 4G64
Capacity	• 2351cc
Bore and Stroke	• 86.5 x 100 (mm)
Compression ratio	• 9.00:1
Power	• 100kW @ 5000rpm
Torque	• 205Nm @ 2500rpm

## Features

### Increased safety

- Driver and Passenger Air bag
- ABS Brakes with EBD standard on XLS
- Side SRS Air bags standard on XLS

### Remote keyless entry

### Air-conditioning

### Power windows

### Cruise control

### Alloy Wheels on XLS (Steel rim spare)

### Electric door mirrors (colour coded on XLS)

### Multi-Reflector type Halogen headlamps

### Immobilizer

### AM/FM Radio / CD & 4Speakers

### 6 CD Stacker / 6 Speakers on XLS

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## SERVICE SPECIFICATIONS

ITEMS		STANDARD VALUES
Basic ignition timing		5° BTDC $\pm$ 2°
Idle speed r/min		700 $\pm$ 100
Spark Plug type	•NGK	BK5RE
	•Denso	K16PR-U
	•Champion	RC10YC
Wheel Type (Alloy and Steel )		16x6JJ
Tyre Size (LS and XLS)		215/60 R16 95H
Spare Wheel ( LS and XLS)		16x6JJ (Steel)
Front suspension	•Toe-in	1 $\pm$ 2mm
	•Camber	– 0°40' $\pm$ 30'
	•Caster	3°30' $\pm$ 30'
Rear suspension	•Toe-in	3 $\pm$ 2mm
	•Camber	– 0°05' $\pm$ 30'
Vehicle standing height (wheel centre to wheel arch)		•Front: 470mm. $\pm$ 20mm •Rear: 465mm $\pm$ 20mm

## LUBRICATION

Engine oil	API classification “ For service SG” or higher	4.3L (inc filter)
Transmission (auto)	ELC-4-SP III	8.1L
Power Steering	Mitsubishi Power Steering fluid	1.0L
Coolant	Mitsubishi genuine coolant	7.0L
Rear Differential	Hypoid gear oil API GL-5 or higher	.55L
Refrigerant	HFC-134a	530-570g

## PAINT REPAIR CODES

MMAL CODE	MMC CODE	PAINT COLOUR	PAINT REPAIR CODES			
			SPIES/ HECKER	PPG	SPARTAN	GLASURIT
YX	W13	DIAMOND WHITE	24258	—	24181	—
CC	A31	BLADE SILVER	—	2NMMB	—	—
CD	T12	CYCLONE GREY	—	2PCGB	—	—
YY	X42	AMETHYST BLACK	75830	XHC1B	24180	—
YW	R20	ROSE RED	35650	XDX3B	24170	—
CH	T54	OFFSHORE BLUE	—	2TJXB	—	—
	H15	MEDIUM ARGENT (BUMPER ONLY)	101794	—	—	—



## **OPERATORS MANUAL**

Operators Manual Pt No. **MR963699** incorporating Audio instructions and Service and Warranty book Pt No. **MR928661** are provided with the vehicle and it is essential that these publications are in the vehicle when delivered to the customer.

## **SERVICE INFORMATION**

Workshop manual Pt No. **MR927707** has been produced and distribution is anticipated in April 2003.

**MUT-II ROM pack version 9.43** is applicable for use with this vehicle.

## **PRODUCTION DATE**

June 2002



MITSUBISHI

# SERVICE BULLETIN

**GROUP:** 00 – General Information

**DATE:** January 2003

**NO.** 00/2003/003

**MODEL:** CG Lancer

**SUBJECT:** ES Model CG Lancer

**COUNTRIES:**

Australia

R.I.WYATT  
MANAGER - AFTERSALES  
TECHNICAL SUPPORT

*[Signature]*

**Bulletin Consists of 2 Pages**

This bulletin is to advise of the addition of the ES model to the CG Lancer range of vehicles. The CG Lancer ES replaces the CE Lancer GLi sedan.

MODEL CODE	ENGINE		TRANSMISSION	
	Type	Code	Type	Code
CG5M41	2.0L S4 (4G94)	E35	5 M/T (F5M42)	D14
CG6M41	2.0L S4 (4G94)	E35	4 A/T (F4A42)	D15
CG5H41	2.0L S4 (4G94)	E35	5 M/T (F5M42)	D14
CG6H41	2.0L S4 (4G94)	E35	4 A/T (F4A42)	D15
CG5S41	2.0L S4 (4G94)	E35	5 M/T (F5M42)	D14
CG6S41	2.0L S4 (4G94)	E35	4 A/T (F4A42)	D15
CG6P41	2.0L S4 (4G94)	E35	4 A/T (F4A42)	D15

## Paint repair codes

MMAL CODE	MMC CODE	PAINT COLOUR	PAINT REPAIR CODES			
			SPIES/HECKER	PPG	SPARTAN	GLASURIT
RT	A69	SATELLITE SILVER	72964	9JM9B	21750	55-MIT-A69
NF	T38	NARES BLUE	55897	KEM2B	22234	55-MAU-NF
BC	W83	SCOTIA WHITE	16718	44516	19721	22-MAU-2104
YW	R20	ROSE RED	35650	XDX3B	24170	–
YH	F26	FORESTA GREEN	66858	WJW8B	24026	–
YY	X42	AMETHYST BLACK	75830	XHC1B	24180	–

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### **Operators manuals**

Operators Manual Pt No. **MR963691** is provided with the vehicle and it is essential that this publication is in the vehicle when delivered to the customer. Service and Warranty book Pt No. **MR928661** is suitable for fitment to the CG Lancer range of vehicles.

### **Audio manual and warranty procedures**

Audio Instruction booklet Pt No. **MR924704** should be provided with the vehicle.  
Should the Audio unit require repairs during the warranty period, then the existing Audio change over system is to be utilised.

### **Service information**

CE/CG Lancer Workshop manual CD Part no. **MR927404** has previously been issued to the field.

### **Production date**

January 2003

**MITSUBISHI**

# SERVICE BULLETIN

**GROUP:** 00 – General Information**DATE:** April 2003**NO.** 00/2003/004**MODEL:** TJ Magna**SUBJECT:** Mono Fuel LPG Magna**COUNTRIES:**

Australia

R.I.WYATT  
MANAGER - AFTERSALES  
TECHNICAL SUPPORT**Bulletin Consists of 3 Pages**

The purpose of this bulletin is to advise of the introduction of the TJ Magna Mono Fuel LPG vehicle. The model code remains as TJ and retains the same specification as the current Magna Executive with differences restricted to the components and operation of the fuel system .

MODEL CODE	ENGINE		TRANSMISSION	
	Type	Code	Type	Code
TJ4D42	3.5L V6 LPG Mono Fuel	E40	4-SP A/T	D04

## Engine Specifications

Engine type	• 3.5L SOHC 24 Valve
Engine model	• 6G74
Capacity	• 3,497cc
Bore and Stroke	• 93.0 x 85.8 (mm)
Compression ratio	• 9.00:1
Power	• 143kW @ 5000rpm
Torque	• 296Nm @ 4000rpm
R.A.C Power Rating	• 32.1

## Service requirements

Service intervals remain unchanged except for additional LPG specific items required to be serviced every 30,000km or 24 months.

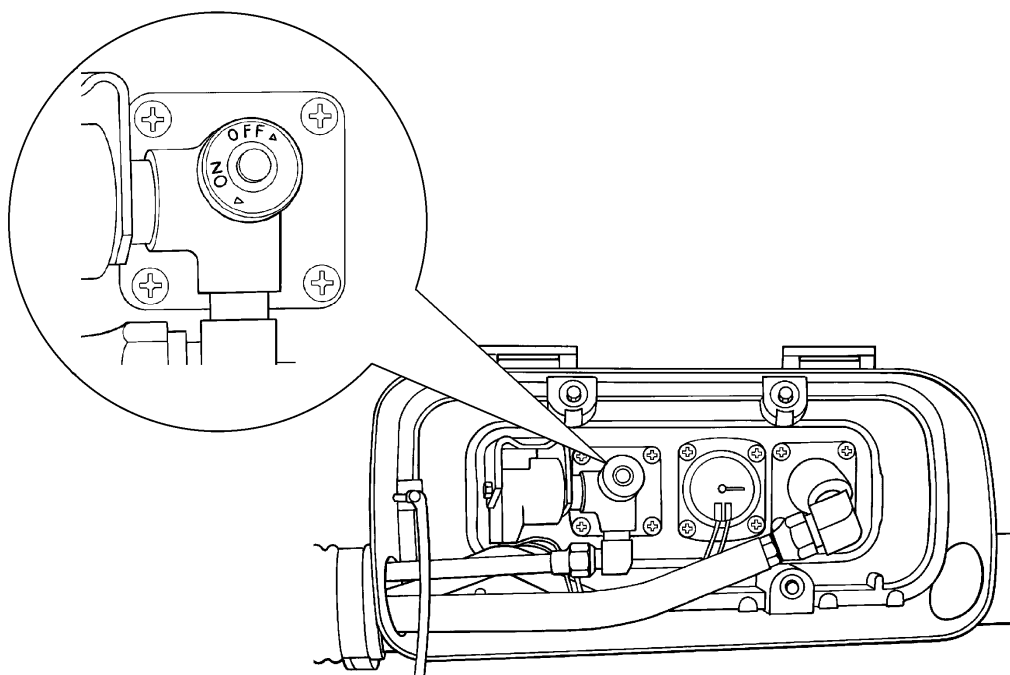
All scheduled and non-scheduled maintenance involving the LPG system should only be conducted by accredited technicians. If the repair work involves opening the high pressure LPG lines or associated components to the atmosphere, this must be carried out by an authorised LPG technician in accordance with Australian/New Zealand Standard AS/NZS: 1425.

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## **Fuel system**

The fuel tank is located in the trunk and has a useable volume of 70 litres. A service valve is fitted to the tank and can be used to isolate the tank for periods of prolonged storage or in the event of service or repair work being required.



The tank is also fitted with an AFL (Automatic Fill limiter) to prevent overfilling of the tank past the 70 Litre mark and a gauge to indicate fill level.

### ***NOTE:***

*Fuel shut off solenoid valves are used on both the tank and convertor, the operation of these valves can be heard from inside the vehicle when the ignition key is turned to start the engine or turn the engine off.*

## **Fuel Indication**

The standard fuel gauge will indicate the fuel level of the LPG tank /cylinder with the ignition “ON”. Three individual low fuel warnings are incorporated into the system:

	Warning Type	Approximate Fuel Remaining (litres)
<b>First</b> Low Fuel Warning	Low fuel warning lamp in the instrument cluster illuminates.	10L approx
<b>Second</b> Low Fuel Warning	Low fuel warning lamp in the instrument cluster remains illuminated, low fuel warning lamp in the centre display illuminates	7L approx
<b>Third</b> Low Fuel Warning	Both low fuel warning lamps in the instrument cluster and centre display remain illuminated and a buzzer will sound an audible warning	5.5L approx

The “Range to Empty” function is an estimation only of the distance that can be driven on the remaining fuel in the tank. The indicated range to empty should be used as a guide only.

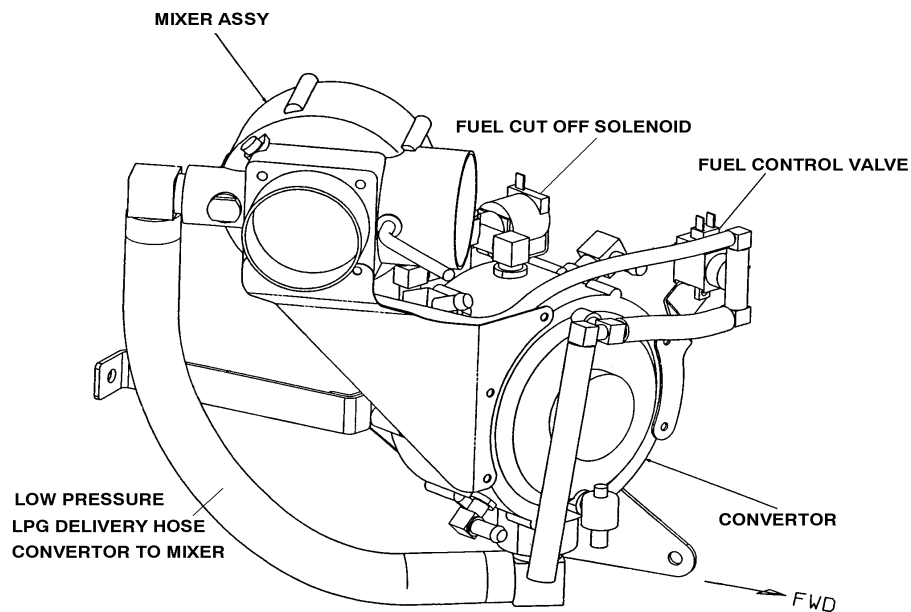
### ***NOTE:***

*If the vehicle has been left standing without starting for long periods (18 hours or more), the engine may stall on initial start, this is a characteristic of the Mono LPG vehicle.*

## Fuel Control

The fuel is controlled by:

- Fuel shut off valves • Electric Solenoid valves are located on the fuel tank outlet and the convertor inlet to control high pressure LPG flow.
- Convertor assembly • Located in the engine bay to convert the high pressure LPG to a regulated low pressure gas flow for use in the engine.
- Mixer assembly • Positioned between the air flow sensor and the throttle body to introduce the regulated low pressure gas into the inlet air stream.
- Fuel control valve • Located on the convertor this solenoid valve can vary the air/fuel ratio (rich/lean) by controlling air pressure applied to the diaphragm within the convertor.
- LPG ECU • Located in the center console area to control LPG system operation.



## Service Information

Previously issued TJ model Magna CD-ROM workshop manual will cover all aspects of the vehicle except for LPG installation, fault finding and wiring circuits. An update CD is currently in production to cover these changes to the TJ model.

Any dealer requiring technical information prior to the workshop manual supplement CD distribution should contact Regional Support Team on 1300-130099

## Parts and Warranty

All parts are available through the normal P&A system. Warranty times are currently being collated and will be included in the next edition of the W.I.S. CD-ROM.

## Operators Manual

Operators Manual Pt No. **MR928155-A** and LPG supplement Pt No. **MR928260** are provided with the vehicle and it is essential that these publications including the Service and Warranty book Pt No. **MR928661** are in the vehicle when delivered to the customer.

## Production date

May, 2003

**MITSUBISHI**

# SERVICE BULLETIN

**GROUP:** 00 – General Information**DATE:** July 2003**NO.** 00/2003/005**MODEL:** TL/KL Magna/Verada**SUBJECT:** Introduction of TL/KL Magna/Verada**COUNTRIES:**

Australia

R.I.WYATT  
MANAGER - AFTERSALES  
TECHNICAL SUPPORT**Bulletin Consists of 3 Pages**

The purpose of this bulletin is to advise of the introduction of the TL/KL Magna/Verada range of vehicles.

## MODEL CODES

MODEL CODE	VEHICLE	ENGINE	TRANSMISSION	
	Name	Code	Type	Code
TL7D42	Magna ES	E35	5-SP M/T	D03
TL8D42	Magna ES	E35	4-SP A/T	D04
TL4D42	Magna ES (LPG)	E40	4-SP A/T	D04
TL8A42	Magna LS	E35	4-SP A/T	D04
TL4A42	Magna LS (LPG)	E40	4-SP A/T	D04
TL8P42	Magna Police	E35	4-SP A/T	D04
TL7S42	Magna VR	E35	5-SP M/T	D03
TL9S42	Magna VR	E35	5-SP A/T	D05
TL7V42	Magna VR-X	E35	5-SP M/T	D03
TL9V42	Magna VR-X	E35	5-SP A/T	D05
KL9H42	Verada Ei	E35	5-SP A/T	D05
KL9S42	Verada GTVi	E35	5-SP A/T	D05
KL9X42	Verada Xi	E35	5-SP A/T	D05
TL9F42	Magna AWD	E35	5-SP A/T	D07
TL9X42	Magna VR AWD	E35	5-SP A/T	D07
KL9F42	Verada AWD	E35	5-SP A/T	D07
TL8D46	Magna ES	E35	4-SP A/T	D04
TL8A46	Magna LS	E35	4-SP A/T	D04
TL9S46	Magna VR	E35	5-SP A/T	D05
KL9H46	Verada Ei	E35	5-SP A/T	D05

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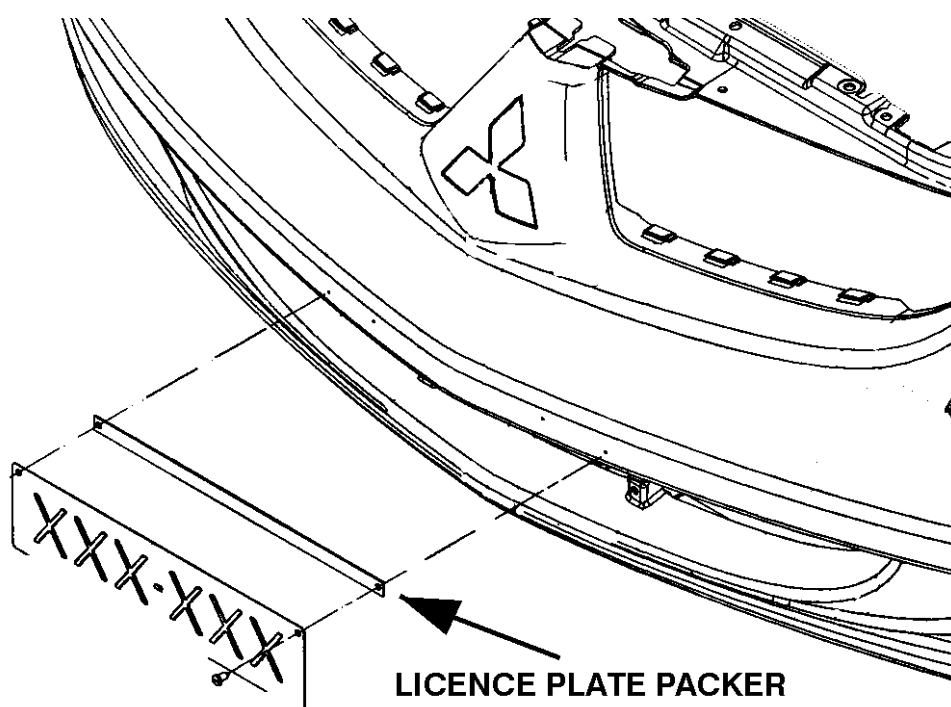
## **PAINT REPAIR CODES**

MMAL CODE	MMC CODE	PAINT COLOUR	PAINT REPAIR CODES			
			SPIES/ HECKER	PPG	SPARTAN	GLASURIT
WG	N40	MAWSON WHITE	–	RCK5	23427	–
W17	AZ	STARLIGHT	–	MITXX/1	–	–
KX	A45	PEWTER	75189	RCK3B	23192	–
HH	E02	KASHMIR	80604	48215	21540	55-MAU-HH
AJ	C03	TANAMI	–	3ENRB	–	–
FA	P07	FLAME RED	82665	–	24265	–
YE	F52	DAINTREE GREEN	67554	WJP8B	24029	–
HT	R27	SIENNA RED	34541	PGL5B	22900	55-MAU-HT
AH	P11	GRANGE	–	2EBJB	–	–
YD	D51	SAPPHIRE BLUE	67499	WBH7B	24030	–
EE	T39	PACIFIC BLUE	58778	–	23426	–
YA	X48	SABLE	75172	RNK4B	23429	–

## **Predelivery**

The fitment of licence plates to the TL/KL front bumper bar is facilitated with the use of a plastic packing strip. The holes provided in the packing strip will locate over two distinct dimples moulded into the bumper face. The plastic strip, Pt No. MR932069 is provided in the glove box of the vehicle and the licence plate should be attached using 5 mm diameter self tapping screws.

NOTE: Licence plate surrounds must not be fitted as they may adversely affect the ability of the A/C to operate efficiently in extreme conditions.





## **Service Information**

TL/KL model Magna CD-ROM workshop manual is currently in production and will be provided to the dealer network during the month of August.

Any dealer requiring technical information prior to the workshop manual CD distribution should contact Regional Support Team on 1300-130 099

## **Parts and Warranty**

All parts are available through the normal P&A system. Warranty times are currently being collated and will be included in the next edition of the W.I.S. CD-ROM.

## **Operators Manual**

Operators Manual Pt No. **MR928051** is provided with the vehicle and it is essential that this publication including the Service and Warranty book Pt No. **MR928661** are in the vehicle when delivered to the customer.

## **Production date**

June, 2003



MITSUBISHI

# SERVICE BULLETIN

**GROUP:**00 – General Information

**DATE:** August 2003

**NO.** 00/2003/006


**MODEL:** MK Triton

**SUBJECT:** Inspection of jack assembly

**COUNTRIES:**

Australia

R.I.WYATT  
MANAGER - AFTERSALES  
TECHNICAL SUPPORT

.....

**Bulletin Consists of 2 Pages**

As part of the pre-delivery inspection, the jack assembly fitted to **ALL Triton** vehicles is required to be tested as outlined on the attached survey sheet and must be confirmed to be in a serviceable condition prior to delivery.

The attached survey form "MK TRITON JACK SURVEY" must be completed in full and returned by fax to MMAL (08) 8275 2496 to ensure warranty reimbursement for this procedure.

NOTE: All failed components must have a correctly filled out and securely attached warranty tag.

## WARRANTY REIMBURSEMENT

Quality Information		Claim Type 'w'	
Complaint = xx	Circumstance = x	Position Code= 911010	Diagnosis Code = xx
Labour Allowance and work codes:			
Position code	Work code	Work Quantity	Work value
911010	H1	0.3	\$
Note: This includes 0.1 hours vehicle preparation and service administration time			
Parts			
Part Number	Quantity	Failed Part	Value
Actual part number	1	x	\$

NOTE:

This inspection procedure is to conclude on the 31 December 2003.  
NO FURTHER CLAIMS FOR INSPECTION WILL BE ACCEPTED  
AFTER THAT DATE.

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SERVICE MANAGER FOR ACTION/DISTRIBUTION.

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# MK TRITON JACK SURVEY

8/2003

Dealer Code			
Inspection Date			
Vehicle Identification Number			
Kilometers			
Build date			
Sold date			
Lot number stamped on jack located on base	(Stamped number on base not hand written number)		
Inspection results	Pass		Fail
Comments			

## **Jack test procedure**

1. Remove jack from vehicle.
2. **Secure** the locking valve and place the Jack under the vehicle and raise to it's full limit.
3. Release jack and repeat **step 2**.
4. Inspect the Jack assembly:-
  - For signs of abnormal oil leakage or if the jack is unable to lift the vehicle off the ground.
  - Jack OK - return Jack to vehicle. => **complete form fax to MMAL.**
  - Jack failed - replace Jack => **complete form fax to MMAL.**

If the faxed form is not completed correctly - **your claim will be rejected!**

**FAX THIS FORM TO H.O SERVICE - 08 82752496**



MITSUBISHI

# SERVICE BULLETIN

**GROUP:**00 – General Information

**DATE:** September 2003

**NO.** 00/2003/007

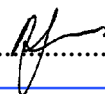
**MODEL:** PA Challenger

**SUBJECT:** 04 M/Y PA Challenger Introduction

**COUNTRIES:**

Australia

R.I.WYATT  
MANAGER - AFTERSALES  
TECHNICAL SUPPORT

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**Bulletin Consists of 2 Pages**

The purpose of this bulletin is to advise of the introduction of the 04 MY Challenger. The model codes will remain as **PA** with the option code of **M04** to identify the model year.

## SPECIFICATION CHANGES

Base

- ABS brakes with Electronic brake force distribution is now standard.
- Hybrid LSD now is standard.
- Cruise control is now standard.
- Motor antenna with half mast position stop switch added

LS.

- Electric tilt/slide sunroof (over head console deleted when fitted)
- In dash 6 CD stacker .

## MODEL CODES

MODEL CODE	ENGINE		TRANSMISSION	
	Type	Code	Type	Code
PA1P45	V6 3.0L S4	E05	5 M/T	D62
PA2P45	V6 3.0L S4	E05	4 A/T	D19
PA2P45 LS	V6 3.0L S4	E05	4 A/T	D19

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## **PAINT REPAIR CODES**

MMAL CODE	MMC CODE	PAINT COLOUR	PAINT REPAIR CODES			
			SPIES/ HECKER	PPG	SPARTAN	SIKKENS
CZ	W09	WHITE SOLID	16007	39422	17506	—
CV	T11	DEEP BLUE MICA	83220	—	—	—
CR	A19	COOL SILVER METALLIC	—	MIT.A19	—	A19
CW	G70	GREEN MICA	—	—	—	MIT9217
CX	P78	MEDIUM RED MICA	33136	47846	21252	—
CY	S74	BEIGE METALLIC	20668	47847	21251	—
CT	X08	BLACK MICA	70882	6JE2B	—	—
DA	W23	WHITE PEARL		MIT.W23	—	W23

## **TWO TONE CODES**

MMAL CODES	MMC CODES	PAINT COLOURS
DB	B1E	DEEP BLUE MICA / BEIGE METALLIC
DC	F3S	GREEN MICA / BEIGE METALLIC
DD	PA7	MEDIUM RED MICA / MEDIUM GREY MICA
DF	N3S	WHITE SOLID / BEIGE METALLIC
DH	X3E	BLACK MICA / BEIGE METALLIC
DG	HA6	COOL SILVER METALLIC / MEDIUM GREY MICA

## **OPERATORS MANUAL**

Operators Manual Pt No. **MN144464** is provided with the vehicle and it is essential that this publication is in the vehicle when delivered to the customer. Service and Warranty book Pt No. **MR928661** is suitable for fitment to the 04 M/Y Challenger range of vehicles.

