

**CONTENTS**

<b>I. SPECIFICATIONS . . . . .</b>	<b>3</b>
1. SPECIFICATIONS . . . . .	3
2. DIMENSIONAL DRAWINGS . . . . .	4
<b>II. SERVICE INFORMATION . . . . .</b>	<b>5</b>
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
<b>III. MAINTENANCE . . . . .</b>	<b>18</b>
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
<b>IV. DISASSEMBLY AND SERVICE . . . . .</b>	<b>25</b>
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
<b>V. OPTIONAL PARTS . . . . .</b>	<b>70</b>
1. REMOTE CONTROL BRACKET KIT . . . . .	70
2. DC CHARGING AND LIGHTING KIT . . . . .	74
<b>VI. OPERATION . . . . .</b>	<b>75</b>
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