YAMAHA

Yamaha Water Vehicles 1993-1996

WR500, SJ650, WR650, WRA650, WRA650A. WRB650, WRB650A, FX700, SJ700, RA700, RA700A, RA700B, WB700A, WRA700, WRB700, WVT700, RA760, WB760, RA1100, WVT100

Part No. W806



YAMAHA WATER VEHICLES SHOP MANUAL

Yamaha Water Vehicles 1987-1992

WJ500, WRA650, WR500, SJ650, WR650

Part No. W805

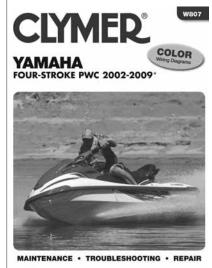


Yamaha Water Vehicles Four Stroke 2002-2009*

05-08 FX, 05-08 FX Cruiser 04-08 FX Cruiser High Output 04-08 FX High Output, 02-04 FX140 02-04 FX140 Cruiser, 05-09 VX 05-09 VX Cruiser, 05-09 VX Deluxe 05-09 VX Sport

Part No. W807

Includes color wiring diagrams. *Does not cover 1800 cc models. Does not cover 2-stroke models.



KAWASAKI



Kawasaki Jet Ski 1976-1991

JS300, JS550, JS300SX, JS550SX, JS400, JF650X-2, JS440, JS650SX, JF650TS, JL650SC, JB650TS Jet Mate

Part No. W801



Kawasaki Jet Ski 1992-1994

JS440, JS550, JS550SX, JB650 Jet Mate, JF650X-2, JF650TS, JL650SC JS650SX, JH750SS JS750SX, JH750Xi JT750ST, JH750XIR

Part No. W802



SEA DOO



SUPER BN MANUAL

For the watercraft tuner working with Super BN series carburetors.

Description Part No. Mikuni Manual 53-9999

Sea Doo Water Vehicles 1988-1996

Standard GT, GTS, GTX, SP, SPi, XP

Part No. W809-3



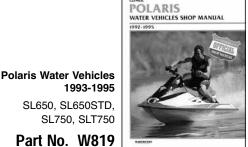
Sea Doo Water Vehicles 1997-2001

GS/GSI/GSX/GSX RFI/ GSX Ltd./GTI/GTS/GTX GTX DI/GTX RFI/GTX Ltd. HX/LRV/RX/RX DI SP/SPX/XP Ltd.

Part No. W810



POLARIS



Polaris Water Vehicles 1996-1999

SL700, SLT700, SL700 Deluxe. Hurricane. SL780, SLT780, SL900, SL1050, SLH, SLTH, SLXN, SLTX

Part No. W820



SYSTEMS INTAKE

GASKETS

EXHAUST

DRIVE LINE HANDLING

ELECTRICAL WATERLINE

/BILGE

& CONTROLS STEERING

ACCESSORIES SERVICE TOOLS

CHEMICA

METRIC STAINLESS STEEL HEX BOLT PACKS

10 Pcs Per Pack

Size/mm	Part No.
6 x 10	60-3010
6 x 12	60-3012
6 x 14	60-3014
6 x 16	60-3016
6 x 18	60-3018
6 x 20	60-3020
6 x 25	60-3025
6 x 30	60-3030
6 x 35	60-3035

Size/mm	Part No.
3126/111111	rait ivo.
6 x 40	60-3040
6 x 45	60-3045
6 x 50	60-3050
6 x 60	60-3060
6 x 70	60-3070
6 x 80	60-3080
8 x 18	60-4018
8 x 20	60-4020

Size/mm	Part No.
8 x 25	60-4025
8 x 30	60-4030
8 x 35	60-4035
8 x 40	60-4040
8 x 50	60-4050
8 x 60	60-4060
8 x 80	60-4080
10 x 25	60-5025



METRIC STAINLESS STEEL SOCKET HEAD CUP BOLT PACKS

10 Pcs Per Pack

Size/mm	Part No.
4 x 30	61-1030
4 x 16	61-1016
5 x 10	61-2010
5 x 25	61-2025
6 x 10	61-3010
6 x 12	61-3012
6 x 14	61-3014

Size/mm	Part No.
6 x 16	61-3016
6 x 20	61-3020
6 x 25	61-3025
6 x 30	61-3030
6 x 35	61-3035
6 x 40	61-3040
6 x 50	61-3050

Size/mm	Part No.
6 x 60	61-3060
8 x 20	61-4020
8 x 25	61-4025
8 x 30	61-4030
8 x 50	61-4050
8 x 60	61-4060
10 x 25	61-5025

METRIC STAINLESS STEEL NUTS

ENGINE/

EXHAUST

WATERLINE | ELECTRICAL | DRIVE LINE

STEERING & CONTROLS

BODY

SERVICE TOOLS ACCESSORIES

CHEMICAL

10 Pcs Per Pack

Size	Part No.
6mm	63-0006
8mm	63-0008



METRIC STAINLESS STUD PACKS

10 Pcs Per Pack

Size/mm	Part No.
8 X 30	62-4030

METRIC STAINLESS STEEL FLAT WASHERS

10 Pcs Per Pack

Size	Part No.
6mm	63-2006
8mm	63-2008
10mm	63-2010



METRIC STAINLESS STEEL SPRING WASHERS

10 Pcs Per Pack

Size	Part No
6mm	63-4006
8mm	63-4008
10mm	63-4010

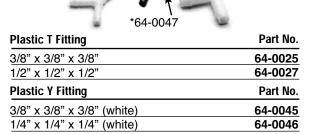
64-0047

ZIP TIES

	- Marie	
Description	Color	Part No.
3 3/4" x .090	Black	64-0050
7 1/4" x 1.190	Black	64-0051