## **SERVICE INFORMATION**

The PA Challenger workshop manual Publication no. **PWJE9901** has previously been issued to the field.

## **PRODUCTION DATE**

June 2003

**MITSUBISHI**

# SERVICE BULLETIN

**GROUP:**00 – General Information**DATE:** September 2003**NO.** 00/2003/008**MODEL:** WA Express**SUBJECT:** 04 M/Y WA Express Introduction**COUNTRIES:**

Australia

R.I.WYATT  
MANAGER - AFTERSALES  
TECHNICAL SUPPORT**Bulletin Consists of 2 Pages**

The purpose of this bulletin is to advise of the introduction of the 04 MY WA Express. The model code will remain as **WA** with the option code of **M04** to identify the model year.

## SPECIFICATION CHANGES

- All petrol engines now conform to EURO STEP 2 emission standard
- “Express” badge changed to read “EXPRESS 2.4 EFI”
- There are no changes to the model line up or engine / transmission codes
- There are no changes to interior or exterior styling.

## MODEL CODES

MODEL CODE	ENGINE		TRANSMISSION	
	Type	Code	Type	Code
WA3M99	2.4 MPI S4	E63	5 M/T	D26
WA4M99	2.4 MPI S4	E63	4 A/T	D44

## PAINT CODES

MMAL CODE	MMC CODE	PAINT COLOUR	PAINT REPAIR CODES			
			SPIES/HECKER	PPG	SPARTAN	SIKKENS
DZ	S14	BEIGE SOLID	–	MIT.S14	–	S14
CZ	W09	WHITE SOLID	16007	39422	17506	–
EA	R42	RED SOLID	30289	44520	19734	–
EB	T36	BLUE SOLID	KEL9B	2TJXB	27088	–

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## **OPERATORS MANUAL**

Operators Manual Pt No. **9290A116–A** is provided with the vehicle and it is essential that this publication is in the vehicle when delivered to the customer. Service and Warranty book Pt No. **MR928661** is suitable for fitment to the 04 M/Y WA Express range of vehicles.

## **SERVICE INFORMATION**

The WA Express workshop manual, Publication no. **PWWE9401** has previously been issued to the field.

## **PRODUCTION DATE**

SEPTEMBER 2003

**MITSUBISHI**

# SERVICE BULLETIN

**GROUP:**00 – General Information**DATE:** September 2003**NO.** 00/2003/009**MODEL:** ZE Outlander**SUBJECT:** 04 M/Y ZE Outlander Introduction**COUNTRIES:**

Australia

R.I.WYATT  
MANAGER - AFTERSALES  
TECHNICAL SUPPORT**Bulletin Consists of 2 Pages**

The purpose of this bulletin is to advise of the introduction of the 04 MY ZE Outlander. The model codes will remain as **ZE** with the option code of **M04** to identify the model year.

## SPECIFICATION CHANGES

- There are no changes to the model line up or engine / transmission codes
- There are no changes to interior or exterior styling.
- All colours are carried over, but are renamed .

## MODEL CODES

MODEL CODE	ENGINE		TRANSMISSION	
	Type	Code	Type	Code
ZE2P45	2.4L MPI S4	E01	S-4A/T	D16
ZE2S45	2.4L MPI S4	E01	S-4A/T	D16

## PAINT CODES

MMAL CODE	MMC CODE	PAINT COLOUR	PAINT REPAIR CODES			
			SPIES/HECKER	PPG	SPARTAN	SIKKENS
CE	A31	COOL SILVER (M)		2NMMB		
CF	R20	WINE RED (M)	35650	XDX3B	24170	
DV	T12	MEDIUM GREY MICA		2PCGB		
CJ	T54	DEEP BLUE MICA		2TJXB		
DW	W13	WHITE PEARL	24258		24181	
CL	X42	BLACK MICA	75830	XHC1B	24180	

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## **OPERATORS MANUAL**

Operators Manual Pt No. **MN144403** is provided with the vehicle and it is essential that this publication is in the vehicle when delivered to the customer. Service and Warranty book Pt No. **MR928661** is suitable for fitment to the 04 M/Y ZE Outlander range of vehicles.

## **SERVICE INFORMATION**

The ZE Outlander service manual CD ROM Part no. **MR927707** has previously been issued to the field.

## **PRODUCTION DATE**

SEPTEMBER 2003

**MITSUBISHI**

# SERVICE BULLETIN

**GROUP:**00 – General Information**DATE:** October 2003**NO.** 00/2003/010**MODEL:** MK Triton**SUBJECT:** 04 M/Y MK Triton Introduction**COUNTRIES:**

Australia

R.I.WYATT  
MANAGER - AFTERSALES  
TECHNICAL SUPPORT**Bulletin Consists of 2 Pages**

The purpose of this bulletin is to advise of the introduction of the 04 M/Y MK Triton. The model code will remain as **MK** with the option code of **M04** to identify the model year.

## SPECIFICATION CHANGES

- All engines now comply with EURO STEP 2 Emission standard.
- No change to model line up (including Model, Engine & Transmission ).
- Chrome grille, door, tailgate & inside door handles (GLS only)
- Revised seat trim for all models
- Air conditioning standard fit on GLS double cab. (Unit locally sourced and Dealer fit)

## MODEL CODES

MODEL CODE	ENGINE		TRANSMISSION	
	Type	Code	Type	Code
MK3L27	2.4L MPI	E63	5 M/T	D26
MK7H27	V6 3.0L S4	E05	5 M/T	D26
MK8H27	V6 3.0L S4	E05	4 A/T	D18
MK3H23	2.4L MPI	E63	5 M/T	D26
MK3H47	2.4L MPI	E63	5 M/T	D26
MK7H47	V6 3.0L S4	E05	4 A/T	D26
MK8H47	V6 3.0L S4	E05	5 M/T	D18
MK7W27	V6 3.0L S4	E05	5 M/T	D62
MK9W27	2.8 I/C T/D	E27	5 M/T	D62
MK7W23	V6 3.0L S4	E05	5 M/T	D62
MK9W23	2.8 I/C T/D	E27	5 M/T	D62
MK7W47	V6 3.0L S4	E05	5 M/T	D62
MK9W47	2.8 I/C T/D	E27	5 M/T	D62
MK7X47	V6 3.0L S4	E05	5 M/T	D62
MK8X47	V6 3.0L S4	E05	5 M/T	D19
MK9X47	2.8 I/C T/D	E27	5 M/T	D62

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## **PAINT REPAIR CODES**

MMAL CODE	MMC CODE	PAINT COLOUR	PAINT REPAIR CODES			
			SPIES/ HECKER	PPG	SPARTAN	PPG Autocolor
CA	A36	WARM SILVER (M)		MIT.A36		3CKEB
CG	G60	DEEP GREEN MICA	65087	KTR3B	22242	—
BN	R59	RED SOLID	34379	—	23578	—
BP	T64	DEEP BLUE MICA		MIT.T64		3DXRB
CS	W32	WHITE SOLID	22372	2MK7B	22328	—
CT	X08	BLACK MICA	73325	FVX5B	21542	—
<b>REPAIR CODE FOR TWO TONE PAINT</b>						
ZN	R19	DEEP PURPLE MICA	83348	—	—	—

## **TWO TONE CODES**

MMAL CODES	MMC CODES	PAINT COLOURS
CB	FH2	DEEP GREEN MICA / WARM SILVER METALLIC
BV	PA0	DEEP PURPLE MICA / WARM SILVER METALLIC
BX	J8U	BLACK MICA / WARM SILVER METALLIC
BY	DU3	DEEP BLUE MICA / WARM SILVER METALLIC

## **OPERATORS MANUAL**

Operators Manual Pt No. **MR963874** is provided with the vehicle and it is essential that this publication is in the vehicle when delivered to the customer. Service and Warranty book Pt No. **MR928661** is suitable for fitment to the 04 M/Y MK Triton range of vehicles.

## **AUDIO MANUAL AND WARRANTY PROCEDURES**

Audio Instruction booklet Pt No. **MR927976** should be provided with the vehicle.  
Should the Audio unit require repairs during the warranty period, then the existing Audio change over system is to be utilised.

## **SERVICE INFORMATION**

The MK Triton workshop manual Publication no. **PWTE9702** has previously been issued to the field.

## **PRODUCTION DATE**


September 2003

**MITSUBISHI**

# SERVICE BULLETIN

**GROUP:** 00 – General Information**DATE:** September 2003**NO.** 00/2003/011**MODEL:** CH Lancer**SUBJECT:** 04 M/Y CH Lancer introduction**COUNTRIES:**

Australia

R.I.WYATT  
MANAGER - AFTERSALES  
TECHNICAL SUPPORT**Bulletin Consists of 2 Pages**

This bulletin is to advise of the introduction of the 04 M/Y CH Lancer range of vehicles. There will be no change to the model line up or the engine and transmission codes

## SPECIFICATION CHANGES

All models

- 3 point centre lap sash belt fitted to rear seat
- Cruise control: Optional on ES  
Standard on LS/Exceed  
Not available on VRX
- Full size steel spare wheel on ES/LS
- Full size alloy spare wheel on VRX
- Roof mount antenna

VRX only

- 5 stud 16" alloy wheels
- Rear disc brakes
- Front strut tower bar
- Sports mode 4 A/T
- Transmission shift controls fitted to steering wheel ( Automatic only)
- Clear lens in rear combination lamp
- High mount stop lamp (in rear spoiler)

EXCEED

- ABS with EBD

## MODEL CODES

MODEL CODE	ENGINE		TRANSMISSION	
	Type	Code	Type	Code
CH5M41	2.0L S4 (4G94)	E35	5 M/T (F5M42)	D14
CH6M41	2.0L S4 (4G94)	E35	4 A/T (F4A42)	D15
CH5H41	2.0L S4 (4G94)	E35	5 M/T (F5M42)	D14
CH6H41	2.0L S4 (4G94)	E35	4 A/T (F4A42)	D15
CH5S41	2.0L S4 (4G94)	E35	5 M/T (F5M42)	D14
CH6S41	2.0L S4 (4G94)	E35	4 A/T (F4A42)	D15
CH6P41	2.0L S4 (4G94)	E35	4 A/T (F4A42)	D15

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### Paint repair codes

MMAL CODE	MMC CODE	PAINT COLOUR	PAINT REPAIR CODES			
			SPIES/ HECKER	PPG	SPARTAN	GLASU- RIT
CE	A31	COOL SILVER METALLIC	—	2NMMB	—	—
CJ	T54	DEEP BLUE MICA	—	2TJXB	—	—
CK	W83	WHITE SOLID	16718	44516	19721	22-MAU-2 104
CF	R20	WINE RED METALLIC	35650	XDX3B	24170	—
CM	Y01	YELLOW SOLID	76636	—	—	—
CL	X42	BLACK MICA	75830	XHC1B	24180	—

### Operators manuals

Operators Manual Pt No. **MN144352–B** is provided with the vehicle and it is essential that this publication is in the vehicle when delivered to the customer. Service and Warranty book Pt No. **MR928661** is suitable for fitment to the CH Lancer range of vehicles.

### Audio manual and warranty procedures

Audio Instruction booklet Pt No. **MR927976** should be provided with the vehicle.  
Should the audio unit require repairs during the warranty period, then the existing audio change over system is to be utilised.

### Service information

The Lancer Workshop manual is currently in progress and will be issued to the field in October 2003

### Production date

August 2003

**MITSUBISHI**

# SERVICE BULLETIN

**GROUP:**00 – General Information**DATE:** September 2003**NO.** 00/2003/012**MODEL:** SJ Express**SUBJECT:** 04 M/Y SJ Express Introduction**COUNTRIES:**

Australia

R.I.WYATT  
MANAGER - AFTERSALES  
TECHNICAL SUPPORT**Bulletin Consists of 2 Pages**

The purpose of this bulletin is to advise of the introduction of the 04 MY SJ Express. The model code will remain as **SJ** with the option code of **M04** to identify the model year.

## Specification changes

### All models

- All petrol engines now conform to EURO STEP 2 emission standard.
- 2.0L MPI fuel injected engine (4G63) replaces 2.0L Carburettor in SWB models.
- 2.0L MPI fuel injected engine (4G63) replaces 2.4L MPI engine in MWB models.
- All SJ Express automatic models have been deleted.

### MWB changes

- Alternator capacity increased to 12V–75A.
- Final drive ratio changed to 4.875:1
- Radiator capacity increased.
- Wire type clutch replaces hydraulic type.

MODEL CODE	ENGINE		TRANSMISSION	
	Type	Code	Type	Code
SJ1M38	2.0 MPI S4	E46	5 M/T	D26
SJ1H38	2.0 MPI S4	E46	5 M/T	D26
SJ1M99	2.0 MPI S4	E46	5 M/T	D26

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### **PAINT CODES**

<b>MMAL CODE</b>	<b>MMC CODE</b>	<b>PAINT COLOUR</b>	<b>PAINT REPAIR CODES</b>			
			<b>SPIES/ HECKER</b>	<b>PPG</b>	<b>SPARTAN</b>	<b>SIKKENS</b>
DZ	S14	BEIGE SOLID	–	MIT.S14	–	S14
CZ	W09	WHITE SOLID	16007	39422	17506	–
EA	R42	RED SOLID	30289	44520	19734	–
EB	T36	BLUE SOLID	KEL9B	2TJXB	27088	–

### **OPERATORS MANUAL**

Operators Manual Pt No. **MR929887** is provided with the vehicle and it is essential that this publication is in the vehicle when delivered to the customer. Service and Warranty book Pt No. **MR928661** is suitable for fitment to the 04 M/Y SJ Express range of vehicles.

### **SERVICE INFORMATION**

The **SJ** Express workshop manual, Publication no. **PWWE9409** (base manual) has previously been issued to the field.

### **PRODUCTION DATE**

October 2003



**MITSUBISHI**

# SERVICE BULLETIN

**GROUP:**00 – General Information

**DATE:** October 2003

**NO.** 00/2003/013

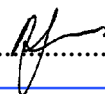
**MODEL:** NP Pajero

**SUBJECT:** 04 M/Y Pajero Introduction

**COUNTRIES:**

Australia

R.I.WYATT  
MANAGER - AFTERSALES  
TECHNICAL SUPPORT

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**Bulletin Consists of 3 Pages**

The purpose of this bulletin is to advise of the introduction of the 04 MY NP Pajero. The model code will remain as **NP** with the option code of **M04** to identify the model year.

## Specification changes

### **All models**

- All petrol and diesel engines now conform to EURO STEP 2 emission standard.
- 3.8L V6 petrol engine (6G75) standard fitment in all automatic petrol Pajero models.
- ABS brakes with EBD standard on all models.
- Active stability control (ASC) standard on all 3.8L petrol and 3.2L DI–Diesel models  
NOTE: ASC incorporates Active Traction Control (ATC).
- Active traction control (ATC) standard on all 3.5L petrol (manual) models
- Limited slip differential is deleted from GLX and GLS models (replaced by ASC on 3.8L V6 and 3.2L DI–D and by ATC on 3.5L V6).
- Higher capacity alternator (12V–110A) fitted to all V6 petrol models.
- Seat belt pretensioners are now fitted as standard on all models fitted with dual airbags.
- Delete ABS wheel speed indicator on multi function display.

### **GLX specific**

- 16" Alloy wheels including spare now standard.

### **GLS specific**

- In dash 6 CD stacker now standard fitment.
- RV meter display now on blue background.
- RV meter display reduced to 3 (three) screen displays.

1) Time / Date display

2) Compass heading / Barometer / Altimeter

3) Air Conditioning / Internal–External Temperature display

NOTE: The altitude & temperature over time; independent wheel speed; traction and maintenance record displays have been deleted.

### **Exceed specific**

- Premium roadside assistance standard on all Exceed models (Diamond Premium Road side Assistance program added at point of RDA).

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## Engine Models

	<b>3.8L V6 Petrol</b>	<b>3.5L V6 Petrol</b>	<b>3.2L D-ID Diesel</b>
<b>Engine</b>	6G75 S4	6G74 S4	4M41
<b>Bore x Stroke (mm)</b>	95.0 X 90.0	93.0 x 85.8	98.5 X 105.0mm
<b>Displacement (cc)</b>	3828	3497	3200
<b>Max Power</b>	150kw / 5000rpm	140kw / 5000rpm	121kw / 3800rpm
<b>Max Torque</b>	314Nm / 3250rpm	303Nm / 3500rpm	373Nm / 2000rpm

The 3.8L V6 petrol engine has the same service requirements as the 3.5L V6 petrol engine with no variation in coolant / lubricant capacities or service schedules.

The 3.8L V6 is LPG compatible.

## Model codes

PRICE CLASS	MODEL CODE	ENGINE		TRANSMISSION	
		Type	Code	Type	Code
GLX	NP1W45	V6 3.5L	E35	5 M/T	D62
	NP8W45	V6 3.8L	E41	S-5A/T	D75
	NP4W45	3.2L DI-D	E75	5M/T	D62
	NP5W45	3.2L DI-D	E75	S-5A/T	D75
GLS	NP1P45	V6 3.5L	E35	5 M/T	D62
	NP8P45	V6 3.8L	E41	S-5A/T	D75
	NP4P45	3.2L DI-D	E75	5 M/T	D62
	NP5P45	3.2L DI-D	E75	S-5A/T	D75
EXCEED	NP8X45	V6 3.8L	E41	S-5A/T	D75
	NP4X45	3.2L DI-D	E75	5 M/T	D62
	NP5X45	3.2L DI-D	E75	S-5A/T	D75

## Paint codes (Monotone)

MMAL CODE	MMC CODE	PAINT COLOUR	PAINT REPAIR CODES			
			SPIES/HECKER	PPG	SPARTAN	SIKKENS
CR	A19	COOL SILVER (M)	—	2TKAB	—	—
CW	G70	GREEN MICA	—	—	—	MIT9217
CY	S74	BEIGE METALLIC	20668	47847	21251	—
CV	T11	DEEP BLUE MICA	83220	—	—	—
CZ	W09	WHITE SOLID	16007	39422	17506	
CT	X08	BLACK MICA	73325	FVX5B	21542	—
DA	W23	WHITE PEARL	—	2WMLB	—	W23
EB	T36	BLUE SOLID	55896	KEL9B	22088	—
<b>Paint code lower (2-tone)</b>						
DV	T12	MEDIUM GREY (M)	—	2PCGB	—	—

### Paint codes (2– tone)

MMAL CODE	MMC CODE	PAINT COLOUR
DN	BAH	DEEP BLUE MICA / MEDIUM GREY (M)
DP	FH3	GREEN MICA / MEDIUM GREY (M)
DQ	HA7	COOL SILVER (M) / MEDIUM GREY(M)
DR	J9U	BLACK MICA / MEDIUM GREY (M)
DS	RDH	MEDIUM RED MICA / MEDIUM GREY(M)
DT	WH5	WHITE SOLID / COOL SILVER (M)

### Operators Manual

Operators Manual Pt No. **MN144606** is provided with the vehicle and it is essential that this publication is in the vehicle when delivered to the customer. Service and Warranty book Pt No. **MR928661** is suitable for fitment to the 04 M/Y Pajero range of vehicles.

### Service Information

The **PAJERO** workshop manual, Publication no. **PWJE0005** (base manual) has previously been issued to the field.

### Production Date

August 2003



**MITSUBISHI MOTORS  
AUSTRALIA LTD.**

A.C.N. 067 570 395

# SERVICE BULLETIN

**GROUP:** 00—General Information

**DATE:** July 2002

**NO.** R-00/2002/001

**MODEL:** Ralliart Magna

**SUBJECT:** Introduction of Ralliart Magna

**COUNTRIES:**

Australia

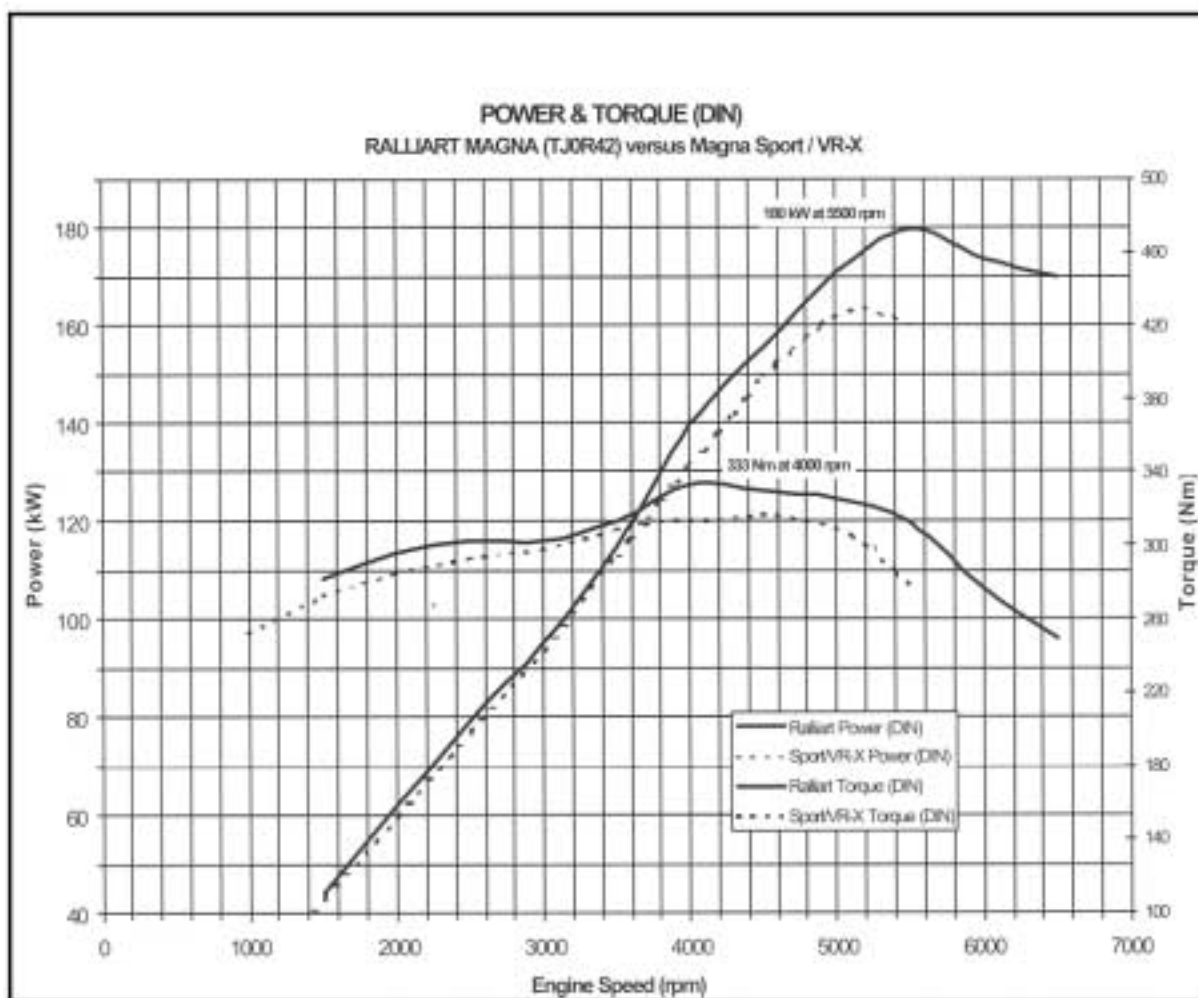
R.I.WYATT  
MANAGER - WARRANTY &  
TECHNICAL PUBLICATIONS

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**Bulletin Consists of 6 Pages**

The purpose of this bulletin is to advise of the introduction of the Ralliart Magna, a performance orientated version of the Magna produced in collaboration with Ralliart Australia.

Significant improvements have been achieved in all areas of performance while Fuel economy remains at a class leading 7.6 L/100 kms. ( Highway cycle).



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## MODEL RANGE

MODEL	ENGINE		TRANSMISSION	
SEDAN	TYPE	CODE	TYPE	CODE
TJ-1R-42	6G74 V6 3.5L	E37	F5M51 5M/T	D06
TJ-2R-42	6G74 V6 3.5L	E37	F5A51 5A/T	D05

## ENGINE

- 6G74 V6 3.5L
- Compression ratio increased to 9.4:1
- Combustion chamber shape modified to improve flow
- Revised camshaft timing and increased valve lift
- Unique cross-section nitrided valve springs to accommodate increase in camshaft lift
- Stainless steel exhaust headers and high flow exhaust system fitted
- Engine ECU remapped to maintain idle quality and optimise power and fuel efficiency
- Spark plug heat range has changed (RC8YCC4 and RC8PYP4)
- Vehicle top speed is electronically limited to 240 km/h
- Maximum power is 180kW @ 5500 rpm
- Maximum torque is 333Nm @ 4000 rpm

## MANUAL TRANSMISSION

- F5M51
- LSD fitted ( Torque sensing helical gear type)

## AUTOMATIC TRANSMISSION

- F5A51
- Transmission ECU shift pattern remapped to suit engine characteristics
- Traction and trace control fitted (as currently used on VR-X)

## HANDLING AND BRAKES

- Koni struts and shock absorbers fitted to front and rear
- Front and rear sway bars fitted (22mm front, 18mm rear)
- Power steering effort revised with the use of a constant flow rate power steering pump
- Pirelli P6000, 225/50 ZR17 94W tyres fitted to Enkei 17x7JJ alloy wheels
- Front brake disc diameter increased to 294mm
- Rear brake disc diameter increased to 284mm
- Front caliper upgraded to a twin piston design with a 26% increase in disc pad area
- Rear caliper upgraded to provide a 32% increase in disc pad area

## EXTERIOR

- Unique body kit including front and rear spoiler with side air dams and wheel arch mouldings.

