

CONTENTS

FUNDAMENTALS SECTION

DESIGN FUNDAMENTALS

Operating Principles:	
Engine Types.....	3
Carburetors.....	5
Starting Enrichment.....	7
Reed Valves.....	8
Ignition System.....	8
Charging System.....	10
Spark Plug.....	11
Cooling System.....	12
Jet Pump.....	12

SERVICE FUNDAMENTALS

Trouble-shooting:	
Fails To Start.....	13
Faulty Running Engine.....	13
Special Notes on Trouble-shooting.....	13
Maintenance:	
Spark Plug.....	14
Carburetor.....	15
Ignition And Charging Systems.....	15
Lubrication.....	15
Repairs:	
Repairing Damaged Threads.....	16
Piston, Pin, Rings And Cylinder.....	16
Connecting Rod, Crankshaft And Bearings.....	18

SERVICE SECTION

FAZER	
Fazer (Late 1986) & Faze II.....	19
FUNJET BOATS	
Funjet (1984-1987).....	27
JET SKI	
JS300 & JS300SX.....	39
JS440 & JS550.....	50
JF650 (X-2) & JS650SX.....	65
SCAT HOVERCRAFT	
Scat I (1986-1988).....	78

SURF-JET	
Standard (1980-1988), 275SS (1985-1988) & 236SS (1983-1988).....	84
WETBIKE	
Models 1978-1984, Model 800 (1985-1987), Silver Streak (1987-1988) & Tom Cat (1988).....	95
WETJET	
428 (1985-Early 1986), 428 L/C (Late 1986-1987) & 432 (1988).....	107
YAMAHA	
Wavejammer & Waverunner (1987 & 1988).....	118

DUAL DIMENSIONS

This service manual provides specifications in both the Metric (SI) and U.S. Customary systems of measurement. The first specification is given in the measuring system used during manufacture, while the second specification (given in parenthesis) is the converted measurement. For instance, a specification of "0.28 mm (0.011 inch)" would indicate that the equipment was manufactured using the metric system of measurement and the U.S. equivalent of 0.28 mm is 0.011 inch.

Intertec Publishing thanks the following firms for their cooperation and technical assistance:

Kawasaki Motors Corporation, U.S.A., Irvine, California

Progressive Power Corporation, Janesville, Wisconsin

UltraNautics, Oxnard, California

Shawnee Kawasaki Honda, Shawnee, Kansas

Wetjet International Ltd., Paynesville, Minnesota

Yamaha Motor Corporation U.S.A., Cypress, California