

SERVICE MANUAL KORANDO

FOREWORD

This manual includes procedure for maintenance, adjustment, service operation and removal and installation of components.

All information, illustrations and specifications contained in this manual are based on the latest product information available at the time of manual approval.

The right is reserved to make changes at any time without notice.



DAEWOO MOTOR CO., LTD.
INCHON, KOREA

SECTION INDEX

FRONT MATTER

0A

GENERAL INFORMATION

0B

ENGINE

1

SUSPENSION

2

DRIVE LINE/AXLE

3

BRAKES

4

TRANSMISSION

5

STEERING

6

**HVAC
(HEATING, VENTILATION,
AND AIR CONDITIONING)**

7

RESTRAINTS

8

BODY AND ACCESSORIES

9

PERSONAL INJURY CAUTION

Appropriate service methods and proper repair procedure are essential for the safe, reliable operation of all motor vehicles, as well as for the personal safety of the person doing the repair. There are many variations in procedures, techniques, tools and parts for servicing vehicles, as well as in the skills of the people doing the work. This manual cannot possibly anticipate all such variations and provide advice or precautions for each. Anyone who deviates from the instructions provided in this manual must ensure their own safety and preserve the safety and integrity of the vehicle. The following list contains general precautions that should always be followed while working on a vehicle.

- *Safety stands are required whenever a procedure calls for underbody work.*
- *Do not smoke when you work on a vehicle.*
- *To prevent serious burns, do not touch any hot metal parts.*
- *Set the parking brake when you work on the vehicle.*
- *Turn the ignition switch OFF unless a procedure states otherwise.*
- *The engine may operate only in a well-ventilated area.*
- *Avoid moving parts when the engine is running.*
- *Safety glasses must be worn for eye protection.*

KORANDO

Service Manual

FOREWORD

This manual includes procedures for maintenance, adjustment, service operations, and removal and installation of components for the KORANDO vehicle.

When reference is made in this manual to a brand name, number, or specific tool, an equivalent product may be used in place of the recommended item.

All information, illustrations and specifications contained in this manual are based on the latest product information available at the time of publication approval. The right is reserved to make changes at any time without notice.

Daewoo Motor Company, Limited
Overseas Technical Service Department
391-9 Chong Chon-2 Dong, Pu Pyung-Gu,
Inchon, Korea
Tel : 82-32-509-4161 ~ 4164
Fax : 82-32-509-4160
E-mail : m8610452@dwmc.co.kr
m9610883@dwmc.co.kr

Daewoo Motor Company, Limited
All rights Reserved

No part of this publication may be reproduced, stored in any retrieval system or transmitted, in any form or by any means, including but not limited to electronic, mechanical, photocopying, recording or otherwise, without the prior written permission of Daewoo Motor Company, Limited

TABLE OF CONTENTS

Section 0A	Front Matter	Section 5	Transmission
Section 0B	General Information	Section 5A	Automatic Transmission
Section 1	Engine	Section 5B	Manual Transmission
Section 1A1	M162 General Engine Information	Section 5C	Clutch
Section 1B1	M162 Engine Mechanical	Section 5D1	Transfer Case (Part Time 4480)
Section 1D1	M162 Engine Cooling	Section 5D2	Transfer Case (TOD)
Section 1E1	M162 Engine Electrical	Section 6	Steering
Section 1F1	M162 Engine Controls	Section 6A	Power Steering System
Section 1G1	M162 Engine Intake & Exhaust	Section 6E	Steering Wheel and Column
Section 1A2	M161 General Engine Information	Section 7	HVAC (Heating, Ventilation & Air Conditioning)
Section 1B2	M161 Engine Mechanical	Section 7B/C	Manual Control/Semiauto Temperature Control Heating, Ventilation, and Air Conditioning System
Section 1D2	M161 Engine Cooling	Section 7D	Full Automatic Temperature Control Heating, Ventilation, and Air Conditioning System
Section 1E2	M161 Engine Electrical	Section 8	Restraints
Section 1F2	M161 Engine Controls	Section 8A	Seat Belts
Section 1G2	M161 Engine Intake & Exhaust	Section 8B	Supplemental Restraint System (SRS)
Section 1A3	OM600 General Engine Information	Section 9	Body and Accessories
Section 1B3	OM600 Engine Mechanical	Section 9A	Body Wiring System
Section 1D3	OM600 Engine Cooling	Section 9B	Lighting Systems
Section 1E3	OM600 Engine Electrical	Section 9D	Wipers/Washer Systems
Section 1F3	OM600 Engine Controls	Section 9E	Instrumentation/Driver Information
Section 1G3	OM600 Engine Intake & Exhaust	Section 9F	Audio
Section 2	Suspension	Section 9H	Seats
Section 2A	Suspension Diagnosis	Section 9L	Glass and Mirrors
Section 2B	Wheel Alignment	Section 9N	Front and Under Body
Section 2C	Front Suspension	Section 9O	Bumpers and Fenders
Section 2D	Rear Suspension	Section 9P	Doors
Section 2E	Tires and Wheels	Section 9Q	Roof
Section 3	Drive Line / Axle	Section 9R	Body Front End
Section 3A	Front Drive Axle	Section 9T	Remote Keless Entry and Anti-Theft System
Section 3C	Propeller Shaft	Section 9U	Control Units and System
Section 3D	Rear Drive Axle	Section 9V	Switches
Section 4	Brakes	Section 9W	Immobilizer System
Section 4A	Hydraulic Brakes		
Section 4B	Master Cylinder		
Section 4C	Power Booster		
Section 4D	Front Disc Brakes		
Section 4E	Rear Disc Brakes		
Section 4F	Antilock Brake System		
Section 4G	Parking Brakes		

