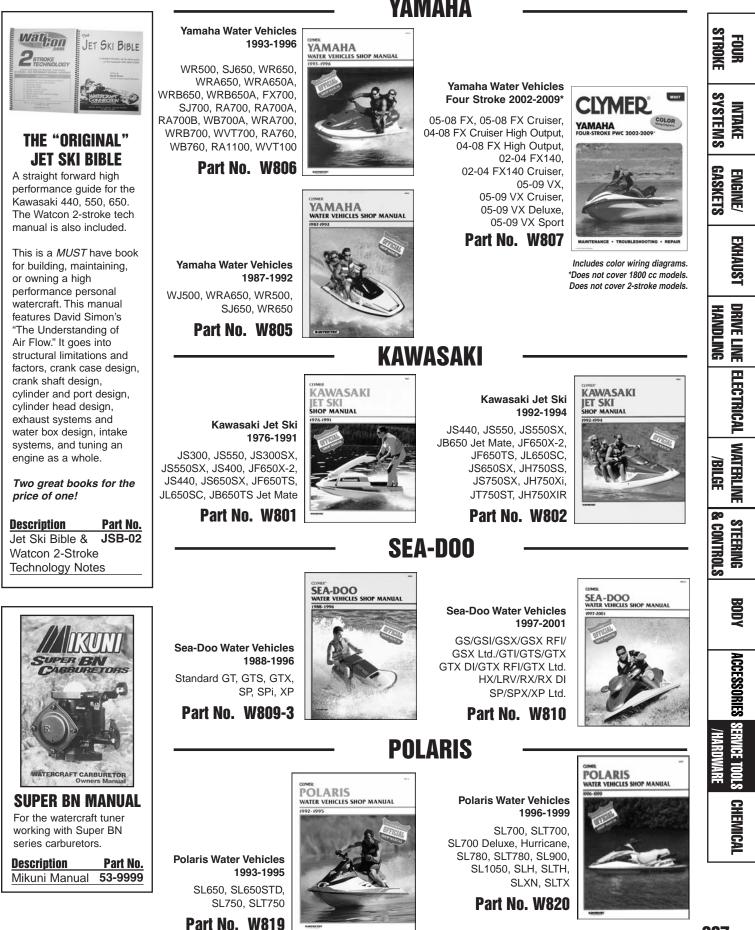
CLYMER[®] REPAIR MANUALS

уамана



METRIC STAINLESS STEEL HEX BOLT PACKS 10 Pcs Per Pack

Size/mm 6 x 10 6 x 12 6 x 14 6 x 16 6 x 18 6 x 20 6 x 25 6 x 30 6 x 35

Part No.	Size/mm	Part No.	Size/mm
60-3010	6 x 40	60-3040	8 x 25
60-3012	6 x 45	60-3045	8 x 30
60-3014	6 x 50	60-3050	8 x 35
<u>60-3016</u>	6 x 60	60-3060	8 x 40
<u>60-3018</u>	6 x 70	60-3070	8 x 50
60-3020	6 x 80	60-3080	8 x 60
60-3025	8 x 18	60-4018	8 x 80
60-3030	8 x 20	60-4020	10 x 25

METRIC STAINLESS STEEL SOCKET HEAD CUP BOLT PACKS

Size/mm 6 x 16 6 x 20

10 Pcs Per Pack

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

60-3035

Part No.	Size/mm	Part No.
61-3016	6 x 60	61-3060
61-3020	8 x 20	61-4020
61-3025	8 x 25	61-4025
61-3030	8 x 30	61-4030
61-3035	8 x 50	61-4050
61-3040	8 x 60	61-4060
61-3050	10 x 25	61-5025

25



STEEL NUTS

10 Pcs Per Pack

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





METRIC STAINLESS STUD PACKS

Part No.

