TABLE OF CONTENTS

1	SAFETY		LOWER UNIT	3-15
	INTRODUCTION	1-1	WINTER STORAGE	3-16
	CLEANING, WAXING, & POLISHIN		4 FUEL	
	CONTROLLING CORROSION	1-2	4 FOEL	
	PROPELLERS	1-2	INTRODUCTION	4_1
	FUEL SYSTEM	1-7	GENERAL CARBURETION	4-1
	LOADING	1-9	INFORMATION	4-2
	HORSEPOWER	1-10	CARBURETOR IDENTIFICATION	4-4
	FLOTATION	1-10	FUEL SYSTEM	4-5
	EMERGENCY EQUIPMENT	1-12	Leaded Gasoline & Gasohol	4-6
	COMPASS	1-14	Removing Fuel From System	4-6
	ANCHORS	1-16	TROUBLESHOOTING	7-0
	MISCELLANEOUS EQUIPMENT	1-17	MODELS W/O EFI	4-7
	BOATING ACCIDENT REPORTS	1-18	"Sour" Fuel	4-7
	NAVIGATION	1-18	Fuel Pump Test	4-9
		1-10	Fuel Line Test	4-11
_			Rough Engine Idle	4-11
2	TUNING		Excessive Fuel Consumption	4-11
			Engine Surge	4-12
	INTRODUCTION	2-1	Anti-Syphon Valve	4-12
	TUNE-UP SEQUENCE	2-2	ENRICHENER SYSTEM	4-12
	COMPRESSION CHECK	2-2	"2+2" SYSTEM	4-13
	SPARK PLUG INSPECTION	2-3	Z+Z SISILW	7-12
	IGNITION SYSTEM	2-4	CARBURETOR "A" - "MERCARB"	
	TIMING AND SYNCHRONIZING	2-4	WITH OR WITHOUT INTEGRAL	
	ELECTRICAL POWER SUPPLY	2-5	FUEL PUMP	4-14
	CARBURETOR ADJUSTMENT	2-6	Removal & Disassembling	4-15
	ELECTRONIC FUEL INJECTION	2-9	Cleaning & Inspecting	4-18
	FUEL PUMPS	2-9	Assembling & Installation	4-20
	OIL INJECTION	2-10	Adjustments	4-23
	CRANKING MOTOR		Najastinents	7-27
	AND SOLENOID	2-10	CARBURETOR "B" CENTER	
	INTERNAL WIRING HARNESS	2-11	SQUARE BOWL	4-23
	WATER PUMP CHECK	2-11	Removal & Disassembling	4-23
	PROPELLER	2-12	Cleaning & Inspecting	4-26
	LOWER UNIT	2-13	Assembling & Installation	4-28
	BOAT TESTING	2-14	Adjustments	4-32
3	MAINTENANCE		CARBURETOR "C" - WME SERIES	4-33
7	MAINTENANCE			4-33
	INTRODUCTION	2 1	Removal & Disassembling	4-36
	OUTBOARD SERIAL NUMBERS	3-1 3-2	Cleaning & Inspecting	4-37
			Assembling & Installation	4-37
	LUBRICATION - COMPLETE UNIT PRE-SEASON PREPARATION	3-2 3-4	Adjustments	4-37
	FIBERGLASS HULLS	3-8	CARBURETOR "D" SIDE BOWL	
	BELOW WATERLINE SERVICE	3-8 3-9	AND BACK DRAG	4-39
	SUBMERGED ENGINE SERVICE	3-9	Removal & Disassembling	4-39
	PROPELLER SERVICE	3-12	Cleaning & Inspecting	4-42
	POWER TRIM/TILT	3-12 3-13	Assembling & Installation	4-42
	INSIDE THE BOAT	3-15	Assembling & installation Adjustments	4-48
	HANDE THE DOM!	フーエフ	Adjustinents	T-40

6-3 6-2 6-7
6-2
n-/
6-7
6-8
6-8
6-11
6-11
6-19
6-19
6-21
6-22
0-22
6-23
6-24
6-24
7-1
, 7-3
, ,-,
7-6
/-0
7-6
, -0
7-8
7-10
7-11
7-14
, 4 .