(Sold in Packages of 100)

— PLASTIC FITTINGS _



1/4" x 1/4" x 1/4" (black)*

*Reinforced with Crossbar

BRASS FITTINGS



Straight Hose Barbed	Part No.
1/8" Thread 1/4" Hose	64-0001
1/8" Thread 3/8" Hose	64-0003
1/4" Thread 1/2" Hose	64-0005



Barb Connector	Part No.
1/4" I.D. Hose-1/4" I.D. Hose	64-0057
3/8" I.D. Hose-3/8" I.D. Hose	64-0058
1/2" I.D. Hose-1/2" I.D. Hose	64-0059



FOUR STROKE

INTAKE SYSTEMS

ENGINE/ GASKETS

EXHAUST

DRIVE LINE ELECTRICAL WATERLINE STEERING HANDLING /BILGE & CONTROLS

BODY

ACCESSORIES SERVICE TOOLS

CHEMICAL

Brass Push in Nipple	Part No.
1/8" Straight	53-9936
1/4" Straight	53-9937



90 Degree	Part No.
1/8" Pipe thread 3/8" Hose	64-0007
1/4" Pipe thread 1/2" Hose	64-0009
1/8" Pipe thread 1/4" Hose	64-0010
1/2" Pipe thread 1/2" Hose	64-0008



Garden Hose Adapter	Part No.
3/8"	64-0012



Press-in 90 Degree Fuel Inlet Part No.

1/4" 90 Degree DF44-2/70



45 Degree	Part No.
1/8" Pipe thread 1/4" Hose	64-0065
1/8" Pipe thread 3/8" Hose	64-0066
1/4" Pipe thread 1/2" Hose	64-0067



Brass Fitting	Part No.
1/8" Pipe threaded junction	64-0011
1/8" to 1/4" Adapter	64-0013
9mm Yamaha Flush Adapter	64-0004





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CHRIS McClugage • MACC Racing
PHOTO COURTESY OF JIN OMURA



T-Fitting	Part No.
Primer Fitting 1/8" x 1/8" x 1/8"	64-0015
Primer 1/4" x 1/4" x 1/8"	64-0017
Fuel Line 1/4" x 1/4" x 1/4"	64-0019



Brass Threaded Plug	Part No.
1/8" Threaded Plug	64-0016
1/4" Threaded Plug	64-0018



STAINLESS STEEL HOSE CLAMPS

Clamps	Maximum Size	Minimum Size	Part No.
#5 (Waterline)	11/16"	1/4"	64-0030
#36	2 3/4"	1 13/16"	64-0032
#48	3 1/2"	2 9/16"	64-0031
#60	4 1/4"	3 5/16"	64-0033
#72	5"	4 1/16"	64-0034
#80	5 1/2"	4 9/16"	64-0035



T-BOLT CLAMPS

Size	Width	Part No.
3"	3/4"	64-0080
3-1/4"	3/4"	64-0081
4-1/2"	3/4"	64-0082
5"	3/4"	64-0084
5-1/4"	3/4"	64-0085
5-1/2"	3/4"	64-0086



HOSE SHEARS

Scissor-action cutter for hose.

Description	Part No.
Hose Shears	59-4020





FUEL LINE

Fuel line is made from a thick walled polyurethane tubing. Sold per foot. or 25 feet/pk

Description	Part No.
Blue (1/4") per foot	53-9970
Blue (1/4") 25 feet package	53-9970-25
Primer Line (1/8") per foot	53-9980
Primer Line (1/8") 25 feet package	53-9980-25

Fast, Easy, Strong and Secure Installation







SQUEEZE ON STAINLESS STEEL **LOW PROFILE CLAMPS**

Oetiker Stepless Ear Clamps, due to the reinforcing 'dimple' in the ear, hold against pressure and vibration or hose shrinkage due to tempera-

ture changes. A built-in spring action permits the clamp to "breathe" without loosening, the need to retighten is eliminated. Once installed, any tampering is easily visible, making this an excellent clamp for service or security applications.

Description	Clamp Size	Part No.
Pincer Tool	-	59-4015
Clamp for 1/4" Hose (10 pcs/pk)	9/16	59-4016
Clamp for 3/8" Water Line (10 pcs/pk)	11/16	59-4017
Clamp for 1/2" Water Line (10 pcs/pk)	13/16	59-4018

100 Clamp Packs	Clamp Siz	e Part No.
Clamp for 1/4" Hose (100 pcs/pk)	9/16	59-4016-100
Clamp for 3/8" Water Line (100 pcs/pk)	11/16	59-4017-100
Clamp for 1/2" Water Line (100 pcs/pk)	13/16	59-4018-100



FLEX-TECH WATER LINE HOSE

Flex-Tech multi purpose hose is more flexible and bendable for those complicated water routing requirements. This waterline is highly recommended for Factory

and TBM Dry Pipe installations. Waterline is sold per foot.

Description	Part No.
3/8" Flex-Tech Light Blue Waterline Hose	56-8010



WATER LINE HOSE

Goodyear hose has been replacing rubber hose or metal tubing designs. Goodyear hose and tubing offers customers a

number of benefits, including flexibility, durability, abrasion resistance, lighter weight materials, superior chemical resistance, high pressure capability, and extended product performance. Waterline is sold per foot.

