

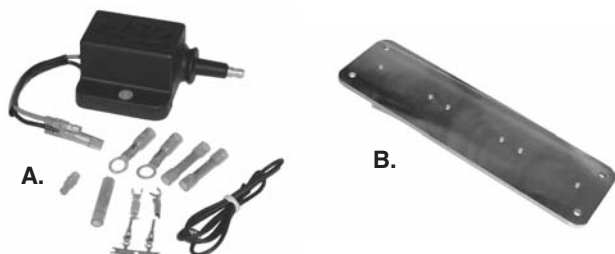


## MULTI-CHANNEL RACING IGNITION SYSTEMS FOR YAMAHA 650/701/760

Precise ignition timing is essential to produce maximum horsepower. However, one timing setting is not ideal for an engine's entire rpm range. The dynamics of air and fuel flow into the engine as well as the speed that the piston travels through the combustion stroke all affect the ideal timing setting. Fortunately, the Programmable MSD Ignition lets you tune in a custom timing curve to match your engine's requirements.

There are three settings that you program to create a timing curve. First you set where you want the initial timing, or idle timing. Next you set the rpm point to begin the curve, followed by the amount you want it to retard (up to 30°) through the high rpm limit. All the adjustments are made with dip switches built into the ignition.

This Ignition delivers a powerful capacitive discharge spark from idle to top end. This improved output results in complete combustion for performance through the entire rpm range of your engine.



### MSD COILS

#### COIL SPECIFICATIONS:

Turn Ratio: 70:1

Primary Resistance: 0.2 OHMS

Secondary Resistance: Less than 2000 ohms

Max Voltage: 30 KV

Description	Part No.
A. Single Tower Pro Coil	42921
B. Pro Coil Bracket (Holds up to 3 Pro Coils)	4570



### MSD TRIGGER PICKUP PLATE

Description	Part No.
Yamaha 650/701/760	4311



Description	Part No.
Yamaha 650/701/760 Total Loss	42380

**Kit Contains the following:**

Description	Part No.
Pro-Digital Programmable Ignition Unit	42351
Trigger Plate	4311
Triggers (2)	4316
Coil (2)	42921
Coil Bracket	4570
Wire Set	31009
Flywheel	43032



## PRO-DIGITAL PROGRAMMABLE IGNITION

Description	Part No.
MSD Pro-Digital Programmable Ignition (unit only)	42351



## MSD TOTAL LOSS PICK UP

Description	Part No.
Pick Up Total Loss Universal	4316
Pick Up Yamaha 800/1100/1200	43161
Timing Tape, Sea-Doo	LAB17344
Timing Tape, Yamaha 1200/800	LAB19722
Magnets, Round 2 pcs/set	4309



## MSD 8.5MM SUPER CONDUCTOR SPARK PLUG WIRE

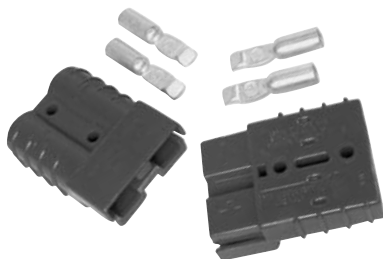
Spark plug wires have two main objectives; transfer the spark energy and suppress the Electro Magnetic interference (EMI) that the spark voltage creates. The MSD 8.5mm Super conductor delivers the best of both worlds. MSD uses a special copper conductor keeping resistance under 50 ohms per foot! Even with this low resistance, the wire retains high EMI suppression capabilities. By wrapping the conductor tightly around a ferro-magnetic impregnated center core and EMI choke is created, keeping any interference inside the wire.

Description	Part No.
Two Cylinder Wire Set	31009
One Cylinder Wire Set	31019
Three Cylinder Wire Set	31039



## MSD BULK WIRE

Description	Part No.
Bulk Wire 25 feet - Red	34019
Bulk Wire 25 feet - Black	34013



## MSD BATTERY QUICK DISCONNECT

Racers will appreciate this Quick Disconnect Battery Connector because it allows

for easy removal of the battery. The connectors grip together to form a vibration proof connection but can easily be disconnected for quick removal for charging of the battery.

Description	Part No.
Battery Quick Disconnect	4376



## MSD SPARK PLUG BOOT RETAINERS

There's no excuse for losing a race due to a plug wire popping off when you run MSD's Boot Retainers. These handy clamps are molded from heat resistant nylon material and will lock the boot to the spark plug.

Description	Part No.
Boot Retainer, 90° Spark Plug Boots & Terminal	3340



## MSD SPARK PLUG BOOT & TERMINALS

Description	Part No.
A. MSD 90° Spark Plug Boots & Terminal (2 pieces)	3311
B. MSD Spark Plug Terminals (Pack of 100)	34615
B. MSD Spark Plug Terminals (Pack of 10)	34615-10



## MSD DUAL WIRE SEPARATORS

These handy separators will secure two wires and keep them away from the exhaust or moving parts. Each wire can be moved easily and clipped right back in! Sold in a pack of 16.

Description	Part No.
Dual Wire Separator (pack of 16)	8841

FOUR STROKE	INTAKE SYSTEMS	ENGINE/ GASKETS	EXHAUST	DRIVE LINE HANDLING	ELECTRICAL	WATERLINE /BILGE	STEERING & CONTROLS	BODY	ACCESSORIES	SERVICE TOOLS /HARDWARE	CHEMICAL
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# MSD<sup>TM</sup> POWERSPORTS

## ENHANCER IGNITIONS

Each Enhancer is a direct plug in unit and is designed to fit in the stock location. The Enhancer Ignition gives the racer an edge due to the powerful spark energy and adjustable rev-limiter. The Enhancer Ignitions produce a much more powerful spark, as much as four times more spark energy, to insure complete combustion of the fuel mixture. This complete combustion results in improved performance including quick throttle response, improved pulling power and top end, plus will reduce spark plug fouling. Whether your watercraft is stock or if you've added other modifications such as a better flowing intake or exhaust modifications, the Enhance ignitions will improve the performance.

4253



### MSD YAMAHA 650/701 ENHANCER

At lower rpm you'll notice incredible acceleration and throttle response due to advancing the timing. Then as the rpm increases, the timing is retarded to the factory setting to prevent detonation and engine damage. For racers, there is also a lower rpm limit that you can activate for quick and consistent holeshots. Everything you need to install the Yamaha Enhancer is supplied along with factory connectors for a direct plug-in installation!

*Not compatible with Yamaha 760 engine applications.*

**Description**  
Yamaha 650/701

**Part No.**  
4253

4251



### MSD KAWASAKI 750 ENHANCER

The Kawasaki 750 Enhancer features the increased spark energy you expect from MSD plus they have an adjustable rev limiter and holeshot rpm limit. The rev limit is adjusted with a potential on the back of the ignition housing. The holeshot feature lets you activate a lower rpm limit that is best to use for quick starts at the beginning of a race. Also, these ignitions can be connected to the factory overheat sensor. With this feature, if the water temperature gets too high, the Enhancer will limit the rpm to a safe value to avoid any engine damage.

Note: Enhancer will not work on 1996Zxi.

