ELECTRICAL FAULT FINDER
18-9904
A specially designed tool for tracking and tracing short and open circuits, broken wires and current leaks on any electrical circuit with voltages from 6 to 42 Volt DC. The automatic open/short detection, adjustable sensitivity and flexible antenna probe enables the technician to troubleshoot a complete array of common electrical problems without having to untie wire harnesses or remove panels.

- 8 in. flexible probe reaches in congested places
- Adjustable sensitivity
- Transmitter and receiver LEDs signal open or short circuit conditions
- Auto polarity transmitter that leads with 5 amp alligator clips
- Includes 18-9906 Cordless Circuit Tester & 18-9907 Fuse Socket Test Connectors
- Includes hard shell carrying case

MULTI METER/DVA TESTER
18-9801
Replaces: Mercury Marine 91-99750A1
- Includes VOA meter with built-in direct voltage adapter
- Tests electrical and ignition systems

CARRYING CASE INCLUDED

FAULT FINDER
18-9904
A specially designed tool for tracking and tracing short and open circuits, broken wires and current leaks on any electrical circuit with voltages from 6 to 42 Volt DC. The automatic open/short detection, adjustable sensitivity and flexible antenna probe enables the technician to troubleshoot a complete array of common electrical problems without having to untie wire harnesses or remove panels.

- 8 in. flexible probe reaches in congested places
- Adjustable sensitivity
- Transmitter and receiver LEDs signal open or short circuit conditions
- Auto polarity transmitter that leads with 5 amp alligator clips
- Includes 18-9906 Cordless Circuit Tester & 18-9907 Fuse Socket Test Connectors
- Includes hard shell carrying case

CARRYING CASE INCLUDED
I8-9906
CORDLESS CIRCUIT TESTER
A computer safe, all solid state electronics circuit tester. Unlike regular test lights, this high-impedance circuit tester is safe to use around computers, electronics, ecm's and sensors. Rugged, built to last and simple to use, it requires no wire or clip connector to ground. The Cordless Circuit Tester’s light and sound indicators allow users to check for power in less time that it takes to set-up a regular test light and find a suitable ground.

• No ground or clip necessary
• Range of operation: 3 to 28 VDC
• Powered by one AA alkaline battery
• Wireless design eliminates tangles

I8-9907
FUSE SOCKET TEST CONNECTORS
A new and innovative fuse socket connector set, consisting of three connectors sizes: Mini, ATO and Maxi to cover the most common fuse socket adapters requirements in the electrical repair field.

• Maximum conductivity and durability.
• Molded for easy insertion and removal.
• Easy access connector tabs fit:
  - ¼” quick connects
  - Alligator clips
  - Jumper Leads
  - Multimeter test leads

I8-9911
REFLECTIVE TAPE
A package of (6) specially formulated self adhesive reflective tape strips, for use as a target for optical tachometers. Its highly reflective surface is designed to scatter the light (infrared, laser or visible) emitted by the optical tachometer, improving the detection of the rotating or moving object from a wide range of angles and distances.

• Size: 8” (L) x 0.2” (W) / 20 cm (L) x 0.5 cm (W)
• High performance self adhesive backing
• Wide angle reflectivity material
• Specially made for use with optical and laser tachometers and counters
I8-9908
AC/DC 600A CLAMP METER
Allows the measurement of AC/DC currents with a resolution down to 0.1 A, and up to a maximum of 600A, making it ideal for testing all kinds of loads such as found in: electric motors, fuel pumps, charging systems, starter currents, alternators, etc.
• Voltage measurement: up to 600 V
• Clamp opens up to 1” (25.4 mm)
• Large 4 digit LCD display
• Operates with one rotary switch
• One touch auto zero
• Continuity check with audible indicator
• Test leads and batteries included
• Includes soft shell carrying case

I8-9905
AC/DC LOW CURRENT CLAMP METER
Designed to accurately measure current, current leaks (parasitic draws down to 1mA) and electrical loads from 1mA to 100 amp AC/DC and voltages from 0 to 600 AC/DC. The small diameter (½ inch or 13mm) and narrow jaw makes it ideal for use in confined spaces and on small gauge wires. Other features include resistance measurement functions, audible continuity test, display hold and peak detector.
• Large 4 digit LCD display
• Clamp opens up to 1/2” (12.5 mm)
• Operates with one rotary switch
• One touch auto zero
• Test leads and batteries included
• Includes soft shell carrying case

