

mitsubishi

REAR WHEEL DRIVE MANUAL TRANSMISSION WORKSHOP MANUAL

FOREWORD

This Workshop Manual contains procedures for removal, disassembly, inspection, adjustment, reassembly and installation, etc. for service mechanics.

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

FILING INSTRUCTION

Please keep these manual pages in the binder No. BN940001.

File these pages according to the signs "Added", "Revised" and "Deleted" on the "List of effective pages" which are interpreted below.

Added: File the pages with this sign additionally in your manual.

Revised. Deleted:

Replace the existing pages with the corresponding pages with this sign.

Missing sheets will be supplied upon request.

Clutch **21A**

Manual Transmission **22A**
Model R4M21, R5M21 and
V5M21 (Up to 2000 Model)

Manual Transmission **22B**
Model V5MT1

Manual Transmission **22C**
Model R5M3, V5M3

Manual Transmission **22D**
Model R5M21, V5M21
(From 2001 Model)

HOW TO USE THIS MANUAL

CONTENTS

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

PAGE NUMBERS

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

TEXT

Unless otherwise specified, each service procedure covers all models. Procedures covering specific models are identified by the model codes, destination or similar designation (engine type, transmission type, etc.)

SERVICE PROCEDURES

The service steps are arranged in numerical order and attentions to be paid in performing vehicle service are described in detail in SERVICE POINTS.

Group title

Section title

Group number

Page number

MANUAL TRANSMISSION – Transmission **22A-3-1**

3. TRANSMISSION **F4M21, F5M21**

Denotes tightening torque

NOTE:

- Torque may also be shown in rectangles in the order of units (Nm, kgm and ft.lbs. from left) as follows.

33	3.3	23
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- From December 1998 on, torque values are given only in SI unit.

Denotes non-reusable parts

Disassembly steps

<ol style="list-style-type: none"> 1. Transmission switch 2. Gasket 3. Rear cover 4. Backup lamp switch 5. Gasket 6. Poppet plug 7. Poppet spring 8. Poppet ball 9. Speedometer driven gear assembly 10. Air breather 11. Spring pin 12. Lock nut 13. Lock nut 14. 5th speed synchronizer assembly 	<ol style="list-style-type: none"> 15. 5th speed shift fork 16. Synchronizer ring 17. 5th speed gear 18. Needle bearing 19. Bearing sleeve 20. Dished washer 21. Snap ring (From DEC. 1987 – F5M21) 22. Spacer 23. Roller bearing 24. 5th speed intermediate gear
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NOTE
③ ④ ⑤ ⑥: Refer to "Details of Change" table

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This number shows the sequence of removal or disassembly. For installation or reassembly, reverse the removal or disassembly steps.

Issue date

Publication number – Revision code

DEFINITION OF TERMS STANDARD VALUE

Indicates the value used as the standard for judging the quality of a part or assembly on inspection or the value to which the part or assembly is corrected and adjusted. It is given by tolerance.

LIMIT

Shows the standard for judging the quality of a part or assembly on inspection and means the maximum or minimum value within which the part or assembly must be kept functionally or in strength. It is a value established outside the range of standard value.

COMPARISON OF OLD AND NEW MODELS

New Model	Old Model
R4M21	KM130, KM131
R5M21	KM132, KM135
V5M21	KM145, KM147
V5MT1	-
R5M31	-
V5M31	-

Operating procedures, cautions, etc. on removal, installation, disassembly and reassembly are described.

Denotes service point for removal or disassembly.

NOTE:
cAd is in use since Feb. 1991.
◀A▶ is in use since Dec. 1998.

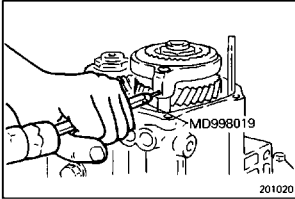
Denotes service point for installation or reassembly.

NOTE:
DAC is in use since Feb. 1991.
▶A◀ is in use since Dec. 1998.

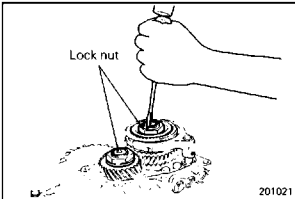
MANUAL

TRANSMISSION – Transmission 22A-3-17

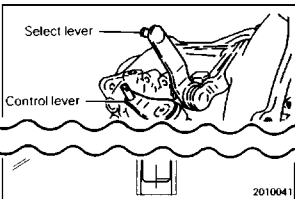
→SERVICE POINTS OF DISASSEMBLY



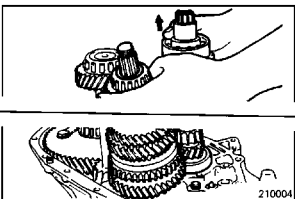
MD998019
201020



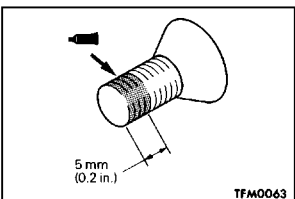
Lock nut
201021



Select lever
Control lever
201004



210004



5 mm (0.2 in.)
TFM0063

Ⓐ REMOVAL OF SPRING PIN FOR OD-R SHIFT FORK

Ⓑ REMOVAL OF LOCK NUTS FOR INPUT SHAFT / INTERMEDIATE GEAR

(1) Unstake lock nuts of the input shaft and intermediate gear.

(2) Shift the transmission in reverse using the control lever and select lever.

Ⓒ INSTALLATION OF INTERMEDIATE GEAR ASSEMBLY / INPUT SHAFT ASSEMBLY

(1) Lifting up the input shaft assembly, install it simultaneously with the intermediate gear assembly.

Ⓓ APPLICATION OF SEALANT TO BEARING RETAINER MOUNTING BOLT

Specified sealant: 3M STUOL Locking No. 4170 or equivalent

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