7-16

6-CYLINDER IN-LINE POWERHEADS WITHOUT		REDESIGNED IN-LINE POWERHEADS	
DISTRIBUTOR MODEL 90HP		MODEL 75 3-CYL. 1988 & ON	
MODEL 115HP MODEL 140HP	7-18	MODEL 90 3-CYL. 1988 & ON MODEL 100 4-CYL. 1988 & ON MODEL 115 4-CYL. 1989 & ON	
V6 POWERHEADS WITHOUT EFI		Removal	8-29
MODEL 175HP S/N 4838074 to 6618750	7-21	Disassembling Assembling	8-32 8-46
MODEL 150HP		Installation	8-58
S/N 5203428 AND BELOW MODEL 200HP		V6 POWERHEAD Removal	8-62
S/N 5363917 AND BELOW	7-24	Disassembling	8-63 8-74
MODEL 135HP		Assembling Installation	8-74 8-90
MODEL 150HP S/N 5203429 AND ABOVE		CLEANING AND INSPECTING	
MODEL 175 HP		ALL MODELS	8-95
S/N 6618751 AND ABOVE MODEL 200HP		Thermostat Service Reed Block Service	8-95 8-96
S/N 5363918 TO 6073191	7-27	Crankshaft Service	8-98
MODEL 200HP		End Cap Bearings Connecting Rod Service	8-99 8-100
S/N 6073192 AND ABOVE	7-30	Piston Service	8-102
V6 POWERHEADS WITH EFI	7-33	Ring End Gap Cylinder Block Service	8-103 8-104
		Honing Procedures	8-105
		7.0111.16	
8 DOWEDLEAD		9 ELECTRICAL	
8 POWERHEAD		9 ELECTRICAL INTRODUCTION	9-1
CHAPTER ORGANIZATION	8-1	9 ELECTRICAL INTRODUCTION BATTERIES	9-1
CHAPTER ORGANIZATION GENERAL POWERHEAD		9 ELECTRICAL INTRODUCTION BATTERIES JUMPER CABLES	9-1 9-5
CHAPTER ORGANIZATION GENERAL POWERHEAD INFORMATION	8-2	9 ELECTRICAL INTRODUCTION BATTERIES JUMPER CABLES GAUGES AND HORNS	9-1 9-5 9-7
CHAPTER ORGANIZATION GENERAL POWERHEAD INFORMATION COOLING LECTURE		9 ELECTRICAL INTRODUCTION BATTERIES JUMPER CABLES GAUGES AND HORNS Temperature Gauges	9-1 9-5
CHAPTER ORGANIZATION GENERAL POWERHEAD INFORMATION	8-2 8-4	9 ELECTRICAL INTRODUCTION BATTERIES JUMPER CABLES GAUGES AND HORNS	9-1 9-5 9-7 9-8 9-8 9-9
CHAPTER ORGANIZATION GENERAL POWERHEAD INFORMATION COOLING LECTURE CYLINDER DRAIN SYSTEM REMOVAL AND DISASSEMBLING ORIGINAL DESIGN IN-LINE	8-2 8-4	9 ELECTRICAL INTRODUCTION BATTERIES JUMPER CABLES GAUGES AND HORNS Temperature Gauges Warning Lights Fuel Gauges Tachometer	9-1 9-5 9-7 9-8 9-8 9-9
CHAPTER ORGANIZATION GENERAL POWERHEAD INFORMATION COOLING LECTURE CYLINDER DRAIN SYSTEM REMOVAL AND DISASSEMBLING ORIGINAL DESIGN IN-LINE POWERHEADS	8-2 8-4	9 ELECTRICAL INTRODUCTION BATTERIES JUMPER CABLES GAUGES AND HORNS Temperature Gauges Warning Lights Fuel Gauges Tachometer Horns	9-1 9-5 9-7 9-8 9-8 9-9
CHAPTER ORGANIZATION GENERAL POWERHEAD INFORMATION COOLING LECTURE CYLINDER DRAIN SYSTEM REMOVAL AND DISASSEMBLING ORIGINAL DESIGN IN-LINE POWERHEADS MODEL 45 4-CYL. 1986 & ON	8-2 8-4	9 ELECTRICAL INTRODUCTION BATTERIES JUMPER CABLES GAUGES AND HORNS Temperature Gauges Warning Lights Fuel Gauges Tachometer Horns ELECTRICAL SYSTEM	9-1 9-5 9-7 9-8 9-8 9-9 9-11