**Note: The front bumper lower extension is shipped direct to the dealer parts department for fitment at predelivery, if required by the customer.**

- Ralliart Magna comes in four traditional Ralliart colours only
  - 1) Flame red
  - 2) Mawson White
  - 3) Pewter ( silver )
  - 4) Sable ( black )

## INTERIOR

- Sports style seating in unique red and black fabric featuring embroidered “ Ralliart “ logos
- Red and Black leather steering wheel incorporating drivers airbag
- Instrument cluster features red background with white markings and orange needles
- Ralliart logo incorporated into tachometer
- In cluster digital display incorporating trip computer, odometer and trip meter
- Silver finish on console, audio and climate control panels

## AUDIO

- The Ralliart Magna is fitted with a security coded premium 8–speaker Fujitsu Ten audio system comprising the following features.
  - 1) AM/FM radio
  - 2) 6 CD stacker in dash
  - 3) Mute function
  - 4) Electronic crossover control
  - 5) Vacuum fluorescent display
  - 6) Automatic loudness
  - 7) CD text display ready
  - 8) Radio station text display ready
  - 9) Clock
  - 10) Independant tone memories (bass/mid/treble)
  - 11) Auxiliary input for MP3 and mini–disc player
- The system is connected to two 8cm tweeters located in the dash pad, two 3.5cm tweeters located in the delta panels, two 6–1/2” 2–way speakers located in the front doors and two 6”x9” 3–way speakers fitted in the parcel shelf.
- The sound system can be controlled by the standard controls, or by a credit card–sized remote control unit.
- The system is security coded and exhibits a flashing security LED. The security code is established using a dedicated “Key CD”. The operation of this function is described in the “Quickstart Guide to Your Eclipse Audio System” supplied with the vehicle.
- Should the unit be the subject of a warranty complaint then an audio exchange system is in place with Fujitsu Ten. Use the attached form to request an exchange unit.

## SERVICE LITERATURE

- Service Schedules and LOTS times carry over from current Magna.
- Workshop manuals carry over, however a RALLIART supplement will be issued to all designated Ralliart Specialist Dealerships with the update of the TJ/KJ Workshop manual.
- Operators manual Pt No. MR928199 and an “Eclipse” Audio manual have been issued for use with this vehicle. Ensure the correct manuals are in each vehicle when prepared for delivery.

## SECURITY

- As well as the standard Magna immobiliser security system and security coded audio, the Ralliart Magna will have the additional protection of the Data Dot security system, where using a patented spray process, Microdots containing vehicle recognition data are applied to the vehicle body and components.

## ROADSIDE ASSISTANCE

- The vehicle is covered by a full road side assistance package. Documentation for this is supplied with the vehicle.

## PAINT REPAIR CODES

MMAL Code	MMC Code	PAINT COLOUR	PAINT REPAIR CODES				
			Spies/Hecker	PPG	Spartan	Glasurit	Standex
FA	P07	Flame Red	N/A	N/A	24265	N/A	N/A
WG	N40	Mawson White	23174	RCK5	23427	N/A	WG
KX	A45	Pewter (Silver)	75189	RCK3B	23192	N/A	KX
YA	X48	Sable (Black)	75172	RNK4B	23429	N/A	X48

## WARRANTY PROCEDURES

**All warranty repairs must be conducted by and claims will only be accepted from the nominated Ralliart Specialist Dealers.**

## NOMINATED RALLIART SPECIALIST DEALERS

### NSW

- |  |                  |
|--|------------------|
| • Sydney Mitsubishi, Glebe               | • (02) 9552 1300 |
| • Northshore Mitsubishi, Crows Nest      | • (02) 9439 3099 |
| • Bankstown Mitsubishi, Punchbowl        | • (02) 9709 4444 |
| • Sutherland Mitsubishi, Kirrawee        | • (02) 9521 7222 |
| • Fury Mitsubishi, Blacktown             | • (02) 9839 9000 |
| • Parramatta Mitsubishi, Parramatta      | • (02) 9682 4444 |
| • Paul Wakeling Mitsubishi, Campbelltown | • (02) 4628 1444 |
| • Booths Mitsubishi, Gosford             | • (02) 4324 1844 |
| • Newcastle Mitsubishi, Mayfield         | • (02) 4967 1500 |

ACT

- National Capital, Canberra • (02) 6293 7999

QLD

- Nundah Mitsubishi, Nundah • (07) 3266 8044
- Zupps Mitsubishi, Mt Gravatt • (07) 3243 8888
- Zupps Mitsubishi, Southport • (07) 5532 1944
- Geoff Pickering Mitsubishi, Townsville • (07) 4726 5555

VIC

- Eastside Mitsubishi, Nunawading • (03) 9878 7333
- Chadstone Mitsubishi, Oakleigh • (03) 9569 0811
- Bayside Mitsubishi, Frankston • (03) 9779 5799
- Essendon Mitsubishi, Moonee Ponds • (03) 9370 2722

TAS

- DJ Mitsubishi, Hobart • (03) 6230 3300
- Launceston Mitsubishi, Launceston • (03) 6331 6633

S. AUST.

- Yorke Motors Mitsubishi, Adelaide • (08) 8223 4000

W. AUST.

- Skipper Mitsubishi, Victoria Park • (08) 9334 3333
- Wanneroo Mitsubishi, Wanneroo • (08) 9403 9403



# Car Audio Floater Request

A Floater audio unit will not be dispatched unless all details are completed.

Dealer Name	Dealer Code	Date
		<div> <div>/</div> <div>/</div> </div> <div> <div>dd</div> <div>mm</div> <div>yy</div> </div>
Delivery Address	State	Postcode
Contact Name	Phone	FAX

### Symptom Details

Fault occurs <b>IN</b> ;	Fault occurs <b>WHEN</b> ;	Additional Explanation
<input type="checkbox"/> Whole Unit	<input type="checkbox"/> Always	
<input type="checkbox"/> AM	<input type="checkbox"/> Most of the time	
<input type="checkbox"/> FM	<input type="checkbox"/> Sometimes	
<input type="checkbox"/> Cassette Player	<input type="checkbox"/> When Hot	
<input type="checkbox"/> CD Player	<input type="checkbox"/> When Cold	
<input type="checkbox"/> Memory	<input type="checkbox"/> Engine Running	
<input type="checkbox"/> Buttons	<input type="checkbox"/> Engine Off	
<input type="checkbox"/> Lamps	<input type="checkbox"/> Vehicle Moving	
<input type="checkbox"/> Display	<input type="checkbox"/> Vehicle Stationary	

Audio Part Number OR Facia ID Number

<b>Part #</b> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<b>Delivery Date :</b> /        /
	<b>Repair KLMS :</b>

## Vehicle Identification Number

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**Floater Requirements - Check One Box Only**

A. ☐ Out of Warranty **OR** B. ☐ New Vehicle Warranty

✓	Unit Type	Price **
	Radio Only / Cassette Only	\$110.00
	Radio Cassette Player - 1 DIN	\$105.00
	Radio Cassette Player - 2 DIN	\$160.00
	CD player - Single	\$185.00
	CD player - Multi	\$185.00
	3 in 1 ( Radio, Cassette, CD Player )	\$250.00

Signature

**Important:** Out of warranty sets must be returned with payment. Please keep courier consignment note for 30 days. Prices subject to change without notice. Certain models may not be available in which case alternative models may be offered. Prices are inclusive of return freight by Australian Air Express. \*\* Prices exclusive of GST

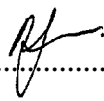




**MITSUBISHI MOTORS  
AUSTRALIA LTD.**

A.C.N. 067 570 995

# SERVICE BULLETIN

<b>GROUP:</b> 00 – General Information	<b>DATE:</b> June 2002	<b>NO.</b> 00/2002/002
<b>MODEL:</b> NM Pajero	<b>SUBJECT:</b> Introduction of direct injection diesel	
<b>COUNTRIES:</b>  Australia	R.I.WYATT MANAGER - WARRANTY & TECHNICAL PUBLICATIONS	
	<b>Bulletin Consists of 2 Pages</b>	

The purpose of this bulletin is to advise of the introduction of the direct injected diesel engine into the NM Pajero range of vehicles.  
The new 3.2L DI-D (Direct Injection Diesel) engine with electronic control injection and intercooled turbocharger will replace the 2.8L diesel .

## Engine Specifications

Engine type	• 3.2L DOHC 16V
Engine model	• 4M41
Intake	• Intercooled and Turbocharged
Injection type	• Direct injection
Capacity	• 3200cc
Bore and Stroke	• 98.5 x 105.0
Compression ratio	• 17:1
Power	• 121kW @ 3800rpm
Torque	• 373Nm @ 2000rpm

## Availability

The GL Diesel has been discontinued.  
The new DI-Diesel engine will be available in GLX, GLS and EXCEED.  
Both Manual and 5-Speed Automatic with Sports mode transmissions can be selected for use with the Diesel engine.

## Features

Cruise control is now available as standard equipment on Diesel models.  
Electric Sunroof will be available as an option for EXCEED Diesel models  
.

## Service Schedules

The Regular Scheduled Service intervals have been revised for the 4M41 Direct Injection engine due to its superior performance in regard to oil contamination.  
The intervals now occur at the same time as petrol versions of the Pajero model range.

The revised schedules are as follows

***Under normal conditions • 12Mths / 15,000 kilometres***  
***Under severe service • 6Mths / 7,500 kilometres***

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## **MODEL CODES**

MODEL CODE	ENGINE		TRANSMISSION	
	Type	Code	Type	Code
NM1W45	3.5L V6	E35	5 M/T	D62
NM2W45	3.5L V6	E35	5 A/T	D75
NM4W45	3.2L DI-D	E75	5 M/T	D62
NM5W45	3.2L DI-D	E75	5 A/T	D75
NM1P45	3.5L V6	E35	5 M/T	D62
NM2P45	3.5L V6	E35	5 A/T	D75
NM4P45	3.2L DI-D	E75	5 M/T	D62
NM5P45	3.2L DI-D	E75	5 A/T	D75
NM1P45 (A99)	3.5L V6	E35	5 M/T	D62
NM2P45 (A99)	3.5L V6	E35	5 A/T	D75
NM4P45 (A99)	3.2L DI-D	E75	5 M/T	D62
NM5P45 (A99)	3.2L DI-D	E75	5 A/T	D75

## **PAINT REPAIR CODES**

MMAL CODE	MMC CODE	PAINT COLOUR	PAINT REPAIR CODES			
			SPIES/ HECKER	PPG	SPARTAN	GLASURIT
RT	A69	SATELLITE SILVER	72964	9JM9B	21750	55-MIT-A69
ZY	T11	GRAND BLUE	83220	—	—	—
YH	G13	FORESTA GREEN	66858	WJW8B	24026	—
WX	W09	SOPHIA WHITE	16007	39422	17506	—

## **TWO TONE CODES**

MMAL CODE	MMC CODE	PAINT COLOURS
AK	DH6	GRAND BLUE / QUEENS SILVER
YL	GA8	FORESTA GREEN / QUEENS SILVER
YM	PH2	ROANNE RED / QUEENS SILVER
TS	W0U	SOPHIA WHITE / SATELLITE SILVER

## **OPERATORS MANUAL and SERVICE INFORMATION**

Operators Manual Pt No. **MR963720** is provided with the vehicle and it is essential that this publication is in the vehicle when delivered to the customer.

Chassis Manual Pt No. **PWJE0005 VOL1&2** and Engine Manual Pt No **PWEE9409-E** have previously been issued to cover the NM Pajero range including the DI-D engine.

## **AUDIO SECURITY CODES**

The Audio unit is now fitted during manufacture by MMC and there are two cards, with the radio security code, located in the glove box. Please ensure that these cards are supplied to the owner at time of vehicle delivery.

## **PRODUCTION DATE**

May 2002



**MITSUBISHI MOTORS  
AUSTRALIA LTD.**

A.C.N. 067 570 995

# SERVICE BULLETIN

**GROUP:** 00-General

**DATE:** June 2002

**NO.** 00/2002/003

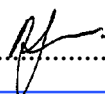
**MODEL:** ALL

**SUBJECT:** Immobiliser repair procedures

**COUNTRIES:**

Australia

R.I.WYATT  
MANAGER - WARRANTY &  
TECHNICAL PUBLICATIONS

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**Bulletin Consists of 2 Pages**

This Service Bulletin is to advise of the correct procedures required when replacing any of the components that form the engine immobiliser system.

The accompanying chart is intended as a quick reference guide and should be used in conjunction with the relevant workshop manual for the applicable vehicle being worked on.

## **Applicable Vehicles**

All local and imported vehicles featuring an ECU based engine immobiliser.

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# IMMOBILISER SYSTEM REPLACEMENT PARTS GUIDE

Model - Year	Operation Performed	Fuel cut valve controller	Engine-A/T-ECU	Immobilizer-ECU-BEM	Ignition key
TH Magna onwards KH Verada onwards	Replacing Engine/Trans ECU	N/A	Replace ECU	Replace BEM	Replace All Keys and Register
	Replacing Immobilizer - BEM ECU	N/A	Not Required	Replace BEM	Re-register All Keys
	Extra Key or Replacement of a lost Key	N/A	Not Required	Not Required	Register New Key and Re-register All Other Keys
TE/TF Magna KE/KF Verada UF Nimbus	Replacing Engine ECU	N/A	Replace ECU	Not Required	Not Required
NL Pajero 3.5l	Replacing Immobilizer ECU	N/A	Not Required	Replace Immobilizer ECU	Re-register All Keys
PA Challenger MK Triton petrol 97-01 MY	Extra Key or Replacement of a lost Key	N/A	Not Required	Not Required	Register New Key and Re-register All Other Keys
CE Lancer 97-02 MY					
L400 1997					
UG Nimbus	Replacing Engine ECU	N/A	Replace ECU	Replace Immobilizer ECU	Replace All Keys and Register
QA Pajero iO	Replacing Immobilizer ECU	N/A		Replace Immobilizer ECU	Re-register All Keys
MK Triton petrol 02 MY	Extra Key or Replacement of a lost Key	N/A			Register New Key and Re-register All Other Keys
NM Pajero (petrol) (4M41 diesel)	Replacing Engine ECU	N/A	Replace ECU	Replace Immobilizer ECU	Replace All Keys and Register
	Replacing Immobilizer ECU	N/A		Replace Immobilizer ECU	Re-register All Keys
	Extra Key or Replacement of a lost Key	N/A			Register New Key and Re-register All Other Keys
NM Pajero (4M40 diesel)	Replacing fuel cut valve controller	Replace fuel cut valve controller	N/A		Replacement not required, re-registration not required
	Replacing with second hand fuel cut valve controller	Reset fuel cut valve controller to factory code	N/A		Re-register all keys
	Replacing immobilizer - ECU	No Replacement required (initialization needed)	N/A	Replace Immobilizer ECU	Replacement and re-registration required
	Extra Key or Replacement of a lost Key		N/A		Register New Key and Re-register All Other Keys



**MITSUBISHI MOTORS  
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# SERVICE BULLETIN

**GROUP:**00 – General Information

**DATE:** July 2002

**NO.** 00/2002/004

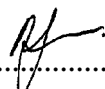
**MODEL:** TJ Magna

**SUBJECT:** Introduction of Police Specification Magna

**COUNTRIES:**

Australia

R.I.WYATT  
MANAGER - WARRANTY &  
TECHNICAL PUBLICATIONS

.....

**Bulletin Consists of 13 Pages**

The purpose of this bulletin is to advise of the introduction of a dedicated sedan, with a specification level designed to suit the requirements of the various state police forces.

This new model is based on the 3.5L 4A/T Executive sedan with the following additions and or changes to specification.

## Vehicle Specification

- ABS
- Driver and Passenger SRS airbag
- Traction control
- Cruise control
- Manual air conditioning
- Increased alternator output
- Map lamps
- Power windows
- Dual horns
- Rear sway bar and revised springs and dampers
- Shift lever revised to provide lock out from Drive to Neutral
- Shift lever revised to remove detent from Drive to Second
- Sump protection guard
- 15x6.0J steel wheels, painted silver with bright wheel nuts and centre cap only
- Total of three master keys provided, valet key deleted
- Unique Police wiring system to provide interface with additional accessories
- Isolation switch on console for room and trunk lights
- Instrument cluster with 2km/h graduations and in vehicle calibration feature
- Revised brake pad material

## Options

- Power windows
- 16x7.0J Alloy wheels, with 215/60R16 tyres
- Rear spoiler ( dealer fit )

## MODEL CODE

MODEL CODE	ENGINE		TRANSMISSION	
	Type	Code	Type	Code
TJ8P41	3.5L V6	E35	4 A/T	D04

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## **Transmission Shift Lever**

The Transmission selector lever has been revised from standard to provide a lock out when moving the shift lever from Drive to Neutral.

## **Isolation Switch**

The rocker switch located on the centre console is used to isolate the interior and trunk compartment light functions when in the OFF position. This is accomplished by interrupting the switch signals to the BEM with the use of a jumper harness placed between the existing harness and the BEM.

Features isolated with the switch in the OFF position are as follows

- Illuminated entry and fade out
- Delayed headlamps OFF
- Horn activation
- Panic function
- Ignition key illumination
- Head lamps on reminder

### **NOTE.**

***The vehicle electrical system can be returned to standard operation with the removal of the jumper harness and re-connection of the main circuitry to the BEM.***

## **Instrument Cluster**

In addition to the standard functions the police combination meter has 2km/h speedometer graduations, instant speed hold and instant speed calibration functions.

### **Instant Speed Hold**

To activate the instant speed hold mode, the “UP & DOWN” buttons should be pushed down together for no more than 1.5 secs while the display is in the Instant speed mode (buzzer will beep once).

The display will stop updating and will display the speed indicated when the buttons were pushed.

To deactivate the display and return to normal operation, push the “UP & DOWN” buttons together again for less than 1.5 secs ( buzzer will beep once).

### **Instant Speed Calibration**

To activate speed calibration mode, push and hold the “DOWN” button while cycling the ignition switch from LOCK – ACC + = ON.

The speed data display segments “——” will flash at 1 Hz.

Push the “MODE” button for more than 2 secs to enter calibration mode (buzzer will beep once).

Start engine and drive vehicle at constant speed within the range of 90 kp/h to 110 kp/h.

Push the “MODE” button for less than 2 secs to trigger auto calibration loop (buzzer will beep once).

Speed will be displayed after auto calibration loop finishes.

Push “MODE” button for greater than 2 secs to return to normal instant speed function (buzzer will beep once)

## **Braking System**

To ensure braking integrity under severe conditions the police vehicle is fitted with brake pads of a different compound to the standard vehicle.

These brake pads should be subjected to a break-in procedure prior to the vehicle being put into service and on each occasion that the pads or the discs are replaced.

### **NOTE.**

***All burnishing activities should be conducted in an environment that minimises exposure to other vehicles and legally allows speeds required to complete procedure .***

The following procedures should be adhered to when bedding in this brake pad material.

1) Conduct 10 to 20 stops under the following conditions:

- . Brake using medium pedal effort from a speed of 60–80 km/h down to a speed of 10 km/h with an interval of 1 to 2 minutes between each operation.  
(The purpose of this procedure is to ensure that the pad contact area is at a reasonable level of no less than 70%)

2) Conduct a maximum of 5 stops under the following conditions:

- . Brake using heavy to medium pedal effort from a speed of 80–100 km/h down to a speed of 30 km/h with an interval of no more than 1 minute between each operation.  
(The purpose of this procedure is to ensure that the pads are exposed to higher than normal operating temperatures under controlled conditions to reduce the possibility of fade characteristics that might be experienced under heavy duty conditions).

## **Chassis Electrical**

To accommodate the requirement for high current accessories, the police vehicle has incorporated into the wiring harness, dedicated fuse boxes, fusible links and power and earth connectors.

Circuit diagrams depicting all changes are attached.

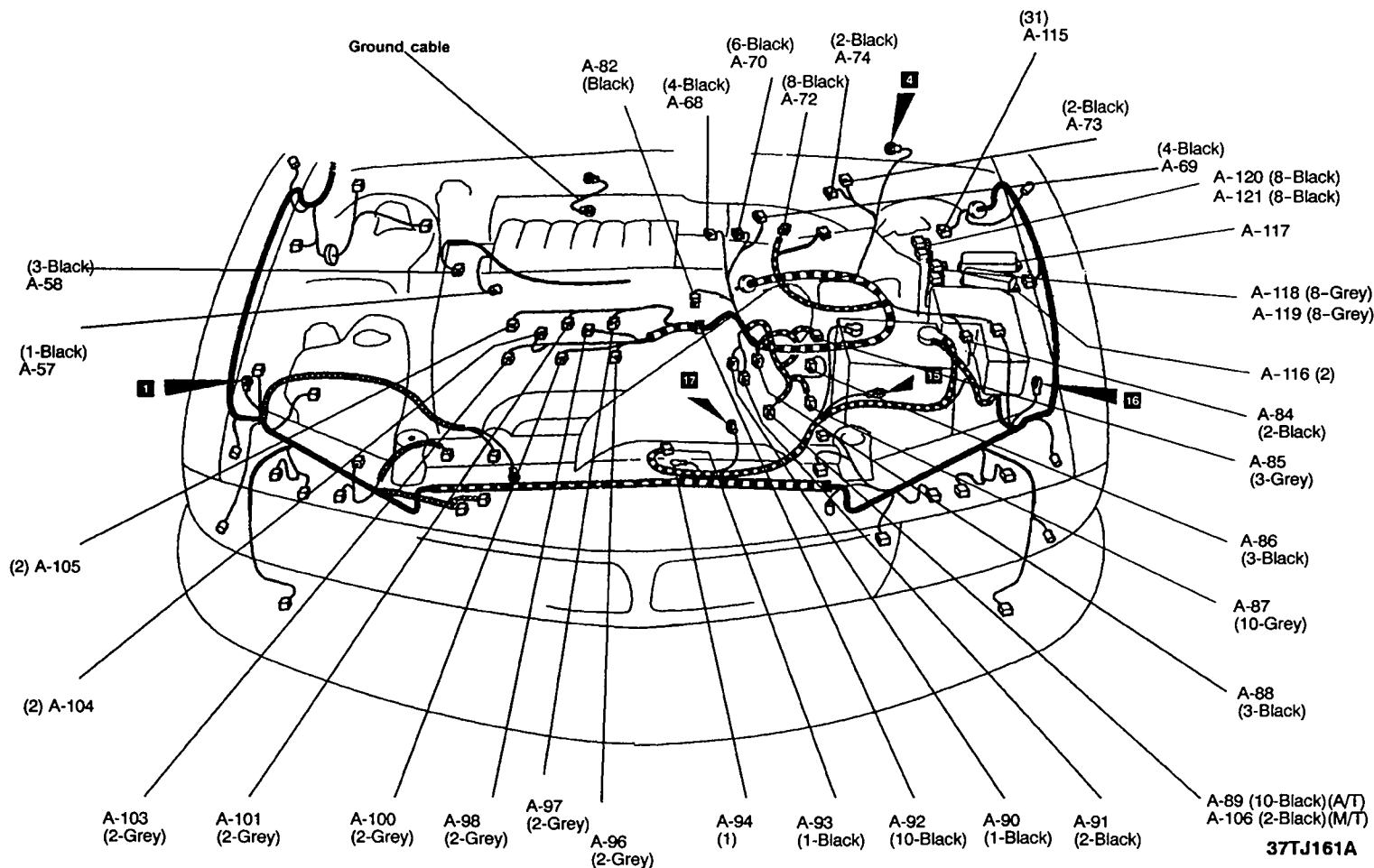
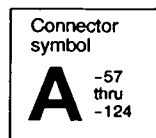
## **Operators Manual**

A Police Specification supplement, Pt No. MR926916 has been produced to accompany the standard operators manual. It is essential that both publications are provided with the vehicle when delivered to the customer.

## **Production Date**

June 2002.