60-4025 60-4030

60-4035

60-4040

60-4050

60-4060

60-4080

60-5025

10 Pcs Per Pack

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

METRIC **STAINLESS STEEL SPRING** WASHERS

10 Pcs Per Pack

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

PLASTIC FITTINGS

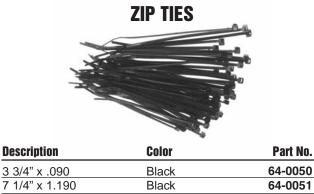
TH	
*64-0047 astic T Fitting	Part No.
/8" x 3/8" x 3/8"	64-0025
/2" x 1/2" x 1/2"	64-0027
lastic Y Fitting	Part No.
8/8" x 3/8" x 3/8" (white)	64-0045
1/4" x 1/4" x 1/4" (white)	64-0046
· · · · ·	64-0047
1/4" x 1/4" x 1/4" (black)*	04-0047

METRIC STAINLESS STEEL FLAT WASHERS

10 Pcs Per Pack

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





(Sold in Packages of 100)

FOUR Stroke

SYSTEMS INTAKE

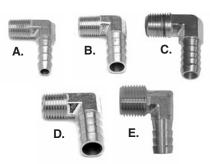
BODY

BRASS FITTINGS

MNPT = Male National Pipe Thread



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



90 Degree	Part No.
A. 1/8" MNPT Pipe thread	64-0007
3/8" Hose Barb	
B. 1/4" MNPT Pipe thread	64-0009
1/2" Hose Barb	
C. 1/4" MNPT Pipe thread	64-0006
3/8" Hose Barb	
D. 1/8" MNPT Pipe thread	64-0010
1/4" Hose Barb	
E. 1/2" MNPT Pipe thread	64-0008
1/2" Hose Barb	



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



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



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



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



Press-in 90 Degree Fuel Inlet	Part No.
1/4" Hose 90 Degree	DF44-2/70



Part No.

64-0012

Garden Hose Adapter

Garden Hose

3/8" Hose Barb to Standard

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



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



Jetcross Tour

Round 1 - May 25-26 Cogolin Round 2 - June 8-9 Pont-a-Mousson, Lorraine Round 3 - June 22-23 Villeneueve-la-Guyard (So'Fun Village), Ile de France Round 4 - July 13-14 Freestyle Class Only Languedoc-Rousillon Round 5 - July 27-28 Midi-Pyrenees Round 6 - August 14-15 Avignon (PACA)



STROKE	FOUR
SYSTEMS	INTAKE

Г

BODY



STAINLESS STEEL HOSE CLAMPS

	Min Dia		Max Dia		
SAE Size	Inch	mm	Inch	mm	Part No.
#5 (3/8"Waterline)	1/4	7	11/16	17	WF62M05
#6 (1/2"Waterline)	5/16	8	7/8	22	WF62606
#36	1-3/4	46	2-3/4	70	WF67004-0036
#48	2-1/2	65	3-1/2	89	WF67004-0048
#56	2-1/8	54	4	100	WF67004-0056
#72	3	76	5	127	WF67004-0072
#80	3-1/2	92	5-1/2	140	WF67004-0080



T-BOLT CLAMPS

	Minimum Diameter		Max Diameter		
Size	Inch	mm	Inch	mm	Part No.
#238	2 15/64	2.224	2 29/64	2.442	D43H-75-238
#325	3 5/32	3.016	3 21/64	3.312	D40H-75-325
#400	3 49/64	3.766	4 1/6	4.062	D40H-75-400
#450	4 17/64	4.266	4 9/16	4.562	D40H-75-450
#500	4 49/64	4.766	5 1/16	5.062	D40H-75-500
#525	5 11/64	5.016	5 5/16	5.312	D40H-75-525
#550	5 17/64	5.266	5 9/16	5.562	D40H-75-550
All T-Ro	It Clamne are	3/1" (7	5mm) wide		

All T-Bolt Clamps are 3/4" (.75mm) wide



Description Hose Shears

FOUR STROKE

SVSTEMS

engine/ gaskets

EXHAUST

WATERLINE ELECTRICAL DRIVE LINE

HANDLING

/BILGE

& CONTROLS **STEERING**

BODY

INTAKE



FUEL LINE

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

HOSE SHEARS

Part No.

12-0013

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



Fast & Easy Removal



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 temperature 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		12-0024
Clamp for 1/4" Fuel Line Hose (10/pack)		59-4014
Clamp for 1/4" Fuel Injector Hose (10 page	x) 9/16	59-4016
Clamp for 3/8" Water Line (10 pack)	11/16	59-4017
Clamp for 1/2" Water Line (10 pack)	13/16	59-4018

100 Clamp Packs	Clamp Siz	e Part No.
Clamp for 1/4" Fuel Line Hose (100 pac	:k)	59-4014-100
Clamp for 1/4" Fuel Injector Hose (100 pa	ck) 9/16	59-4016-100
Clamp for 3/8" Water Line (100 pcs/pk)		59-4017-100
Clamp for 1/2" Water Line (100 pcs/pk)	13/16	59-4018-100



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 Dry Pipe installations. Waterline is sold per foot.