**Description**  
Kawasaki 750 SX/SXI/95ZXI

**Part No.**  
4251



4255

### MSD SEA-DOO 800 ENHANCER

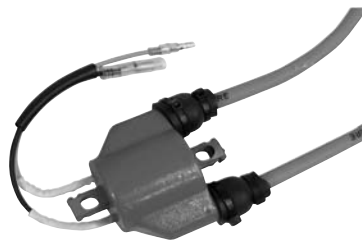
The Enhancer Ignition for the Sea-Doo® 800 (also the '95, '96, XP and GSX) uses a high speed RISC microprocessor to control all of the timer and rev limiter functions. This opens the door for programming, giving you the ability to set two rev limits and a timing curve through a series of dip switches built into the Enhancer. Being able to control the ignition curve lets you match the timing specifically to your engine and its modifications. The Digital Enhancer produces a series of sparks through 3,000 rpm rather than just a single spark. This feature delivers incredible throttle response, acceleration and keeps the idle clean and smooth. Note: This modification will eliminate the factory DSS security system and the handlebar kill feature.

**Description**

Sea-Doo 800 '95-'96, 97-98 SPX, GTX

**Part No.**

4255



### MSD STOCK IMPROVED COIL

Replace your old factory coil with this direct bolt-on.

- Replaces Stock Kawasaki & Yamaha Coils
- Molded-In 8.5mm Super Conductor Wires
- Output Voltage - 30KV • Primary Resistance - .08 OHM
- Secondary Resistance - 2K OHMS
- Used with Enhancer Ignition for Yamaha 650/701 and Kawasaki 750 only

**Description**

Stock Improved Coil for Start-Up

**Part No.**

4294



### MSD EXTERNAL STARTER RELAY

This 12 volt relay is a heavy duty unit designed to mount outside the electrical box. It's made with material that locks out moisture and chemicals. The large copper terminals assure good solid contact with your wiring. The stainless steel base plate allows the relay to be mounted in any position. Rated at 65 amps.

**Description**

MSD External Starter Relay

**Part No.**

M4390





## IGNI-PRO PROGRAMMABLE IGNITION

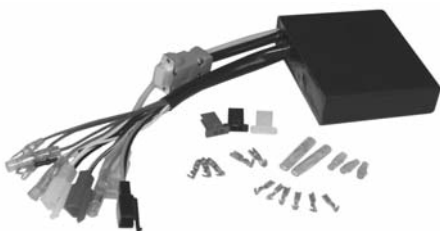
The best is now even better! The all new updated Igni Power ignition does not require battery power like previous Igni Power ignitions or OEM Kawasaki CDI's when the engine is not running, thus eliminating the battery draw down issue of the past. Igni Pro is a high power ignition which is fully programmable with any computer or laptop. Simple and easy to connection via a USB cable. This allow you to program your ignition to your specific engine modifications and any future changes to your engine package. This ignition upgrade will increase power with any modification even you utilize the OEM stock pipe. The ignition can be operated as a total loss system with a TBM total loss flywheel. This system fits perfectly in the OEM ignition box for reliability. Supplied with complete instructions and programming software (all Windows expect Vista).

### Description

Igni-Pro Programmable Ignition 800 SX-R

### Part No.

IGNI800SXR



## IGNI3 PROGRAMMABLE IGNITION FOR KAWASAKI 1100

Igni Pro is a high power ignition which is fully programmable with any computer or laptop. Simple and easy to connection via a USB cable. This allow you to program your ignition to your specific engine modifications and any future changes to your engine package. This ignition upgrade will increase power with any modification even you utilize the OEM stock pipe. The ignition can be operated as a total loss system with a TBM total loss flywheel. Supplied with complete instructions and programming software (all Windows expect Vista).

### Description

K1100 Programmable Ignition

### Part No.

IGNI3



## IGNI PRO FULLY PROGRAMMABLE IGNITION

Igni Pro SuperJet plug and play fully programmable ignition. Now also available for Yamaha SuperJet the Igni Pro full programmable ignition with same function as our well know SX-R Igni Pro. Comes with software for easy program with any computer and laptop. A must for any modification - plug in and feel the power difference. We developed the ignition to work with OEM flywheel or with TBM/RRP or other charging flywheels with no problems. All Yamaha 650/701 SuperJet.

### Description

SJ 650/701 Programmable Ignition

### Part No.

IGNI-SJ



## POWERSHOT ADJUSTABLE FUEL TUNER

The all new R&D Powershot fuel injection tuner will deliver increased horsepower, acceleration, and stronger mid-range performance by delivering a higher performing air to fuel ration (A.F.R.) to the engine. Many of today's high performance fuel injected four stroke muscle craft have a conservative A.R.R., which allows manufacturers to meet C.A.R.B.'s OEM emission standards and regulations. R&D Performance has tested, documented, and analyzed the OEM fuel map or curve, on every current fuel injected four stroke watercraft. The pre-programmed and coded R&D Powershot fuel injection control module safely alters the OEM fuel map to a higher performing and safer A.F.R. (richer). More horsepower, greater acceleration and stronger mid-range are the result when the proper A.F.R. is achieved and is tuned for optimum performance. The R&D Powershot is pre-coded, pre-tuned, preset and ready to install easily in minutes with R&D's comprehensive installation and tuning instruction.

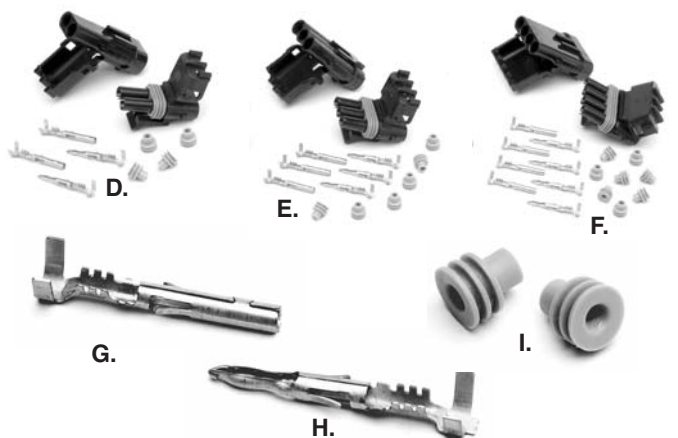
The R&D Powershot is fully adjustable on the fly (with the engine running, observed and tuned while riding), and will accommodate a wide range of adjustability to properly performance tune the A.F.R. for any combination of aftermarket parts, i.e. aftermarket supercharger modifications, camshafts or valve train modifications, head modifications, exhaust system modifications, and high compression piston kits. The R&D Powershot will add horsepower, reliability, and adjustability to any electronic fuel injected two or four stroke watercraft engine.

### Description

### Part No.

KAW 12F/15F Powershot Fuel Tuner	801-15000
KAW Ultra 250X/250LX Powershot Fuel Tuner	801-25000
YAM VX110 Powershot Fuel Tuner	802-00110
YAM FX HO Powershot Fuel Tuner	802-16000
YAM FX SHO/FZR/FZS Powershot Fuel Tuner	802-18000
YAM GP 1300R Powershot Fuel Tuner	802-13001
YAM VXR/VXS Powershot Adjustable Fuel Tuner	802-18010
S-D GTX/GTI 4-TEC N.A. Powershot Fuel Tuner	803-95000
S-D GTX 4-TEC SC (185 HP) Powershot Fuel Tuner	803-95001
S-D RXP/RXT/GTX 4-TEC (215 HP) Powershot Fuel Tuner	803-95002
S-D RXP-X/RXT-X (255HP) Powershot Fuel Tuner	803-95003
S-D RXP-X (12)/RXT-X iS/aS	803-95004
Hydrospace Powershot Fuel Tuner Powershot Adjustable Fuel Tuner	806-10000

FOUR STROKE	INTAKE SYSTEMS	ENGINE/ GASKETS	EXHAUST	DRIVE LINE HANDLING	ELECTRICAL	WATERLINE /BILGE	STEERING & CONTROLS	BODY	ACCESSORIES	SERVICE TOOLS /HARDWARE	CHEMICAL
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## HOT PRODUCTS WEATHER PACK CONNECTORS

Ideal for use in harsh environments. Positive snap-action locking. Secondary locking helps terminal retention and provides access to the terminals for service.

