

MITSUBISHI

ENGINE

4M4 SERIES

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.

FLING INSTRUCTION

Please keep these manual pages in the binder box. 3H040001.

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

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

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Missing sheets will be supplied upon request.

This 4M4 Engine Workshop Manual is issued as a comprehensive manual and correspondence. In these sheets, the former 4M4 Engine Workshop Manual (No. 3H040001) is.

 MITSUBISHI MOTORS CORPORATION

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Pub. No. PWEE9409-E

INTRODUCTION

EXPLANATION OF MANUAL CONTENTS

Maintenance and Servicing Procedures

- (1) A diagram of the component parts is provided near the front of each section in order to give the reader a better understanding of the related condition of component parts.
- (2) The numbers provided within the diagram indicate the sequence for maintenance and servicing procedures; the number  indicates a non-removable part; the tightening torque is provided where applicable.

- Removal steps
The part designation number corresponds to the number in the illustration to indicate removal steps.
- Assembly steps
The part designation number corresponds to the number in the illustration to indicate assembly steps.
- Installation steps
Specified in case installation is impossible in reverse order of removal steps. (Omit) if installation is possible in reverse order of removal steps.
- Reassembly steps
Specified in case reassembly is impossible in reverse order of disassembly steps. (Omit) if reassembly is possible in reverse order of disassembly steps.

Classification of Major Maintenance/Service Points

When there are major points relative to maintenance and servicing procedures (such as essential maintenance and service points, maintenance and service standard values, information regarding the use of special tools, etc.), these are arranged together as major maintenance and service points and explained in detail.

 or  Indicates that there are essential points for removal or disassembly.

 or  Indicates that there are essential points for installation or reassembly.

4M4

11A  11B

11C  11D  11E

Symbols for Lubrication, Sealants and Adhesives

Information concerning the locations for lubrication and for application of sealants and adhesives is provided by using symbols in the diagram of component parts, or in the page following the component parts page, and explained.



Grease
multipurpose grease (unless there is a brand or type specified)



Sealant or adhesive



Brake fluid, automatic transmission fluid or air conditioner compressor oil



Engine oil or gear oil

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Pemeliharaan Sasis dan Pemindah Tenaga Kendaraan Ringan SMK/MAK Kelas XII. Program Keahlian Teknik Otomotif. Kompetensi Keahlian Teknik Kendaraan Ringan Otomotif (Edisi Revisi) Z. Furqon, S.T., Drs. Joko Pramono, 2021-04-13 Buku yang berjudul *Pemeliharaan Sasis dan Pemindah Tenaga Kendaraan Ringan SMK MAK Kelas XII* ini hadir sebagai penunjang pembelajaran pada Sekolah Menengah Kejuruan Teknik Otomotif Kompetensi Keahlian Teknik Kendaraan Ringan Otomotif. Buku ini berisi materi pembelajaran yang membekali para siswa dengan pengetahuan dan keterampilan dalam dunia otomotif yang mengacu pada Kurikulum 2013 revisi tahun 2017. Materi yang dibahas dalam buku ini meliputi beberapa hal berikut: Mendiagnosis kerusakan kopling, Mendiagnosis kerusakan transmisi, Mendiagnosis kerusakan poros, Mendiagnosis kerusakan sistem rem, Mendiagnosis kerusakan pada sistem suspensi, Mendiagnosis kerusakan pada sistem kemudi, Mendiagnosis pelek. Mengevaluasi perbaikan sasis dan pemindah tenaga. Berdasarkan materi yang telah disajikan, para siswa diajak untuk melakukan aktivitas HOTS (Higher Order Thinking Skills) dengan cara menanya, mengeksplorasi, mengamati, mengasosiasikan, dan mengomunikasikan. Buku ini dilengkapi dengan latihan soal berupa pilihan ganda, esai, dan tugas proyek. Hal ini bertujuan untuk mengukur kemampuan siswa dalam memahami materi. Selain itu, buku ini juga dilengkapi dengan info untuk menambah pengetahuan para siswa. Kebutuhan akan buku ini sejalan dengan tuntutan kompetensi SMK MAK bidang teknik otomotif. Dengan demikian, kami berharap bahwa siswa dapat mencapai kompetensi yang diharapkan dan lulusan SMK MAK dapat mempersiapkan diri dengan baik ketika memasuki dunia kerja.