I8-9912
LASER TACHOMETER & COUNTER
Measures and tests the number of rotations per minute (RPM) or total number of rotations or events on any spinning shaft, pulley, wheel, drive belt, fan, or other rotating objects in general, safely, accurately and easily due to its unique ergonomic design.
• Measures from 2.5 to 99999 RPM
• 0.05% accuracy
• 2 to 20” measuring range
• Laser-powered optical system
• Memory recall functions (minimum & maximum)
• Large LCD display with symbols and backlight
• On target display indicator
• RPM, Total revolutions, maximum, minimum and last reading memory

CARRYING CASE INCLUDED
**18-9909**

**PROFESSIONAL MARINE DIGITAL MULTIMETER**

Offers full auto range features and functionality. Equipped with a 4 digit LCD display with analog bar graph it is capable of measuring AC/DC voltage up to 600 Volt and AC/DC current up to 10 A. Other functions include tachometer for RPM measurement, dwell, temperature, resistance, frequency, fuel injection test, diode test, continuity check and overload protection.

- State of the art design and styling for easier handling and use
- Large 4 digit LCD display with analog bar graph
- Tachometer function measures 30 to 20000 RPM.
- Temperature measurement from -20°C to 500°C or 0º to 932ºF
- Resistance measurement up to 40 MOhm
- Frequency measurement from 10 to 20 KHz
- Comes with hard shell carrying case

**18-9910**

**OXYGEN SENSOR TESTER & SIMULATOR**

Provides a simple interface for test and diagnostic on any oxygen sensor, to quickly determine whether the sensor is defective and needs replacement. It is designed as both a stand-alone tool or as a complement to any scanner during the diagnostic process, and is compatible with all types of Oxygen sensors.

- Signal output shown in real time on LED bar graph
- 2 button simulation of rich or lean conditions to monitor response of the engine control module
- Auto detection of common wire misconnections
- Diagnoses “lazy” (slow response) sensors, which may not set DTCs, but cause drivability problems
- By pressing the 'Test' button and performing a snap throttle acceleration of the engine, it tests the response time of the sensor and shows a pass or fail result within seconds
- Works with zirconium, titanium & air/fuel ratio sensors
- Comes with hard shell carrying case
**ELECTRICAL / ENGINE**

**18-9800 COMPRESSION TESTER**
Perfect for hard to reach bottom spark plug holes on older Mercury models.

**18-9902 DEEP WELL COMPRESSION TEST ADAPTER**
For deep well spark plug holes to perform compression testing. Works with 18-9900 compression tester.
- 14mm and 18mm threads
- Reaches 8” beyond the installation surface

**18-9913 SMARTACH**
Carrying Case Included
Designed for use on any engine equipped with an alternator, and only requires a simple connection to the electrical system (e.g. battery, alternator, cigarette lighter connector) to measure engine RPM. Taking advantage of the ripples generated by the alternator, SMARTACH automatically calculates the relationship between the speed of the engine and the alternator ripples, and uses them to measure RPM on any piston engine regardless of its ignition system (Diesel or gasoline).
- Measures from 2.5 to 99999 RPM
- 0.05% accuracy
- 2 to 20” measuring range
- Laser-powered optical system
- Large 4½ digit LCD display
- For 1 to 12 cylinders and 2 or 4 cycle engines
- Memory recall functions (minimum & maximum)
- Comes with hard shell carrying case
I8-9900
DIGITAL COMPRESSION TESTER
For testing compression on gasoline powered engines.
• Stores max compression value for up to 12 cylinders
• Backlit LCD Display
• Auto Shutoff
• Sealed and Vibration protected
• Displays values in PSI, Bar, and kPa
• Fits many outboard, inboard, PWC, ATV, recreational gasoline engines

I8-4442
ENGINE ALIGNMENT TOOL
Replaces: Mercury Marine 91-57797A3, 91-57797A2, 91-57797AI, 91-8M0067546, 91-805475AI, 91-48347, 91-37384
Used to verify engine alignment on all Mercruiser, OMC Cobra, SX Cobra, and Volvo SX Sterndrives.