Description	Part No.
D. 2 Way Housing Kit	55-2060
E. 3 Way Housing Kit	55-2061
F. 4 Way Housing Kit	55-2062
G. Female Terminal Only 100/pk	55-2070

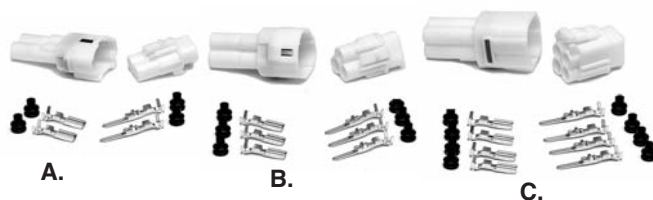


### MSD WEATHERTIGHT

Description	Part No.
6 Pin Connectors	8170
4 Pin Connectors	8171
3 Pin Connectors	8172
2 Pin Connectors	8173

### MSD GREY DEUTSCH CONNECTORS

Description	Part No.
8 Pin Connectors	8185
6 Pin Connectors	8180
4 Pin Connectors	8181
2 Pin Connectors	8183



## WATERPROOF TERMINAL KIT

Japanese OEM type connector Kit. Made in Japan.

Description	Part No.
A. 2-Pin Terminal Kit	16-622
B. 3-Pin Terminal Kit	16-623
C. 4-Pin Terminal Kit	16-624



55-2035 - (5 pcs/pk)

## JAPANESE OEM STYLE CONNECTOR

Made in Japan.

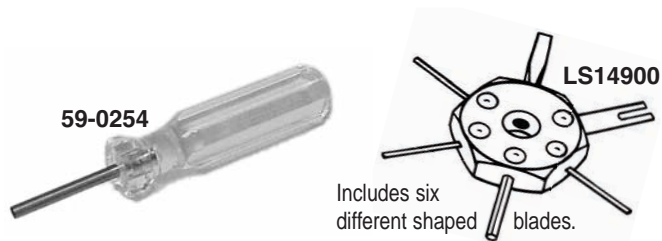
Description	Part No.
OEM Style Electric Connector Kit (5 pcs/pk)	55-2035
Dealer Kit (20 pcs/pk)	55-2037
Manufacturer Kit (100 pcs/pk)	55-2039



## MALE/FEMALE TERMINAL KIT

This kit includes 30 of both the male and female terminals and plastic sleeves/covers. The terminals are tin plated to prevent corrosion. The terminal kit is provided in a handy plastic case. Made in Japan.

Description	Part No.
Male/Female Terminal Kit	16-601



## 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	LS14900



## DEUTSCH REMOVAL TOOL

This stainless steel tool is designed to easily disassemble Deutsch connectors. The flat end slides under plug wedges to release them from the housing. The hook end hooks onto the receptacle wedge to release from the housing and it can separate holding fingers to allow for the pin and socket to be removed.

Description	Part No.
Deutsch Connectors removal Tool	14114100



## ADHESIVE LINED HEAT SHRINK BUTT CONNECTORS

Best used where moisture and corrosion is a problem. After crimping these terminals to wire, heat is applied enabling the adhesive within each shrunk tube terminal to melt and flow evenly to seal the connection against the harshest environment.

Description	Wire Range	Part No.
10pcs/pk Pink	22-18 (0.3-0.8mm)	55-2040
100pcs/pk Pink	22-18 (0.3-0.8mm)	55-2041
10pcs/pk Blue	16-14 (1-2mm)	55-2042
100pcs/pk Blue	16-14 (1-2mm)	55-2043



## ADHESIVE LINED HEAT SHRINK RING TERMINALS

Description	Wire Range	Part No.
10pcs/pk Blue	16-14 (1-2mm)	55-2080
100pcs/pk Blue	16-14 (1-2mm)	55-2081

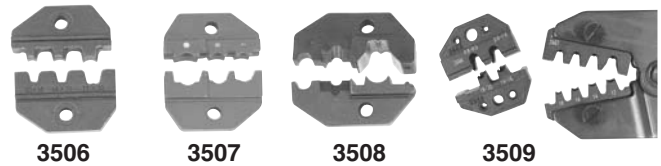
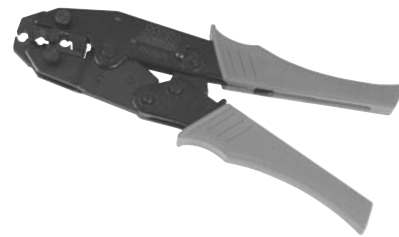


## MSD PERMA-SEAL CONNECTION KIT

Maximum ignition reliability can only be obtained by using high quality connectors and the Perma-Seal Connector Kit fits the bill! The tin coated copper terminals prevent corrosion and increase the

connector's strength. To seal the connection, each connector has a special heat shrinkable outer sleeve that bonds and seals to the wire when heat is applied to it.

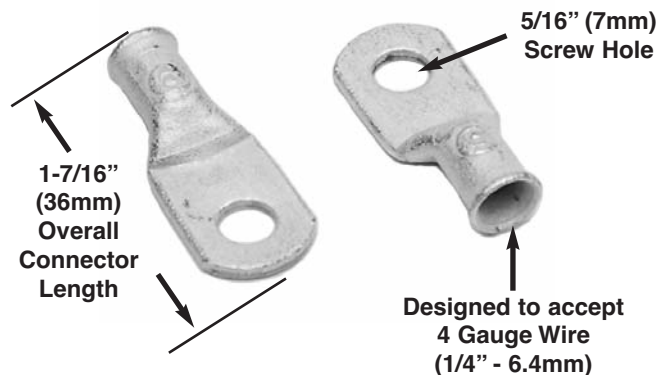
Description	Part No.
MSD Perma-Seal Connector Kit	4377



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



## QUALITY BATTERY (LUGS) CONNECTION

Marine Grade™ lugs are manufactured from heavy duty annealed tinned copper, providing for maximum current flow. 100% tin plated copper resists corrosion from salt and moisture. Seamless barrel design allows for maximum strength when crimped. Closed end design seals out moisture so cables stay dry and corrosion free.

Descriptions	Part No.
Battery Cable Ends (2pcs/set)	55-2031



## 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





TBM124-YAM



TBM124-Kaw

## TBM RACING CHARGING FLYWHEEL

Lightweight charging flywheel.  
Yamaha flywheel weighs: 2.05 lbs.  
Kawasaki flywheel weighs: 2.35 lbs.

Description	Part No.
TBM Racing Charging Flywheel for Yamaha 701 (62T)	TBM124-YAM
TBM Racing Charging Flywheel for Kawasaki 750-800	TBM124-KAW



## TBM RACING 800 SXR TOTAL LOSS FLYWHEEL

TBM's flywheel is compatible with the stock ignition in 2004-06 models and any aftermarket ignition system. This is the lightest flywheel on the market saving over 3 lbs vs. the stock flywheel.