CHAPTER ORGANIZATION GENERAL POWERHEAD INFORMATION COOLING LECTURE CYLINDER DRAIN SYSTEM REMOVAL AND DISASSEMBLING ORIGINAL DESIGN IN-LINE POWERHEADS MODEL 45 4-CYL. 1986 & ON MODEL 50 4-CYL. 1982-85	8-2 8-4	9 ELECTRICAL INTRODUCTION BATTERIES JUMPER CABLES GAUGES AND HORNS Temperature Gauges Warning Lights Fuel Gauges Tachometer Horns ELECTRICAL SYSTEM GENERAL INFORMATION	9-1 9-5 9-7 9-8 9-8 9-9 9-11 9-11
CHAPTER ORGANIZATION GENERAL POWERHEAD INFORMATION COOLING LECTURE CYLINDER DRAIN SYSTEM REMOVAL AND DISASSEMBLING ORIGINAL DESIGN IN-LINE POWERHEADS MODEL 45 4-CYL. 1986 & ON MODEL 50 4-CYL. 1982-85 MODEL 50 3-CYL. 1986 & ON	8-2 8-4	9 ELECTRICAL INTRODUCTION BATTERIES JUMPER CABLES GAUGES AND HORNS Temperature Gauges Warning Lights Fuel Gauges Tachometer Horns ELECTRICAL SYSTEM GENERAL INFORMATION CHARGING CIRCUIT SERVICE	9-1 9-5 9-7 9-8 9-8 9-9 9-11 9-11
CHAPTER ORGANIZATION GENERAL POWERHEAD INFORMATION COOLING LECTURE CYLINDER DRAIN SYSTEM REMOVAL AND DISASSEMBLING ORIGINAL DESIGN IN-LINE POWERHEADS MODEL 45 4-CYL, 1986 & ON MODEL 50 4-CYL, 1982-85 MODEL 50 3-CYL, 1986 & ON MODEL 60 3-CYL, 1984 & ON	8-2 8-4	9 ELECTRICAL INTRODUCTION BATTERIES JUMPER CABLES GAUGES AND HORNS Temperature Gauges Warning Lights Fuel Gauges Tachometer Horns ELECTRICAL SYSTEM GENERAL INFORMATION CHARGING CIRCUIT SERVICE Troubleshooting	9-1 9-5 9-7 9-8 9-8 9-9 9-11 9-11
CHAPTER ORGANIZATION GENERAL POWERHEAD INFORMATION COOLING LECTURE CYLINDER DRAIN SYSTEM REMOVAL AND DISASSEMBLING ORIGINAL DESIGN IN-LINE POWERHEADS MODEL 45 4-CYL. 1986 & ON MODEL 50 4-CYL. 1982-85 MODEL 50 3-CYL. 1986 & ON	8-2 8-4	9 ELECTRICAL INTRODUCTION BATTERIES JUMPER CABLES GAUGES AND HORNS Temperature Gauges Warning Lights Fuel Gauges Tachometer Horns ELECTRICAL SYSTEM GENERAL INFORMATION CHARGING CIRCUIT SERVICE	9-1 9-5 9-7 9-8 9-8 9-9 9-11 9-11 9-12 9-13
CHAPTER ORGANIZATION GENERAL POWERHEAD INFORMATION COOLING LECTURE CYLINDER DRAIN SYSTEM REMOVAL AND DISASSEMBLING ORIGINAL DESIGN IN-LINE POWERHEADS MODEL 45 4-CYL. 1986 & ON MODEL 50 4-CYL. 1982-85 MODEL 50 3-CYL. 1986 & ON MODEL 60 3-CYL. 1984 & ON MODEL 70 3-CYL. 1980-83 MODEL 75 4-CYL. 1984-86 MODEL 80 4-CYL. 1978-83	8-2 8-4	9 ELECTRICAL INTRODUCTION BATTERIES JUMPER CABLES GAUGES AND HORNS Temperature Gauges Warning Lights Fuel Gauges Tachometer Horns ELECTRICAL SYSTEM GENERAL INFORMATION CHARGING CIRCUIT SERVICE Troubleshooting Rectifier Removal Rectifier Installation STATOR SERVICE	9-1 9-5 9-7 9-8 9-8 9-9 9-11 9-11 9-12 9-13 9-14 9-15 9-17