Description	Part No.
3/8" Blue	56-8000
1/2" Blue	56-8004
3/8" Clear VinyI*	56-8007

*Clear vinyl hose is not manufactured by Goodyear.

500 foot reel 3/8" blue hose available and 400 foot reel 1/2" blue hose available

Call for special pricing on reel purchases.

SEA DOO REPAIR TOOLS

These tools are built to the the OEM specialty tool specifications and have been built using high quality materials.

Make your work day and the repairs you perform for your customers faster and more efficient with the right tool for the job!



Drive Shaft / Floating Ring Part No. 950-100 O.E. No. 529-035-841 Fits: GTX 4 Tec Models



Drive Shaft / Floating Ring Part No. 950-102 O.E No. 529-035-987 Fits: Super Charged 4-Tecs



Drive Shaft Adaptor Part No. 950-115 O.E. No. 529-035-892 Fits: GTX 4 Tec



Drive Shaft Adaptor Part No. 950-120 O.E. No. 529-035-985 Fits: RXP 4 Tec



Torx Adapter For All Super **Charged 4-Tecs** Part No. 950-185 O.E. No. 529-035-938 Fits: 4-Tec Supercharged



Insert Alignment Tool Adapter Part No. 950-145 O.E. No. 529-035-590 Fits: XP & DI Models



Alignment Adaptor Part No. 950-150 O.E. No. 529-035-719 Fits: GTX 4-Tec Models



Super Charger Retaining Key Part No. 950-110 O.E. No. 529-035-949 All 4 Tecs with Super Chargers



Crankshaft Locking Tool Part No. 950-125 O.E. No. 529-035-821 Fits: All 4 Tecs



4-Pin Socket Part No. 950-195 O.E. No. 529-035-948 Fits: 4-Tec Supercharged



Pressure Cap Part No. 950-105 O.E. No. 529-035-843 Fits: GTX 4 Tec



Steering Cable Nut Removal Tool Part No. 950-130 O.E. No. 295-000-145 Fits: All Models



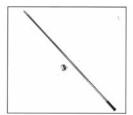
Support Plate 4-TEC Supercharged Engines Part No. 950-190 O.E. No. 529-035-947 Fits: 4-Tec Supercharged



Alignment Support Plate kit Part No. 950-135 O.E. No. 529-035-506 Fits: All Models



Camshaft Locking tool Part No. 950-180 O.E. No. 529-035-839 Fits: 4-Tec Engines



Alignment Shaft Part No. 950-140 O.E. No. 295-000-141 Fits: All Models



Drive Shaft Holder Part No. 950-155 O.E. No. 529-035-986 Fits: GTX 4-Tec & RXP 4-Tec Models



Seal & Bearing Pusher Part No. 950-165 O.E. No. 529-035-955 Fits: GTX 4-Tec Models



Shaft Pusher Part No. 950-170 O.E. No. 529-035-819 Fits: GTX 4-Tec Models



Ring Gear Blocking Tool Part No. 950-175 O.E. No. 529-035-946 Fits: 787 RFI Engines & 947 DI Engines



Ball Bearing Support Pusher Part No. 950-200 O.E. No. 529-035-950 Fits: 4-Tec Supercharged



Ring Gear Blocking Tool Part No. 950-172 O.E. No. 529-035-846 Fits: 529035846

Hot Products is proud to offer a complete line of Service Tools and Hardware for all your service and Repair needs.



EXHAUST

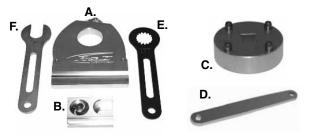


VALVE COMPRESSION TOOL SD 4-TEC

Our overhead Valve Compression Tool allows easy removal of valve springs and keepers with-

out removing cylinder head. Includes compression adapter to pressurize cylinder keeping valves in place during removal of stock springs and keepers.

Description	Part No.
Tool, Valve Compression, SD 4-TEC	RS19050-VCT



R&D SEA DOO SUPERCHARGER REBUILD TOOL KIT

R&D has designed a custom tool kit that is essential in the rebuilding process of the Sea Doo Supercharger. All tools are specific in application and are CNC machined to ensure a precision job.

Description	Part No.
A. Supercharger Holder Tool	613-96005
B. Bearing Puller/Installer Tool	613-96006
C. 4-Pin Socket	613-96007
D. Seal/Bearing Retainer Torx Wrench	613-96008
E. 215HP 16 Tooth Drive Gear Tool	613-96016
E. 185HP 17 Tooth Drive Gear Tool	613-96017
F. 185HP/215HP Clutch Drive /Lock Washer Tool	613-96018



RIVA SEADOO SUPERCHARGER SHAFT HOLDER TOOL

Our SeaDoo Supercharger Shaft Holder Tool makes servicing your supercharger a snap. Ergonomically designed billet handle allows a sure, firm grip without fatiguing your hand. Working ends are made from heat treated tool-grade steel to resist wear and are oversized to prevent flexing. A must for every mechanic's tool box!

Description	Part No
RIVA SeaDoo SC Shaft Holder Tool	RS1750-ISH-949



TORX® SOCKET SET FOR SEA DOO

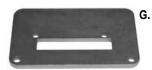
Special Star Sockets for Sea Doo 4-Tec& DI engine bolts are mode from

heat-treated vanadium steel and black oxide coated for durability. Sockets are kept in a convenient vinyl holder.