NOTE: 2003 SXR's require the use of an aftermarket ignition.

Description	Part No.
TBM Racing 800 SXR Total Loss Flywheel for Kawasaki	TBM124



## TBM RACING 1100 TOTAL LOSS FLYWHEEL

Weighing in at 2.2 lbs (stock is 4.0 lbs.), you will gain a tremendous increase in acceleration and midrange power simply by bolting on this masterpiece.

Description	Part No.
TBM Racing 100 Total Loss Flywheel	TBM124-1100



## TBM RACING 750/800 KAWASAKI CHARGING FLYWHEEL PULLER

Description	Part No.
TBM Racing 750/800 Kawasaki Charging Flywheel Puller	TBM152



J305



J315  
Outside of  
Flywheel



J315  
Inside of  
Flywheel

## JETINETICS CHARGING FLYWHEEL

Jetinetics is the originator of the charging aluminum flywheel, and proudly retains the manufacturing right to its patented design. The patented Jetinetics Charging Flywheel is significantly lighter, 50% in some cases, which greatly reduces the energy used to overcome flywheel mass and allow the engine to increase rpms rapidly. A significant benefit is the fact that the engine will produce horsepower only after it has reached its powerband, which usually begins about 3800 rpm. By using a Jetinetics Charging Flywheel, the engine is able to reach its powerband much more quickly and create usable power much sooner. Further, during rapid cornering such as course racing or slalom runs, this becomes a significant factor for acceleration. Kawasaki flywheel weighs: 2.15 lbs.

Description	Part No.
Yamaha 701 (62T)	J315
Kawasaki 750/800	J305

## FLYWHEEL/MAGNETO PULLER



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

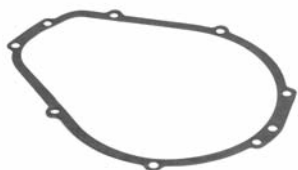
Kawasaki	Part No.
A. 900/1100 35mm x 1.5	MP#29
A. 1200 STX-R, Ultra 150 33mm x 1.5	MP#64

Sea-Doo	Part No.
B. 580/650/720 12 Hole Disc 8mm Bolts	MP#37

Polaris	Part No.
B. Polaris All & Universal 12 Hole Disc 8mm Bolts	MP#37

Yamaha	Part No.
B. 580/650/Pre 94 701 12 Hole Disc 8mm Bolts	MP#37
B. 701/760/800/1100/1200 12 Hole Disc 8mm Bolts	MP#37

Kawasaki	Part No.
B. 300/440/550/650 12 Hole Disc 8mm Bolts	MP#37
C. 750/800 Special 18mm x 1.5 Right Hand Bolt	MP#18



## FLYWHEEL COVER & HOUSING GASKETS, O-RINGS & OIL SEALS

Sea-Doo Flywheel Cover O-Rings	OEM#	Part No.
580 (88-91)	290-950-130	6280
580/650/720 (92-98)	290-831-555	6278
800 (95-99)	420-950-360	6632
950 (98-99)	290-931-690	6795

Sea-Doo Flywheel Housing Gaskets	OEM#	Part No.
580/650/720	290-850-605	6130
800	290-931-470	6045

Yamaha	OEM#	Part No.
650/701/760	6M6-81365	2360
1100/1200	63M-81365	4505
1200XLL/GP1200R/1300R (Oil Seal)	93102-35M57	3710

Kawasaki	OEM#	Part No.
440/550 (O-Ring)	92055-521	008-417
650/750/800 (O-Ring)	92055-3712	008-418
Ultra 150	11060-3803	7790



010-480



010-481

## SEA-DOO FLYWHEEL NUT & WOODRUFF KEY

Sea-Doo	MODELS	OEM#	Part No.
Flywheel Nut	All	420-842-230	010-480
Woodruff Key	All	420-246-055	010-481

## FLYWHEEL BOLTS & WOODRUFF KEYS

Kawasaki	MODELS	OEM#	Part No.
Flywheel Bolts	650/750/800/1100	92150-381	010-491
Flywheel Key	650/750/800/1100	92038-001	010-481-01

Yamaha	MODELS	OEM#	Part No.
Flywheel Key	All Models	90280-16053-00	010-481-02



SKI M.D.  
AUCKLAND, NEW ZEALAND



## R&D KAWASAKI 750 & 800 SX-R TIMING ADVANCE KIT

The R&D SX-R 800 Timing kit produces a substantial performance gain with the OEM ignition system. By relocating the pickup trigger on the ignition cover a full six degrees of ignition timing is available. Initial ignition timing from 0-2000 rpm boosted from 14 to 20 degrees, mid 3000-5000 rpm from 20 to 26 degrees and overall 6500 rpm + from 12 to 18 degrees.

Description	Part No.
R&D 750/800 Timing Advance Kit	441-75001
Replacement Timing Cover Gasket Only	8050



## PJS TIMING ADVANCE PLATE KAWASAKI 750/800

This plate will allow you to advance the timing of your Kawasaki 750 and 800. The recommended timing advance is 6 degrees. This kit includes the shim (washer) for the starter bendix.

You must use a thick timing cover gasket (Part 8050) for the proper clearance or engine damage will occur. Gasket is sold separately.

Description	Part No.
PJS Timing Advance Plate for 750/800	EN00010
Replacement Timing Cover Gasket Only	8050



## ADA RACING TIMING ADVANCE PLATE KAWASAKI 12F AND 15F

This is a stock timing trigger plate that is machined with additional locations for timing advance. Has the stock position, +3, +4, and +5 degrees. This fits the Kawasaki STX-15F and STX-12F four stroke watercraft.

Description	Part No.
Ada Racing Timing Advance Plate	31-250100





# NEW MES AQUA TORQUE STARTERS AND STARTER DRIVES

MES "High Torque" models and OEM equivalent models.  
All starters meet or exceed OEM specification.



S1090MHT  
S1090M



S1091MHT • S1091M  
\*Complete as shown with  
mounting bracket



S1096MHT-9  
S1096M-9  
\*9 Tooth Bendix



S1098MHT  
S1098M



S1102M

Sea-Doo Model	OEM#	High Torque Starter	OEM Replacement Starter	Drive Gear Idle Gear
GT, SP, XP580 89-91	278-000-316	S1090MHT	S1090M	3275M/3276M
SP, SPL, SPX580 91-94	278-000-316	S1090MHT	S1090M	3275M/3276M
XP650 91-94(all)	278-000-316	S1090MHT	S1090M	3275M/3276M
580/650/720 94-00(all)	278-000-485	S1091MHT	S1091M	3275M/3276M
XP800 95, XP/GSX/GTX96	278-000-577	S1096MHT-9	S1096M-9	3275M/3276M
951(all)	278-000-98Z	S1098MHT	S1098M	3270M
4 Tec (4 Stroke)	290-888-999	—	S1102M	Not Required
97-2003 GSX, SPX, GTX RFI,	278-001-497/278-001-038	S1096MHT-8	S1096M-8	Not Required
GSX RFI & 2003 GTI RFI	278-001-301	—	—	—