CHAPTER ORGANIZATION GENERAL POWERHEAD INFORMATION COOLING LECTURE CYLINDER DRAIN SYSTEM REMOVAL AND DISASSEMBLING ORIGINAL DESIGN IN-LINE POWERHEADS MODEL 45 4-CYL. 1986 & ON MODEL 50 4-CYL. 1982-85 MODEL 50 3-CYL. 1986 & ON MODEL 60 3-CYL. 1984 & ON MODEL 70 3-CYL. 1980-83 MODEL 75 4-CYL. 1984-86 MODEL 80 4-CYL. 1978-83 MODEL 85 4-CYL. 1977	8-2 8-4	9 ELECTRICAL INTRODUCTION BATTERIES JUMPER CABLES GAUGES AND HORNS Temperature Gauges Warning Lights Fuel Gauges Tachometer Horns ELECTRICAL SYSTEM GENERAL INFORMATION CHARGING CIRCUIT SERVICE Troubleshooting Rectifier Removal Rectifier Installation STATOR SERVICE Removal	9-1 9-5 9-7 9-8 9-8 9-9 9-11 9-12 9-13 9-14 9-15 9-17 9-17
CHAPTER ORGANIZATION GENERAL POWERHEAD INFORMATION COOLING LECTURE CYLINDER DRAIN SYSTEM REMOVAL AND DISASSEMBLING ORIGINAL DESIGN IN-LINE POWERHEADS MODEL 45 4-CYL. 1986 & ON MODEL 50 4-CYL. 1982-85 MODEL 50 3-CYL. 1986 & ON MODEL 60 3-CYL. 1984 & ON MODEL 70 3-CYL. 1984-86 MODEL 75 4-CYL. 1978-83 MODEL 80 4-CYL. 1977 MODEL 90 L6 1978-86	8-2 8-4	9 ELECTRICAL INTRODUCTION BATTERIES JUMPER CABLES GAUGES AND HORNS Temperature Gauges Warning Lights Fuel Gauges Tachometer Horns ELECTRICAL SYSTEM GENERAL INFORMATION CHARGING CIRCUIT SERVICE Troubleshooting Rectifier Removal Rectifier Installation STATOR SERVICE Removal Installation	9-1 9-5 9-7 9-8 9-8 9-9 9-11 9-11 9-12 9-13 9-14 9-15 9-17 9-17 9-18
CHAPTER ORGANIZATION GENERAL POWERHEAD INFORMATION COOLING LECTURE CYLINDER DRAIN SYSTEM REMOVAL AND DISASSEMBLING ORIGINAL DESIGN IN-LINE POWERHEADS MODEL 45 4-CYL. 1986 & ON MODEL 50 4-CYL. 1982-85 MODEL 50 3-CYL. 1986 & ON MODEL 60 3-CYL. 1984 & ON MODEL 70 3-CYL. 1980-83 MODEL 75 4-CYL. 1984-86 MODEL 80 4-CYL. 1978-83 MODEL 85 4-CYL. 1977 MODEL 90 L6 1978-86 MODEL 115 L6 1978-88	8-2 8-4 8-6	9 ELECTRICAL INTRODUCTION BATTERIES JUMPER CABLES GAUGES AND HORNS Temperature Gauges Warning Lights Fuel Gauges Tachometer Horns ELECTRICAL SYSTEM GENERAL INFORMATION CHARGING CIRCUIT SERVICE Troubleshooting Rectifier Removal Rectifier Installation STATOR SERVICE Removal Installation CHOKE CIRCUIT	9-1 9-5 9-7 9-8 9-8 9-9 9-11 9-12 9-13 9-14 9-15 9-17 9-18 9-18 9-18
CHAPTER ORGANIZATION GENERAL POWERHEAD INFORMATION COOLING LECTURE CYLINDER DRAIN SYSTEM REMOVAL AND DISASSEMBLING ORIGINAL DESIGN IN-LINE POWERHEADS MODEL 45 4-CYL. 1986 & ON MODEL 50 4-CYL. 1982-85 MODEL 50 3-CYL. 1986 & ON MODEL 60 3-CYL. 1984 & ON MODEL 70 3-CYL. 1984-86 MODEL 75 4-CYL. 1978-83 MODEL 80 4-CYL. 1977 MODEL 80 16 1978-86 MODEL 115 L6 1978-88 MODEL 1140 L6 1978-80	8-2 8-4 8-6	INTRODUCTION BATTERIES JUMPER CABLES GAUGES AND HORNS Temperature Gauges Warning Lights Fuel Gauges Tachometer Horns ELECTRICAL SYSTEM GENERAL INFORMATION CHARGING CIRCUIT SERVICE Troubleshooting Rectifier Removal Rectifier Installation STATOR SERVICE Removal Installation CHOKE CIRCUIT ENRICHENER SYSTEM	9-1 9-5 9-7 9-8 9-8 9-9 9-11 9-11 9-12 9-13 9-14 9-15 9-17 9-17 9-18