> Part No. 56-8010

Description	
3/8" ID 300psi WP	



WATER LINE HOSE

Description		Part No.
3/8" ID Blue 300psi WP (Eaton Synfle	ex)	56-8000
1/2" ID Blue 250psi WP		56-8004
(Goodyear Pliovic Plus)		
3/8" Clear Vinyl		56-8007
3/8" ID Blue (Venair Technosil)	NEW	56-8012-25
Silicone Tubing (Sold in 25' lengths)		

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

Super Charger Retaining Key

All 4 Tecs with Super Chargers

Part No. 950-110

O.E. No. 529-035-949

Support Plate 4-TEC

O.E. No. 529-035-947

Fits: 4-Tec Supercharged

Seal & Bearing Pusher

O.E. No. 529-035-955

Fits: GTX 4-Tec Models

Part No. 950-165

Part No. 950-190

Supercharged Engines



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



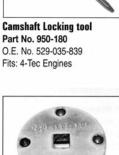
Crankshaft Locking Tool Part No. 950-125 O.E. No. 529-035-821 Fits: All 4 Tecs



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



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



FOUR STROKE

SYSTEMS INTAKE

GASKETS

ENGINE/

EXHAUST

DRIVE LINE HANDLING

ELECTRICAL WATERLINE

BILGE

STEERING & CONTROLS

BODY

ACCESSORIES SERVICE TOOLS

CHEMICAI

4-Pin Socket

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



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



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



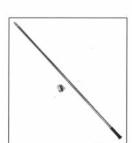




Insert Alignment Tool Adapter Part No. 950-145 O.E. No. 529-035-590 Fits: XP & DI Models



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



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



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



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



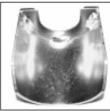
Steering Cable Nut Removal Tool Part No. 950-130 O.E. No. 295-000-145 Fits: All Models



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



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



PTO Support Tool Part No. 950-192 O.E. No. 529-035-842



FOR SEA-DOO ENGINE



SD 4-TEC VALVE **COMPRESSION** TOOL Our 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.

Description SD 4-TEC Valve Compression Tool

FOUR STROKE

SYSTEMS INTAKE

GASKETS ENGINE/

EXHAUST

DRIVE LINE HANDLING

WATERLINE ELECTRICAL

/BILGE

CONTROLS **STEERING**

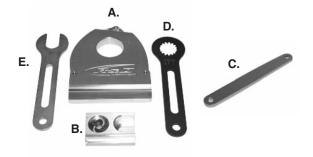
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BODY

SERVICE TOOLS ACCESSORIES

CHEMICAL

Part No. RS19050-VCT



R&D 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. Seal/Bearing Retainer Torx Wrench	613-96008
D. 215HP 16 Tooth Drive Gear Tool	613-96016
D. 185HP 17 Tooth Drive Gear Tool	613-96017
E. 185HP Clutch Drive / Lock Washer Tool	613-96018
E. 215HP Clutch Drive / Lock Washer Tool	613-96019

*NOTE: Kit comes with a S/C holder, bearing puller/installer tool, drive gear tool and clutch drive/lock washer tool.



RIVA SEA-DOO SUPERCHARGER SHAFT HOLDER TOOL

Our Sea-Doo 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 RIVA Sea-Doo SC Shaft Holder Tool

Part No. RS1750-ISH-949

> Part No. LS26750



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	
Torx Socket Set	

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

R&D SUPERCHARGER

CLUTCH REMOVAL TOOL FOR

YAMAHA 1.8L ENGINE

application and are CNC machined to ensure a precision job.

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



massive amounts of time for any mechanic.

Description			
R&D Supercharger	Clutch	Removal	Tool





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

Description

FZR Valve Spring Compression Tool Kit

Part No. 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

FOR YAMAHA 1.8L ENGINE

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.

Description	Part No.
Valve Seal Tool for Yamaha 1.8L Engine	RY19040-VST



TOROUE ANGLE METER

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

Description	Part No.
Torque Angle Meter	LS28100





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	

FOR YAMAHA 1.8L ENGINE



FZR CAM TENSIONER TOOL

The R&D Cam Tensioner Tool is designed to mechanically spring preload the cam chain in order to set and verify cam timing. This eliminates the process of pressurizing the hydraulic cam tensioner to verify cam timing.