- Four 3/8" Drive Sockets (T10, T12, T14, T16)
- Three 1/4" Drive Sockets (T6, T7, T8)

Description	Part No.
Torx Socket Set	LS26750

FOR YAMAHA 1.8L ENGINE



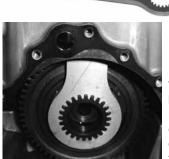
R&D SPECIALTY SUPERCHARGER TOOLS FOR YAMAHA 1.8L ENGINE



R&D has designed a custom tool kit that is essential in the rebuilding process of the Yamaha Supercharger. All tools are specific

in application and are CNC machined to ensure a precision job.

Description	Part No.
G. Supercharger Housing Holder Bracket Tool	612-92010
H. Shaft/Gear Holding Tool	612-92011



R&D SUPERCHARGER CLUTCH REMOVAL TOOL FOR YAMAHA 1.8L ENGINE

This R&D tool enables the clutch to be changed in a matter of only minutes. With the supercharger and front engine cover removed the tool drops down through the case and secures the drive gear at the front of the crankshaft from rotating when the

clutch is removed and installed. This is a "must have" tool that will save massive amounts of time for any mechanic.

Description	Part No.
R&D Supercharger Clutch Removal Tool	612-92012



FZR VALVE SPRING COMPRESSION TOOL KIT

The R&D Valve Spring Compression Tool Kit allows easy removal of the intake or exhaust valve springs and keepers without removing the cylinder

head. R&D recommends using the compression adapter from a compression gauge kit to pressurize cylinder keeping valves in place during removal of springs and keepers.

Description	Part No.
FZR Valve Spring Compression Tool Kit	612-92013



R&D VALVE STEM CONCENTRICITY GAUGE

The R&D Valve Stem Concentricity Gauge is a testing tool to check the roundness and trueness of valves. Small valves can distort or bend from heat produced in high performance supercharged or turbo charged engines. To achieve a perfect seal on the seat the valve

needs to be concentric and true in every dimension. Gauge is fully adjustable to accommodate a variety of valve sizes and features a rigid, positive stop that can be set once and the trueness for an entire set of valves can be measured. Kit comes complete with dial indicator accurate to .001". This is a must have tool for any engine builder to get the most out of your high performance 4 stroke engine.

Description	Part No.
R&D Valve Stem Concentricity Gauge	612-80010

The R&D wheel puller tool makes it fast and easy to remove a supercharger wheel without the removal of the intercooler system or the water muffler assembly. The R&D Supercharger

drive wheel puller will save at least an hour on a pulley removal and replacement. A must have tool.

DescriptionPart No.R&D Ultra 250/260X SC Wheel Puller Tool611-26004



R&D ULTRA 250/260X DRIVER WHEEL HOLDER TOOL

The R&D Holding Tool makes it fast

and easy to remove and re-install a supercharger wheel without damaging or breaking the wheel hub. Use the holding tool to properly torque the drive bolts and main spline drive bolt. A must have tool.

DescriptionPart No.Ultra 250/260X Driver Wheel Holder Tool611-26003





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CHRIS MCCLUGAGE • MACC RACING
PHOTO COURTESY OF JIN OMURA



RIVA ENGINE VALVE SEAL TOOL

This handy tool provides easy removal and installation of valve stem seals on Yamaha 1.8L engines. Allows seal installation during fitting of valve train upgrade kit without removing cylinder head.

- Prevents seal distortion & gouging.
- Precision machined from 6061 aluminum & anodized.
- Knurled handle for positive grip.

DescriptionPart No.Valve Seal Tool for Yamaha 1.8L EngineRY19040-VST



TORQUE ANGLE METER

For All Torque-to-Yield Fastener Applications. Commonly used for tightening head bolts & other bolts where a torque angle is required. Use with 1/2" drive.

DescriptionPart No.Torque Angle MeterLS28100



RIVA VALVE COMPRESSION TOOL

Riva's overhead Valve Compression Tool allows easy removal of valve springs and keepers without removing cylinder head. Includes compression adapter to pressurize cylinder keeping valves in place during removal of stock springs and keepers. Fits both Yamaha 1.8L & Kawasaki 1.5L 4-stroke engines.

 Description
 Part No.

 RIVA Valve Compression Tool
 RY19040-VCT

Fits Yamaha 1.8L & Kawasaki 1.5L 4-stroke

FOUR STROKE S

INTAKE SYSTEMS

ENGINE/ GASKETS

EXHAUST

DRIVE LINE EI

ELECTRICAL WATERLINE /BILGE

STEERING & CONTROLS

BODY

ACCESSORIES SERVICE TOOLS

CHEMICAL



CARB SCREW ADJUSTING TOOL

Angled head for the hard-to-reach carb adjustment screws

Description	Part No.
Carb Screw Adjusting Tool	53-9994



90 DEGREE 1/4" HEX DRIVER

Precision made of high-grade aluminum & stainless steel. Designed for hardto-reach pilot screw. Gear driven 1/4" hex. Includes 1/4" hex bits, straight slot, Phillips, D-shaped pilot screw bit, 6mm hex jet bit and 1/4"-hex-to-1/4" drive bit.

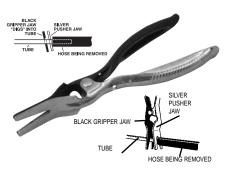
Description	Part No.
90 Degree 1/4" Hex Driver	08-0229



HOSE PINCHER

Clamps and holds hoses up to 3/4" inside diameter. Angled jaws close to create a complete seal every time. Jaws are offset for hard-to-reach areas. The handles lock firmly to hold the jaws in closed position.