CHAPTER ORGANIZATION GENERAL POWERHEAD INFORMATION COOLING LECTURE CYLINDER DRAIN SYSTEM REMOVAL AND DISASSEMBLING ORIGINAL DESIGN IN-LINE POWERHEADS MODEL 45 4-CYL. 1986 & ON MODEL 50 4-CYL. 1982-85 MODEL 50 3-CYL. 1986 & ON MODEL 60 3-CYL. 1984 & ON MODEL 70 3-CYL. 1980-83 MODEL 75 4-CYL. 1984-86 MODEL 80 4-CYL. 1978-83 MODEL 85 4-CYL. 1977 MODEL 90 L6 1978-86 MODEL 115 L6 1978-88 MODEL 140 L6 1978-80 Removal	8-2 8-4 8-6 8-8 8-9	INTRODUCTION BATTERIES JUMPER CABLES GAUGES AND HORNS Temperature Gauges Warning Lights Fuel Gauges Tachometer Horns ELECTRICAL SYSTEM GENERAL INFORMATION CHARGING CIRCUIT SERVICE Troubleshooting Rectifier Removal Rectifier Installation STATOR SERVICE Removal Installation CHOKE CIRCUIT ENRICHENER SYSTEM CRANKING MOTOR CIRCUIT	9-1 9-5 9-7 9-8 9-8 9-9 9-11 9-12 9-13 9-14 9-15 9-17 9-18 9-18 9-18
CHAPTER ORGANIZATION GENERAL POWERHEAD INFORMATION COOLING LECTURE CYLINDER DRAIN SYSTEM REMOVAL AND DISASSEMBLING ORIGINAL DESIGN IN-LINE POWERHEADS MODEL 45 4-CYL. 1986 & ON MODEL 50 4-CYL. 1982-85 MODEL 50 3-CYL. 1986 & ON MODEL 60 3-CYL. 1984 & ON MODEL 70 3-CYL. 1980-83 MODEL 75 4-CYL. 1984-86 MODEL 80 4-CYL. 1978-83 MODEL 85 4-CYL. 1977 MODEL 90 L6 1978-86 MODEL 115 L6 1978-88 MODEL 140 L6 1978-80 Removal Disassembling	8-2 8-4 8-6	INTRODUCTION BATTERIES JUMPER CABLES GAUGES AND HORNS Temperature Gauges Warning Lights Fuel Gauges Tachometer Horns ELECTRICAL SYSTEM GENERAL INFORMATION CHARGING CIRCUIT SERVICE Troubleshooting Rectifier Removal Rectifier Installation STATOR SERVICE Removal Installation CHOKE CIRCUIT ENRICHENER SYSTEM	9-1 9-5 9-7 9-8 9-8 9-9 9-11 9-12 9-13 9-14 9-15 9-17 9-18 9-18 9-19 9-20
CHAPTER ORGANIZATION GENERAL POWERHEAD INFORMATION COOLING LECTURE CYLINDER DRAIN SYSTEM REMOVAL AND DISASSEMBLING ORIGINAL DESIGN IN-LINE POWERHEADS MODEL 45 4-CYL. 1986 & ON MODEL 50 4-CYL. 1982-85 MODEL 50 3-CYL. 1986 & ON MODEL 60 3-CYL. 1984 & ON MODEL 70 3-CYL. 1980-83 MODEL 75 4-CYL. 1984-86 MODEL 80 4-CYL. 1978-83 MODEL 85 4-CYL. 1977 MODEL 90 L6 1978-86 MODEL 115 L6 1978-88 MODEL 140 L6 1978-80 Removal	8-2 8-4 8-6 8-8 8-9 8-10	INTRODUCTION BATTERIES JUMPER CABLES GAUGES AND HORNS Temperature Gauges Warning Lights Fuel Gauges Tachometer Horns ELECTRICAL SYSTEM GENERAL INFORMATION CHARGING CIRCUIT SERVICE Troubleshooting Rectifier Removal Rectifier Installation STATOR SERVICE Removal Installation CHOKE CIRCUIT ENRICHENER SYSTEM CRANKING MOTOR CIRCUIT Description & Operation	9-1 9-5 9-7 9-8 9-8 9-9 9-11 9-12 9-13 9-14 9-15 9-17 9-17 9-18 9-18 9-19 9-20