Description	Part No.
R&D FZR Cam Tensioner Tool	612-92015

DRIVELINE COUPLER WRENCH



Description Part No. Driveline Coupler Wrench for SHO, FZR, VXR, VXS

132-57002

FOR KAWASAKI ENGINE

R&D ULTRA 250/260X SUPERCHARGER WHEEL PULLER TOOL

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.

Description	Part No.
R&D Ultra 250/260X SC Wheel Puller Tool	611-26004

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 torgue the drive bolts and main spline drive bolt. A must have tool.

|--|

Ultra 250/260X Driver Wheel Holder Tool

FOUR

SASTEWS INTAKE

GASKETS ENGINE/

EXHAUST

DRIVE LINE IANDLING

ELECTRICAL WATERLINE

BILGE

& CONTROLS **STEERING**

BODY

Part No.

611-26003

FUEL SYSTEM SERVICE TOOLS



CARB SCREW ADJUSTING TOOL

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

Description	Part No.
Carb Screw Adjusting Tool	08-0119



90 DEGREE 1/4" HEX DRIVER

Precision made of high-grade aluminum & stainless steel. Designed for hard-to-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
HACK SEVER PUSHER JAW TUBE HOSE BEING REMOVED	Silver Birdiero	4	

HOSE BEING REMOVED



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

TUBE

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

Description	Part No.
Hose Pinchers	LS22850

HOSE PINCHERS

Quick, easy way to pinch off fuel lines, etc.

without damaging the line.

Sold two per set.



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	MK-404



ROTARY VALVE TIMING WHEEL

Description	Part N
Rotary Valve Timing Wheel	012-17





MIKUNI POP-OFF GAUGE

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

Description	Part No.
Mikuni 30 Lbs. Guage	MK-BN PMP
Mikuni 60 Lbs. Guage	MK-BN PMP-60
Mikuni 100 Lbs. Guage	MK-BN PMP-100

HANDLING

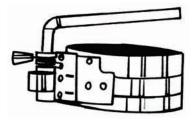
FOUR STROKE

INTAKE

/BILGE

CHEMICAL

ENGINE SERVICE TOOLS



QUICK RELEASE RING COMPRESSOR

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

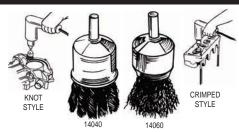
Description	Part No.
Quick Release Ring Compressor	LS19000



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



FOUR STROKE

SASTEWS

GASKETS ENGINE/

INTAKE

EXHAUST

DRIVE LINE HANDLING

ELECTRICAL WATERLINE

/BILGE

& CONTROLS STEERING

BODY

ACCESSORIES SERVICE TOOLS

CHEMICAI

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



WRINKLE BAND RING COMPRESSOR

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

		- L
Description	Part No.	3
Wrinkle Band Ring Compressor	LS21700	





Piston Ring Installer



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	012-152



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

CONVERSION TABLE

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 (I.) = 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



"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
- alter	
TELESCOPING	MIRROR
Enables you to see around co diameter mirror swivels to any extends from 10" to 14".	

Description

Telescoping

g Mirror	LS32050	

Part No.

ELECTRIC SYSTEM SERVICE TOOLS

EXHAUST

WATERLINE | ELECTRICAL | DRIVE LINE

STEERING

BODY

CHEMICAL SERVICE TOOLS ACCESSORIES

HANDLING

/BILGE

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	35051
Spark Plug Dies	3508
Amp Pins	3506
Amp Lug Dies	3507
Weathertight Dies	3509
Deutsch Terminal Dies	3510



TERMINAL DETENT TOOL

_		
& CONTROLS	The hollow barrel allows you to de the terminal end and to remove th connector without damaging its en	e wire from the
త	Description	Part No.
	Terminal Detent Tool	59-0254
RDWARE	TERMINAL REMOV	
/HA	Description	Part No.
	Terminal Removal Tool	LS14900



PERMA-SEAL CONNECTOR KIT

Description Part No. MSD Perma-Seal Connector Kit 4377



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



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FLYWHEEL PULLER

<u>Sea-Doo</u>	Part No.
800/951 38mm x 1.5	MP#42

Kawasaki	Part No.
900/1100 35mm x 1.5	MP#29
1200 STX-R,	MP#64
Ultra 150 33mm x 1.5	