OIL FILTER WRENCHES
Sierra Oil Filter Wrenches are used to replace screw-on type canister oil filters and fuel filters on a variety of outboard engines. This formed metal tool has a pivoting handle and tempered metal band for superior strength and durability.

<table>
<thead>
<tr>
<th>Part No.</th>
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<tr>
<td>I8-9778</td>
<td>Size: 2-7/16” thru 3”</td>
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<td>I8-9789</td>
<td>Size: 2-9/16” thru 3-1/4”</td>
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<tr>
<td>I8-9790</td>
<td>Size: 3-5/16” thru 3-3/4”</td>
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**18-95560**
**ENGINE OIL PRIMER**
- Used to prime the engine oil pump after replacement

**18-79834**
**LIFTING EYE TOOL**
For: Lifting Johnson/Evinrude V4 & V6 engines

**18-9897**
**VERADO FLYWHEEL PULLER/ LIFTING EYE**
Replaces: Mercury 91-895343T02, 91-895343T01, 91-895343A02
Fits: All Verado engines as a lifting eye and flywheel puller

**18-79833**
**FLYWHEEL PULLER TOOL**
Replaces: Mercury 849154T1
- Removes flywheel from many Mercury Outboard engines

**18-9896**
**LIFTING EYE TOOL**
Replaces: Mercury 91-904551, 91-90455T1, 91-90455T, 91-878232, 91-75132, 91-47448A1
For: Lifting many Mercury Outboard Engines

**18-79817**
**UNIVERSAL ENGINE PULLER**
- Mounts to 2 and 4 bbl manifolds to lift engine
18-9798
2-STROKE OIL MIXING BOTTLE
32 FL. OZ re-usable bottle for precise measuring of oil to fuel ratio for your engine

18-9884
BOWL WRENCH
Replaces: Racor RK22628
• For all metal and Aqua-Vue™ collection bowls
• Corrosion and impact resistant

18-8600
E-GO! FUEL INJECTION CLEANING KIT
For: Mercury, Honda, Yamaha
• Cleans away layers of fuel deposits when the engine is running
• Helps maintain the injector’s cleanliness and performance throughout the life of your engine
• For best results, use 18-8606 E-GO! Blast Fuel Injector Cleaner
Contains:
Cleaning System Container, Hose, Small Fitting, Large Fitting, Carrying Case

18-79814
FUEL FILTER TOOL
Replaces: Yamaha YB-ACC04
For: Yamaha F150-F350, 2.6L & 3.3LHPDI (2006 & Up)

18-79815
FUEL FILTER TOOL
Replaces: Yamaha YB-ACC04
For: Yamaha F150-F350, 2.6L & 3.3LHPDI (2006 & Up)

18-9780
FLEXFILL SPOUT
• For easy pouring from quart bottles

2-Stroke Oil Mixing Bottle
32 FL. OZ re-usable bottle for precise measuring of oil to fuel ratio for your engine
**18-79816**
**FUEL TESTER**
Replaces: Mercury 91-879172T28
For: Tests quality of fuel by measuring alcohol content.

**18-79816-24**
**FUEL TESTER DISPLAY PACK**
Contains 24 of the 18-79816 fuel tester.

**GREASE GUNS**

**18-9782**
**GREASE GUN**
Replaces: Mercury 91-74057Q6
- 14 OZ. capacity
- Heavy duty steel construction for dependable, long service life

**18-9785**
**EASY LUBER**
Replaces: Mercury 91-30500
- Ideal for quick, easy lube jobs using squeeze tubes
- Compact, perfect for under seat/tackle box storage
- Use with all 10 oz. grease tubes

**18-9783**
**GREASE GUN**
Replaces: Mercury 91-74057Q6
- 3 OZ. capacity
- Heavy duty steel construction for dependable, long service life
- Display packaged

**18-9804**
**GREASE GUN**
- Designed for hand operated or pneumatic grease guns
- Ideal for hard to reach grease fittings
- 12 inch length (304.8mm)
- Heavy duty with flex hose
**Hose Tools**