9	ELECTRICAL (Continued)		SYSTEM "C" — ONE TRIM/TILT	
	-		CYLINDER	10 52
	Disassembling - Pinion Gear		Description and Operation	10-53
	with Rubber Cushion	9-28	Bleeding System "C"	10-54
	Assembling	9-28	Troubleshooting	10-54
	Disassembling - Pinion Gear		System "C" Service	10-55
	with Snap Ring or Nut	9-29	Pump Removal & Service	10-55
	Assembling	9-30	Cylinder Service	10 <i>-55</i>
	Disassembling - Pinion Gear		•	
	with Top Spring	9-31		
	Assembling	9-32		
	CRANKING MOTOR REPAIR	9-32	11 LOWER UNIT	
	Disassembling	9-33		
		9-34	DESCRIPTION	11-1
	Testing Parts	9-36	CHAPTER COVERAGE	11-1
	Cleaning & Inspecting	9-41	TROUBLESHOOTING	11-5
	Assembling a Bosch		LOWER UNIT REMOVAL	11
	Assembling a Delco Remy	9-41	ALL UNITS	11-6
	Assembling a Prestolite	9-46		11-7
			Propeller Removal	11-/
			WATER PUMP SERVICE	
			Removal and Disassembling	11.0
			High Pressure Type Pump	11-9
10	TRIM/TILT		High Volume Type Pump	11-10
	INTRODUCTION	10-1	SERVICING CAM-SHIFT TYPE I	
	CHAPTER ORGANIZATION	10-2	UNITS MATCHED WITH	
	MECHANICAL TILT PIN	10-2	EARLY 3-, 4-CYLINDER,	
			L6 AND V6 POWERHEADS	
	SYSTEM "A" TWO TRIM/TILT		TO ABOUT 1979	11-12
	CYLINDERS		Removal	11-12
	Description and Operation	10-3	Bearing Carrier and	
	Special Instructions	10-5	Propeller Shaft	11-13
	Bleeding System "A"	10-6	Driveshaft & Bearing	11-14
	Troubleshooting	10-7	Forward Gear & Bearing	11-16
	Cleaning and Inspecting	10-9	Disassembling	
	System "A" Service	10-12	Bearing Carrier	11-17
	Pump Service	10-14	Propeller Shaft	11-18
	Electric Motor Service	10-17	Driveshaft	11-18
			Assembling	
	SYSTEM "B" TWO TRIM		Lower Driveshaft Bearing	11-23
	CYLINDERS ONE		Shift Shaft	11-23
	TILT CYLINDER		Bearing Carrier	11-24
	Description and Operation	10-21	Forward Gear & Bearing	11-25
	Bleeding System "B"	10-22	Forward Bearing Race	11-26
	Flushing	10-23	Driveshaft	11-27
	Troubleshooting	10-24	Shimming & Backlash	11 -
	System "B" Service	10-31	Pinion Gear Depth	11-29
	Preliminary Tasks	10-31	Forward Gear Backlash	11-30
	Removal	10-33	Reverse Gear Backlash	11-34
	Component Service	10-34	Assembling & Installation	エエーンマ
	Manual Release Valve	10-34		11-33
	Oil Reservoir Cover	10-34	Bearing Carrier	11-77
		10-35	CEDVICING CAN SHIET TYPE II	
	Trim Cylinder	10-35	SERVICING CAM-SHIFT TYPE II	