FLYWHEEL/MAGNETO PULLER

Sea-Doo	Part No.
580/650/720	MP#37
12 Hole Disc 8mm Bolts	
Beleste	D
Polaris	Part No.
Polaris All & Universal	MP#37
12 Hole Disc 8mm Bolts	
Yamaha	Part No.
580/650/Pre 94 701	MP#37
12 Hole Disc 8mm Bolts	
701/760/800/1100/1200	MP#37
12 Hole Disc 8mm Bolts	
Kawasaki	Part No.
300/440/550/650	MP#37
12 Hole Disc 8mm Bolts	



Kawasaki	Part No.
750/800	MP#18
Special 18mm x 1.5 Right Hand	Bolt

ELECTRIC SYSTEM SERVICE TOOLS

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



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	08-0122



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 08-0147



SPARK PLUG WIRE TESTER

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

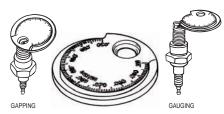
Description	Part No.
Spark Plug Wire Tester	LS26900



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



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FOUR STROKE

ACCESSORIES SERVICE TOOLS

BODY

CHEMICAI

297

SHOP TOOLS AND PUMP SYSTEM SERVICE TOOLS



SYSTEMS INTAKE

ENGINE/

EXHAUST

WATERLINE | ELECTRICAL | DRIVE LINE

/BILGE

CONTROLS **STEERING**

BODY

SERVICE TOOLS ACCESSORIES

CHEMICAL

GASKETS larger bolts and screws. Description Super Out Extractor Set



LS62900 3/8" HAND IMPACT

Part No.

SUPER OUT **EXTRACTOR** SET

A super strong

of a special hardened, shock-

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

extractor set made

resistant tool steel.

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!

Impact Set Includes:

3/8" Impact Iool
3/8" Bit Holder
#1 Phillips Bit
#2 Phillips Bit
#3 Phillips Bit
#4 Phillips Bit
3/8" Straight Slot Bit

Description Part No. 3/8" Hand Impact Tool Set LS29200



WATCON **INTAKE/SCOOP GRATE DEPTH** GAUGE

Most savvy tuners are sure to set their intake grates to the maximum IJSBA allowed limits for the best hook-up possible. Watcon's "Depth Guage" has been manufactured to the Official IJSBA Rule Bok specifications.

Description	Part No.
Watcon Intake Scoop	IJSBA-1
Grate Depth Guage	

***THE WATCON DEPTH GUAGE HAS BEEN** MANUFACTURED TO THE SPECIFICATIONS IN THE IJSBA RULE BOOK, ALL FINAL DECISIONS ON THE LEGAL DEPTH ARE THE DECISION OF EACH RACE DIRECTOR AND THE TECHNICAL INSPECTOR FOR EACH RACE SITE.



IMPELLER HOLDER TOOL

Holds spline of drive shaft for removal of impeller.

Sea	a-Doo	Part No.
Α.	580/650/720/800/951 All	TOOL#23
	18mm spline	

Polaris

Part No. B. Polaris ALL & long **TOOL#38** reach universal 20mm spline



IMPELLER HOLDER TOOL

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



IMPELLER SHAFT HOLDER TOOL FOR YAMAHA

	naha	Part No.
G.	WR500, WJ650LX	TOOL#27
	16mm spline	
H.	650/701/760/1100/1200	TOOL#32
	18mm spline	
I.	GP1200R	TOOL#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.

Part No.
TOOL#60-3
TOOL#61-5

Kawasaki	Part No.
440/550/650/750/800	DC-800



SOLAS IMPELLER HOLDER TOOL

Part No.

WR012-SRX

Sea-Doo RXP/RXT (27mm)



IMPELLER HOLDER TOOL FOR KAWASAKI

Ka	wasaki	Part No.
E.	440/550-89	TOOL#24
	16mm spline	
F.	650/750/800/900/1100 &	TOOL#23

Ultra 250/260/300 18mm spline



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 Impellers	IMP-142
144-148mm Impellers	IMP-148
155-160mm Impellers	IMP-160

SHOP TOOLS



STUD TOOL

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

Hex head is 3/4" or 19mm.

6mm x 1.00 Stud Tool

8mm x 1.25 Stud Tool

10mm x 1.25 Stud Tool

Description

Description	Part No.
Economy Stud Tool Kit	WJ7710

STUD INSTALLATION TOOLS

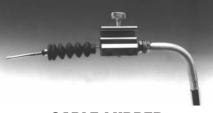
Part No.

08-0149

08-0150

08-0151

Will Install cylinder and intake manifold studs.