18-79823
**Stepless Clamp 90 Degree Tool**
Fits: Crimp type stepless clamps

18-9898
**Hose Pinch-Off Pliers**
- Use to pinch off rubber hoses up to 1 1/2” OD

18-9141
**Oetiker Jaw Pincers**
Replaces: Johnson/Evinrude 787145, Yamaha YB-6AW04-4
Fits: Crimp type clamps

**Ignition Tools**

18-8960
**Ignition Spark Tester**
- Checks for ignition spark in up to 4 ignition wires at a time
- Adjustable spark gap
- Easy clip on ground wire

18-9802
**Timing Light**
Replaces: Mercury Marine 91-99379
- Self-powered accurate up to 10,000 RPM’s
- Checks ignition timing
- Powered by two “D” cell batteries
- Portable
**18-9903**

**ENGINE IGNITION ANALYZER**

A handheld instrument designed from the ground up for the diagnosis and performance measurement of all types of spark ignition systems.

- Displays everything on a 3.5" color screen
- Rechargeable battery provides 6+ hours of use
- Durable design (MIL-STD-810) drop test approved
- Comes with hard shell carrying case
- Includes 18-9914 Plug Wire Sensor Clip and Extension Lead

**18-9914**

**PLUG WIRE SENSOR CLIP EXTENSION**

Extension Lead with Plug wire sensor clip for 18-9903
- For use with 18-9903 Engine Ignition Analyzer
- 2 m (78") long shielded cable with BNC connector
- Sensor accepts wires of up to 9 mm (3/8") diameter
- Cable can also be used with coil on plug sensor supplied with the 18-9903

**I8-9847**

**BELLOWS EXPANDER TOOL**

Replaces: Mercury Marine 91-45497A1
- Installs exhaust bellows on MC-I, R-MR, Alpha One, Bravo One and Two and Blackhawk drive units
**Bearing Carrier Puller Tool**

18-79813

For: Mercruiser, Mercury and Yamaha

- Removes bearing carrier assembly from Yamaha 90-115HP Outboards

**Bearing Carrier Retainer Tool**

18-9809

Replaces: Mercury Marine 91-17257

Description: Loosens and tightens bearing carrier retainer on Bravo Two drives.

**Bearing Carrier Puller Tool**

18-9870

SLEEVE INSTALLATION TOOL

Replaces: Mercury Marine 91-818162

- Installs the aluminum sleeve into the u-joint bellows on Bravo, Alpha, and Blackhawk Drives

**Bearing Carrier Retainer Wrench**

18-9858

Bearing Carrier Retainer Tool

Replaces: Mercury Marine 91-818169T

- Removes the aluminum sleeve from the u-joint bellows of all Bravo, Alpha One/Gen II and Blackhawk drive units

**Bearing Carrier Removal Tool**

18-9871

SLEEVE REMOVAL TOOL

Replaces: Mercury Marine 91-818169T

- Removes the aluminum sleeve from the u-joint bellows of all Bravo, Alpha One/Gen II and Blackhawk drive units

**Fluid Dispenser**

18-52205

Easily dispenses fluids for any application.

- Large 1.2 gallon capacity
- Sealed internal pump components
- Flow control valve equipped
- Quick connect fittings
- 20PSI Max Pressure
- Includes pressure gauge
- Integrated pressure relief valve
**I8-52204**

**OIL EXTRACTOR**

For quick, easy & clean oil changes.
- Not only can this extract fluids, but it is capable of dispensing too
- Bi-directional valve can be moved to either create a vacuum or dispensary
- Built-in shut-off valve to prevent overfilling
- Comes complete with 5 feet of flexible hose and two rigid dipstick tubes.
- Size: Large 2.3 Gallon (8.8L) Capacity

**I8-52104**

**OIL EXTRACTOR**

For quick, easy & clean oil changes.
- Can be used to remove a wide range of fluids, such as engine oil, brake fluid, antifreeze, and more
- Built-in shut-off valve to prevent overfilling
- Can be used away from the air source by creating a vacuum, closing off both shut-off valves
- Comes complete with 5 feet of flexible hose, 2 rigid dipstick tubes, and a brake bleeding kit
- Size: 2.3 Gallon (8.8L) capacity air operated extractor

