



SERVICE MANUAL

4G15 Gasoline Engine

For FG10, FG15, FG18

RW7911-up

FOREWORD

This service manual has instructions and procedures for the 4G15 gasoline engines. The information, specifications, and illustrations used in this manual are based on information that was current at the time this issue was written.

Correct servicing will give the engines a long productive life. Before attempting to start a test, repair or rebuild job, be sure that you have studied the respective sections of this manual, and know all the components you will work on.

Continuing advancement and improvement of product design may have caused changes to your engines which are not included in this manual.

Whenever a question arises regarding your engines, or this manual, please consult your dealer for the latest available information.

TABLE OF CONTENTS

GENERAL INFORMATION	2
SERVICE SPECIFICATIONS	10
TIGHTENING TORQUES	13
SEALANTS	16
SPECIAL TOOLS	17
INSPECTION AND ADJUSTMENT	19
ALTERNATOR AND IGNITION SYSTEM	23
TIMING BELT	26
FUEL SYSTEM	31
INTAKE MANIFOLD AND WATER PUMP	32
EXHAUST MANIFOLD	34
ROCKER ARMS, ROCKER ARM SHAFTS AND CAMSHAFT	35
CYLINDER HEAD AND VALVES	39
OIL PUMP AND OIL PAN	47
PISTONS AND CONNECTING RODS	51
CRANKSHAFT AND CYLINDER BLOCK	57
CARBURETOR	63
AIR GOVERNOR	69
STARTER MOTOR	71
ALTERNATOR	80
DISTRIBUTOR	85
TROUBLESHOOTING	87