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



SCRATCH BRUSH

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

LS14180
LS14160



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

Description Part No.



12610

12690 12700 12970

SIZE

.565

2.830 2.995





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

Part No.
LS12980



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

1/4" Holder with

on Part No. er with 26 Compartments LS40120	GASKEIS
LS21300	HANULING

FOUR STROKE

SYSTEMS INTAKE

ENGINE/

EXHAUST

DRIVE LINE

ELECTRICAL WATERLINE

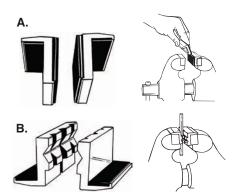
BILGE

Steering & Controls

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



RUBBER-FACED & ALUMINUM **VISE JAW PADS**

These vise jaw pads are designed to protect delicate

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

SHOP TOOLS





Adapter Kit

Included!



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.

SHOP

LANYARD

Description	Part No.
HT Moto 15 Liter Oil Extractor	OIL03



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	Color	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

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
- Tethered cap
- Delivers gulp-free, mess-free performance
- · Complete adapter kit is included featuring three extraction tubes

Description

	Fall NU.
Fluid Extractor (6.5 Liter Fluid Extractor)	CJ-169-S
Fluid Extractor Tube Replacement Kit	72-13117A
*Note: Not for use with gasoline.	



RULE FLAT TANK ELECTRIC OIL EXTRACTOR

Eliminate those costly yard service fees with the new guick, 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 clamps
- · Empties and stows easily
- · Self-priming, dry running, 12 or 24 volt diaphragm pump

Description Electric Oil Extractor

Part No. 17860-0012

Dart No.



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

STEERING

BODY

SERVICE TOOLS ACCESSORIES

CHEMICAL

٥Ž

EXHAUST

HANDLING





CHEMICAI





ELME TOOLS SEVED DIAGNOSTIC SYSTEM

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

Seved Pro is the professional multi brand diagnostic solution, it is the most complete tool created for users looking for independence and flexibility in managing jet skis and marine engines.

Seved Pro connects directly to diagnostic socket and read/erase fault codes, output live data, program and reset.

- Multi brand
- · Key and remote programming
- Portable and autonomous
- Updates via internet
- Full technical support
- Evolving device

Seved Pro is the only diagnostic tool you will need to purchase. Depending on your requirement, customers are free to configure their own diagnostic tool to manage all engine brands. With the programming facility, you will also be able to program keys and remotes for any PWC brand.

Thanks to Seved Pro, each mechanic will boost business and expand the service offered to their customers

Seved Pro is a complete diagnostic device for:

- · BRP Sea-Doo with key programming
- Kawasaki with key programming
- Yamaha with remote programming
- Benelli
- Yanmar
- Weber
- Jet Lev with key programming

Software can also be ordered separately, depending on the services offered to its customers.



Who is Elme Tools?

Elme Tools are the leader in car keys and controls programming. The company's 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 their business activity to the pwc and marine industry. The company goal is ambitious but simple; bring a complete diagnostic solution to manage pwc engines with efficiency.

Base Unit	Part No.
Seved Pro Diagnostic System Base Unit*	SEVED PRO
This unit includes: Master Cable (ADC300), SEV	/ED PRO
Marine Operating Manual (OPM110), Carry case	e (ADA100),
Neoprene case (ADA101), Dongle case (ADA 10	02),
Dongle A (ADC400), USB Cable (ADC153),	
Power cable (ADC152), Power cable (12 Volts) (ADC450)
* Base unit does not include software progra	<i>m.</i>
You can purchase software separately, or yo purchase a SEVED Pro Kit, which includes B and software program listed below.	

Kit (Base Unit + Software)	Part No.
Seved Pro + Software PWC Kit	PWCPACK**
ADS400/401/402/404/405/408	
## D / / / 0	

** Due to upgrade of programs & connectors, pricing may change. Please confirm pricing when placing your order.

Software	Part No.
BRP, BRP CAN-AM, Jet Lev Diagnostics	ADS400
BRP, BRP CAN-AM, Jet Lev Key Programming	ADS401
Suzuki 4 Stroke Outboards	ADS410
Kawasaki Diagnostics (Including Fitch)	ADS402
+ Key Programming (cable ADC419)	
Yamaha PWC & Outboard Diagnostics	ADS404
Hydrospace, Benelli, Weber S4	ADS405
Yanmar Diagnostics	ADS407
Yamaha Remote Programming	ADS408