**I8-52206**

**FLUID DISPENSER/EXTRACTOR**

For removing/dispensing fluid in difficult to reach areas.
- No-drip cap
- 7 oz. capacity
- 7 1/2" flexible tube

**I8-52207**

**TUBE KIT**

Replacement tubes for oil extractors I8-52204 and I8-52104.
**I8-9781**

**OIL PUMP**

- Replaces: Mercury 91-850730Q01, 91-8M0072133
- Ideal for “do-it-yourself” owners
- Quart size application is perfect for most marine drives
- Includes lube fitting for domestic lower units with flexible fill line

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**I8-9784**

**OIL PUMP**

Fits: 16 thru 55 gallon drums

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**I8-9788**

**LUBE PUMP**

For filling lower units on outboards and stern drives.
- Tapered/unthreaded hose end
- Size: 5 Gallon (18.95L)

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**I8-81006**

**GREASE FILLER ADAPTER**

Fits: OMC and Volvo dual prop gearcases

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**I8-9786 (STANDARD)**

**I8-9787 (IMPORT)**

- Flush & fill tool for small gearcases requiring the 10 ounce tube package
- Ideal for “do-it-yourself” in home maintenance
- I8-9786 fits Mercury, I8-9787 fits most import outboards

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**I8-9794**

**GEAR LUBE ADAPTER**

- Replaces: Mercury 91-883704Q03
- For: Nissan, Yamaha, Honda, Tohatsu
- For use with Sierra quart pumps or lower unit fill tubes
- Metric 8-1.25 thread

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**I8-9795**

**GEAR LUBE ADAPTER**

- For: Suzuki lower units.
- For use with Sierra quart pumps or lower unit fill tubes
- Metric 10-1.25 thread
**18-8997**
**DUAL FEED FLUSH - ROUND CUPS**
Universal
- Fits most engines up to 115 H.P.

**18-8998-1**
**ENGINE FLUSHER (RECTANGULAR CUPS)**
Universal
- Fits most engines 120 H.P. and UP

**18-8999**
**DUAL FEED FLUSH (RECTANGULAR CUPS)**
- Fits most engines 120 H.P. and UP

**18-9010**
**MOTOR FLUSHER (HEAVY DUTY)**
- High quality EPDM rubber cups
- Corrosion resistant dichromate finish
- Installs in seconds
- Use with a standard garden hose
- Hose connector complete with rubber washer
- No tools required

**18-9009**
**INBOARD FLUSHER**
Universal
- Fits most inboard engines

**18-9850**
**BACKLASH INDICATOR**
Replaces: Mercury Marine 91-53459
- Checks gear backlash on TR, TRS, MC-I, R-MR, Alpha One, Alpha One/Gen II and Bravo One and Two drive units

**18-9866**
**DIAL INDICATOR HOLDING TOOL**
Replaces: Mercury Marine 91-89897
- Secures dial indicator to gear housing when checking backlash on TR, TRS, MC-I, R-MR, and Alpha One Stern drive units and Outboards

**DUAL WATER PICKUP SEAL**
Replaces: Mercury/Evinrude 881150K1
- Fits Mercury and E-tec engines
- Blocks off the front water inlet holes on the dual water inlet gearcases
GIMBAL PULLER TOOL
18-79820-1
For: Mercruiser, OMC and Volvo.
Sometimes the gimbal bearing can be a real pain to remove. This tool is designed to get the toughest gimbal bearing out of Mercruiser, OMC, and Volvo Penta sterndrives.

GIMBAL BEARING INSTALLER TOOL
18-79825
For: Mercruiser, OMC and Volvo Penta SX sterndrives
• Use with 18-4442 Alignment tool

HINGE PIN TOOL
18-9861
Replaces: Mercury Marine 91-78310
• Removes and installs hinge pins from all Mercury Marine drive units

PULLER
18-9840
Replaces: Mercury Marine 91-38919
• Removes swivel pins from R-MR and Alpha One gimbal rings

U-JOINT ADAPTER
18-9838
For: Mercury 91-38756
• Supports yoke when disassembling u-joint on all drive units EXCEPT Bravo II and Bravo III