S1095MHT  
S1095M



S1099MHT  
S1099M



S1103M



S1101M



S1097MHT

## Yamaha

500 88-89	—	—	—	3274M
650/701 (all)	6M6-81800-10-00	S1095MHT	S1095M	3270M
760	64X-81800-00-00	S1105MHT	S1105M	3270M
800/1100/1200 (all)	63M-81800-00-00	S1099MHT	S1099M	3270M
FX140 (4 Stroke)	60E-81800-00-00	S1103MHT	S1103M	Not Required
VX1100	6D3-81800-00	S1107MHT	S1107	—

## Honda

F12/F12X 1200cc Aqua Trax	31200-HW1-671	—	S1101M	Not Required
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## Tigershark

640/650/770/900/1000 (92-99)	3008/093/327/536	S1097MHT	—	3270M
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S1094MHT  
S1094M



S1092MHT  
S1092M



S1100M



S1093MHT  
S1093M

## Kawasaki

440/550/550SX (all)	21163-3710	S1094MHT	S1094M	3273M
650/750/800/900/1100 (all)	21163-3712	S1092MHT	S1092M	3270M
ULTRA150, STX-R	21163-3715	—	S1100M	Not Required
12F, 15F	2163-3720/2163-372	S1108MHT	S1108M	Not Required

## Polaris

650/750/785/900/1050 (all)	324-01100	S1093MHT	S1093M	3270M
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3270M  
(19 tooth)



3273M  
(9 tooth)



3274M  
(11 tooth)



3275M  
9 Tooth  
(OEM 9 Tooth)



3276M  
8 Tooth  
(High Torque Unit)

**Manufacturer's Warranty Policy:** All MES products (excluding MES Economy Starters), when properly installed, are warranted by MES against defects in materials and workmanship for a period of one year from the date of sale to the original purchaser. For MES to accurately inspect defective items for warranty consideration, we ask that all returns reach our facility within the warranty period with an RA#, along with a copy of the original invoice and a brief explanation of the product's alleged malfunction.

**Non-Covered Warranty Issues:** Our warranty is limited to the replacement of defective units only and does not cover labor or any other expenses. This warranty extends to the application under normal use, and does not apply to any of the following: submersion, deliberate abuse, broken drive-gears, that are broken or tampered with during installation, or involved in attempted improper installations. Any tampering or dismantling, grinding, drilling, removing or addition of parts, or any action that alters the original design of the unit, will immediately render this warranty null and void.

# MES ECONOMY STARTERS



Sea-Doo Model	OEM#	Economy Starter	Drive Gear/Idle Gear
GT, SP, XP580 89-91	278-000-316	C1090-NA	3275M/3276M
SP, SPL, SPX580 91-94	278-000-316	C1090-NA	3275M/3276M
XP650 91-94(all)	278-000-316	C1090-NA	3275M/3276M
580/650/720 94-00(all)	278-000-485	C1091-NA	3275M/3276M
XP800 95, XP/GSX/GTX96	278-000-577	C1096-9-NA	3275M/3276M
951(all)	278-000-98Z	C1098-NA	3270M
4 Tec (4 Stroke)	290-888-999	C1102-NA	Not Required
97-2003 GSX, SPX, GTX RFI,	278-001-497/278-001-038	C1096-8-NA	Not Required
GSX RFI & 2003 GTI RFI	278-001-301		



Yamaha Model	OEM#	Economy Starter	Drive Gear/Idle Gear
650/701 (all)	6M6-81800-10-00	C1095-NA	3270M
800/1100/1200 (all)	63M-81800-00-00	C1099-NA	3270M

Tigershark Model	OEM#	Economy Starter	Drive Gear/Idle Gear
640/650/770/900/1000 (92-99)	3008/093/327/536	C1097-NA	3270M



Kawasaki Model	OEM#	Economy Starter	Drive Gear/Idle Gear
650/750/800/900/1100 (all)	21163-3712	C1092-NA	3270M
ULTRA150, STX-R	21163-3715	C1100-NA	Not Required

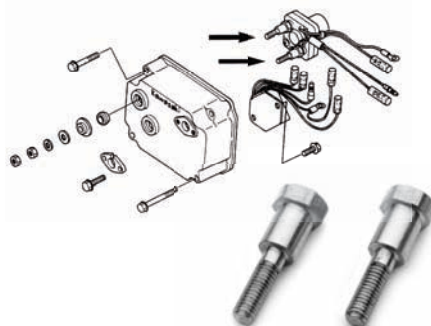
**Manufacturer's Warranty Policy:** All MES Economy Starters, when properly installed, are warranted by MES against defects in materials and workmanship for a period of 90 days from the date of sale to the original purchaser. For MES to accurately inspect defective items for warranty consideration, we ask that all returns reach our facility within the warranty period with an RA#, along with a copy of the original invoice and a brief explanation of the product's alleged malfunction.

**Non-Covered Warranty Issues:** Our warranty is limited to the replacement of defective units only and does not cover labor or any other expenses. This warranty extends to the application under normal use, and does not apply to any of the following: submersion, deliberate abuse, broken drive-gears, that are broken or tampered with during installation, or involved in attempted improper installations. Any tampering or dismantling, grinding, drilling, removing or addition of parts, or any action that alters the original design of the unit, will immediately render this warranty null and void.



## PROTORQUE STARTER DRIVE FOR SEA-DOO, YAMAHA, KAWASAKI, POLARIS

Description	Part No.
Protorque Starter Drive	PD-001-G



## KAWASAKI BATTERY SOLENOID POST

Our solenoid post allows placement of corroded post without replacing the expensive solenoid on all Kawasaki Jet Ski with small electrical box.

Description	Part No.
Solenoid Post (2 per set)	55-3350



## KAWASAKI ELECTRICAL BOX REPAIR FITTING

One kit contains 5 each of the nylon fittings, o-rings and black caps. These fittings will work on all Kawasaki watercraft electrical boxes and trim units.

Description	Part No.
Electrical Box Repair Fittings (5 sets per pack)	55-3400

FOUR  
STROKE  
INTAKE  
SYSTEMS  
ENGINE/  
GASKETS  
EXHAUST  
DRIVE LINE  
HANDLING  
ELECTRICAL  
WATERLINE  
/BILGE  
STEERING  
& CONTROLS  
BODY  
ACCESSORIES  
SERVICE TOOLS  
/HARDWARE  
CHEMICAL