## ENGINE COMPARTMENT &lt;Police&gt;



A-57 Power steering oil pressure switch  
 A-58 Crank angle sensor  
 A-68 Throttle position sensor  
 A-69 Accelerator position sensor  
 A-70 Idle speed control servo  
 A-72 Air flow sensor  
 A-73 Vacuum solenoid valve  
 A-74 Vent solenoid valve  
 A-82 Distributor assembly  
 A-84 Connection of control harness and battery harness

A-85 Output shaft speed sensor  
 A-86 Input shaft speed sensor  
 A-87 A/T control solenoid valve assembly  
 A-88 Vehicle speed sensor  
 A-89 Inhibitor switch (A/T)  
 A-90 Water temperature gauge unit  
 A-91 Water temperature sensor  
 A-92 Connection of control harness and injector harness  
 A-93 Starter

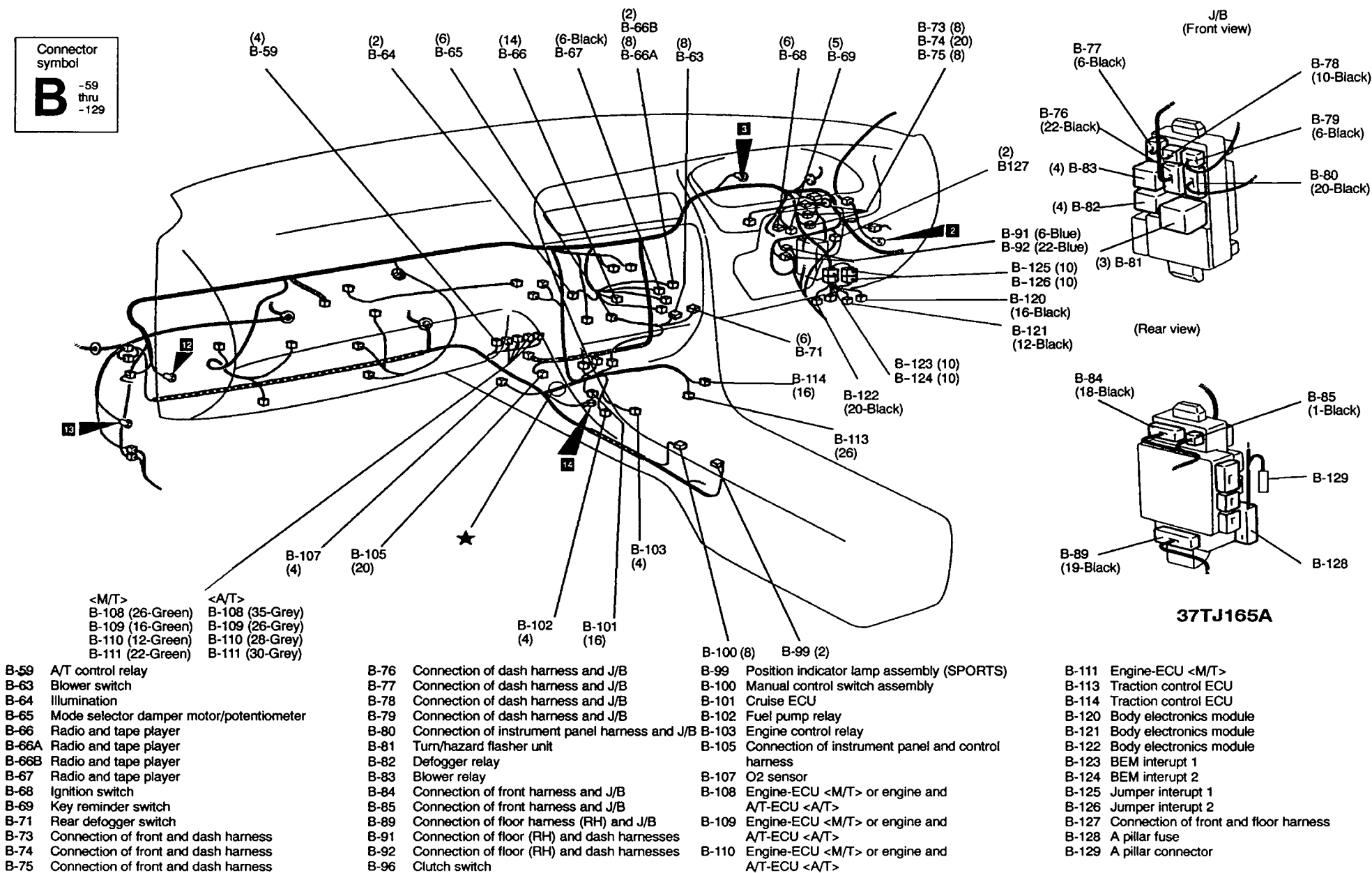
A-94 Starter  
 A-96 Injector (No.6)  
 A-97 Injector (No.5)  
 A-98 EGR solenoid valve  
 A-100 Injector (No.4)  
 A-101 Injector (No.3)  
 A-103 Injector (No.2)  
 A-104 Purge solenoid  
 A-105 Injector (No.1)  
 A-106 Back up lamp switch (M/T)

A-115 ABS-ECU  
 A-116 Fusible Link Box  
 A-117 Police Fuse Box  
 A-118 Power connector (no 1)  
 A-119 Power connector (no 2)  
 A-120 Earth connector (no 1)  
 A-121 Earth connector (no 2)  
 A-124 Fuse Link connector

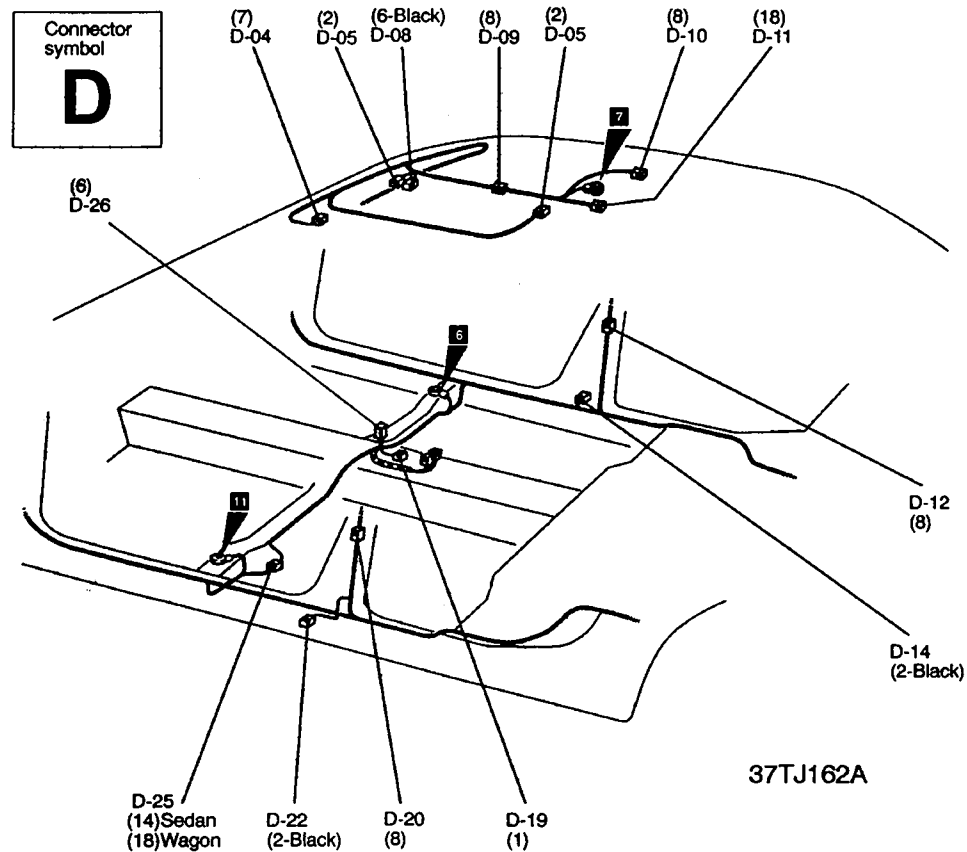
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## DASH PANEL &lt;Police&gt;

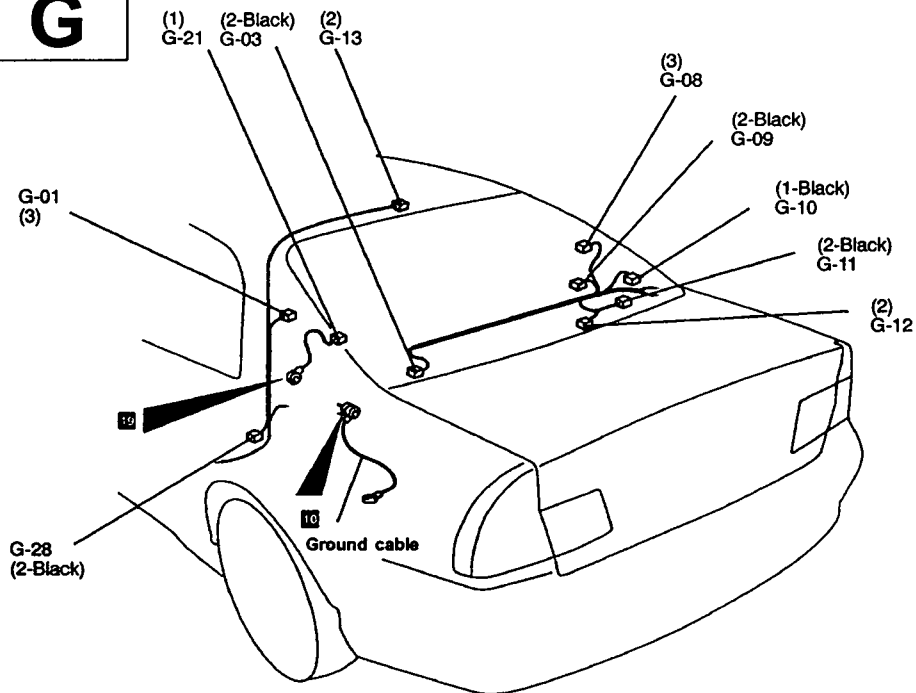
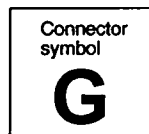


## ROOF &amp; FLOOR



- |      |   |      |   |
|------|---|------|---|
| D-04 | EC Mirror   | D-14 | Front door switch (RH)                                |
| D-05 | Overhead lamp   | D-19 | Park brake switch                                     |
| D-06 | Map lamp  | D-20 | Connection of floor (LH) and rear door harnesses (LH) |
| D-08 | Sunroof switch  | D-22 | Front door switch (LH)                                |
| D-09 | Connection of roof and sunroof harnesses              | D-25 | Connection of floor (RH) and floor (LH) harnesses     |
| D-10 | Sunroof motor   | D-26 | Isolation switch connection (stealth mode switch)     |
| D-11 | Sunroof ECU   |      |   |
| D-12 | Connection of floor (RH) and rear door harnesses (RH) |      |   |

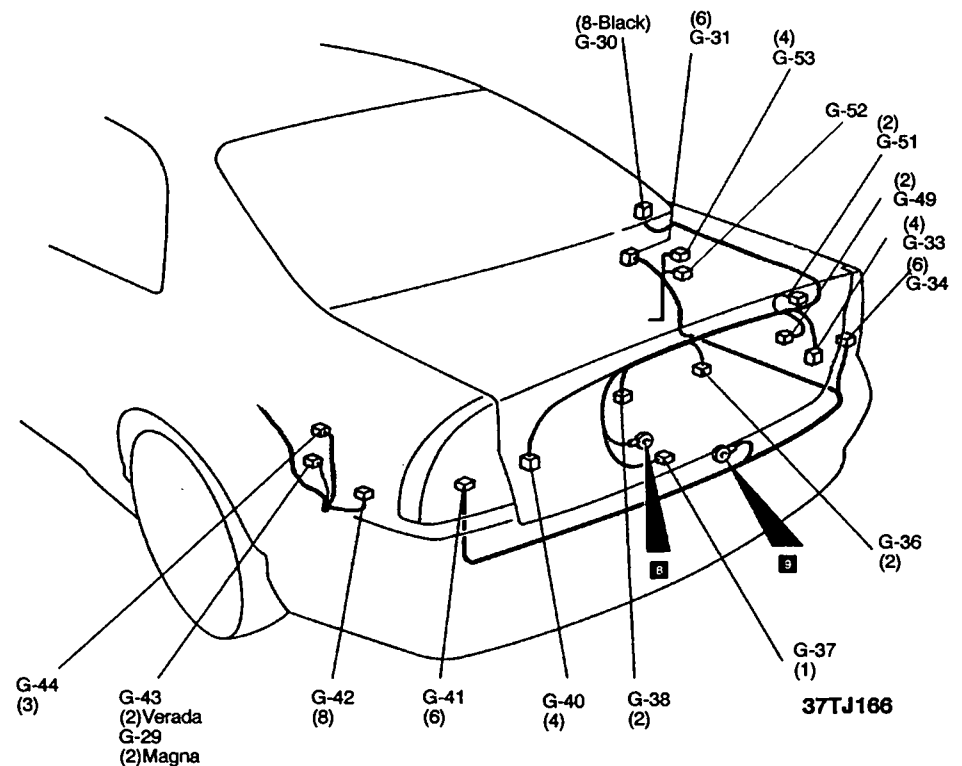
## TRUNK ROOM &lt;Police&gt;



37TJ163A

G-01 Rear personal lamp (LH)  
G-03 Rear speaker (LH)  
G-08 Rear personal lamp (RH)  
G-09 Rear door switch (RH)  
G-10 Defogger  
G-11 Rear speaker (RH)

G-12 Trunk room lamp  
G-13 High mount stop lamp (Rear Shelf)  
G-21 Defogger earth cable  
G-28 Rear door switch (LH)

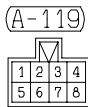
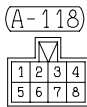
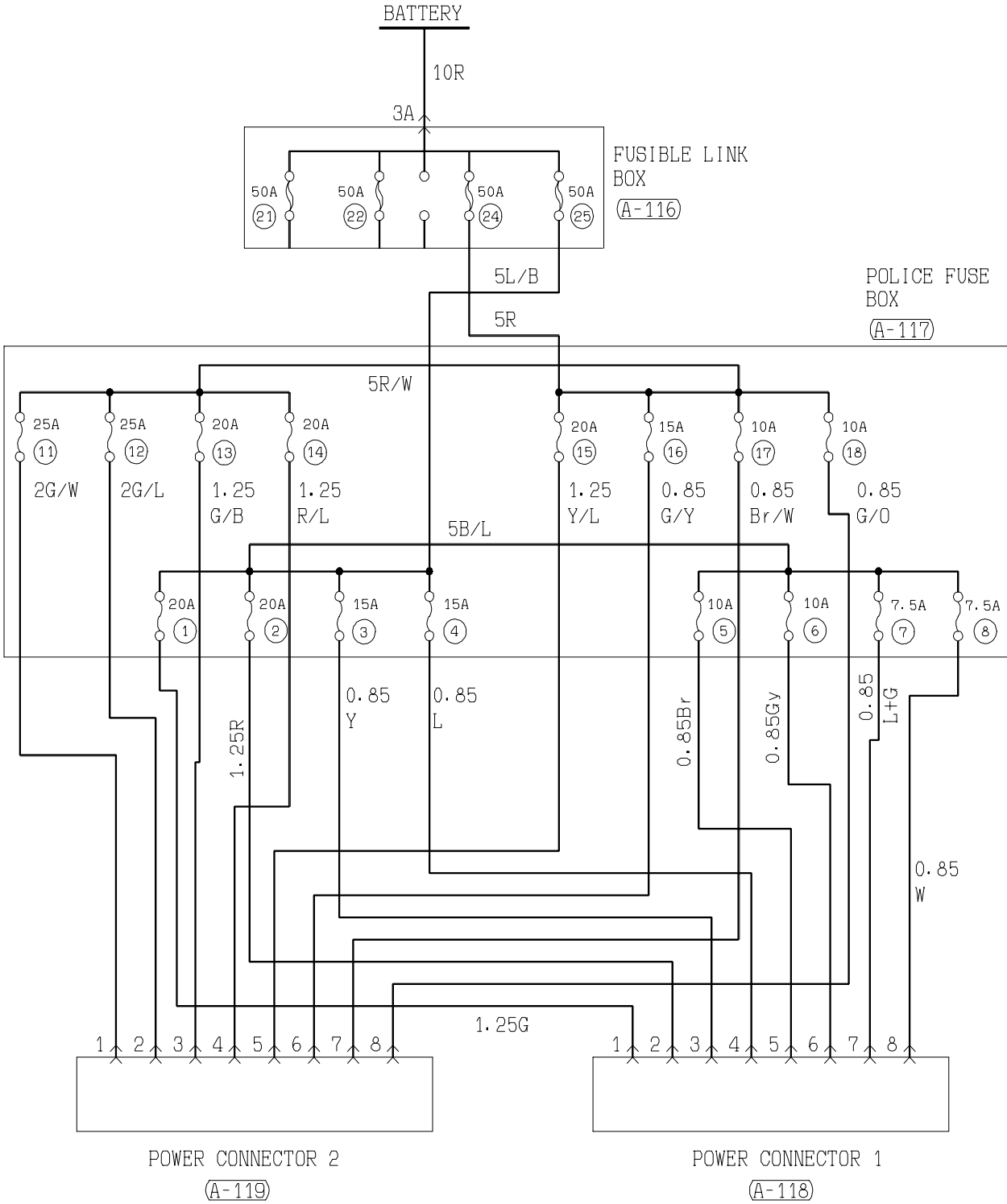


37TJ166

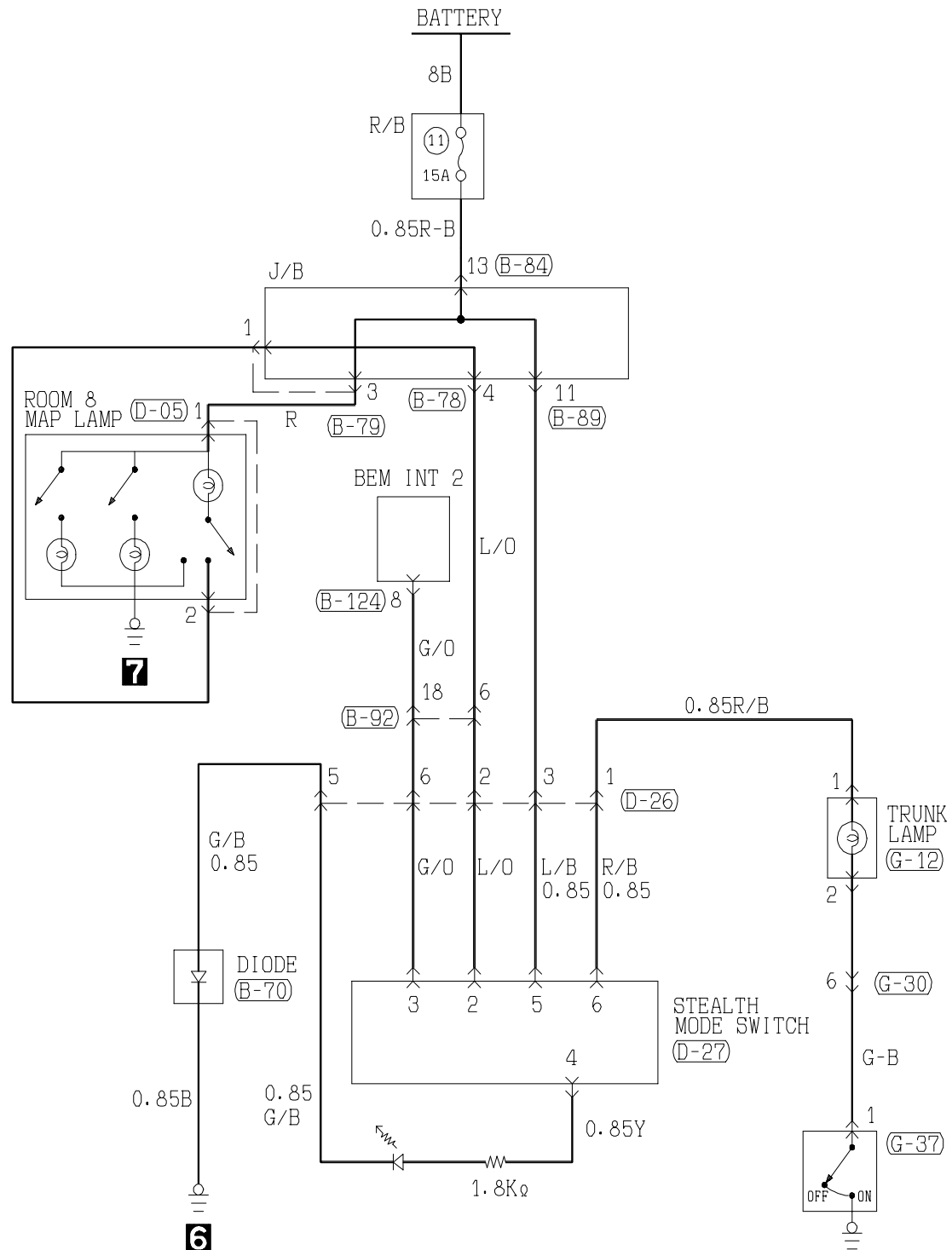
G-30 Connection of floor (RH) and rear lid harnesses  
G-31 Connection of floor (RH) and trunk room harnesses  
G-33 Rear lid lamp (RH)  
G-34 Rear combination lamp (RH)  
G-36 License plate lamp (RH)  
G-37 Trunk room lamp switch  
G-38 License plate lamp (LH)  
G-40 Rear lid lamp (LH)

G-41 Rear combination lamp (LH)  
G-42 Trunk lid and fuel tank door opener relay  
G-43 Trunk lid and fuel tank door opener actuator  
G-44 Motor antenna  
G-49 Trunk key switch  
G-51 High mounted stop lamp (Rear spoiler)  
G-52 Trunk Fuse  
G-53 Radio connector

POWER DISTRIBUTION



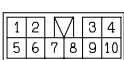
# STEALTH MODE SWITCH



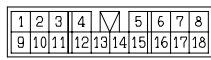
(B-70)



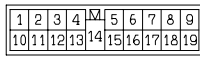
(B-78)



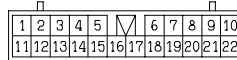
(B-84)



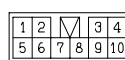
(B-89)



(B-92)



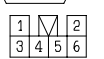
(B-124)



(D-05)



(D-26)



(G-12)



(G-30)



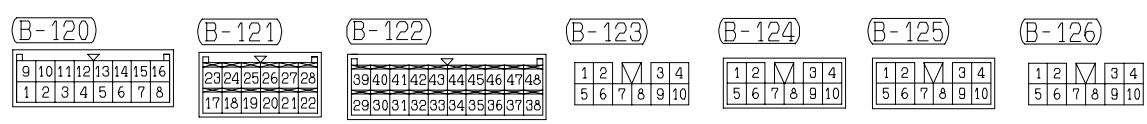
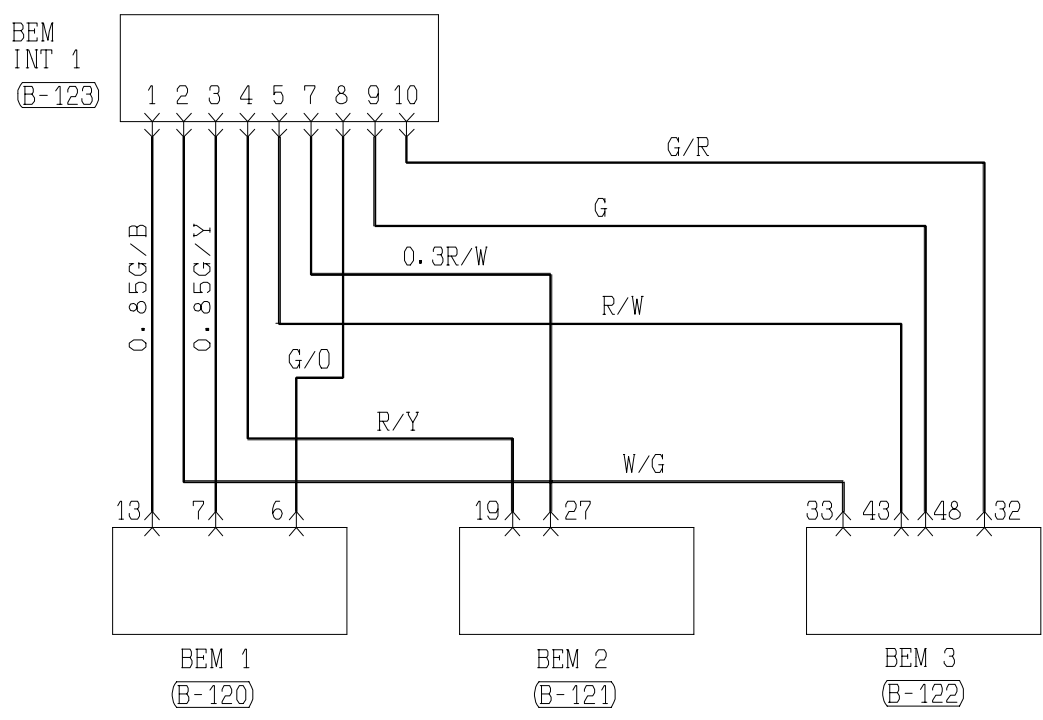
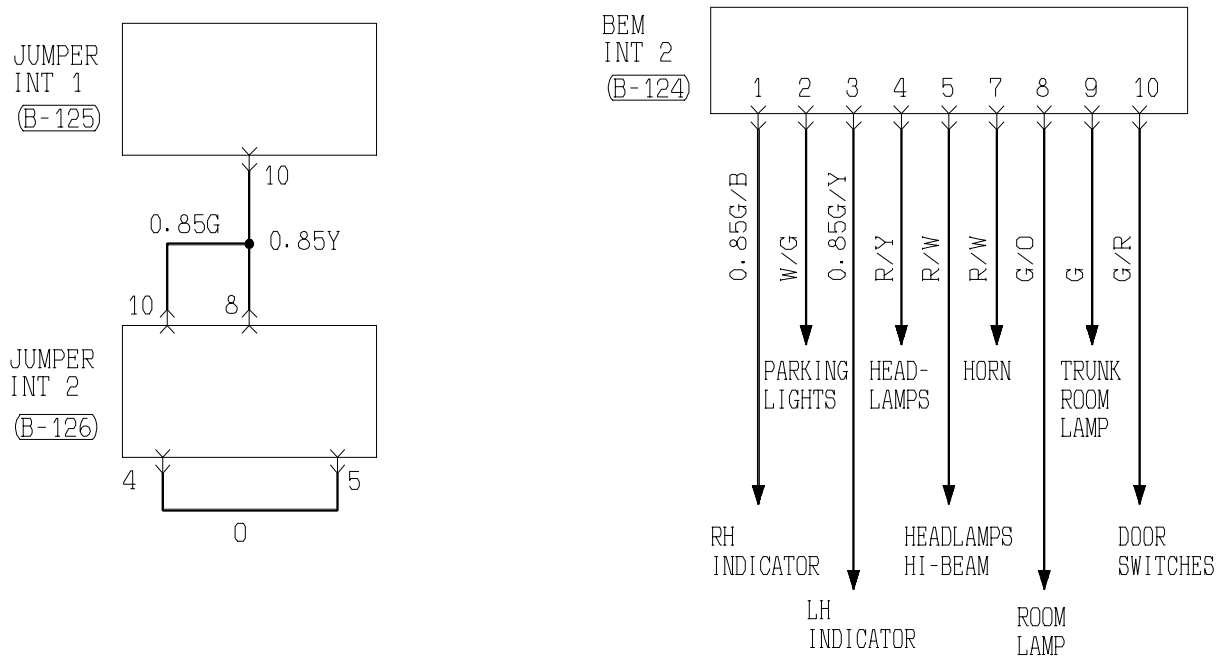
(G-37)