DRIVE SHAFT SHIMMING TOOL
18-9841
For: Mercury 91-42840T
• Shims pinion gear on Bravo One drives

DRIVE SHAFT RETAINER WRENCH
18-9842
Replaces: Mercury Marine 91-43506T
• Removes and installs threaded bearing retainer under the water pump housing on Mercruiser sterndrives and Mercury Mariner outboards
**18-9857 PINION NUT ADAPTER**
Replaces: Mercury Marine 91-61067A3
- Holds pinion nut when removing pinion gear and drive shaft on MC-I, R-MR, and Alpha One Stern drive units and Outboards

**18-9865 DRIVE SHAFT BEARING TOOL**
Replaces: Mercury Marine 91-90774
- Presses bearing cone onto Alpha One/Gen II drive shaft housing pinion gear

**18-9874 DRIVE SHAFT PRELOAD TOOL**
Replaces: Mercury Marine 91-14311A2, 91-44307A1, 91-14311A04, 91-14311A1
- Preloads drive shaft bearing when checking pinion height and backlash
- Compatible Drive Units and Outboards: MC-I, R-MR, Alpha One, Alpha One/Gen II

**18-9875 PULLER ASSEMBLY**
Replaces: Mercury Marine 91-90244A1
- Removes and installs drive shaft housing bearings and sleeves on all Bravo drive units

**18-9854 DRIVE SHAFT ADAPTER**
For: Mercury 91-56775T
- Provides a wrench surface to turn the drive shaft on Mercruiser MC-I, R-MR, Alpha drive units and many outboard engines with a 13 spline drive shaft

**18-9868 DRIVE SHAFT ADAPTER**
Replaces: Mercury Marine 91-61077
- Provides a wrench surface to turn the drive shaft on Mercruiser MC-I, R-MR, Alpha, Bravo I, and TRS drive units

**18-9843 CLAMP PLATE**
For: Mercury 91-43559
- Installs onto the gear housing while separated from the drive shaft housing and holds a preload while checking the gear backlash and bearing preload on Bravo I and Bravo II Drives

**18-9872 PUMP ALIGNMENT TOOL**
For: Mercury 91-821571A1
- Aligns Alpha One/Gen II water pump during installation
**SHIFT SHAFT BUSHING TOOL**

Replaces: Mercury Marine 91-31107T, 91-31107, 91-24150, 91-23033T, 91-23033

• Removes and installs the shift shaft bushing in the gear case of drive units and outboards on MC-I, R-MR, and Alpha One drives

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**BEARING & SEAL INSTALLATION TOOL**

For: Mercury 91-17275A1

• Installs the shift shaft bushings and oil seal on all Bravo and Blackhawk drives

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**SAFETY WIRE TWIST PLIERS**

• Includes cutter, wire twister, and heavy-duty pair of pliers

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**SHIFT CABLE ADJUSTMENT TOOL**

For: Mercury 91-12427, 91-12427T

• Used for proper Bravo drive unit shift cable adjustment at the shift plate

---

**BEARING & SEAL INSTALLATION TOOL**

For: Mercury 91-17275A1

• Installs the shift shaft bushings and oil seal on all Bravo and Blackhawk drives

---

**INTERMEDIATE SHIFT CABLE SNAKE**

For: Mercury 91-821571A1

• Use to easily remove and install intermediate shift cables in Mercruiser drives

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**SHIFT CABLE TOOL**

For: Mercury 91-12037

• Installs and removes shift cables on MC-I, R-MR, Alpha One, Alpha One/Gen II drive units

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**SHIFT CABLE ANCHOR ADJUSTMENT TOOL**

For: Mercury 91-17262A1

• Used to install shift cable core wire on all Bravo drive units
### Additional Drivers

<table>
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<tr>
<th>Part No.</th>
<th>Mercury Part No.</th>
<th>Description</th>
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<tr>
<td>1</td>
<td>18-9818</td>
<td>91-31008T, 91-31008</td>
<td>Oil Seal Driver</td>
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<td>18-9862</td>
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<td>91-33489</td>
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<td>91-33491</td>
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<td>18-9826</td>
<td>91-33493, 91-33493T</td>
<td>Bearing Cup Driver</td>
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<td>18-9831</td>
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<td>91-34379T</td>
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<td>91-43599T</td>
<td>Seal Driver</td>
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<td>18-9851</td>
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<td>91-4410</td>
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<td>91-63638T</td>
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**PROP WRENCH**