# WSM OEM REPLACEMENT COILS

FOUR  
STROKEINTAKE  
SYSTEMSENGINE/  
GASKETS

EXHAUST

DRIVE LINE  
HANDLING

ELECTRICAL

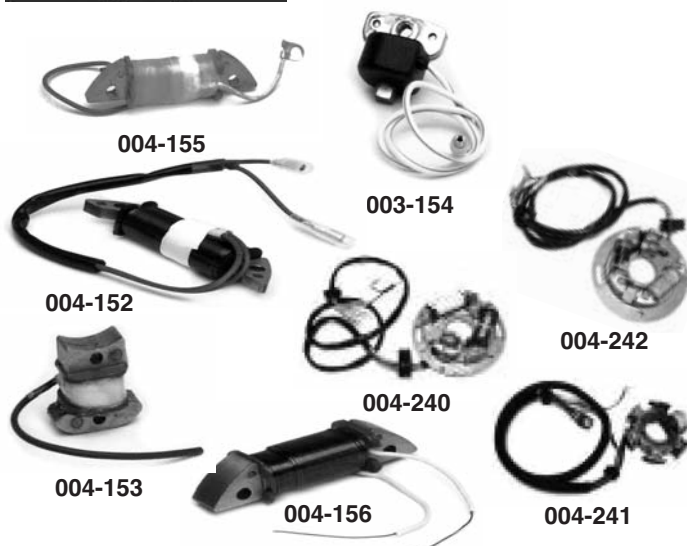
WATERLINE  
/BILGESTEERING  
& CONTROLS

BODY

ACCESSORIES

SERVICE TOOLS  
/HARDWARE

CHEMICAL



## YAMAHA LIGHTING COILS

Yamaha	OEM No.	Year	CC	Model	Part No.
Lighting Coil	6K8-81303-40-00	1989-1990	500	Wave Jammer	004-152
	6E7-81303-40-00	1989-1993	500	Wave Runner	
Lighting Coil	6M6-85533-00-00	1990-1993	650	SuperJet	004-156
		1991-1995	650	VXR	
		1990-1995	650	Wave Runner III	
		1991-1993	650	Wave Runner LX	
		1991-1995	700	FX1	
		1995	700	SuperJet	
		1993-1994	700	VXR Pro	
		1993-1995	700	Wave Blaster	
		1994-1995	700	Wave Runner III	
Lighting Coil	62T-85533-00-00	1996	650	Wave Runner III	004-147
		1996-2009	700	SuperJet	
		1996	700	Wave Blaster	
		1994-1997	700	Wave Raider	
		1997	700	Wave Runner III	
		1995-1998	700	Wave Venture	
		1999-2004	700	XL	
		1999-2000	760	GP	
		1996-1997	760	Wave Blaster	
		1996	760	Wave Raider	
		1997-1998	760	Wave Runner	
		1997	760	Wave Venture	
		1998-1999	760	XL	

## YAMAHA CHARGE COILS

Yamaha	OEM No.	Year	CC	Model	Part No.
Charge Coil	6M6-85520-00-00	1990-1993	650	SuperJet	004-155
		1991-1995	650	VXR	
		1990-1995	650	Wave Runner III	
		1991-1993	650	Wave Runner LX	
		1994-1995	700	FX1	
		1995	700	SuperJet	
		1993-1994	700	VXR Pro	
		1993-1995	700	Wave Blaster	
		1994-1995	700	Wave Runner III	
Charge Coil	62T-85520-00-00	1996	650	Wave Runner III	004-148
Charge Coil	62T-85520-01-00	1996-2009	700	SuperJet	
		1996	700	Wave Blaster	
		1994-1997	700	Wave Raider	
		1997	700	Wave Runner III	
		1995-1998	700	Wave Venture	
		1999-2004	700	XL	
Charge Coil	64X-85520-00-00	1999	760	GP	004-146
		1996-1997	760	Wave Blaster	
		1996	760	Wave Raider	
		1997-1998	760	Wave Runner	
		1997	760	Wave Venture	
		1998-1999	760	XL	

## YAMAHA PULSER COILS

Yamaha	OEM No.	Year	CC	Model	Part No.
Pulser Coil	6M6-85580-00-00	1990-1993	650	SuperJet	004-153
		1991-1995	650	VXR	
		1990-1996	650	Wave Runner III	
		1991-1993	650	Wave Runner LX	
		1994-1995	700	FX1	
		1995-1999	700	Super Jet	
		1993-1994	700	VXR Pro	
		1993-1996	700	Wave Blaster	
		1994-1997	700	Wave Raider	
		1994-1997	700	Wave Runner III	
		1995-1998	700	Wave Venture	
		1999	700	XL	
Pulser Coil	64X-85580-00-00	1999	760	GP	004-145
		1996-1997	760	Wave Blaster	
		1996	760	Wave Raider	
		1997-1998	760	Wave Runner	
		1997	760	Wave Venture	
		1998-1999	760	XL	

## YAMAHA STATOR PLATES

Yamaha	OEM No.	Year	CC	Model	Part No.
Stator Plate	6R7-85560-00-00	1990-1995	650	SuperJet	004-242
Assembly	6R8-85560-00-00	1991-1995	650	VXR	
(smaller Coils)		1990-1995	650	Wave Runner III	
		1994-1995	700	FX1	
		1993-1994	700	VXR Pro	
		1993-1995	700	Wave Blaster	
		1994-1995	700	Wave Runner III	
Stator Plate	62T-85560-00-00	1996	650	Wave Runner III	004-240
Assembly	6R7-85560-10-00	1996-2009	700	SuperJet	
(bigger Coils)	6R8-85560-10-00	1996	700	Wave Blaster	
		1994-1997	700	Wave Raider	
		1997	700	Wave Runner III	
		1995-1998	700	Wave Venture	
		1999-2003	700	XL	

## YAMAHA ARMATURE COIL

Yamaha	OEM No.	Year	CC	Model	Part No.
Armature Coil	65U-85510-00-00	1997-1999	1200	GP	004-241
		1999	1200	SUV	
		1998	1200	XL	



004-162



004-166

## KAWASAKI CHARGE COILS

Kawasaki	OEM No.	Year	CC	Model	Part No.
Charge Coil	59031-3002	1983-1992	440	JS	004-161
		1982-1989	550	JS	
		1990-1995	550	SX	
Charge Coil	21003-3719	1991-1995	650	SC	004-165
	21003-3712	1989-1990	650	TS	

## KAWASAKI EXCITER COILS

Kawasaki	OEM No.	Year	CC	Model	Part No.
Exciter Coil	21049-3006	1979-1982	440	JS	004-159
Exciter Coil	21049-3007	1983-1992	440	JS	
		1982-1989	550	JS	004-162
		1990-1995	550	SX	
Exciter Coil	21003-3719	1991-1995	650	SC	004-166
	21003-3712	1989-1990	650	TS	



# WSM OEM REPLACEMENT COILS



## KAWASAKI PULSER COILS

Kawasaki	OEM No.	Year	CC	Model	Part No.
Pulser Coil	59026-3008	1983-1992	440	JS	004-163
		1982-1989	550	JS	
		1990-1995	550	SX	

## KAWASAKI ARMATURE COIL

Kawasaki	OEM No.	Year	CC	Model	Part No.
Armature Coil	21003-3744	2000-2003	1100	STX D.I	004-205
	21003-3741	2001-2004	1100	ULTRA 130	



## SEA-DOO CHARGE COILS

Sea-Doo	OEM No.	Year	CC	Model	Part No.
Charge Coil	290-866-635	1990-1991	580	GT	004-170
	410-912-000	1989-1991	580	SP	
		1991-1994	580	XP	
		1994	580	XPI	
Charge Coil	290-965-400	1992-1995	580	GTS	004-171
	410-915-200	1992-1993	580	GTX	
		1992-1996	580	SP	
		1993-1996	580	SPI	
		1993	580	SPX	
		1992	580	XP	
		1995	650	GTX	
		1994-1995	650	SPX	
		1997-2001	720	G	
		1997	720	GSI	
		1996-2005	720	GTI	
		2002-2004	720	GTI LE	
		1996-2001	720	GTS	
		1995-1997	720	HX	
		1997	720	SP	
		1996-1997	720	SPX	
		1995	720	XP	