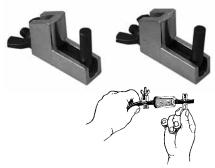
Description	Part No.
Hose Pinchers	LS23000



HOSE REMOVAL PLIERS

For easy removal of 5/32" to 1/2" (4mm to 14mm) hoses. Engage the tube (line) with the black jaw. This sharpened jaw actually "digs" into the tube to grip it! Squeeze, and the hose is easily pushed off by the silver jaw.

Description	Part No.
Hose Removal Pliers	LS47900



HOSE PINCHERS

Quick, easy way to pinch off fuel lines, etc. without damaging the line. Sold two per set.

Description	Part No.
Hose Pinchers	LS22850



MIKUNI TOOL KIT

This handy little kit contains all the tools necessary to make jetting change, perform normal maintenance as well as disassemble and rebuild any Mikuni carburetor

Description	Part No.
Mikuni Tool Kit	53-9989



ROTARY VALVE TIMING WHEEL

Description	Part No.
Rotary Valve Timing Wheel	012-170

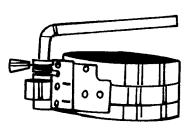




MIKUNI POP-OFF GAUGE

For Accurate adjustment of pop off pressure levels for fine tuning requirements.

Description	Part No.
Mikuni 30 Lbs. Guage	53-9996
Mikuni 60 Lbs. Guage	53-9996-60
Mikuni 100 Lbs. Guage	53-9996-100



QUICK RELEASE RING COMPRESSOR

Ring Compressor makes it easy to remove ring from piston. Range is from 2-1/8" - 5" (54mm-127mm).

Description	Part No.
Quick Release Ring Compressor	LS19000



WRINKLE BAND RING COMPRESSOR

Wrinkle band cuts friction in half. Rings slide in easily 3" - 5" (76.2mm - 127mm).

Description	Part No.
Wrinkle Band Ring Compressor	LS21700



PISTON RING INSTALLER

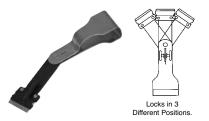
Description	Part No.
Piston Ring Installer	LS33500



PISTON PIN PULLER

Universal piston pin puller easily removes all sizes of piston pins without any damage to the piston.

Description	Part No.
Piston Pin Puller	59-0252



FOLD-UP SCRAPER

The fold-up scraper features three arm positions and a slanted blade for proper scraping. Great for removing decals, etc.

Description	Part No.
Fold-up Scraper	LS52400

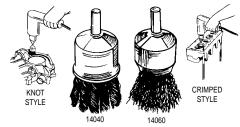


SEAL PULLER

Simply insert the tip of the tool behind the oil or grease seal, press and pull. Leverage works for you. Two size tips reach in and fit nearly all seal applications.

Description	Part No.
Seal Puller	LS56750

CONVEDCION	TADI E
CONVERSION	IABLE
Unit	Conversion
Linear Measure	
centimeter (cm.)	0.3937 inch
meter (m.) 3.2808	feet / 1.0936 yards
kilometer (km.)	0.6214 mile
inch (in.)	2.54 centimeters
foot (ft.) = 12 inches	30.48 centimeters
yard (yd.) = 3 feet	0.914 centimeters
rod (rd.) = 5.5. yards	5.0292 meters
chain (ch.) = 4 rods	20.117 meters
furlong (fur.) = 10 chains	201.17 meters
mile (m., mi.) = 8 furlongs	1.6093 kilometers
league (l.) = 3 miles	4.8279 kilometers
Aviordupois Weight	
Gram (g.)	0.0353 oz. avdp.
kilogram (kg.) = 1,00 grams	2.2046 lb. avdp
metric ton (M.T.)	1.1023 short tons
	0.9842 long ton
grain (gr.)	0.0648 gram
dram (dr. avdp.) = 27.34 grains	1.7718 grams
ounce (oz.avdp.) = 16 drams	28.3495 grams
pound (lb. avpd) = 16 ounces	0.4536 kilogram
hundredweight (cwt.)	
(US) = 100 pounds	45.3592 kilograms
(UK) = 112 pounds	50.8024 kilograms
ton (t., tn.)	
(US) = short ton	
=2,000 pounds	0.907 metric ton
(UK) = short ton	
=2,240 pounds	1.106 metric ton



1" WIRE END BRUSHES

Made with .020" industrial heat-tempered wire. Use with portable electric and air tools. 20,000rpm maximum safe speed.

Description	Part No.
1" Knot Wire End Brush	LS14040
1" Crimped Wire End Brush	LS14060



"O" RING AND SEAL PICK

Quickly removes and installs "O" rings and seals. Tips are hardened to stay sharp.

Description	Part No.
"O" Ring and Seal Pick	LS31840



COMPRESSION TESTER

Contains hoses for 10, 12 & 14mm spark plug applications. Features a quick disconnect with a pressure release valve and a 300lbs. Gauge. Packed in a convenient carry box. Made in USA.

Description	Part No.
Compression Tester	08-0188



TELESCOPING MIRROR

Enables you to see around corner, 2-1/4" diameter mirror swivels to any position. Length extends from 10" to 14".

Description	Part No
Telescoping Mirror	LS32050



PRO-CRIMP TOOL

To do a job right, it is important to have the right tools. If you custom build a lot of plug wires, the Pro-Crimp is the right tool for you! The Pro-Crimp features a hardened steel frame, molded hand grips and built-in ratchet action that is also adjustable. The tool is supplied with jaws to fit MSD's Super Conductor Spark Plug wires and can be removed to use additional jaws (sold separately) for crimping common wiring terminals.