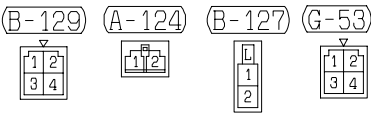
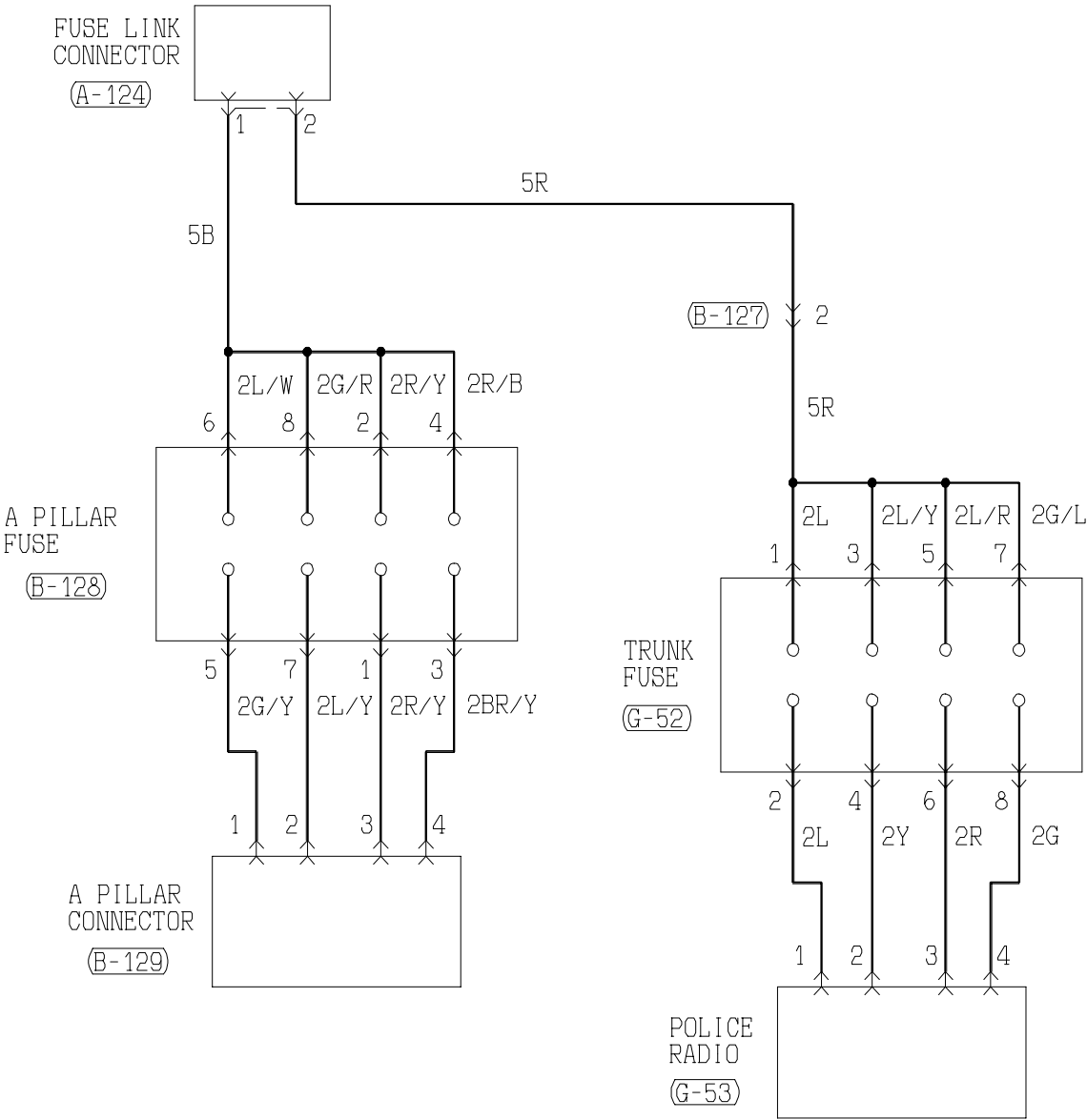
(B-79)



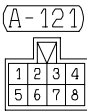
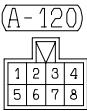
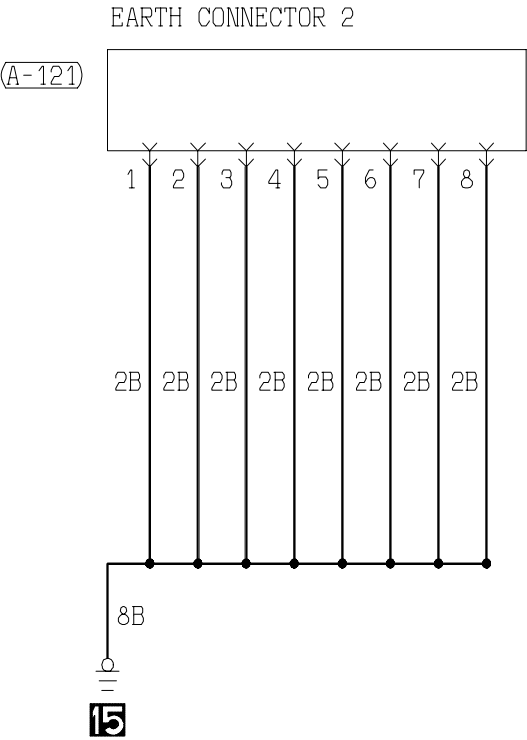
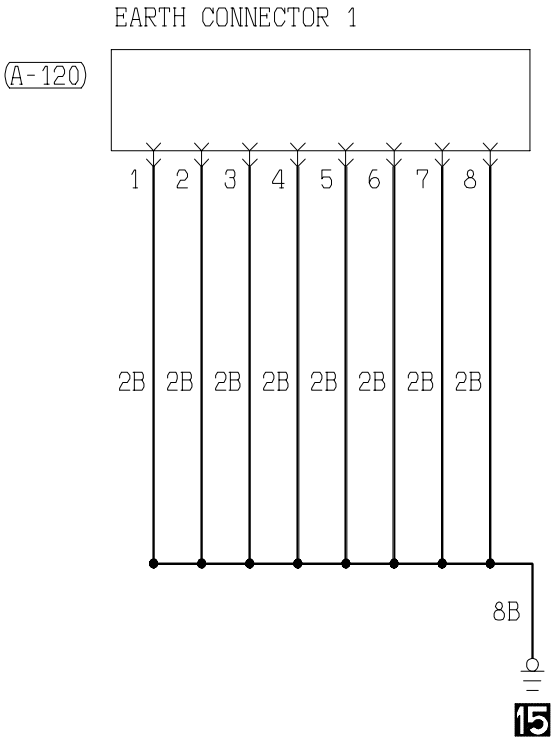
BEM INTERRUPTS AND JUMPERS



A PILLAR, TRUNK FUSE AND CONNECTORS

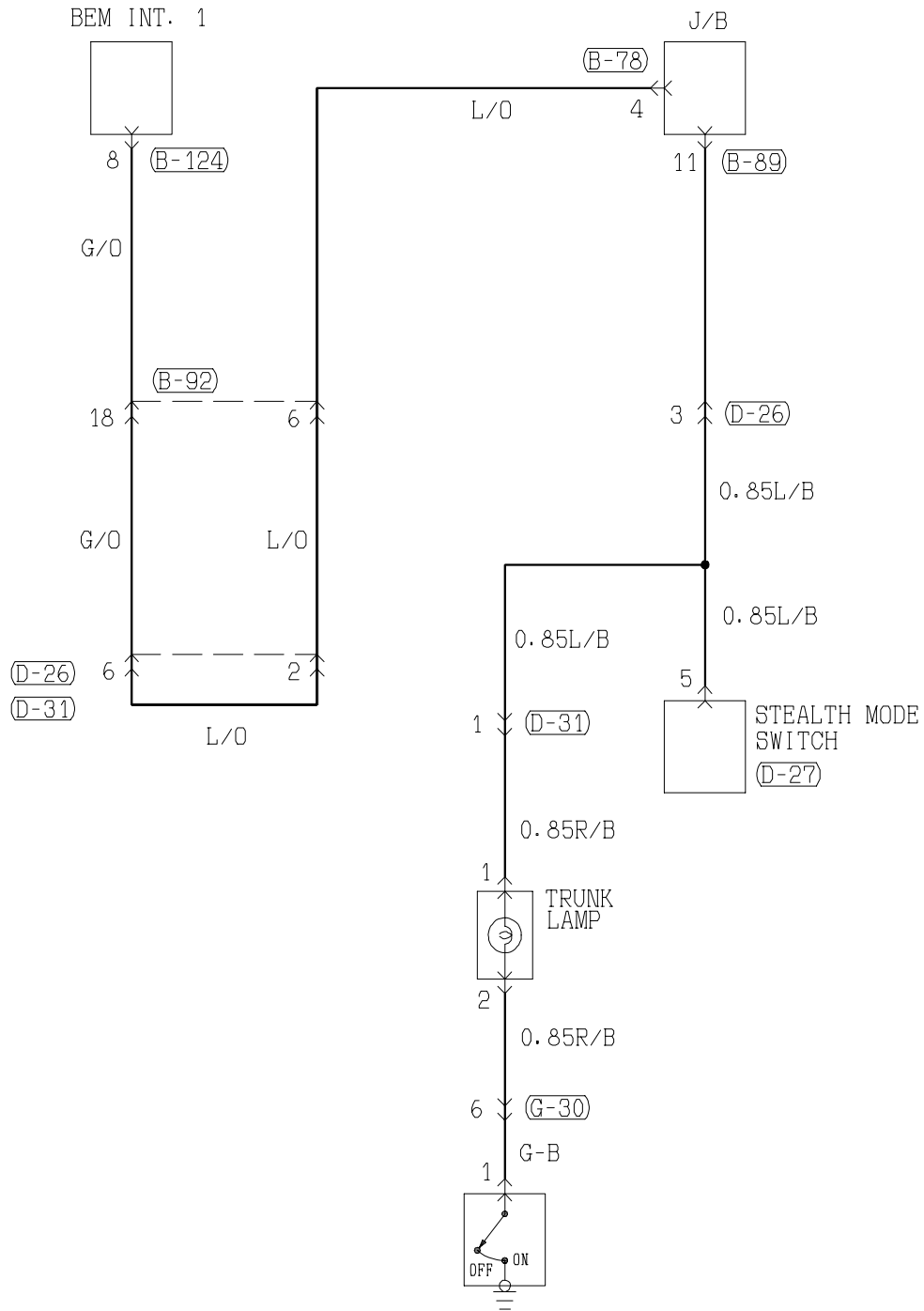


EARTH CONNECTORS





# ISOLATION SWITCH JUMPER (DE-COMMISSIONED)



<b>(B-78)</b>	<b>(B-89)</b>	<b>(B-92)</b>	<b>(B-124)</b>	<b>(D-26)</b>	<b>(D-31)</b>
1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6	1 2 3 4 5 6
<b>(G-30)</b>					
1 2 3 4 5 6					



**MITSUBISHI MOTORS  
AUSTRALIA LTD.**

A.C.N. 067 570 995

# SERVICE BULLETIN

**GROUP:**00 – General Information

**DATE:** July 2002

**NO.** 00/2002/005

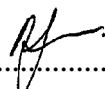
**MODEL:** CE Lancer

**SUBJECT:** Correction to operators handbook

**COUNTRIES:**

Australia

R.I.WYATT  
MANAGER - WARRANTY &  
TECHNICAL PUBLICATIONS

.....  


**Bulletin Consists of 2 Pages**

## Purpose

The purpose of this bulletin is to advise of corrections to the operators manual as supplied with the CE Lancer.

- 1) The statement relating to the electric windows being operational for a period of 30 seconds after the ignition is turned off is incorrect.
- 2) The procedure to restore the window operation after battery power has been disconnected is unnecessary and has been deleted.

Operators manuals from Pt No. **MR963691-B** contain the correct information.

## Applicable vehicles

All CE model Lancer vehicles

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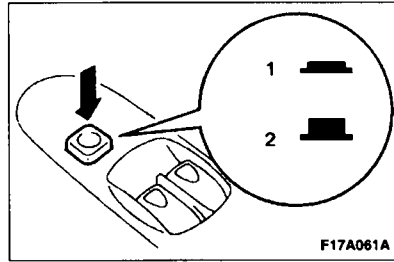
### Driver's switches

The driver's switches can be used to operate all door windows. A window can be opened or closed by operating the corresponding switch.

Press the switch down to open the window, and pull up the switch to close it.

If the switch for the driver's window is fully pressed down, the door window automatically opens completely.

If you want to stop the window movement, operate the switch lightly.



Change to  
" Pull up on switch "

### Passenger's switches

The passenger's switches can be used to operate the corresponding passenger's door windows.

Press the switch down for opening the window, and pull up the switch for closing.

**NOTE**  
The door windows can be opened or closed for a 30-second period after the ignition switch is turned off. However, once the driver's door or the front passenger's door is opened, the windows cannot be operated.

### Lock switch

When this switch is operated, the passenger's switches cannot be used to open or close the door windows and the driver's switch cannot open or close any door windows other than the driver's door windows.

To unlock, press it once again.

- 1- Lock
- 2- Unlock

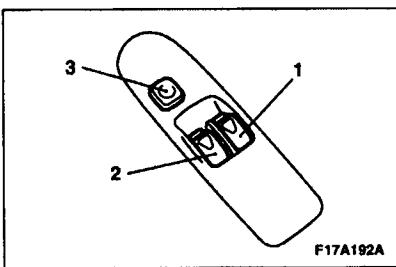
### **WARNING**

A child may tamper with the switch at the risk of its hands or head becoming trapped by the window. When driving with a child in the vehicle, be sure to press the window lock switch to make the passenger's switches inoperative.

**NOTE**  
Repeated operation with the engine stopped will run down the battery. Operate the window switches only while the engine is running.

INCORRECT

## Locking and unlocking



### Electric window control\*

EF17ACB

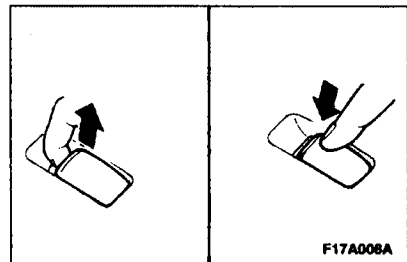
The electric windows can only be operated with the ignition switch in the "ON" position.

Each door window opens or closes while the corresponding switch is pressed.

- 1- Driver's door window
- 2- Front passenger's door window
- 3- Lock switch

### **WARNING**

- (1) Before operating the electric window control, make sure that nothing is capable of being trapped (head, hand, finger, etc.).
- (2) Never leave the vehicle without removing the key.
- (3) Never leave a child or other person who might not be capable of safe operation of the electric window control switch in the vehicle alone.



### **NOTE**

Once the battery cable is disconnected, or the fuse is replaced, it may happen that the door glasses cannot operate normally even after reconnecting the battery cable. In such a case, take the following steps with all the door windows.

Pull the power window switch repeatedly to close the door window completely if it is open. After it is completely closed, pull the switch again for one second, and the door window will restore its normal operation.

INCORRECT



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# SERVICE BULLETIN

**GROUP:**00 – General Information

**DATE:** July 2002

**NO.** 00/2002/006

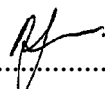
**MODEL:** ALL

**SUBJECT:** Introduction of revised Service and Warranty book

**COUNTRIES:**

Australia

R.I.WYATT  
MANAGER - WARRANTY &  
TECHNICAL PUBLICATIONS

.....

**Bulletin Consists of 1 Page**

## Purpose

The purpose of this bulletin is to advise of the introduction of a revised Service and Warranty book **Pt No. MR928661**. This book will be introduced as a running change, effective from July 2002.

## Changes

1. Revised company logo added
2. MMAL website address added
3. National dealer list deleted
4. Explanation of Warranty expanded to include Ralliart Vehicles
5. Specific service intervals added for Direct Injected Diesel engines

## Publication

Service and Warranty book Pt No. **MR928661** replaces MR926993

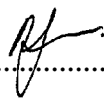
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# SERVICE BULLETIN

<b>GROUP:</b> 00 – General Information	<b>DATE:</b> July 2002	<b>NO.</b> 00/2002/007
<b>MODEL:</b> CG Lancer	<b>SUBJECT:</b> Introduction of CG Model Lancer	
<b>COUNTRIES:</b>  Australia	R.I.WYATT MANAGER - WARRANTY & TECHNICAL PUBLICATIONS	
	<b>Bulletin Consists of 3 Pages</b>	

The purpose of this bulletin is to advise of the introduction of the all new Lancer sedan with increased safety capability, interior space and a larger capacity engine.

## Model Range

CG5H41 Lancer Sedan LS Model	All new model – Replaces CE3H41
CG6H41 Lancer Sedan LS Auto	All new model – Replaces CE4H41
CG5S41 Lancer Sedan VRX Manual	All new model
CG6S41 Lancer Sedan VRX Auto	All new model
CG6P41 Lancer Sedan Exceed Auto	All new model

## Engine Specifications

Engine type	• 2.0L SOHC
Engine model	• 4G94
Capacity	• 1,999cc
Bore and Stroke	• 81.5 x 95.8
Compression ratio	• 9.5
Power	• 92kW @ 5,500rpm
Torque	• 173Nm @ 4,250rpm

## Features

### Increased Safety

- Driver and passenger Air bag
- ABS option (Standard on Exceed)
- Front seat belt pre tensioners (Electric)
- New body with increased rigidity
- Safety enhanced front seat design

Remote keyless central door locking

Air conditioning

Power windows

Colour coded electric door mirrors

Drivers seat height adjuster

Immobiliser

Power steering

Radio/CD (6 Stacker CD standard on Exceed)

14" Wheels on LS and Exceed Models

15" Wheels on VRX Models

Space saver spare wheel

Sunroof option on all models

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## **SERVICE SPECIFICATIONS**

ITEMS		STANDARD VALUES
Basic ignition timing		5° BTDC $\pm$ 3°
Idle speed r/min		700 $\pm$ 50
CO %		0.5% or less
Spark Plug type	NGK	BKR5E-11
	Denso	K16PR-U11
	Champion	RC10YC4
Maximum cylinder compression variance		98kPa ( 200 r/min)
Valve clearance (HOT)	Intake Valve	0.20 mm
	Exhaust Valve	0.30 mm
Oil Pressure	At idle	29kPa Minimum
	At 3,500 r/min	294kPa – 686kPa
Fuel Pressure	Vacuum hose connected	$\approx$ 265 kPa at curb idle
	Vacuum hose disconnected	324–343 kPa at curb idle
Front Suspension	Toe in angle (per wheel )	0° 03' $\pm$ 06'
	Toe in at centre of tread	1 $\pm$ 2 mm
	Camber	0°00' $\pm$ 30' *
	Caster	2°50' $\pm$ 30' *
Rear Suspension	Toe in angle (per wheel )	0° 09' $\pm$ 06'
	Toe in at centre of tread	3 $\pm$ 2 mm
	Camber	-0°40' $\pm$ 30' *

NOTE:

\*: Difference between right and left wheels less than 30'

## **LUBRICATION**

Engine	API classification “ for service SG” or higher	3.8L
Transmission(Auto)	ELC-4 SP III	7.7L
Transmission(Manual)	SAE 75W-90 or 75W-85W API GL-4 Gear oil	2.2L
Power Steering	Mitsubishi power steering fluid	0.6L
Brake fluid	DOT 3 or DOT 4	As Required
Clutch fluid	DOT 3 or DOT 4	As Required
Coolant	Mitsubishi genuine coolant	6.0L
Refrigerant	HFC-134a	480 – 520 g

## **MODEL CODES**

MODEL CODE	ENGINE		TRANSMISSION	
	Type	Code	Type	Code
CG5H41	2.0L S4 (4G94)	E35	5 M/T (F5M42)	D14
CG6H41	2.0L S4 (4G94)	E35	4 A/T (F4A42)	D15
CG5S41	2.0L S4 (4G94)	E35	5 M/T (F5M42)	D14
CG6S41	2.0L S4 (4G94)	E35	4 A/T (F4A42)	D15
CG6P41	2.0L S4 (4G94)	E35	4 A/T (F4A42)	D15

## **PAINT REPAIR CODES**

MMAL CODE	MMC CODE	PAINT COLOUR	PAINT REPAIR CODES			
			SPIES/HECKER	PPG	SPARTAN	GLASURIT
RT	A69	SATELLITE SILVER	72964	9JM9B	21750	55-MIT-A69
NF	T38	NARES BLUE	55897	KEM2B	22234	55-MAU-NF
YH	G13	FORESTA GREEN	66858	WJW8B	24026	–
BC	W83	SCOTIA WHITE	16718	44516	19721	22-MAU-210 4
YW	R20	ROSE RED	35650	XDX3B	24170	–
YY	X42	AMETHYST BLACK	75830	XHC1B	24180	–

## **OPERATORS MANUALS**

Operators Manual Pt No. **MR963691** is provided with the vehicle and it is essential that this publication is in the vehicle when delivered to the customer.

Service and Warranty books Pt No. **MR926993** and Pt No. **MR928661** are both suitable for fitment to the CG Lancer.

## **SERVICE INFORMATION**

An electronic Workshop manual in CD format is currently being prepared for distribution, however Engine Manual Pt No **PWEE9502–H** and Transmission Manuals Pt No **PWEE9508** (M/T) and Pt No **PWEE9514** (A/T) have previously been issued to cover those components fitted to the CG Lancer range. Any dealer requiring technical information prior to the workshop manual distribution should contact Technical Support at MMAL at 1300–131211

## **AUDIO MANUAL and WARRANTY PROCEDURES**

Audio Instruction booklet Pt No. **MR924704** should be provided with the vehicle.

Should the Audio unit require repairs during the warranty period, then the existing Audio change over system is to be utilised.

## **PRE-DELIVERY INFORMATION**

Threaded rubber inserts for attaching the rear licence plate are supplied with the vehicle. These inserts Pt No. MR991280 should be inserted into the pre-drilled holes of the rear bumper and the licence plate screwed to them. Ensure that the attached foam blocks adequately support the lower edge of the licence plate to prevent vibration.

## **PRODUCTION DATE**

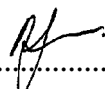
June 2002

**MITSUBISHI**

# SERVICE BULLETIN

**GROUP:** 00 – General Information**DATE:** August 2002**NO.** 00/2002/008**MODEL:** CE Lancer/Mirage**SUBJECT:** 03 M/Y CE Lancer/Mirage**COUNTRIES:**

Australia

R.I.WYATT  
MANAGER - WARRANTY &  
TECHNICAL PUBLICATIONS  
.....**Bulletin Consists of 2 Pages**

This bulletin is to advise of the introduction of the 03 M/Y CE Lancer / Mirage range of vehicles.

### Model Range

There are no specification changes between 02 and 03 Model Year Lancer/Mirage, however , Forester Green has been replaced by Lofty Green.

MODEL CODE	ENGINE		TRANSMISSION	
	Type	Code	Type	Code
CE1M21	1.5L S3 MPI	E31	5 M/T	D10
CE2M21	1.5L S3 MPI	E31	4 A/T	D12
CE3M21	1.8L S4 MPI	E34	5 M/T	D11
CE4M21	1.8L S4 MPI	E34	4 A/T	D13
CE3P21	1.8L S4 MPI	E34	5 M/T	D11
CE4P21	1.8L S4 MPI	E34	4 A/T	D13
CE1M24	1.5L S3 MPI	E31	5 M/T	D10
CE2M24	1.5L S3 MPI	E31	4 A/T	D12
CE3M41	1.8L S4 MPI	E34	5 M/T	D11
CE4M41	1.8L S4 MPI	E34	4 A/T	D13
CE5H45	1.8L S4 MPI	E28	5 M/T	D26
CE6H45	1.8L S4 MPI	E28	4 A/T	D56

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## **PAINT REPAIR CODES**

MMAL CODE	MMC CODE	PAINT COLOUR	PAINT REPAIR CODES			
			SPIES/ HECKER	PPG	SPARTAN	GLASURIT
RT	A69	SATELLITE SILVER	72964	9JM9B	21750	55-MIT-A69
NF	T38	NARES BLUE	55897	KEM2B	22234	55-MAU-NF
BC	W83	SCOTIA WHITE	16718	44516	19721	22-MAU-210 4
YW	R20	ROSE RED	35650	XDX3B	24170	–
SK	P85	PALMA RED	33106	47845	21253	22-MIT-P85
ZR	G44	LOFTY GREEN	24662	–	24179	–
YY	X42	AMETHYST BLACK	75830	XHC1B	24180	–

## **OPERATORS MANUALS**

Operators Manual Pt No. **MN144023** is provided with the vehicle and it is essential that this publication is in the vehicle when delivered to the customer.