	Tilt Cylinder		UNITS MATCHED WITH LATE	
	Electric Motor	10-36	3-, 4-CYLINDER, AND	
	Cleaning and Inspecting	10-37	L6 POWERHEADS	11 25
	Assembling & Installation	10-38	FROM ABOUT 1980	11-35

Removal and Disassembling Bearing Carrier	11-36 11-37	CLEANING AND INSPECTING ALL UNITS	11-86
Propeller Shaft Shift Shaft	11-38		
Pinion Gear	11-39	LOWER UNIT INSTALLATION	
Driveshaft	11-39	Filling Lower Unit	11-88
Forward Gear	11-40	Assembling & Installation	11-89
Pinion Gear Bearing Race	11-41	Propeller Installation	11-92
Forward Bearing Race	11-41	- 1	
Driveshaft Bearing	11-41		
Assembling and Installation		12 REMOTE CONTROLS	
Driveshaft Bearing	11-44		
Pinion Gear Bearing Race	11-45	INTRODUCTION	12-1
Forward Bearing Race	11-45	COMMANDER CONTROL BOX	
Shift Shaft	11-46	Removal & Disassembling	12-2
Forward Gear	11-46	Cleaning & Inspecting	12-9
Driveshaft	11-47	Assembling & Installation	12-11
Pinion Gear	11-47		
Propeller Shaft	11-48		
Bearing Carrier	11 40	13 HAND REWIND STARTER	
Pinion Gear Depth	11-50	D HAND REWIND STAKTER	
Forward Gear Backlash	11-51	INTRODUCTION	13-1
SERVICING E-Z SHIFT		TVDE HAN(Contractor)	12.2
MODELS SINCE ABOUT 1979		TYPE "A" (See Introduction)	13-2
Special Words	11-53	Removal and Disassembling	13-2
Removal		Cleaning and Inspecting	13-4
Bearing Carrier	11-53	Assembling and Installation	13-6
Propeller Shaft	11-55	TVDE MDM (San Industrian)	12.6
Driveshaft & Bearing	11-56	TYPE "B" (See Introduction)	13-6
Separate Forward Gear		Removal and Disassembling	13-13
from Bearing	11-60	Cleaning and Inspecting	13-16
Disassembling		Assembling and Installation	13-17
Driveshaft	11-60		
Separate Reverse Gear	+•		
from Bearing Carrier	11-61		
Assembling & Installation		APPENDIX	
Lower Driveshaft Bearing	11-61		
Bearing Carrier	11-61	METRIC CONVERSION CHART	A-1
Forward Gear & Bearing	11-64	ENGINE SPECIFICATIONS	
Forward Bearing Race	11-65	AND TUNE-UP ADJUSTMENTS	A-2
Propeller Shaft	11-66	REED STOP OPENING	A-10
Driveshaft	11-71	PISTON AND CYLINDER SPECS.	A-11
Shimming		LOWER UNIT BACKLASH TABLE	A-12
Pinion Gear Depth	11-75	LOWER UNIT OIL CAPACITY	
Forward Gear Backlash	11-76	AND GEAR CHART	A-13
Alpha Drive	11-78	CARBURETOR JET SIZE/	11.12
Alpha Bille	11-70	ELEVATION CHARTS	A-14
WATER PUMP ASSEMBLING AND		WIRE IDENTIFICATION DWGS.	
INSTALLATION	11-81	Ignition Systems A-17 thru	ı A-24
High Pressure Type Pump	11-81	Type "B" Trim/Tilt	A-25
Shimming (Certain Units)	11-81	Type "C" Trim/Tilt	A-26
High Volume Type Pump	11-85	Commander Control Box	A-27
bii rotaine rype rainp	~ I ~ O >	Communact Control Dox	: :- <u></u> /