

CONTENTS

I.	SPECIFICATIONS	3
1.	SPECIFICATIONS	3
2.	DIMENSIONAL DRAWINGS	4
II.	SERVICE INFORMATION	5
1.	GENERAL SAFETY	5
2.	SERVICE RULES	5
3.	SERIAL NUMBER LOCATION	5
4.	MAINTENANCE STANDARDS	6
5.	TORQUE VALUES	7
6.	SPECIAL TOOLS	8
7.	WIRING DIAGRAM	10
8.	TUBE ROUTING	11
9.	TROUBLESHOOTING	12
10.	MAINTENANCE SCHEDULE	15
11.	RECOMMENDED SERVICE MATERIALS	16
12.	LUBRICATION CHART	17
III.	MAINTENANCE	18
1.	ENGINE OIL	18
2.	GEAR OIL	19
3.	SPARK PLUG	19
4.	VALVE CLEARANCE	20
5.	FUEL LINE FILTER	20
6.	FUEL TANK FILTER	21
7.	CARBURETOR	21
8.	THROTTLE CABLE	22
9.	THROTTLE OPENER SYSTEM	22
10.	SHIFT ROD	23
11.	REVERSE LOCK	23
IV.	DISASSEMBLY AND SERVICE	25
1.	DISASSEMBLY CHART	25
2.	ENGINE COVER/RECOIL STARTER	26
3.	CARBURETOR/FUEL PUMP	29
4.	FLYWHEEL/ELECTRICAL EQUIPMENT	34
5.	ENGINE REMOVAL	39
6.	CYLINDER HEAD/VALVE	41
7.	OIL PAN	45
8.	CRANKSHAFT/PISTON	48
9.	THROTTLE CABLE/HANDLE	56
10.	EXTENSION CASE/SWIVEL CASE/ STERN BRACKET	59
11.	GEAR CASE REMOVAL	62
12.	PROPELLER SHAFT/GEAR CASE	63
13.	FUEL TANK	69
V.	OPTIONAL PARTS	70
1.	REMOTE CONTROL BRACKET KIT	70
2.	DC CHARGING AND LIGHTING KIT	74
VI.	OPERATION	75
1.	LUBRICATION SYSTEM	75
2.	COOLING SYSTEM	76
3.	POWER TRAIN	77
4.	FUEL SYSTEM	78
5.	NEUTRAL START SYSTEM	79
6.	THROTTLE OPENER SYSTEM	80
7.	HALF THROTTLE SYSTEM	81