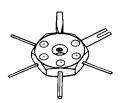
Description	Part No.
MSD Pro Crimp Tool	3505
Spark Plug Dies	3508
Amp Pins	3506
Amp Lug Dies	3507
Weathertight Dies	3509
Deutsch Terminal Dies	3510



TERMINAL DETENT TOOL

The hollow barrel allows you to depress the tab on the terminal end and to remove the wire from the connector without damaging its ends.

Description	Part No.
Terminal Detent Tool	59-0254



TERMINAL REMOVAL TOOL

Includes six different shaped blades.

Description	Part No.
Terminal Removal Tool	LS14900





PERMA-SEAL CONNECTOR KIT

Description	Part No.
MSD Perma-Seal Connector Kit	4377



TIMING LIGHTS

MSD offers a heavy duty top quality timing light. This timing light is supplied in a heavy duty metal housing and features a high output Linear Xenon strobe with a focused fresnel lens that produces a light that's bright enough to use outdoors. It is equipped with a 6 foot lead and uses a metal inductive pickup that clamps to the spark plug wire.

Description	Part No.
Timing Light	8990



TIMING DEGREE WHEEL

Set total loss timing with no guess work. Check crank shaft timing to exact degree. A must for porting and port timing.

Description	Part No.
Timing Degree Wheel	08-0092



FLYWHEEL PULLER

Description	Part No.
Sea Doo 800/951 38mm x 1.5	MP#42
Kawasaki 900/1100 35mm x 1.5	DS#29





MAGNETO FLYWHEEL PULLER

Sea Doo	Part No.
A. 580/650/720	DS#34
3 Hole Disc 8mm Bolts	

Polaris

B. Polaris ALL & Universal DS#37 Universal 12 Hole Disc 8mm Bolts

YAI	МАНА	Part No.
В.	500/650/Pre 94 701	DS#37
	Universal 12 Hole Disc	8mm Bolts
В.	701/760/800/1100/1200	DS#37
	Universal 12 Hole Disc	8mm Bolts

KAWASAKI	Part No.
B. 300/440/550/650	DS#37
Universal 12 Hole Disc 8	8mm Bolts



C. 750/800 **MP#18** Special 18mm x 1.5 **Right Hand Bolt**

MAINTAINER MODEL #CU2602

Total Amps: 0.5 Battery System: 12Volt



Description	Part No.
Battery Maintainer	CU2602

CHARGER MODEL #CU2606A

Total Amps: 6 Battery System: 12Volt



Description	Part No.
Portable Battery Charger	CU2606A

CHARGER MODEL #CU2612A

Total Amps: 10 Battery System: 12Volt



Description	Part No.
Portable Battery Charger	CU2612A



JUMPER CABLES

8 feet long heavy duty 8 gauge copper jumper cables are big on charging power, yet stow conveniently in the 9 x 9 inch nylon bag.

Description	Part No.
Jumper Cables	59-0530



SPARK PLUG TOOLS

Description	Part No.
Ratchet Plug Wrench	59-0539



SPARK PLUG WIRE TESTER

Now you can check spark plug wires without piercing the wires. Light flashes indicating sound wire.

Description	Part No.
Spark Plug Wire Tester	LS26900



IGNITION SYSTEM SPARK TESTER

This ignition system tester checks the integrity and strength of your system by gauging your systems spark.

Description	Part No.
Ignition System Spark Tester	59-0253

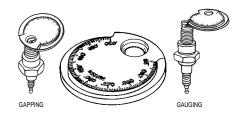




SPARK PLUG HOLE THREAD CHASER

Cleans threads in spark plug hole. Use with 13/16" spark plug socket. Double-ended for both 14mm and 18mm threads.

Description	Part No.
Spark Plug Hole Thread Chaser	LS20200



STANDARD/HIGH ENERGY **SPARK PLUG GAUGE & GAPPER**

Gauge and gap all types of spark plugs from .020" to .110 (.50mm to 2.53mm).

Description	Part No.
Spark Plug Gauge and Gapper	LS67870



SPARK PLUG HOLDERS

Spark Plug Holder protects the electrode. maintaining the proper gap.

Description	Part No.
2 per Blister Pack	SPH-2
40 per Countertop Display	SPH-40



SYSTEMS

& CONTROLS



SUPER OUT EXTRACTOR SET

A super strong extractor set made of a special hardened, shockresistant tool steel.

Works on both left and right hand threads. Super Outs cut their way straight into bolts, eliminating wedging or further tightening of frozen bolts and screws. Five extractor sizes extract 1/4" to 1/2" and larger bolts and screws.

larger botto aria corotto.	
Description	Part No.
Super Out Extractor Set	LS62900



3/8" HAND **IMPACT TOOL SET**

Loosens Rusted. Frozen Nuts, Bolts

and Screws. Unique design delivers over 200 ft. lbs. of Shock Torque. Can be reversed to tighten. Can also be used with impact sockets!

29200	Impact Set Includes:
29000	3/8" Impact Tool
29520	3/8" Bit Holder
29630	#1 Phillips Bit
30180	#2 Phillips Bit
29550	#3 Phillips Bit
30190	#4 Phillips Bit
30170	3/8" Straight Slot Bit

Part No.
LS29200





POLLOWING	DKIVERO.
DRIVER PART NO.	SIZE
12610	1.565"
12620	1.750"
12630	1.965"
12640	2.325"
12710	2.470"
12650	2.555"
12690	2.830"
12700	2.995"
12970	3.180"

BEARING RACE AND SEAL DRIVER—MASTER SET

Make it easier to insert bearing race and seals without damage to race. This master set includes nine drivers to fit most standard bearings.