## SEA-DOO STATOR ASSEMBLY

Sea-Doo	OEM No.	Year	CC	Model	Part No.
Stator Assembly	290-886-726	1995-1997	580	GTS	004-202
	420-886-725	1995	580	SPI	
		1995	650	GTX	
		1995	650	SP	
		1995	650	SPX	
		1995	650	XP	
		1997	720	GS	
		1997	720	GSI	
		1996-2005	720	GTI	
		1995-1997	720	HX	
		1996-1997	720	SP	
		1996	720	SPI	
		1996-1997	720	SPX	



## IGNITION COILS OEM Replacement

Sea-Doo	OEM No.	Year	CC	Model	Part No.
Ignition Coil	290-866-607	1989-1990	580	SP	004-175
Ignition Coil	278-000-202	1992-1996	580	GTS	004-178
Ignition Coil	278-000-586	1992-1993	580	GTX	
		1992-1996	580	SP	
		1993-1996	580	SPI	
		1992	580	XP	
		1994-1995	650	GTX 3	
		1993-1995	650	SPX	
		1994-1995	650	XP	
		1994	650	XPI	
		1996-1997	720	GTI	
		1997-2000	720	GTS	
		1995-1997	720	HX	
		1997	720	SP	
		1996-1997	720	SPX	
Ignition Coil	278-000-383	2001-2005	720	GTI	004-176
		2002-2004	720	GTI LE	
		2001	720	GTS	
		1997	720	SP	
		1996-1997	800	GSX	
		1996-1997	800	GTX	
		1997-1999	800	SPX	
		1995-1996	800	XP	
		1998	951	GTXLTD	

Yamaha	OEM No.	Year	CC	Model	Part No.
Ignition Coil	6K8-85570-10-00	1989-1990	500	Wave Jammer	004-150
Ignition Coil	6K8-85570-19-00	1989-1993	500	Wave Runner	004-150
Ignition Coil	6M6-85570-00-00	1991	650	Super Jet	004-157
Ignition Coil	6R8-85570-00-00	1990-1993	650	Wave Runner III	004-157
Ignition Coil	62E-85570-00-00	1991	650	Wave Runner LX	004-157
Ignition Coil	62E-85570-10-00	1999-2009	700	Super Jet	004-157
Ignition Coil	62E-85570-11-00	1993-1996	700	Wave Blaster	004-157
		1994-1995	700	Wave Raider	
		1994-1997	700	Wave Raider	
		1994	700	Wave Runner III	
		1995-1996	700	Wave Venture	
Ignition Coil	64X-85570-00-00	1999-2000	760	GP	004-196
Ignition Coil	64X-85570-01-00	1996-1997	760	Wave Raider	004-196
		1997-1999	760	Wave Runner XL	
		1996-1997	760	Wave Venture	
		1998-2005	800	GP	
		2004	800	Wave Runner XA	
		2000-2001	800	Wave Runner XL	
		2002-2003	800	Wave Runner XLT	
Ignition Coil	63M-85570-00-00	1995-1996	1100	Wave Raider	004-193
		1996-1997	1100	Wave Venture	

Kawasaki	OEM No.	Year	CC	Model	Part No.
Ignition coil/CDI Box	21119-3703	1987-1991	650	SX	004-208
	21119-3711				
Ignition Coil	21121-3702	1992-1995	750	SX	004-180
Ignition Coil	21121-3705	1995-2002	750	SXI	004-180
Ignition Coil	21121-3712				004-180
Ignition Coil	21121-3708	2001-2002	900	STS	004-192-15
Cyl. #1 (15" Long Wire)		1997-2006	900	STX	
		1995-1997	900	ZXI	
		1997-1999	1100	STX	
		1996-2003	1100	ZXI	
Ignition coil	21121-3709	2001-2002	900	STS	004-192-21
Cyl. #2 (21" Long Wire)		1997-2006	900	STX	
		1995-1997	900	ZXI	
		1997-1999	1100	STX	
		1996-2003	1100	ZXI	
Ignition coil	21121-3710	2001-2002	900	STS	004-192-26
Cyl. #3 (26" Long Wire)		1997-2006	900	STX	
		1995-1997	900	ZXI	
		1997-1999	1100	STX	
		1996-2003	1100	ZXI	

# NO MORE SEARCHING REQUIRED! HOT PRODUCTS HAS THE SWITCH FOR YOUR APPLICATION

## Hot Products PWC Waterproof Switches Imported Exclusively from



JP7043/JP7044 can be installed with Hot Products Throttle Lever 58-0970 & 58-0971 as pictured above.



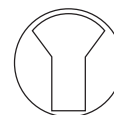
**HOT PRODUCTS  
EXCLUSIVE**

### 3-POSITION PANEL MOUNT ROTARY SWITCH

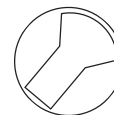
Connects to two electronic accessories for power control. Allows the operation of one device or accessory to run at a time. Suggested uses: Second Bilge, Ignition, etc. 12Volt/5Amp.



**Left Hand  
On Position**  
Use: Blue &  
Red Wires



**Center Off  
Position**



**Right Hand  
On Position**  
Use: White &  
Red Wires



JP7043



JP7044

### UNIVERSAL HANDLEBAR MOUNT SWITCHES

Mounts to handlebar or mounts to underside of most aftermarket throttle levers. Complete with 9" wire lead.

Description	Part No.	Description	Part No.	Description	Part No.
Handlebar Mount Switch 12Volt/6Amp push on/off switch	JP7043	Handlebar Mount Switch 12Volt/5Amp 3 position rotary switch	JP7044	Panel Mount Switch	57-3020



## CORROSION BLOCK®

### CORROSION BLOCK MULTI-PURPOSE GREASE

Liquid grease is ideal for use in electrical applications requiring grease.

Description	Part No.
Corrosion Block Liquid 1oz. Bottle	CB-20001



EPOXY LINED ON THE INSIDE OF THE TUBING



### EPOXY LINED HEAT SHRINK TUBING

High performance epoxy lined 1/2" id heat shrink. Just splice your wires, heat until the epoxy liquifies and your worries of possible water damage/corrosion are over! Heat shrink tubing color is Black.

Description	Part No.
Epoxy Lined Heat Shrink Tubing (4' length, 1/2" ID)	55-2032

## WATERPROOF SWITCHES AND BRACKETS

- Features waterproof on/off switch that is available with machined aluminum clamp-on or switch mounted bracket. Allows totally reliable and easy control of bilge pump operation.
- Mounting bracket is machined from billet alloy and is anodized black to prevent corrosion. Available for clamp-on bar mounting or bolts to the bottom of the OEM on/off switch assembly.
- All of the switches have a 9 ft. high grade wire lead.



**Yamaha**  
All

**Part No.**  
**57-3017**

**Description**

Universal Handle Bar Mount

**Part No.**  
**57-3006**

**UNIVERSAL**



**Kawasaki**

All 650's / 750SS-95 / XI-93

**Part No.**  
**57-3015**



**Kawasaki**

440 / 550 / 750SX /  
750SXI / 800SX-R

**Part No.**  
**57-3003**

**Description**

Standard Switch with  
9 feet of wire (No bracket included)

**Part No.**  
**57-3009**



### CPI WATERPROOF SWITCH ONLY

This replacement safety switch fits Sea-Doo's and other manufacturers.