**KORANDO
SERVICE MANUAL**

**ISSUED BY
OVERSEAS TECH. SERVICE
DAEWOO MOTOR CO., LTD.**

391-9 CHONG CHON-2DONG, PU PYUNG-GU,
INCHON, KOREA

TELEPHONE : 82-32-509-4161~4164
FACSIMILE : 82-32-509-4160

ENGINE

CONTENTS

SECTION 1A1	M162	GENERAL ENGINE INFORMATION
SECTION 1B1	M162	ENGINE MECHANICAL
SECTION 1D1	M162	ENGINE COOLING
SECTION 1E1	M162	ENGINE ELECTRICAL
SECTION 1F1	M162	ENGINE CONTROLS
SECTION 1G1	M162	ENGINE INTAKE & EXHAUST
SECTION 1A2	M161	GENERAL ENGINE INFORMATION
SECTION 1B2	M161	ENGINE MECHANICAL
SECTION 1D2	M161	ENGINE COOLING
SECTION 1E2	M161	ENGINE ELECTRICAL
SECTION 1F2	M161	ENGINE CONTROLS
SECTION 1G2	M161	ENGINE INTAKE & EXHAUST
SECTION 1A3	OM600	GENERAL ENGINE INFORMATION
SECTION 1B3	OM600	ENGINE MECHANICAL
SECTION 1D3	OM600	ENGINE COOLING
SECTION 1E3	OM600	ENGINE ELECTRICAL
SECTION 1F3	OM600	ENGINE CONTROLS
SECTION 1G3	OM600	ENGINE INTAKE & EXHAUST

SUSPENSION

CONTENTS

SECTION 2A SUSPENSION DIAGNOSIS

SECTION 2B WHEEL ALIGNMENT

SECTION 2C FRONT SUSPENSION

SECTION 2D REAR SUSPENSION

SECTION 2E TIRES AND WHEELS

DRIVE LINE / AXLE

CONTENTS

SECTION 3A FRONT DRIVE AXLE

SECTION 3C PROPELLER SHAFT

SECTION 3D REAR DRIVE AXLE

BRAKE

CONTENTS

- SECTION 4A HYDRAULIC BRAKES**
- SECTION 4B MASTER CYLINDER**
- SECTION 4C POWER BOOSTER**
- SECTION 4D FRONT DISC BRAKES**
- SECTION 4E REAR DISC BRAKES**
- SECTION 4F ANTILOCK BRAKE SYSTEM**
- SECTION 4G PARKING BRAKE**

TRANSMISSION

CONTENTS

SECTION 5A AUTOMATIC TRANSMISSION

SECTION 5B MANUAL TRANSMISSION

SECTION 5C CLUTCH

SECTION 5D1 TRANSFER CASE (PART TIME 4408)

SECTION 5D2 TRANSFER CASE (TOD)