Description	Part No.
Bearing Race and Seal Drive	LS12980
Handle Mini pouched	LS12660



IMPELLER HOLDER TOOL

Holds spline of drive shaft for removal of impeller.

Sea Doo		Part No.
A.	580/650/720/800/951 All	DS#23
	18mm spline	

Polaris	Part No.
B. Polaris ALL & long reach univ.	DS#38
20mm spline	



IMPELLER HOLDER TOOL

Sea Doo	Part No.
C. GTX 4Tec SC (22mm)	DS#70
D. RXP/RXT (27mm)	DS#71



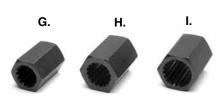
SOLAS IMPELLER HOLDER TOOL

Sea Doo	Part No.
RXP/RXT (27mm)	WR012-SRX



IMPELLER HOLDER TOOL FOR KAWASAKI

Ka	wasaki	Part No.
Ē.	440/550-89	DS#24
	16mm spline	
F.	650/750/900/1100 &	DS#23
	Ultra 250/260 18mm spline	



IMPELLER SHAFT HOLDER TOOL **FOR YAMAHA**

Yar	maha	Part No.
G.	WR500, WJ650LX	DS#27
	16mm spline	
H.	650/701/760/1100/1200	DS#32
	18mm spline	
I.	GP1200R	DS#56
	20mm spline (18 tooth)	
	SHO/FZR/FZS	TOOL#53
	20 mm spline (20 tooth)	



DRIVE COUPLER TOOLS

Use to remove drive coupler from crankshaft and sub-shaft.

Description	Part No.
650/701	DS#60-3
760/800/110/1200	DS#61-5



WATCON IMPELLER **PITCH GAUGES**

It's a known fact; not all impellers are created equal. Sometimes when impellers are mass produced, there are subtle differences that can affect performance. Use this simple tool to measure the pitch angle and blade length of each blade throughout its circumference. This enables you to make adjustments to the pitch where needed. Great for fine tuning, making minor changes or verifying pitch when sending impellers off for repair.

Description	Part No.
140-142mm Impeller	IMP-142
144-148mm Impellers	IMP-148
155-160mm Impellers	IMP-160

STUD TOOL

Economy stud installation and removal tool. The kit includes three sizes: 6mm, 8mm and 10mm.

Description	Part No.
Economy Stud Tool Kit	WJ7710



STUD INSTALLATION TOOLS

Will Install cylinder and intake manifold studs. Hex head is 3/4" or 19mm.

Description	Part No.
6mm x 1.00 Stud Tool	59-0212
8mm x 1.25 Stud Tool	59-0213
10mm x 1.25 Stud Tool	59-0214



HEX-PRO AND STAR-PRO PIVOT HEAD WRENCHES

- · Pivot design allows for easy rotation around obstructions
- · Heat treated alloy tool steel
- · Includes heavy duty folding canvas storage pouch

Description	Part No.
Hex-Pro Metric	08-0420
Hex-Pro SAE	08-0419
Star-Pro	08-0421



CABLE LUBBER

Installs quickly and helps free up corroded or tight cables. Note; Damaged cable should be replaced.

Description	Part No.
Cable Lubber	59-0250



T-HANDLE RATCHET

Features a compact design that allows it to be used even in tight spaces.

Description	Part No.
1/4" T-Handle Ratchet	08-0231
3/8" T-Handle Ratchet	08-0226



BALL END ALLEN SET

Made of chrome-vanadium tool steel. Size available 1.5, 2, 2.5, 3, 4, 5, 6, 8, & 10mm. Ball end allows for better access to allen-head bolts (up to 25 degree working angle.)

Description	Part No.
Ball End Allen Set	08-0185



SCRATCH BRUSH

Removes rust, scale, paint, and solder from metal surfaces.

Description	Part No.
Shoe Handle Scratch Brush	LS14180
Scratch Brush	LS14160



PARTS CLEANING BRUSH

Description	Part No.
Parts Cleaning Brush	LS14000



MAGNETIC SOCKET HOLDERS

Standard and deep sockets fit on one convenient holder with powerful magnets, securely holding on to any steel surface. Red color only.

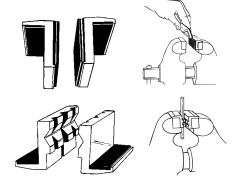
Description	Part No.
1/4" Holder with 26 compartments	LS40120
3/8" Holder with 28 compartments	LS40200



MAGNETIC TOOL HOLDERS

Powerful magnet holds even heavy hand tools. Ideal for both home and shop.

Description	Part No.
13" long Magnetic Tool Holder	LS21300
24" long Magnetic Tool Holder	LS21400



RUBBER-FACED & ALUMINUM VISE JAW PADS

These vise jaw pads are designed to protect delicate parts from damage. Sold in pairs.

Description	Part No.
A. Rubber-faced Vise Jaw Pads	LS48100
B. Aluminum Vise Jaw Pads	LS48000

GASKETS

EXHAUST

DRIVE LINE ELECTRICAL WATERLINE HANDLING

/BILGE

STEERING & CONTROLS

ACCESSORIES SERVICE TOOLS

CHEMICAL



RULE FLAT TANK ELECTRIC OIL EXTRACTOR

Eliminate those costly yard service fees with the new quick, clean, compact electric oil extractor. Includes a 3-1/2 gallon compact self-priming diaphragm pump for extraction and an easy pour spout for oil transfer.