Domestic Microgeneration Iain Staffell, Daniel J.L. Brett, Nigel P. Brandon, Adam D. Hawkes, 2015-06-19. *Microgeneration producing energy for the home* is a substantial improvement over the current centralised and detached energy model employed the world over. Domestic Microgeneration is the first in depth reference work for this exciting and emerging field of energy generation. It provides detailed reviews of ten state of the art technologies including solar PV and thermal micro CHP and heat pumps and considers them within the wider context of the home in which they are installed and the way that they are operated. Alongside the many successes, this book highlights the common pitfalls that beset the industry. It offers best practice guidance on how they can be avoided by considering the complex linkages between technology, user, installer, and government. This interdisciplinary work draws together the social, economic, political, and environmental aspects of this very diverse energy genre into a single must have reference for academics and students of sustainability and energy related subjects, industry professionals, policy makers, and the growing number of energy literate householders who are looking for ways to minimise their environmental footprint and their energy bills with microgeneration.

Pemeliharaan Sasis dan Pemindah Tenaga Kendaraan Ringan SMK/MAK Kelas XI. Program Keahlian Teknik Otomotif. Kompetensi Keahlian Teknik Kendaraan Ringan Otomotif (Edisi Revisi). Z. Furqon, S.T., Drs. Joko Pramono, 2021-04-13. Buku yang berjudul *Pemeliharaan Sasis dan Pemindah Tenaga Kendaraan Ringan SMK MAK Kelas XI* ini hadir sebagai penunjang pembelajaran pada Sekolah Menengah Kejuruan Teknik Otomotif.

Kompetensi Keahlian Teknik Kendaraan Ringan Otomotif Buku ini berisi materi pembelajaran yang membekali para siswa dengan pengetahuan dan keterampilan dalam dunia otomotif yang mengacu pada Kurikulum 2013 revisi tahun 2017 Materi yang dibahas dalam buku ini meliputi beberapa hal berikut Perawatan kopling pada mobil Perawatan transmisi mobil Perawatan poros propeler differential dan poros roda pada mobil Perawatan sistem rem pada mobil Perawatan sistem kemudi dan power steering pada mobil Perawatan roda mobil Perawatan ban dan evaluasi hasil perawatan berkala Berdasarkan materi yang telah disajikan para siswa diajak untuk melakukan aktivitas HOTS Higher Order Thinking Skills dengan cara menanya mengeksplorasi mengamati mengasosiasikan dan mengomunikasikan Buku ini dilengkapi dengan latihan soal berupa pilihan ganda esai dan tugas proyek Hal ini bertujuan untuk mengukur kemampuan siswa dalam memahami materi Selain itu buku ini juga dilengkapi dengan info untuk menambah pengetahuan para siswa Kebutuhan akan buku ini sejalan dengan tuntutan kompetensi SMK MAK bidang teknik otomotif Dengan demikian kami berharap bahwa siswa dapat mencapai kompetensi yang diharapkan dan lulusan SMK MAK dapat mempersiapkan diri dengan baik ketika memasuki dunia kerja

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accounting administrative and support staff environmental professionals etc No prior experience or knowledge of drilling operations is required This course will provide participants a better understanding of the issues faced in all aspects of drilling operations with a particular focus on the unique aspects of offshore operations **150 technical questions and answers for job interview Offshore Drilling Rigs** Petrogav International Oil & Gas Training Center,2020-06-28 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 150 questions and answers for job interview and as a BONUS 230 links to video movies This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry **200 technical questions and answers for job interview Offshore Oil & Gas Rigs** Petrogav International Oil & Gas Training Center,2020-06-30 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 200 questions and answers for job interview and as a BONUS web addresses to 230 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry Training for job interview Offshore Oil & Gas Rigs Petrogav International Oil & Gas Training Center,2020-07-01 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and without hesitation This eBook contains 275 questions and answers for job interview and as a BONUS web addresses to 289 video movies for a better understanding of the technological process This course covers aspects like HSE Process Mechanical Electrical and Instrumentation Control that will enable you to apply for any position in the Oil and Gas Industry *273 technical questions and answers for job interview Offshore Oil & Gas Rigs* Petrogav International Oil & Gas Training Center,2020-06-30 The job interview is probably the most important step you will take in your job search journey Because it s always important to be prepared to respond effectively to the questions that employers typically ask at a job interview Petrogav International has prepared this eBooks that will help you to get a job in oil and gas industry Since these questions are so common hiring managers will expect you to be able to answer them smoothly and

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