Service and Warranty books Pt No. **MR926993** and Pt No. **MR928661** are both suitable for fitment to the CE Lancer / Mirage range of vehicles.

## **AUDIO MANUAL and WARRANTY PROCEDURES**

Audio Instruction booklet Pt No. **MR924704** should be provided with the vehicle.

Should the Audio unit require repairs during the warranty period, then the existing Audio change over system is to be utilised.

## **PRODUCTION DATE**

June 2002



MITSUBISHI

# SERVICE BULLETIN

**GROUP:**00 – General Information

**DATE:** August 2001

**NO.** 00/2002/009

**MODEL:** WA Starwagon

**SUBJECT:** 03 M/Y WA Starwagon Introduction

**COUNTRIES:**

Australia

R.I.WYATT  
MANAGER - WARRANTY &  
TECHNICAL PUBLICATIONS

.....

**Bulletin Consists of 2 Pages**

The purpose of this bulletin is to advise of the introduction of the 03 MY Starwagon. The model codes will remain as **WA** with the option code of **M03** to identify the model year.

There are no specification changes between 02 and 03 Model Year Starwagon and Express.

## MODEL CODES

MODEL CODE	ENGINE		TRANSMISSION	
	Type	Code	Type	Code
WA9M35	2.4L S4 MPI	E10	5 M/T	D26
WA6M35	2.4L S4 MPI	E10	4 A/T	D47
WA4H35	2.4L S4 MPI	E63	4 A/T	D44
WA3M99	2.4L S4 MPI	E63	5 M/T	D26
WA4M99	2.4L S4 MPI	E63	4 A/T	D44

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## **PAINT REPAIR CODES**

<b>MMAL CODE</b>	<b>MMC CODE</b>	<b>PAINT COLOUR</b>	<b>PAINT REPAIR CODES</b>			
			<b>SPIES/ HECKER</b>	<b>PPG</b>	<b>SPARTAN</b>	<b>GLASURIT</b>
WX	W09	SOPHIA WHITE	16007	39422	17506	22-MAU 21029
BS	R42	PAMIR RED	30189	44520	19734	27MAU 23021
BR	S33	JIZAN BEIGE	10449	44519	19733	22MAU 21007
YW	R20	ROSE RED	35650	XDX3B	24170	–
NK	T36	LAPIS BLUE	55896	KEL9B	22088	55MAU NK
AG	G60	TIMBER GREEN	65087	KTR3B	22242	55MAU AG
ME	A26	SYMPHONIC SILVER	72251	47137	20271	55MIT A26
YY	X42	AMETHYST BLACK	75830	XHC1B	24180	–
UV	A37	LEGATO GREY	74117	KEM1B	22233	55MAU UV

## **TWO TONE CODES**

<b>MMAL CODES</b>	<b>MMC CODES</b>	<b>PAINT COLOURS</b>
KU	F8U	TIMBER GREEN / SYMPHONIC SILVER
AM	J2U	AMETHYST BLACK / LEGATO GREY

## **OPERATORS MANUAL**

Operators Manual Pt No. **MR963419** is provided with the vehicle and it is essential that this publication is in the vehicle when delivered to the customer.

## **PRODUCTION DATE**

June 2002



MITSUBISHI

# SERVICE BULLETIN

**GROUP:**00 – General Information

**DATE:** August 2002

**NO.** 00/2002/010

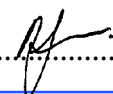
**MODEL:** UG Nimbus

**SUBJECT:** 03 MY Introduction

**COUNTRIES:**

Australia

R.I.WYATT  
MANAGER - WARRANTY &  
TECHNICAL PUBLICATIONS

.....

**Bulletin Consists of 2 Pages**

The purpose of this bulletin is to advise of the introduction of the 03 MY Nimbus. The model code for Nimbus will remain as **UG** with the option code of **M03** to identify the model year.

## CHANGE DETAILS

All Nimbus will come standard with climate control front and rear air conditioning.

An all new 15" alloy wheel will be available with the fog lamp and ABS option pack.

New option packs

- **A54:** ABS, fog lamps
- **A55:** ABS, fog lamps, 15" Alloy wheels

New Paint colours

- Marble White
- Pyreness Black.

## MODEL RANGE

MODEL CODE	ENGINE		TRANSMISSION	
	Type	Code	Type	Code
UG3P45	2.4L S4 MPI	E06	5 M/T	D51
UG4P45	2.4L S4 MPI	E06	4 A/T	D55

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## **PAINT REPAIR CODES**

MMAL CODE	MMC CODE	PAINT COLOUR	PAINT REPAIR CODES			
			SPIES/ HECKER	PPG	SPARTAN	GLASURIT
RT	A69	SATELLITE SILVER	72964	9JM9B	21750	55-MIT-A69
RC	F76	ALAMOANA GREEN	61891	47844	21254	55-MIT-F76
ZH	U54	MILLENIUM SILVER	24659	–	–	–
WQ	W32	MARBLE WHITE	22372	2MK7B	22328	22-MIT-W32
ZU	V01	INKA	24661	–	24178	–
KF	X08	PYRENESS BLACK	70882	6JE2B	–	–

## **OPERATORS MANUAL**

Operators Manual Pt No. MR963756 is provided with the vehicle and it is essential that this publication is in the vehicle when delivered to the customer.

## **AUDIO SECURITY CODES**

The Audio unit is now fitted during manufacture by MMC and there are two cards with the radio security code located in the glove box. Please ensure that these cards are supplied to the owner at time of vehicle delivery

## **PRODUCTION DATE**

May 2002



MITSUBISHI

# SERVICE BULLETIN

**GROUP:**00 – General Information

**DATE:** October 2002

**NO.** 00/2002/011

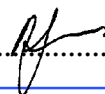
**MODEL:** PA Challenger

**SUBJECT:** 03 M/Y PA Challenger Introduction

**COUNTRIES:**

Australia

R.I.WYATT  
MANAGER - AFTERSALES  
TECHNICAL SUPPORT

.....

**Bulletin Consists of 2 Pages**

The purpose of this bulletin is to advise of the introduction of the 03 MY Challenger. The model codes will remain as **PA** with the option code of **M03** to identify the model year.

## SPECIFICATION CHANGES

Upgraded 16" alloy wheels with unique design for base and LS Models.  
Atlantic Green (AS) replaces Timber Green (AG) in both Mono and two tone applications

## MODEL CODES

MODEL CODE	ENGINE		TRANSMISSION	
	Type	Code	Type	Code
PA1P45	V6 3.0L S4	E05	5 M/T	D62
PA2P45	V6 3.0L S4	E05	4 A/T	D19
PA2P45 LS	V6 3.0L S4	E05	4 A/T	D19

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## **PAINT REPAIR CODES**

<b>MMAL CODE</b>	<b>MMC CODE</b>	<b>PAINT COLOUR</b>	<b>PAINT REPAIR CODES</b>			
			<b>SPIES/ HECKER</b>	<b>PPG</b>	<b>SPARTAN</b>	<b>SIKKENS</b>
WX	W09	SOPHIA WHITE	16007	39422	17506	—
ZY	T11	GRAND BLUE	83220	—	—	—
RT	A69	SATELLITE SILVER	72964	9JM9B	21750	—
AS	G70	ATLANTIC GREEN	—	—	—	MIT9217
RG	P78	ROANNE RED	33136	47846	21252	—
RH	S74	FRASER BEIGE	20668	47847	21251	—
KF	X08	PYRENESS BLACK	70882	6JE2B	—	—
QB	W75	GALAXY WHITE	—	47299	20908	—

## **TWO TONE CODES**

<b>MMAL CODES</b>	<b>MMC CODES</b>	<b>PAINT COLOURS</b>
ZZ	B1E	GRAND BLUE / FRASER BEIGE
AT	F3S	ATLANTIC GREEN / FRASER BEIGE
ZD	P4S	ROANNE RED / FRASER BEIGE
AD	N3S	SOPHIA WHITE / FRASER BEIGE
ZC	X3E	PYRENESS BLACK / FRASER BEIGE

## **OPERATORS MANUAL**

Operators Manual Pt No. **MR963908–A** is provided with the vehicle and it is essential that this publication is in the vehicle when delivered to the customer.

## **PRODUCTION DATE**

June 2002



MITSUBISHI

# SERVICE BULLETIN

**GROUP:**00 – General Information

**DATE:** August 2001

**NO.** 00/2002/012

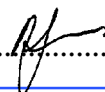
**MODEL:** MK Triton

**SUBJECT:** 03 M/Y MK Triton Introduction

**COUNTRIES:**

Australia

R.I.WYATT  
MANAGER - WARRANTY &  
TECHNICAL PUBLICATIONS

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**Bulletin Consists of 3 Pages**

The purpose of this bulletin is to advise of the introduction of the 03 MY Triton. The model codes will remain as **MK** with the option code of **M03** to identify the model year.

## SPECIFICATION CHANGES

### GL

- New split bench front seat with fabric trim
- AM/FM Radio cassette with 2 speakers

### GLX (V6 and Diesel models only)

- Driver and passenger Airbags available as an option. (A05)

### GLS

- Dress up pack (option code A08) comprising
  - Driver and passenger airbags
  - Leather covered steering wheel
  - Leather covered gearshift and transfer shift levers
  - Chrome interior and exterior door handles
  - Chrome surround grille

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## **MODEL CODES**

MODEL CODE	ENGINE		TRANSMISSION	
	Type	Code	Type	Code
MK3L27	2.4L MPI	E63	5 M/T	D26
MK7H27	3.0L V6	E05	5 M/T	D26
MK8H27	3.0L V6	E05	4 A/T	D18
MK3H23	2.4L MPI	E63	5 M/T	D26
MK3H47	2.4L MPI	E63	5 M/T	D26
MK7H47	3.0L V6	E05	5 M/T	D26
MK8H47	3.0L V6	E05	4 A/T	D18
MK7W27	3.0L V6	E05	5 M/T	D62
MK5W27	2.8L DIESEL	E26	5 M/T	D62
MK7W23	3.0L V6	E05	5 M/T	D62
MK5W23	2.8L DIESEL	E26	5 M/T	D62
MK7W47	3.0L V6	E05	5 M/T	D62
MK5W47	2.8L DIESEL	E26	5 M/T	D62
MK7X47	3.0L V6	E05	5 M/T	D62
MK8X47	3.0L V6	E05	4 A/T	D19
MK5X47	2.8L DIESEL	E26	5 M/T	D62

## **PAINT REPAIR CODES**

MMAL CODE	MMC CODE	PAINT COLOUR	PAINT REPAIR CODES			
			SPIES/ HECKER	PPG	SPARTAN	GLASURIT
AG	W09	SOPHIA WHITE	16007	39422	17506	–
ZJ	H82	CHROMATIC SILVER	83349	–	–	–
ZX	R59	PALMA RED	34379	–	23578	–
NF	T38	NARES BLUE	55897	KEM2B	22234	55-MAU-NF
WQ	W32	MARBLE WHITE	22372	2MK7B	22328	22-MIT-W32
KF	X08	PYRENESS BLACK	70882	6JE2B	–	–

## **TWO TONE CODES**

MMAL CODES	MMC CODES	PAINT COLOURS
ZK	GU7	TIMBER GREEN / CHROMATIC SILVER
ZL	J9A	PYRENESS BLACK / CHROMATIC SILVER
ZM	PA4	BORDEAUX MAROON / CHROMATIC SILVER
ZP	TA0	NARES BLUE / CHROMATIC SILVER

## **OPERATORS MANUALS**

Operators Manual Pt No. **MR531371** is provided with the vehicle and it is essential that this publication is in the vehicle when delivered to the customer.

Service and warranty books Pt No **MR926993** and Pt No **MR928661** are both suitable for fitment to the 03 MY MK Triton.

## **AUDIO MANUAL and WARRANTY PROCEDURES**

Audio Instruction booklet Pt No. **MR924704** should be provided with the vehicle. Should the Audio unit require repairs during the warranty period, then the existing Audio change over system is to be utilised.

## **PRODUCTION DATE**

June 2002



mitsubishi

# SERVICE BULLETIN

**GROUP:** 00 – General Information

**DATE:** September 2002

**NO.** 00/2002/013

**MODEL:** CE Lancer

**SUBJECT:** Operation of RWKE system

**COUNTRIES:**

Australia

R.I.WYATT  
MANAGER - AFTERSALES  
TECHNICAL SUPPORT

**Bulletin Consists of 7 Pages**

## Purpose

The purpose of this bulletin is to advise of the procedures required to program transmitters, test system functions and trouble shoot faults with the Keyless Entry (RWKE) system fitted to the CE Lancer/Mirage.

## Vehicle kit fitment

MR925821 – 2 door coupe Lancer/Mirage

MR925823 – 4 door sedan Lancer

MR925824 – Lancer Wagon

MR925822 – Siren upgrade kit

**NOTE:** *Individual components are available to effect repairs and can be sourced using the normal P&A ordering system.*

## Programming of Transmitters

When entering the transmitter programming mode, all transmitters (maximum of five) required to operate the system will have to be programmed at the same time.

The unit has been designed this way for the security of the user, so that if a transmitter is lost it will be erased from memory when programming a new transmitter or re-programming the existing transmitters.

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## Programming procedure (With at least one functional transmitter)

- A. Ensure a door is open .
- B. Arm then disarm the system.
- C. Within 20 seconds of disarming, turn the ignition key from the “OFF” position to the “ACC” position 20 times leaving the key in the “OFF” position after the twentieth turn.
- D. The vehicles indicators will flash 20 times to indicate successful entry.
- E. Once the indicators have finished flashing press the lock button (channel 1) on each of the transmitters that you want to program.
- F. Once finished turn the ignition key to the “ACC” position to lock in and exit from programming mode.

## Programming procedure (Without transmitters)

- A. Ensure a door is open.
- B. Disconnect the negative battery cable, wait 5 seconds then reconnect.

### NOTE.

***If the system begins to sound when power is reconnected then proceed to step (C), otherwise go to step (D).***

- C. Turn the ignition switch from the “OFF” position to the “ACC” position 10 times to manually override the alarm

### NOTE.

***After the tenth turn leave the key in the “OFF” position and wait for the system to disarm after approximately 10 seconds.***

- D. Within 20 seconds of disarming, turn the ignition key from the “OFF” position to the “ACC” position 20 times leaving the key in the “OFF” position after the twentieth turn.
- E. The vehicles indicators will flash 20 times to indicate successful entry.
- F. Once the indicators have finished flashing press channel 1 on each of the transmitters you wish to program.
- G. Once finished turn the ignition key to the “ACC” position to lock in and exit from the programming mode.

## Function testing (for additional functions refer to User’s manual)

### Arming the alarm

- A. Ensure the drivers window is down and close all doors.
- B. Arm the system by pressing the LOCK button on the transmitter and check that the following events happen.
  - All doors lock.
  - The indicators flash once
  - The horn chirps once (if horn chirps are programmed ON).
  - The horn emits 1 error chirp 3 seconds after arming the system if a door or tailgate is opened after locking within the 3 seconds.
  - The dash mounted L.E.D. turns “ON” and begins to flash after 10 seconds.

## Disarming the system

- A.** Disarm the system by pressing the Unlock button on the transmitter and check that the following events happen.
- Only drivers door unlocks.
  - The indicators flash 2 times.
  - The horn chirps 2 times (only if horn chirps are programmed ON).
  - The L.E.D. turns "OFF", providing the system was not triggered, otherwise the L.E.D. will continue to flash until the ignition is switched "ON" (Refer to Diagnostics table of User manual).

## Two stage unlock (passenger doors)

Press the unlock button again on the transmitter and ensure that all passenger doors unlock

## Manually locking and unlocking

### Sedan and Wagon

- Manually lock and unlock the RHF and LHF doors using the ignition key and ensure all doors lock and unlock.

### Coupe and Mirage

- Using the door key manually lock and unlock the drivers door and ensure all doors lock and unlock.

### Note:

***This function is not operational from the passenger's door on Coupe and Mirage.***

## Auto rearm function

- A.** Ensure all entry points are closed, arm and disarm the system without opening any doors and wait for 60 seconds. The system will arm by itself providing no door has been opened.
- B.** Ensure all entry points are closed, arm and disarm the system. After disarming open any door and wait for 60 seconds. The system will not automatically re-arm.

## Door/Tailgate trigger

- A.** Ensure all entry points are closed, lock the doors by pressing the lock button on the transmitter and wait for the L.E.D. to start flashing.
- B.** Unlock the drivers door from inside the open window and open it, ensure the horn sounds and the indicators flash.
- C.** Disarm the alarm and ensure the following events happen:
- Only drivers door unlocks.
  - The indicators flash 4 times (indicating system was triggered)
  - The horn chirps 4 times (Only if horn chirps are programmed ON)
  - The L.E.D. will continue to flash until the ignition is switched "ON" (Refer to Diagnostics table of User manual)

## Panic function

- A.** Press and hold the lock button down for approximately 3 seconds, the system will enter panic alarm which will sound the horn and flash the indicators.
- B.** Press the unlock button to disarm the alarm.

## Hot-wire trigger

- A. Ensure all entry points are closed, lock the doors by pressing the lock button on the transmitter and wait for the L.E.D. to start flashing.
- B. Through the open window check that the system triggers as soon as the ignition is turned "ON".
- C. Disarm the alarm and ensure the following events happen:
  - Only drivers door unlocks.
  - The indicators flash four times (Only if the horn chirps are programmed ON).
  - The L.E.D. will continue to flash until the ignition is switched "ON" (Refer to Diagnostics table of User manual)

## Car finder function

- A. Press the top button on the transmitter, the indicators should flash ON and OFF 5 times.

## Trouble shooting

- A. One or both side indicators do not operate when triggered.
  - Inspect the two 7.5 amp fuses on the RKE loom.(Positioned above the Junction box top bracket).
- B. Transmitter will not operate the system.
  - Ensure the ignition is turned "OFF", try again.
  - Program the transmitter to the system (see programming transmitters section)
  - Check/replace the battery in the transmitter.
- C. Vehicle can be started even when the alarm is armed.
  - This is not a fault, the vehicle is equipped with a factory transponder immobilisation system and will start as long as the correct ignition key is used regardless if the alarm is in the armed or disarmed state.
- D. Poor transmitter range
  - Generally this is caused if the antenna wire of the RKE is not installed correctly. Please ensure that the antenna wire is fully extended and that the end of the wire is not touching any metal parts.
- E. Horn will not sound when triggered
  - Ensure horn wiring procedure carried out correctly.
  - Ensure the 3 pin and the 6 pin connectors are plugged into the RKE relay module.
  - Ensure the two small 4 pin black connectors from the RKE harness are connected together, if not then connect. These connectors must remain connected for horn alarm only. If the system is fitted with the siren upgrade kit (MR925822) then they should remain disconnected.

## **Data siren activation procedure (Siren upgrade kit MR925822)**

The RKE/Alarm system must be programmed to DATA mode in order for the data siren to operate. Please follow the procedure below to program the system to accept the data siren.

- A.** ARM then DISARM the alarm.
- B.** Within 20 seconds of disarming turn the ignition switch from the "OFF" position to the "ACC" position **15 times**, leave the key in the "OFF" position after the fifteenth turn.
- C.** Press the ARM (Lock) button on the transmitter, the indicators will flash 15 times to confirm the selection has been changed.
- D.** Check to see if the correct selection has been made. Arm and disarm the alarm, the siren should chirp once when arming and twice when disarming, if not repeat the above steps.

## **Function testing (For additional function information refer to User manual)**

### **Error chirps**

- A.** Ensure the alarm is disarmed.
- B.** Open all entry points around the vehicle, (doors, boot, bonnet).
- C.** Arm the alarm by pressing the lock button on the transmitter.
- D.** Three seconds after arming the system should produce a series of chirps for each sector that is opened.
  - Doors.....1 chirp
  - Bonnet..... 2 chirps
  - Boot/Hatch..... 3 chirps
  - Ignition..... 5 chirps
  - Impact sensor.....7 chirps

### **Door trigger**

- A.** Ensure all entry points are closed. Arm the alarm by pressing the lock button on the transmitter and wait for the dash mounted L.E.D. to start flashing.
- B.** Unlock the driver's door using the door key and open it, ensure the siren sounds and the indicators flash.
- C.** Close the door and disarm the system.

### **Bonnet trigger**

- A.** Ensure all entry points are closed. Arm the alarm by pressing the lock button on the transmitter and wait for the dash mounted L.E.D. to start flashing.
- B.** Release the bonnet lever to unlock the bonnet, ensure the siren sounds and the indicators flash.
- C.** Close the bonnet and disarm the system.

### **Boot/Tailgate trigger**

- A.** Ensure all entry points are closed. Arm the alarm by pressing the the lock button on the transmitter and wait for the dash mounted L.E.D. to start flashing.
- B.** Unlock and open the rear tailgate/boot using the door key, ensure the siren sounds and the indicators flash.
- C.** Close the boot/tailgate and disarm the system.

### **Impact trigger sensor**

- A.** Ensure all entry points are closed. Lock doors by pressing the lock button on the transmitter and wait for the dash mounted L.E.D. to start flashing.
- B.** Lightly kick the right hand rear tyre, the alarm should not trigger. Heavily kick the right hand rear tyre, the alarm should trigger.

### **Panic function**

- A.** Press and hold the Arm(lock) button on the transmitter for 3 seconds, the system will sound the siren, lock all doors and flash the indicators.
- B.** Press the unlock button to disarm the alarm.

## Data siren operation

Before disconnecting the data siren connector or the vehicles battery, ensure the alarm is in the disarmed state first. Failure to do this will result in the siren sounding via it's internal power supply.

### Note:

***Communication to and from the alarm module and siren is performed via a digitally coded security signal. Only genuine Mitsubishi sirens can be fitted to the RKE/Alarm system.***

## Trouble shooting

- A. The siren operates erratically or not at all.
  - Check for correct siren wiring on the 4 pin connector.
  - Ensure the data siren activation procedure was performed correctly.
- B. Bonnet will not trigger alarm when opened.
  - Check the bonnet pin switch height is correctly adjusted.
  - Ensure the pin switch is pushed down by the bonnet when fully closed, adjust if required.
- C. Alarm system intermittently false alarms.
  - Impact sensor may be too sensitive (test before adjusting).
  - The bonnet pin switch height may need adjustment to a higher position.

## Alarm history recall

If the alarm system is false alarming and no cause is found, perform the following procedure to retrieve a history of the last 15 triggers which the alarm has logged in memory.

- A. ARM then DISARM the alarm
- B. Within 20 seconds of disarming, turn the ignition switch from the "OFF" position to the "ACC" position **4 times**, leave the key in the "OFF" position after the fourth turn.
- C. Press the ARM (Lock) button on the transmitter, the indicators will flash 4 times to confirm the selection has been made.
- D. Monitor the L.E.D. and record any flashes that are illuminated and then cross reference against the required error chirps for each trigger sector. The system will report the last trigger first etc.

### Note:

***The alarm will automatically exit from history recall when all triggered sectors have been displayed or you can manually exit by turning the ignition to "acc".***

## Servicing or replacement of RKE module.

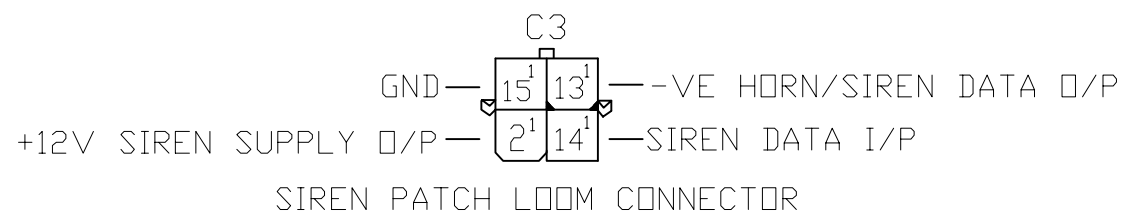
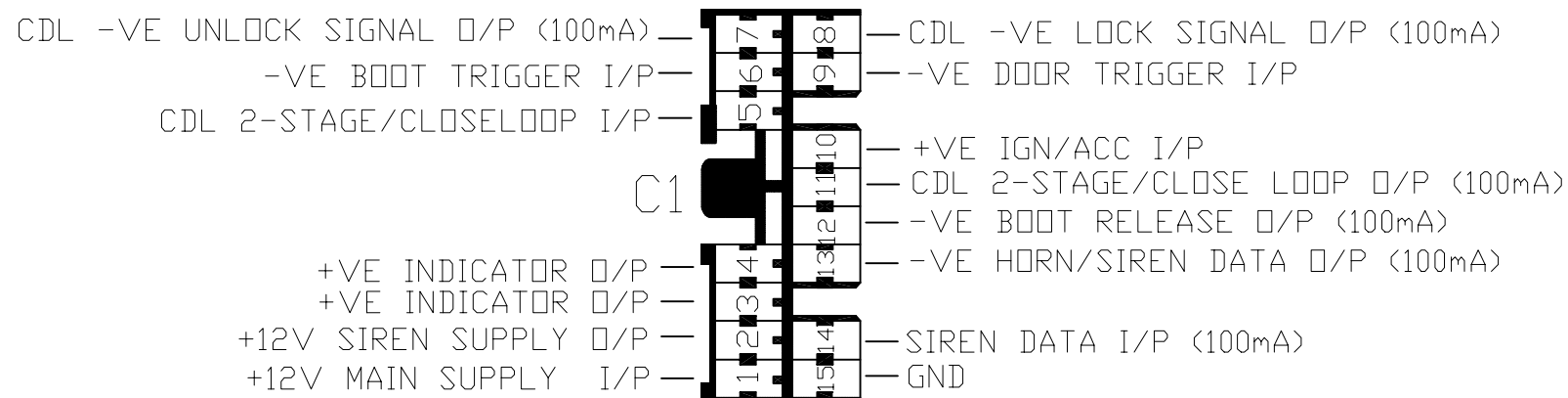
- A. Before disconnecting the RKE/Alarm module for servicing or replacement, ensure the system is in the disarmed state first (L.E.D. is OFF)
- B. If the system cannot be disarmed due to failure, then when the alarm module is disconnected the data siren will trigger via it's internal battery pack for a duration of 300 seconds (5 minutes)
- C. It is important to note that the data siren must complete it's 300 second trigger duration before a new alarm module can be used to communicate to the data siren. Once the 300 second trigger duration is finished then any new RKE/Alarm module can be fitted to operate the data siren.