**18-4444**

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**PROP WRENCH**

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<tr>
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<td>Seal Driver</td>
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<td>5</td>
<td>18-9825</td>
<td>Driver Head</td>
</tr>
<tr>
<td>6</td>
<td>18-9827</td>
<td>Bearing Cup Driver</td>
</tr>
<tr>
<td>7</td>
<td>18-9846</td>
<td>Seal Driver</td>
</tr>
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<td>8</td>
<td>18-9818</td>
<td>Oil Seal Driver</td>
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**SPANNER NUT WRENCH**

**18-9803**

<table>
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<td>3</td>
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<td>18-9846</td>
<td>Seal Driver</td>
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<td>9</td>
<td>18-9860</td>
<td>Bearing Driver</td>
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</table>
**18-9820 BEARING INSTALLATION TOOL KIT**
Replaces: Mercury Marine 91-31229A7
Removes and installs bearings in MC-I, R-MR, Alpha One, Alpha One Gen II and all Bravo gear cases.

**CONTAINS:**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>O.E. No.</th>
<th>Description</th>
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<tr>
<td>1</td>
<td>18-9815</td>
<td>Puller Nut</td>
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<tr>
<td>2</td>
<td>18-9816</td>
<td>Puller Washer</td>
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<td>3</td>
<td>18-9817</td>
<td>Puller Plate</td>
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<td>Puller Shaft</td>
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<tr>
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<td>Driver Head</td>
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**18-9853 PINION GEAR SHIMMING TOOL**
Replaces: Mercury 91-56048T, 91-56048001
• Measures the pinion height of MC-I, R-MR, and Alpha Drives

**18-9855 DRIVEN GEAR SHIMMING TOOL**
Replaces: Mercury 91-60523
• Measures the drive gear clearance on MC-I, R-MR, and Alpha drives

**18-9856 DRIVEN GEAR SHIMMING TOOL**
Replaces: Mercury 91-60526T
• Measures the driven gear clearance on MC-I, R-MR, and Alpha drives

**OMC SHIMMING TOOLS**

<table>
<thead>
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<th>Part No.</th>
<th>OMC Part No.</th>
<th>Description</th>
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<table>
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<tr>
<td>10</td>
<td>18-9892</td>
<td>Collar</td>
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</tbody>
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HA5445-2
SEASTAR POWER PURGE JR
The EASY way to 100% purge air out of BayStar and SeaStar hydraulic steering systems. The Power Purge Jr. reduces installation and warranty costs while enhancing the quality of the boat to the end user. A typical manual fill and purge takes the average experienced installer or service technician about 30 minutes per boat — by using the Power Purge Jr. this can be reduced to 10 minutes or less.

Features:
• Steering feel is solid every time
• 100% portable
• Powered by 12v battery
• Fast and efficient set up
• Quick connect fittings
• Easy to operate
• Filter screens help keep contamination out of your steering system
• Complete Fill & Purge in 10 minutes or less
• Optional Dual Cylinder Purging Kit HA5461 available

HA5456
SEASTAR POWER STEERING PURGE KIT
25' hose to connect steering cylinder to reservoir for bleeding.
• Makes bleeding even easier than before.

HA5457
SEASTAR POWER STEERING PURGE KIT
Central bleeding location — no need to run hoses to reservoir.
• Makes bleeding even easier than before.
HA5466
ROUND DRILL JIG
Drill jig for drilling mounting holes for standard SeaStar and SeaStar Pro helms. A three inch dashboard hole is required. Use with HA5465.

HA5467
ROUND DRILL JIG
Drill jig for drilling mounting holes for standard SeaStar and SeaStar Pro helms where dashboard has a 3-1/4 inch hole from a previously mounted mechanical helm.

HA5468
SQUARE DRILL JIG
Drill jig for drilling mounting holes for standard SeaStar and SeaStar Pro Classic Tilt helms (HH6541-3, HH6542-3, HH6543-3). Also back Mount (HA5418). A 4-1/2 inch dashboard hole is required.