- 3.5 gallon (13 liter) leak proof container
- · Designed for ease of carrying
- · Complete with dipstick, suction tube & battery

- · Empties and stows easily
- · Self-priming, dry running, 12 or 24 volt diaphragm pump

Description	Part No.
Electric Oil Extractor	17860-0012



HT MOTO 6 LITER **OIL EXTRACTOR**

The unit uses a small vacuum system, which pumps fluid through a hose to the 6-liter reservoir. It also includes a pour spout to aid in emptying the reservoir. Pump is removable for easy storage.

Description	Part No.
HT Moto 6 Liter Oil Extractor	OIL01



HT MOTO 15 LITER OIL EXTRACTOR

Ideal for bigger jobs and shops, this larger capacity oil/fluid extractor makes changing the oil on your 4 stroke PWC, snowmobile, ATV, boat, lawn mower, etc. clean and hassle free. Holds up to 15 liters (3.92 gal) in this sturdy portable container with built in pump.

Description	Part No.
HT Moto 15 Liter Oil Extractor	OIL03

FLUID EXTRACTOR

- Empties oil in 15 pumps or less
- · Extracts warm or cold oil
- · Pressure relief valve allows easy transportation and storage
- · Single-hand-ease effortless operation
- Delivers gulp-free, mess-free performance
- · Complete adapter kit is included featuring three extraction tubes

Description	Part No.
Fluid Extractor (6.5 Liter Fluid Extractor)	CJ-169-S
Fluid Extractor Tube Replacement Kit	MR08032

*Note: Not for use with gasoline.



SHOP LANYARD

Not legal for riding. For shop testing only.

Description	Part No.
KPTW, Yamaha, Sea Doo	A3240
KPTW, Yamaha, Sea Doo DESS	A3250





4.5 GALLON DRAIN PANS

Now with built-in-ribs for draining filters in the pan. For easy transfer of liquids. High-density polyethylene material is resistant to chemicals and solvents, and is easy to clean. 1" wide diameter spout for quick and easy pouring. The anti-splash lip and baffles help prevent spilling when carrying or pouring. Comes with large, easy-grip handles. Two colors: 17942 is black for oil and 17952 is green for anti-freeze.

Description	Part No.
4.5 Gallon Oil Drain Pan, Black	LS17942
4.5 Gallon Oil Drain Pan, Green	LS17952



RATIO RITE **CUP & LID**

With Ratio Rite measuring cup get a perfect mix every time. Fill to the pre-calibrated ratio mark and pour into gas. Ratios are from 16:1 to 44:1 for up to 12 gallons. Calibrations also include oz.. cc's, and pints.

Description	Part No.
Ratio Cup	59-0548
Ratio Rite Cup Lid	59-0582



BODY





ELME TOOLS SEVED PRO HARDWARE

Elme Tools has developed the newest essential tool for any PWC or Boat mechanic. Elme Tools utilized the newest state of the art technology to develop the "seved Pro" diagnostic tool.

The Seved Pro diagnostic unit is a multi manufacturer that will allow you to diagnosis, repair and perform the required maintenance of PWC and boats. This unit will boost your business by minimizing the diagnosis time and allowing you to perform more accurate and thorough maintenance or repair for your customers.

The Seved Pro is the only diagnostic tool you will need to purchase. Purchase the base unit and then purchase the modules for the specific manufacturer PWC's or boats as needed to man age your service department.

The Seved pro is also a key programming tool allowing you to offer this service to your customer without a trip to the PWC dealership.

Currently Elme Tools offers the following manufacturer modules: BOMBARDIER SEADOO 1998 - 2009 YAMAHA PWC'S 2001 - 2009 KAWASAKI JET SKIS 2001 - 2009 HYDROSPACE/BENELLI MERCURY - MERCRUISER ENGINES 2001 - 2009

- · Portable and autonomous, it does not need to be plugged to any other machine
- No PC or power connector is needed.
- Key Programming
- Full Specialized technical support
- Updates via internet
- Cables and dongles are included
- · Evolving device thanks to dongles system
- Free updates

Who is Elme Tools?

Elme Tools are the leader in car keys and controls programming. The companies first commercial activity has been focused on code keys and locks adaptation for all kind of vehicles. As time goes on the business philosophy had clearly gone towards a very specific expertise: the generic knowledge of everything related to active safety car system. Immobilizer, central locking (comfort), remote controls, transponders, activation of crypto keys, etc...

In sum, they have been developing diagnostic tools for the past 15 years and have sold so far 14,000 diagnostic devices in more than 100 countries. It is that experience that has allowed the company to expand into nautical sector. The companies policy is ambitious but simple, bring solutions to the market, manage it with efficiency and support it with the industries leading technical support.

Description	Part No.
Seved Pro Hardware Base Unit	SEVED PRO
BRP Diagnostics Program	ADS400
BRP Key Programming	ADS401
Kawasaki Diagnostic Program	ADS402
Mercruiser Diagnostic Program	ADS403
Yamaha Diagnostic Program	ADS404
Hydrospace/Benelli	ADS405
Seved Pro Hardware Base Unit	PWCPACK
+ADS400+ADS401+ADS402+ADS404+ADS405	(excludes ADS403)
Seved Pro Hardware Base Unit	FULLPACK
+ADS400+ADS401+ADS402+ADS403+ADS404	+ADS405