# PINOUT CONFIGURATION

## DATA COMMUNICATION RKE/ALARM MODULE

### FRONT VIEW





MITSUBISHI

# SERVICE BULLETIN

**GROUP:**00 – General Information

**DATE:** December 2002

**NO.** 00/2002/014

**MODEL:** NP Pajero

**SUBJECT:** Introduction of 03MY NP Pajero

**COUNTRIES:**

Australia

R.I.WYATT  
MANAGER - AFTERSALES  
TECHNICAL SUPPORT

**Bulletin Consists of 8 Pages**

## **PURPOSE**

The purpose of this bulletin is to advise of the introduction of the upgraded 03 MY Pajero. The model code will be **NP** and the option code will remain as **M03**.

The following models will be discontinued with the introduction of the NP Pajero:

- Pajero GL Petrol Manual (GL Diesel was discontinued on introduction of DI-D)
- Pajero EXCEED Petrol Manual

Pajero EXCEED models will now have their own unique model codes.

## **SPECIFICATION CHANGES**

### **ALL MODELS**

- New front and rear bumper design
- New design headlamps and tail lamps
- Black face instrument meters
- Illumination of lower glovebox compartment
- Toolbox in rear door deleted

### **GLX Specific**

- New grille design (black)
- 60:40 Split Rear seat
- Cruise control standard
- Keyless entry standard

### **GLS Specific**

- New front and rear bumper design
- New colour-keyed side sills and door garnish
- Integrated side steps
- Body colour rear licence plate garnish
- Windscreen sunshade band standard
- Driver and passenger airbags standard

### **EXCEED Specific**

- Black roof rails
- Rear roof spoiler
- Integrated side steps with illumination
- Side airbags standard
- Power front passenger seat
- Active Traction Control (ATC) standard on Petrol Models (replaces LSD)
- Active Stability Control (ASC) standard on Diesel Models (replaces LSD)

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## **MODEL CODES**

MODEL CODE	ENGINE		TRANSMISSION	
	Type	Code	Type	Code
NP1W45	3.5L V6	E35	5 M/T	D62
NP2W45	3.5L V6	E35	S-5 A/T	D75
NP4W45	3.2L DI-D	E75	5 M/T	D62
NP5W45	3.2L DI-D	E75	S-5 A/T	D75
NP1P45	3.5L V6	E35	5 M/T	D62
NP2P45	3.5L V6	E35	S-5 A/T	D75
NP4P45	3.2L DI-D	E75	5 M/T	D62
NP5P45	3.2L DI-D	E75	S-5 A/T	D75
NP2X45	3.5L V6	E35	S-5 A/T	D75
NP4X45	3.2L DI-D	E75	5 M/T	D62
NP5X45	3.2L DI-D	E75	S-5 A/T	D75

## **PAINT REPAIR CODES**

MMAL CODE	MMC CODE	PAINT COLOUR	PAINT REPAIR CODES			
			SPIES/ HECKER	PPG	SPARTAN	SIKKENS
RT	A69	SATELLITE SILVER	72964	9JM9B	21750	–
YK	F26	QUEENS SILVER	–	PH72B	24094	–
ZY	T11	GRAND BLUE	83220	–	–	–
AS	G70	ATLANTIC GREEN	–	–	–	MIT9217
WX	W09	SOPHIA WHITE	16007	39422	17506	–
RH	S74	FRASIER BEIGE	20668	47847	21251	
QB	W75	GALAXY WHITE	–	47299	20908	–
KF	X08	PYRENEES BLACK	70882	6JE2B	–	–
RG	P78	ROANNE RED	33136	47846	21252	–

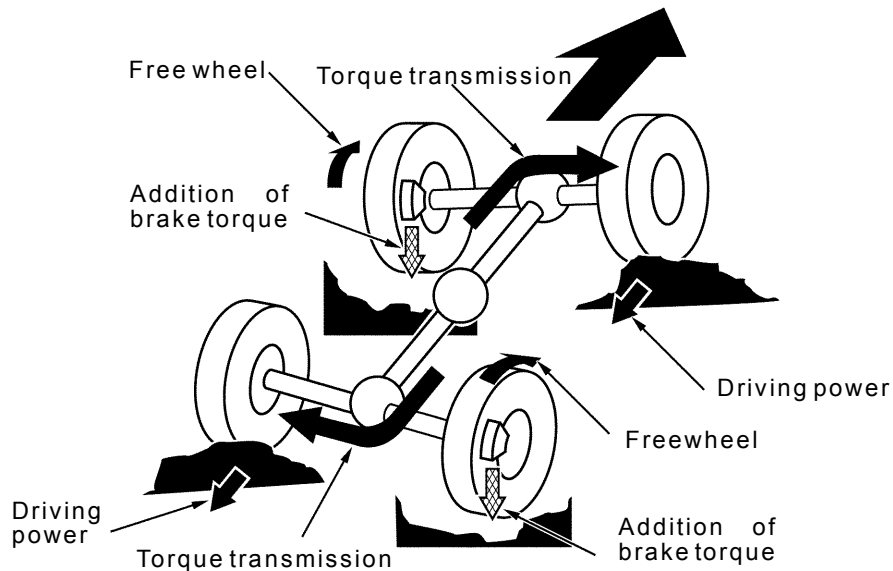
## **TWO TONE CODES**

MMAL CODE	MMC CODE	PAINT COLOURS
AK	DH6	GRAND BLUE / QUEENS SILVER
AV		ATLANTIC GREEN / QUEENS SILVER
YM	PH2	ROANNE RED / QUEENS SILVER
TS	W0U	SOPHIA WHITE / SATELLITE SILVER
YR	J7A	PYRENEES BLACK / QUEENS SILVER
YS	U3H	SATELLITE SILVER / QUEENS SILVER

## **ACTIVE STABILITY AND TRACTION CONTROL SYSTEM (ASTC)**

### **ACTIVE TRACTION CONTROL (PETROL AND DIESEL)**

• The active traction control prevents loss of driving force to the wheels by automatically applying the brake to the slipping wheel thereby transmitting driving torque to the wheel with more grip. In this condition driving ability equivalent to a LSD can be provided. Wheel slip is detected by the ABS wheel speed sensors and braking force applied by the operation of the appropriate ABS solenoids to apply individual brakes as required.

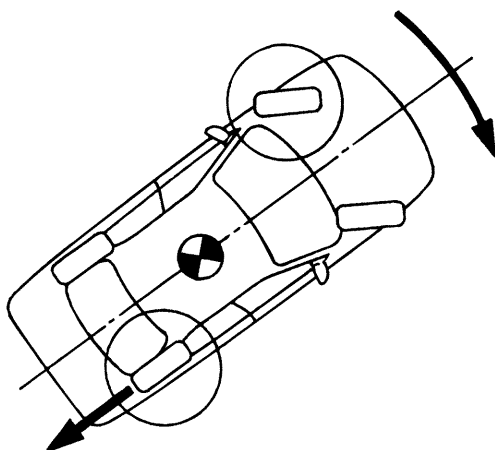


AC204618 AB

### **ACTIVE STABILITY CONTROL SYSTEM (DIESEL)**

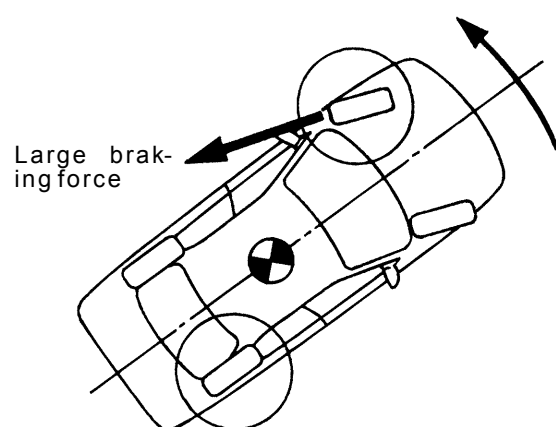
• The active stability control is designed to improve the vehicle's stability by restraining any tendency to oversteer or understeer. The system incorporates all the components of Active Traction Control and the ABS system as well as further sensors including a "G" and Yaw rate sensor. The vehicle's attitude is monitored and a target value of vehicle behaviour is calculated by the ECU. Should the actual vehicle behaviour as measured by the sensors differ from the calculated behaviour then the system operates to apply individual brakes as required. It also governs engine output to control longitudinal and lateral forces generated by the chassis.

<Generation of rotating force>



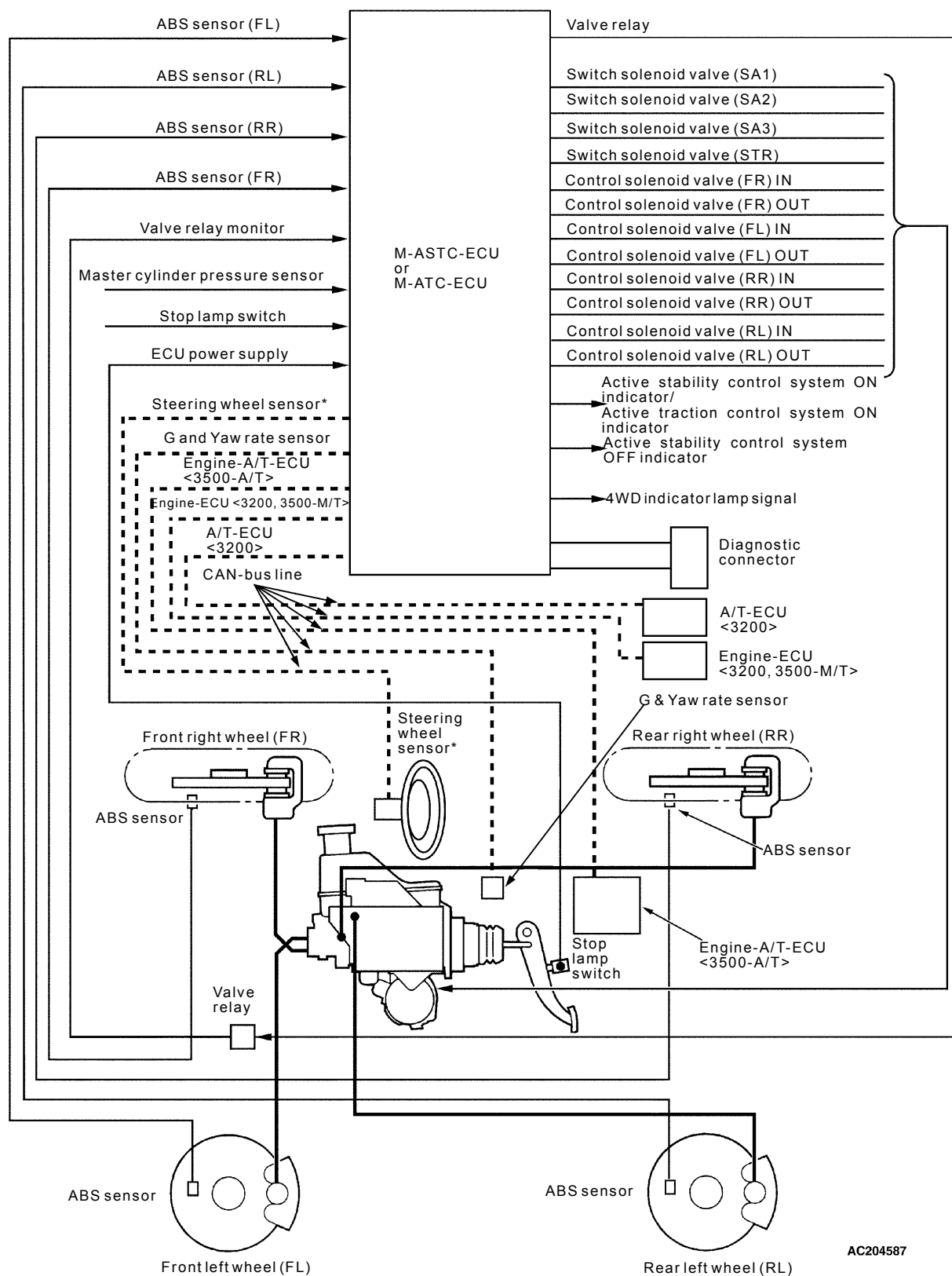
Large braking force

<Generation of counter-rotating force>

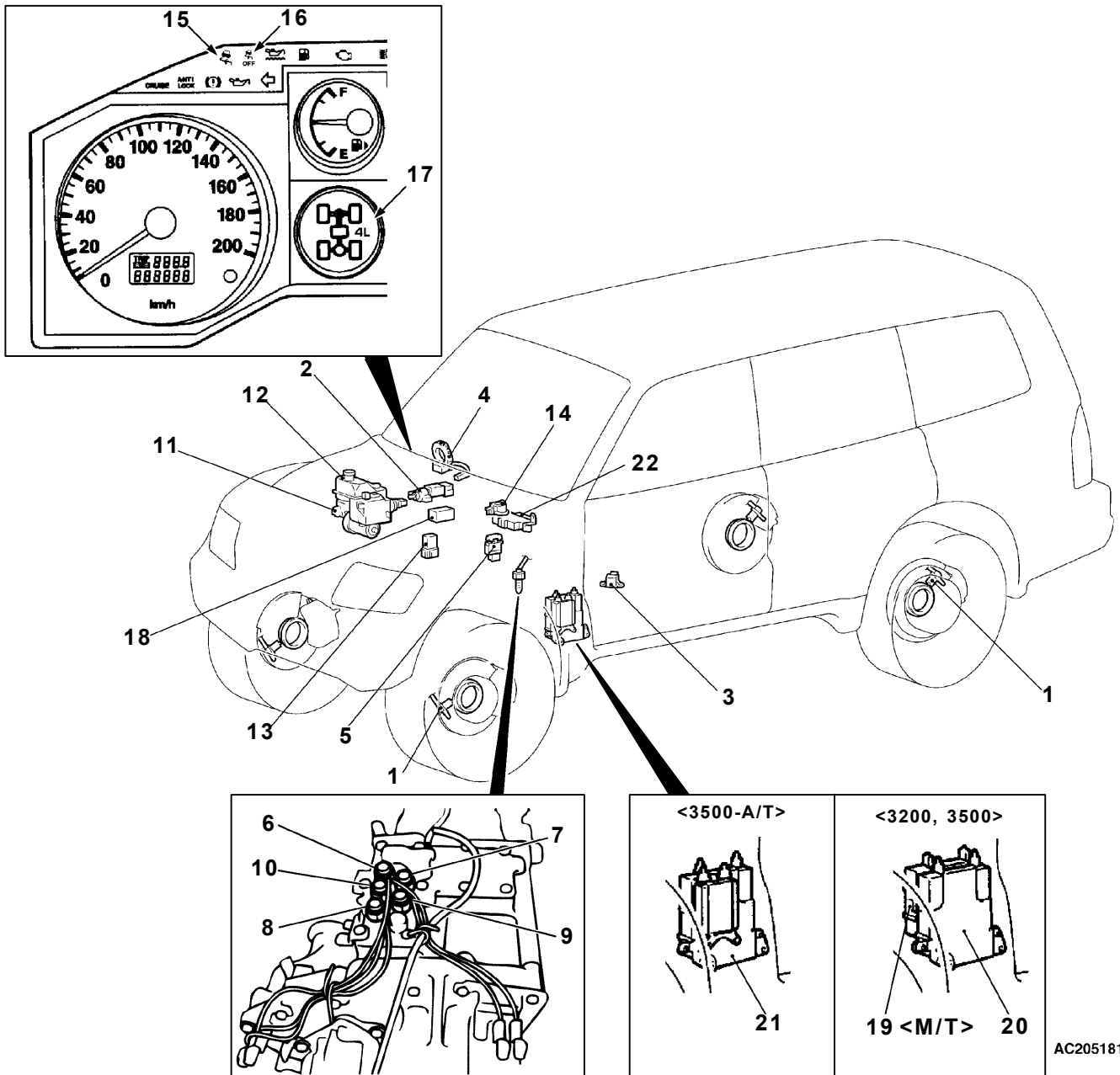


AC204610

# SYSTEM CONFIGURATION DIAGRAM



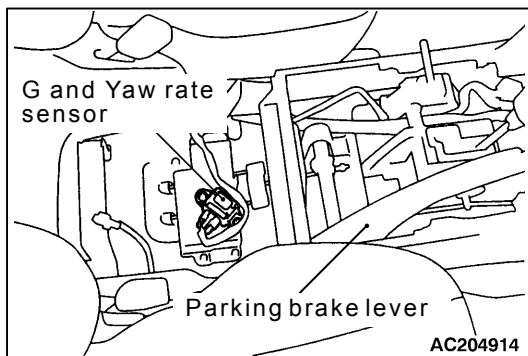
## COMPONENT LOCATION



1. ABS sensor
2. Stoplight switch
3. G and yaw rate sensor
4. Steering wheel sensor<Vehicles with M-ASTC>
5. Active stability control switch<Vehicles with M-ASTC>
6. 2WD/4WD switch
7. 4LLc switch
8. Center differential lock switch
9. 2WD switch
10. 4H switch
11. Master cylinder pressure sensor
12. Hydraulic brake booster (HBB)
13. Valve relay
14. HBB buzzer

15. Active Stability Control system ON indicator/Active Traction Control system indicator
16. Active Stability Control OFF indicator <Vehicles with M-ASTC>
17. 4WD indicator lamp
18. Diagnosis connector
19. Engine ECU <3200, 3500-M/T>
20. A/T-ECU <3200>
21. Engine and A/T-ECU
22. MITSUBISHI Active Stability and Traction Control Unit <M-ASTC-ECU>, MITSUBISHI Active Traction Control Unit<M-ATC-ECU>

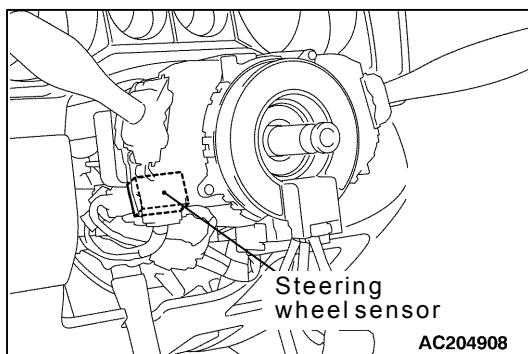
AC205181



## SENSOR

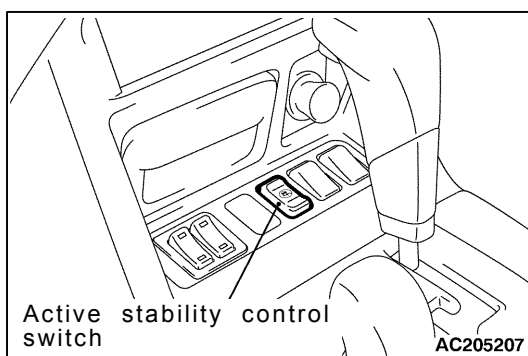
### G AND YAW RATE SENSOR

The sensor is installed under the center console to detect deceleration speed and cornering angular velocity of the vehicle in forward/rearward and lateral movement.



### STEERING WHEEL SENSOR <VEHICLES WITH M-ASTC>

The steering wheel sensor is installed at the column switch located near the front of the vehicle to detect angle of the steering wheel.



### ACTIVE STABILITY CONTROL SWITCH <VEHICLES WITH M-ASTC>

The active stability control switch is installed at the center console to turn the system ON or OFF as shown in the table below.

### SYSTEM CONTROL STATUS BY ACTIVE STABILITY CONTROL SWITCH <VEHICLE WITH M-ASTC>

Active stability control switch position	Transfer shift lever position	Active stability control system	Active traction control system	
			Brake control	Engine control
ON	2H	Control activated	Control activated	Control activated
	4H	Control activated	Control activated	Control activated
	4HLc	Control activated	Control activated	Control activated
	4LLc	Control deactivated	Control activated	Control deactivated
OFF	2H	Control deactivated	Control activated	Control deactivated
	4H	Control deactivated	Control activated	Control deactivated
	4HLc	Control deactivated	Control activated	Control deactivated
	4LLc	Control deactivated	Control activated	Control deactivated

#### NOTE

- 1.If MITSUBISHI Active Stability Control system is deactivated (OFF) by the active stability control switch, activation (ON) will be automatically resumed when the vehicle speed becomes 80 km/h or more.
- 2.MITSUBISHI Active Stability Control system can be deactivated (OFF) when the vehicle speed becomes 40 km/h or less.

## FAIL-SAFE DIAGNOSTIC FUNCTION

The M-ASTC-ECU and M-ATC-ECU monitor input and output signals all the time and if any abnormality is detected in the system, fail signals are output to illuminate or flash the respective indicator lamp and provide control according to the trouble symptoms. (When ABS is faulty, the active stability control system and the active traction control system functions are disabled, but the other functions are NOT disabled when the active stability control system and the active traction control system are faulty. It should be noted that a method of illumination depends on the micro computer for monitoring.)

In addition, M-ASTC-ECU and M-ATC-ECU are equipped with the following functions to facilitate system inspections:

- Diagnosis code output
- Service data output
- Actuator test

All of the above-mentioned items can be tested by the MUT-II.

### DIAGNOSIS CODE OUTPUT

Due to the adoption of a non-volatile memory (EEPROM\*), the results of 54 diagnostic items are memorized even after the battery terminals are disconnected.

### HOW TO READ DIAGNOSIS CODE

Diagnosis code can be checked by the MUT-II.

### HOW TO ERASE DIAGNOSIS CODE MEMORY

Diagnosis code memory can be erased by the MUT-II.

**NOTE.**

*If the ASTC-ECU is deactivated by the failsafe function, then the diagnosis code cannot be erased.*

## CAN

CAN stands for Controller Area Network and is a multiple communication protocol for automobiles. CAN consists of the following components:

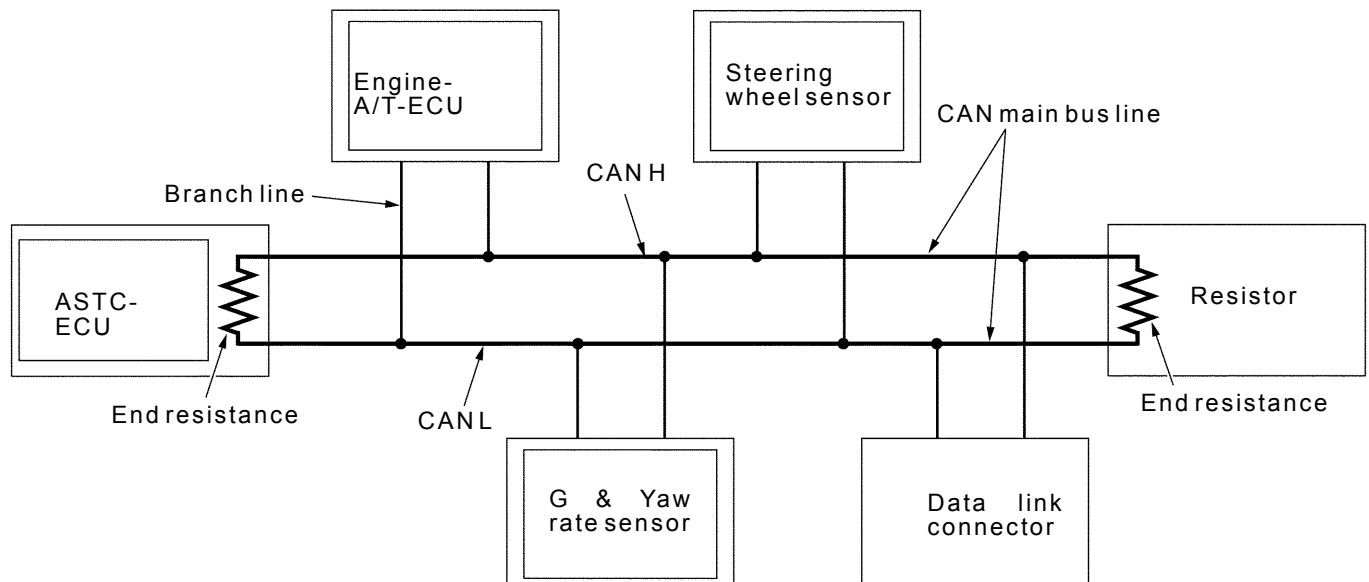
- Two communication lines called CAN L (can low) and CAN H (can high)
- End resistance connecting both ends of CAN L and CAN H
- Each ECU and sensor related to CAN communication

The communication line connecting the end resistance is called the main bus line, a line that diverges is called a branch line. A branch line always diverges from a main bus line. If a branch line diverges from another branch line, it cannot be recognized as a component of CAN.