**Description**

Replacement Safety Switch  
(Sea-Doo & other manufacturers)

**Part No.**  
**57-3011**



### UMI RXP TRIM/SWITCH HOUSING

UMI's trim/switch housing is machined from 6061-T6 billet aluminum, replacing the stock plastic housing. Trim/switch housing uses the factory variable trim switch and start/stop switch. This housing must be used with the UMI GSX/RXP (P/#58-6321) steering system, aftermarket bars and finger throttle.

**Description**

UMI RXP Trim/Switch Housing

**Part No.**

**SD-01600-CLR**



### BILLET 3 SWITCH HOLDER For Aftermarket Handlebar

**Description**

Sea-Doo

**Color**

Polished

**Part No.**

**58-2004**



### BILLET STOP SWITCH HOLDER For Aftermarket Handlebar

**Description**

SD GTX. 4-Tec, RXP, RXT (One hole type)

**Part No.**

**58-2003**

FOUR STROKE	INTAKE SYSTEMS	ENGINE/ GASKETS	EXHAUST	DRIVE LINE HANDLING	ELECTRICAL	WATERLINE /BILGE	STEERING & CONTROLS	BODY	ACCESSORIES	SERVICE TOOLS /HARDWARE	CHEMICAL
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# NGK SPARK PLUGS



## STANDARD PLUGS\*

B7ES  
B7HS  
B8ES  
B8HS  
B9ES

\*Sold 10 per Box



\*(Terminal can be removed)

## RESISTOR PLUGS\*

BPR7ES  
BR7ES  
BR7HS  
BPR8ES  
BPR9ES  
BR8ES  
BR8HS  
BR9ES  
BR9HS

\*Sold 10 per Box

## SOLID RESISTOR PLUGS\*\*

BR8ES-SOLID  
BR8HS-SOLID  
BR9ES-SOLID  
BR8ES-11  
(For Yam GPR)  
CR9EB

\*Sold 10 per Box



\*\*Solid Terminal  
(Non separable)



Find the NGK Spark Plug for your application using the NGK Spark Plug Finder



## NGK SPECIAL SPARK PLUGS FOR FOUR STROKE ENGINES

Description	Part No.
K1100 STX-DI, Ultra 130 DI (4 per Box)	PZFR7G-G
Sea-Doo GTX-4tec	DCPR-8E
RXP/RXT/RXP-X/RXT-X (10 per Box)	
Sea-Doo GTX-DI, LRV-DI, RX-DI (4 per Box)	ZFR4F-11
Yamaha FX 140/160, VX110 (10 per Box)	CR9EB
Kawasaki STX 12F/15F (10 per Box)	CR9EK
Kawasaki Ultra 250/260/300 (4 per Box)	PMR9B
Polaris M140, Genesis (4 per Box)	PZFR6H
Hydrospace S4 (4 per Box)	BKR7EIX-11
Honda 4 Stroke (4 per Box)	IMR9D-9H
FX SHO, FZR, FZS (10 per Box)	LFR6A
Ultra 150 A-1	R6918C-9
Ultra 150 A-2-3 (10 per Box)	BR9ES



## NGK Iridium IX SPARK PLUGS

Iridium is significantly stronger than any metal used in spark plugs today. The ignitability and durability is better than platinum. Sold 4 per box.

## IRIDIUM IX PLUGS

BR8EIX  
BR9EIX  
BR8HIX  
CR9EIX  
BKR7EIX-11  
BPR8EIX  
BPR9EIX  
DCPR8EIX

\*All NGK Iridium Spark Plugs are 4 per package.  
\*Iridium plugs are gapped at NGK, if you try to gap the plugs you will damage the center electrode.



## NIPPON DENSO Iridium SPARK PLUGS

Description	Part No.
Sea-Doo GTX-4tec, RXP/RXT/RXP-X/RXT-X	IXU24
Sea-Doo GTX-DI, LRV-DI, RX-DI	IK-16
Kawasaki Ultra 250/260/300	IU27
Kawasaki STX-12F/15F	IU27A
Yamaha FX-SHO, FZR, FZS	IKH-20

\*All Nippon Denso Iridium Spark Plugs are 4 per package.  
\*Iridium plugs are gapped at Nippon Denso, if you try to gap the plugs you will damage the center electrode.



## SPARK PLUG HOLDERS

Spark Plug Holder protects the electrode while maintaining the plug gap.

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



## NGK RESISTOR COVER

Waterproof spark plug resistor covers for use with resistor spark plugs.

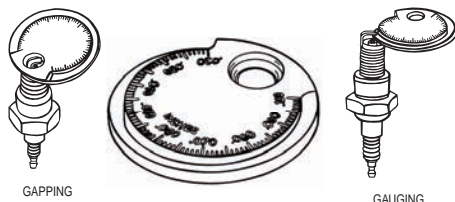
Description	Part No.
(5K OHM) 90 "T" 14mm plugs with terminal nut	TB05EM



## NGK RACING CABLE

High performance red silicon outer shell for maximum heat resistance and durability. Ceramic resistor (50hm) enhances protection against RFI.

Description	Part No.
90° Resistor cover 100cm, solid	CR6



## 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



## OPPAMA IGNITION INDICATOR PULSER



The Oppama Ignition Indicator is the fastest and easiest method to verify each cylinder is reaching spark. Simply hold the Oppama tool next to the ignition spark plug wire with the engine running, and the Blue LED lights up when the spark pulse is sent through the wire.

Description	Part No.
Oppama Ignition Indicator Pulser	OPET-4100

## OPPAMA

## OPPAMA PET-2100DX TACHOMETER

This measures engine rpm, maximum rpm, total cumulative operating time, resettable cumulative operating time. This has a dual display system for either current rpm alone or current & maximum rpm, and also has two maximum rpm memories for comparison.

*For 2 stroke engines 1 to 4 cylinder applications.*

*For 4 stroke engines 1 to 6 and 8 cylinder applications.*

\*This unit is not compatible with diesel engine and direct ignition applications.

Made in Japan.

Description	Part No.
PET-2100DX Tachometer	PET-2100DX



## TINY DIGITAL TACHOMETER & HOURMETER

Tachometer and resettable Hourmeter powered by internal battery. Sealed for moisture resistance.

*For 2 stroke engines 2 or 3 cylinder applications.*

Description	Part No.
Standard Digital Tiny-Tach (2 & 3-Cylinder)*	59-0552

\*Resettable hourmeter



## COMMERCIAL TINY DIGITAL TACHOMETER & HOURMETER

Features all the same features as the Tiny Tach Part# 59-0552 (see above).

Additional features included on this model:

- High RPM Recall
- Two Service Timers
- Can be programmed for different engine applications

Description	Part No.
Commercial Digital Tiny-Tach	59-0558



specified tachometer firing pattern.

Description	Part No.
Hour/Tach Meter	HR-8061

## HARDLINE PRODUCTS HOURMETER & TACHOMETER

Has same features as hour meter plus tachometer feature. Works on any gas engine up to 2 cylinders and 9000 RPM.

- Firing pattern 1 spark = 1 RPM
- Resolution 10 RPMs
- Maximum RPMs 9000
- Suitable for all single and twin, two or four cycle gasoline engines operating within

FOUR STROKE	INTAKE SYSTEMS	ENGINE/GASKETS	EXHAUST	DRIVE LINE HANDLING	ELECTRICAL	WATERLINE /BILGE	STEERING & CONTROLS	BODY	ACCESSORIES	SERVICE TOOLS /HARDWARE	CHEMICAL
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