The following ECUs and sensors take care of CAN communication in the Pajero:

- Engine-A/T-ECU <3500-A/T>
- Engine ECU <3200, 3500-M/T>
- A/T-ECU <3200>
- G and yaw rate sensor
- Steering wheel sensor
- ASTC-ECU

End resistance, each ECU, and sensors are connected through communication lines as follows.



□ surrounded by resistors indicate that CAN communication is conducted.



## **OPERATION DESCRIPTION**

The basic characteristics of CAN are described as follows:

- Communication data can be sorted by priority. Each ECU and sensor transmits data according to priority. If data transmission is conducted at the same timing, transmission of data with higher priority is given priority to that of data with lower priority. On that occasion, transmission of data with lower priority is suspended for a moment. It will automatically resume as soon as the transmission of data with higher priority is completed.
- Reliability of the communication data has been improved by using two main bus lines of CAN L and CAN H for communication because a failure attributed to transmission data error can easily be prevented even if a main bus line is open circuited.
- Communication can be done at a higher speed compared with the previous transmission protocols.
- If communication errors occur at any ECU or sensor more than a certain number of times, the responsible ECU or sensor stops communication for a while. Subsequently if further communication errors occur at any ECU or sensor more than a certain number of times, the responsible ECU or sensor completely stops communication. In this way, erroneous system operation due to communication data error can be prevented.

## **OPERATORS MANUALS and SERVICE INFORMATION**

Operators Manual Pt No. **MR963612-A** and Service and Warranty book Pt No. **MR928661** are provided with the vehicle and it is essential that these publications are in the vehicle when delivered to the customer.

Chassis Manual Pt No. **PWJE0005 VOL1&2** and Engine Manual Pt No. **PWEE9409-E** have previously been issued in hard copy to cover the Pajero range of vehicles. An update **CD** is currently in production to cover the changes to the NP model.

Any dealer requiring technical information prior to the workshop manual supplement CD distribution should contact Technical Support at MMAL at 1300-131211

## **AUDIO SECURITY CODES**

The Audio unit is now fitted during manufacture by MMC and there are two cards, with the radio security code, located in the glove box. Please ensure that these cards are supplied to the owner at time of vehicle delivery.

## **PRODUCTION DATE**

October 2002



MITSUBISHI

# SERVICE BULLETIN

**GROUP:**00 – General Information

**DATE:** December 2002

**NO.** 00/2002/015

**MODEL:**TJ/KJ - Magna Verada

**SUBJECT:** Introduction of AWD Magna / Verada

**COUNTRIES:**

Australia

R.I.WYATT  
MANAGER - AFTERSALES  
TECHNICAL SUPPORT

**Bulletin Consists of 7 Pages**

## PURPOSE

The purpose of this bulletin is to advise of the introduction of the All Wheel Drive (AWD) range of Magna and Verada vehicles.

Three models, Magna AWD, Magna Sports AWD and Verada AWD have been developed using the All Wheel Drive technology that has proven so successful in the World Rally Championship.

## SPECIFICATIONS

**MAGNA AWD Sedan** (features over Magna Executive)

- QuadTech AWD System
- 5 Speed INVECS II Automatic Sports Mode transmission
- Rear stabiliser bar
- Interlock A/T and ignition
- Increased diameter brake discs (as fitted to Ralliart Magna)
- 16" X 6" Alloy wheels
- P215/60R16 Turanza tyres
- Sports style multi-parabola headlamps
- Rear mud flaps
- Passenger airbag
- Power windows
- Cruise control
- Leather steering wheel and A/T shift knob
- Door courtesy lamps

**MAGNA AWD Sports** (features over Magna Sports)

- QuadTech AWD System
- Increased diameter brake discs (as fitted to Ralliart Magna)
- Interlock A/T and ignition
- Front and rear colour keyed mud flaps

**VERADA AWD Sedan** (features over Verada Ei )

- QuadTech AWD System
- Rear stabiliser bar
- Increased diameter brake discs ( as fitted to Ralliart Magna)
- Interlock A/T and ignition

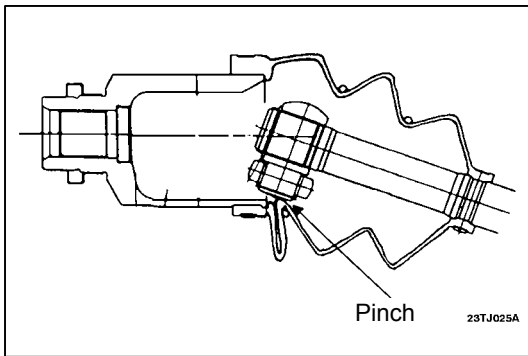
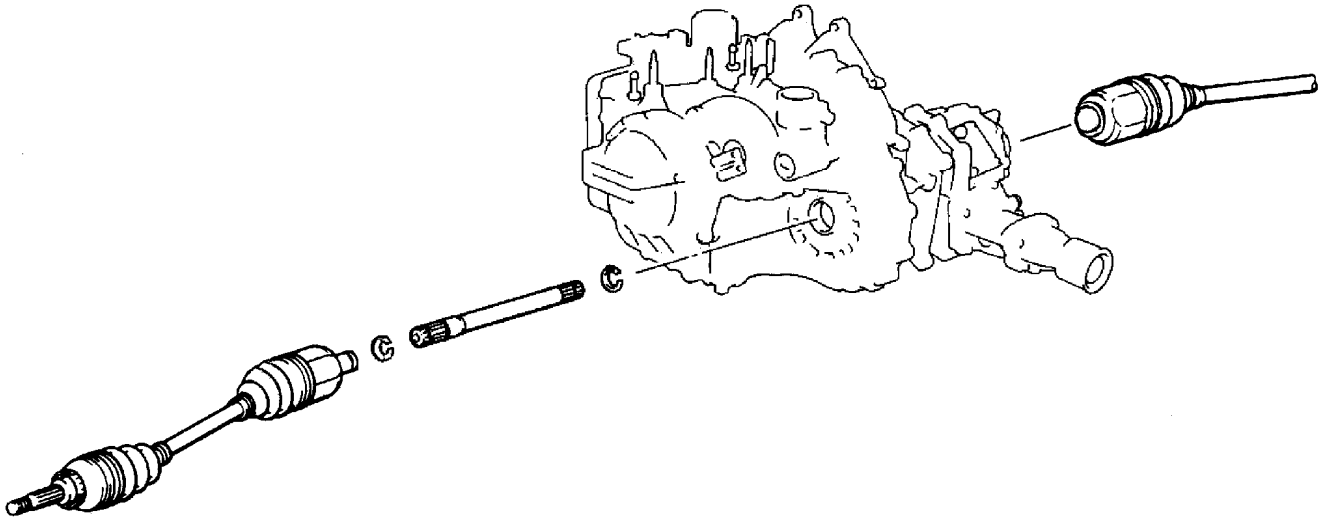
**NOTE:** THIS BULLETIN SHOULD BE FORWARDED DIRECT TO THE  
SERVICE MANAGER FOR ACTION/DISTRIBUTION.

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## QUADTEC AWD SYSTEM

The AWD system contains many of the elements proven in rally competition. The Magna /Verada AWD vehicle incorporates a center differential to provide 50:50 torque distribution between the front and rear wheels and a viscous LSD in the rear axle. This arrangement enables outstanding performance on poor road surfaces by enhancing acceleration, stability and manoeuvrability.

### DRIVE SHAFTS (FRONT)



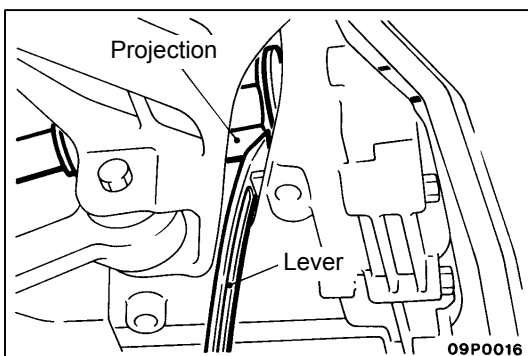
### SERVICE POINTS

#### DRIVE SHAFT REMOVAL AND INSTALLATION

Care should be taken when removing or installing not to over extend the joints as internal components of the joint can pinch and split the inside of the boot.

#### Caution

**When handling drive shafts the joints should be kept compressed and parallel to the shaft to prevent damage**



1. Insert a pry bar between the transmission case and the drive shaft as shown to remove the drive shaft.

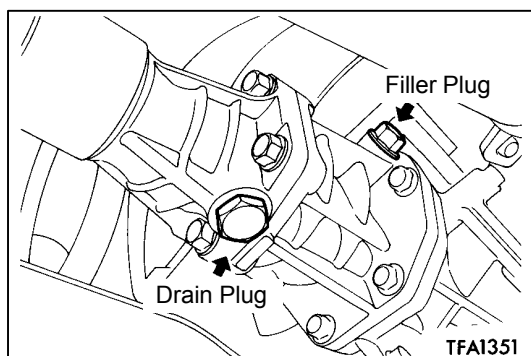
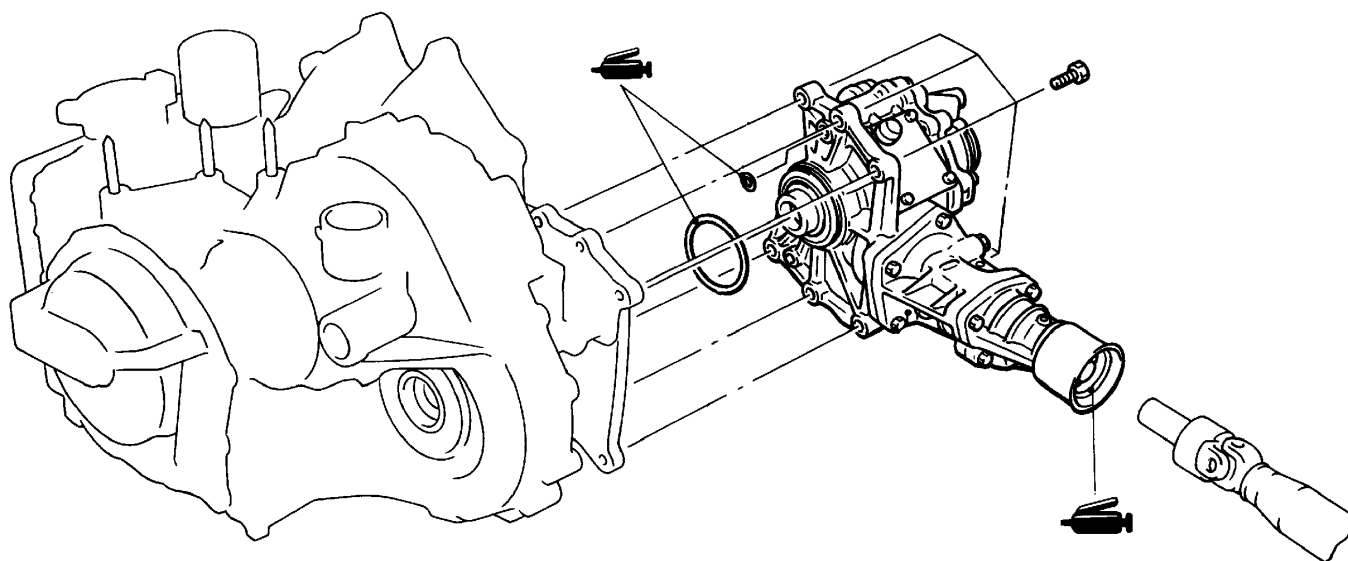
#### NOTE:

Do not remove the hub and knuckle from the drive shaft.

#### Caution

**Always use a pry bar, or the ball joint will be damaged.**

## TRANSFER CASE

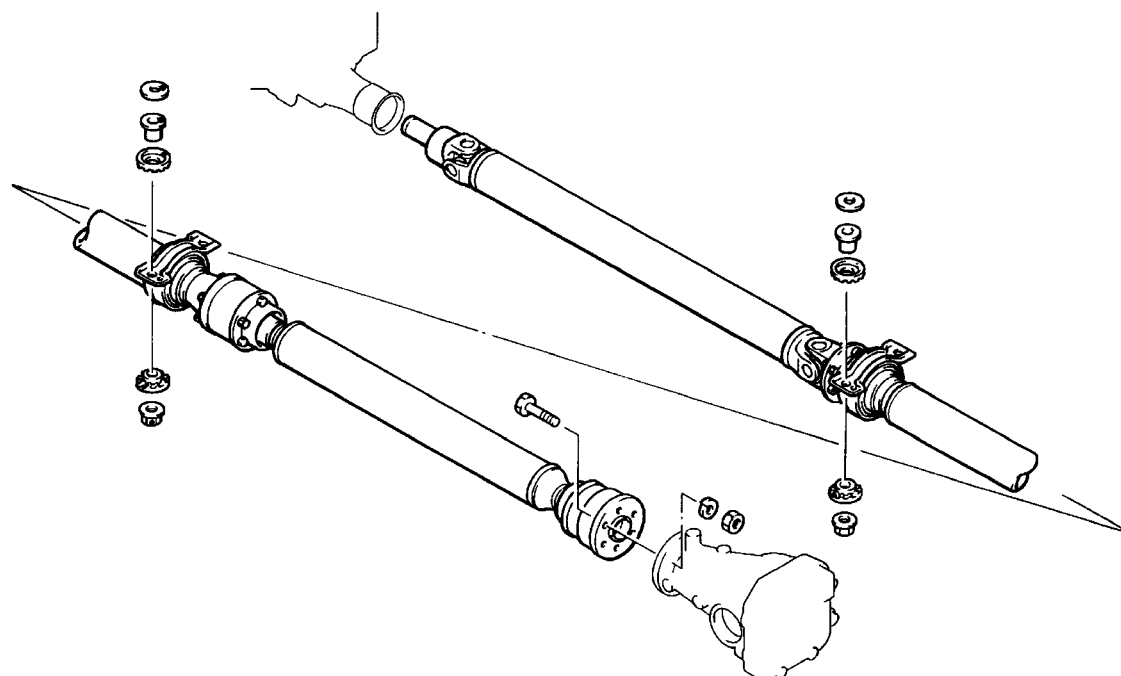


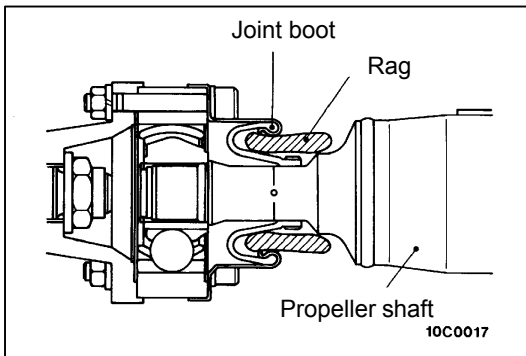
### TRANSFER CASE OIL CHECK

1. Remove the oil filler plug
2. Check whether oil is up to the lowest edge of the filler plug hole.
3. Check oil is not extremely dirty and has suitable viscosity.
4. Fit the oil filler plug and tighten to the specified torque.

**Tightening torque: 32 Nm**

## PROPELLOR SHAFT





## SERVICE POINTS

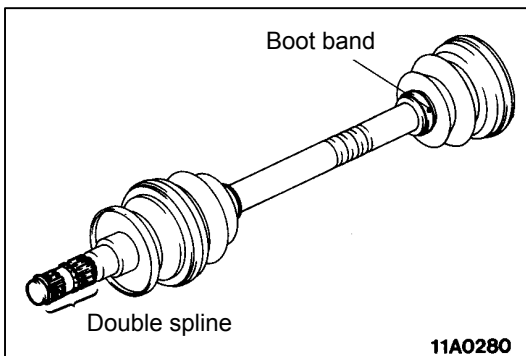
### PROPELLOR SHAFT REMOVAL AND INSTALLATION

1. Make mating marks on the differential companion flange and LJ assembly, and remove the propeller shaft assembly.

#### Caution

**Be careful not to bend the joint portion when removing the propeller shaft because this will damage the joint boot.**

2. Insert a rag so as to avoid boot damage, and remove the propeller shaft in a straight and level manner.

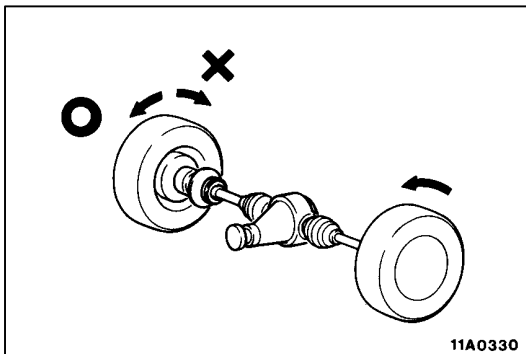


### DRIVE SHAFT (REAR)

#### Drive shaft removal and installation

#### Caution

1. Be careful that the spline part of the drive shaft does not damage the oil seal of the differential carrier.
2. Ensure the drive shaft with the double splines is installed into the right hand side of the differential.

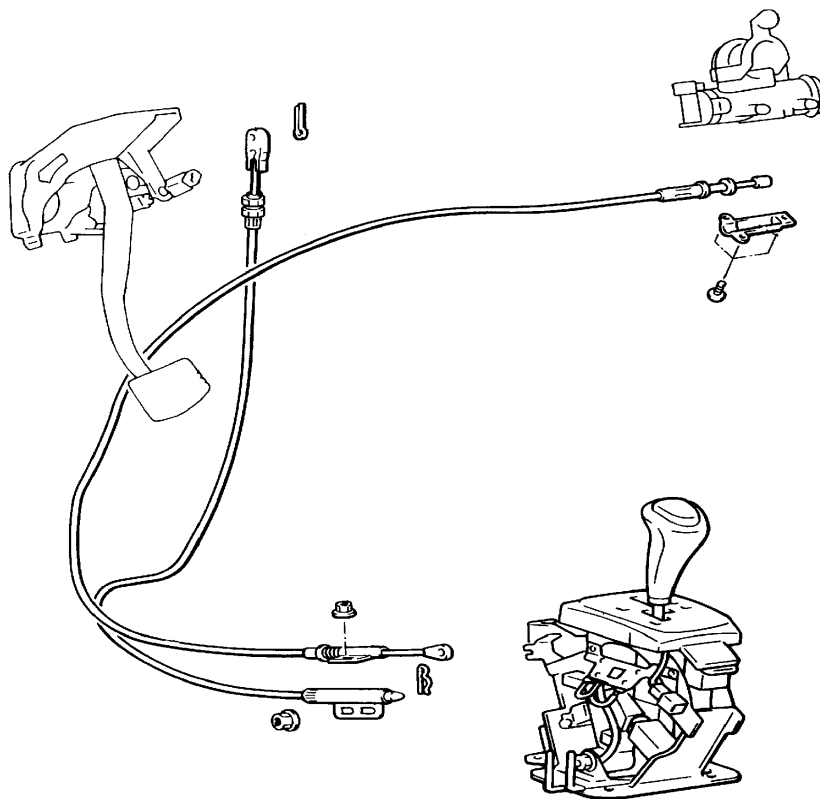


### VCU LSD CHECK

1. Place the shift lever in the neutral position, and chock front wheels.
2. Release the parking brake.
3. Jack up the rear wheels, and apply rigid jack stands to the specified areas.
4. Separate the joint on the differential carrier and propeller shaft.
5. Confirm that if one wheel is turned slowly (approx. 29 Nm of turning torque) the other wheel turns in the same direction.
6. If the other wheel turns in the opposite direction replace the VCU LSD.

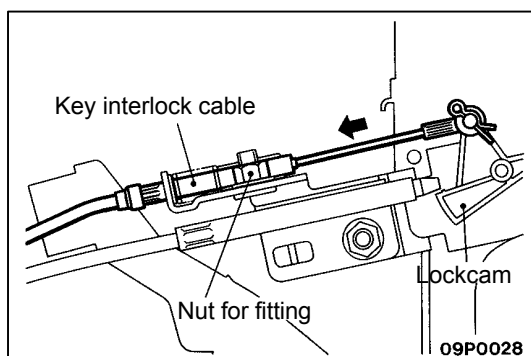
## TRANSMISSION SHIFT LOCK

The AWD Magna/Verada incorporates a locking mechanism that prevents the transmission shift lever being moved from “P” to another position if the the ignition key is at the 'LOCK” position, removed, or if the brake pedal is not depressed and held down.



## KEY INTERLOCK STRUCTURE CHECK

Order of check	Check conditions		Checking details (normal conditions)
1	Full brake pedal stroke	Ignition key position: “LOCK”	The push button of the selector lever cannot be pushed. The lever cannot be operated from “P” position to another position.
2		Ignition key position: “ACC”	After pushing the push button of the selector lever, the lever can be operated from “P” position to another position.
3	No brake pedal stroke	Selector lever: Other than “P”	The ignition key does not turn to “LOCK” position.
4		Selector lever: “P”	The ignition key turns to “LOCK” position smoothly.

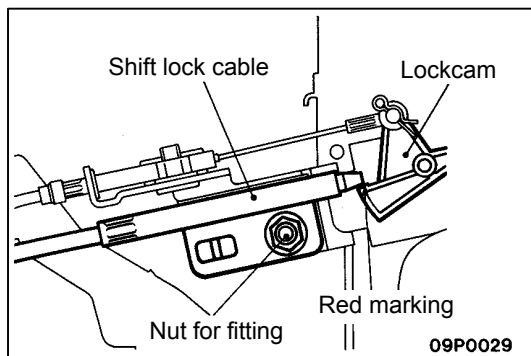


Adjust the key interlock cable as follows when the operations mentioned above do not work.

1. Remove the floor console.
2. Position the selector lever at “P”.
3. Position the ignition key at “LOCK”.
4. Loosen the nut at the key interlock cable.
5. Tighten the nut while pushing the cable connection part of the lockcum towards the arrow A direction lightly.
6. Install the floor console.

## SHIFT LOCK STRUCTURE CHECK

Order of check	Check conditions		Checking details (normal conditions)
1	No brake pedal stroke	Ignition key position: "ACC"	The push button of the selector lever cannot be pushed. The lever cannot be operated from "P" position to another position.
2	Full brake pedal stroke		After pushing the push button of the selector lever, the lever can be operated from "P" position to another position smoothly.
3	No brake pedal stroke		After pushing the button of the selector lever, the lever can be operated from "R" position to "P" position smoothly.



Adjust the key interlock cable as follows when the operations mentioned above do not work.

1. Remove the floor console.
2. Position the selector lever at "P".
3. Loosen the nut at the shift lock cable.
4. Tighten the nut at the position where the tip of the shift lock cable is above the red marking part of the lockcum towards the arrow A direction lightly.
5. Install the floor console.

## LUBRICANTS

Items	Specified lubricant	Quantity (litres)
Transmission fluid	Mitsubishi ELC4-SP III.	8.8
Transfer case	Hypoid gear oil API classification GL-5 SAE 90	0.62
Gear oil VCU LSD	Hypoid gear oil API classification GL-5 or higher. Above 10°C SAE 90W. Below 10°C SAE 80W.	0.55 litres

## MODEL CODES

MODEL CODE	ENGINE		TRANSMISSION	
	Type	Code	Type	Code
TJ9F42	3.5L V6	E35	S-5 A/T	D07
TJ9X42	3.5L V6	E35	S-5 A/T	D07
KJ9F42	3.5L V6	E35	S-5 A/T	D07

## PAINT REPAIR CODES

MMAL CODE	MMC CODE	PAINT COLOUR	PAINT REPAIR CODES			
			SPIES/ HECKER	PPG	SPARTAN	GLASURIT
WG	N40	MAWSON WHITE	—	RCK5	23427	—
KA	W38	COCOON WHITE	23068	48538	23380	55-MAU-KA
KX	A45	PEWTER	75189	RCK3B	23192	—
HH	E02	KASHMIR	80604	48215	21540	55-MAU-HH
YE	F52	DAINTREE GREEN	67554	WJP8B	24029	—
HT	R27	SIENNA RED	34541	PGL5B	22900	55-MAU-HT
TP	R28	BURRA	34458	LEA5B	22230	55-MAU-TP
YD	D51	SAPPHIRE BLUE	67499	WBH7B	24030	—
EE	T39	PACIFIC BLUE (TJ ONLY)	58778	—	23426	
YA	X48	SABLE	75172	RNK4B	23429	—
FA	PO7	FLAME RED	—	—	24265	—

## HOTLINE REPORTING

As the Magna/Verada AWD is an all new model with unique drivetrain componentry (front and rear drive shafts, propellor shaft, transfer case.) particular attention is to be applied to the inspection and reporting of any concerns by hotline at the Predelivery inspection and 1500 free service.

## OPERATORS MANUAL and SERVICE INFORMATION

Operators Manual Pt No. **MR928155** and Service and Warranty book Pt No. **MR928661** are provided with the vehicle and it is essential that these publications are in the vehicle when delivered to the customer.

An update **CD** service manual is currently in production to cover the changes applicable to the Magna / Verada AWD models.

Any dealer requiring technical information prior to the workshop manual supplement CD distribution should contact Technical Publications Support at MMAL at 1300–131211

## AUDIO SECURITY CODES

There is a radio security information card, with the radio security code, located in the glove box. Please ensure that this card is supplied to the owner at time of vehicle delivery.

## PRODUCTION DATE

December 2002