

2007 BUELL LIGHTNING MODELS

SERVICE MANUAL

Part Number 99490-07Y

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[Section 3: Engine](#)

[Section 4: Fuel System](#)

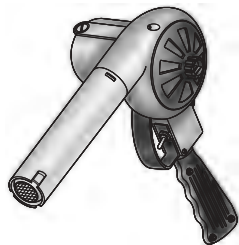
[Section 5: Starter](#)

[Section 6: Drive/Transmission](#)

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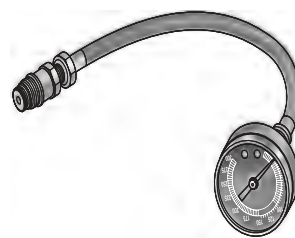
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HD-25070



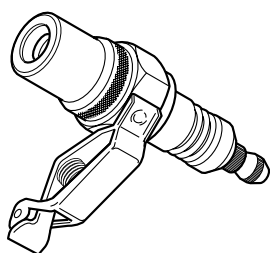
**Part No. HD-25070 Robinair Heat Gun
(Use with HD-41183)**

h33223



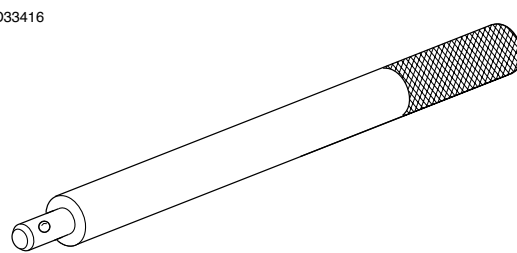
Part No. HD-33223-1 Cylinder Compression Gauges

HD-26792



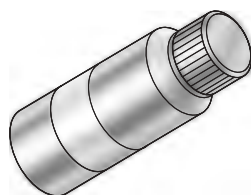
Part No. HD-26792 Spark Tester

HD33416



Part No. HD-33416 Universal Driver Handle

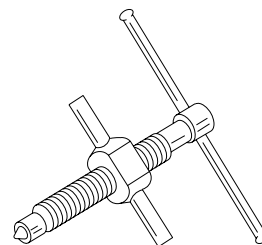
HD-28431B



**HD-28431-6 Fluorescent Additive 6 1-oz. bottles
HD-28431-22 Fluorescent Additive 1 22-oz. container**

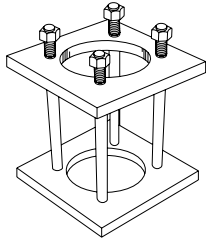
**Part No. HD-28431-B Black Light Fluorescent Additive
(Use with HD-)**

h33418



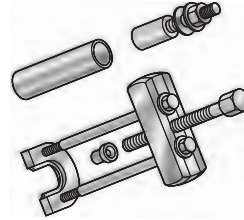
Part No. HD-33418 Universal Puller Forcing Screw

h33446



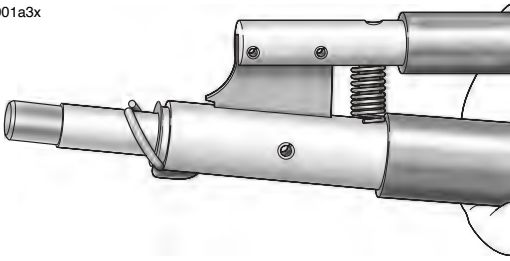
**Part No. HD-33446A Cylinder Torque Plates
and Torque Plate Bolts Part No. HD-33446-86**

h34902b



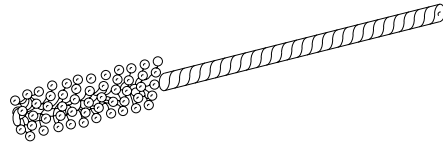
**Part No. HD-34902-B Mainshaft Primary Bearing Race
Remover And Installer**

b1001a3x



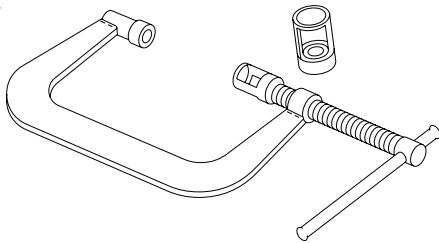
**Part No. HD-34623C Piston Pin
Retaining Ring Installer/Remover**

h35102



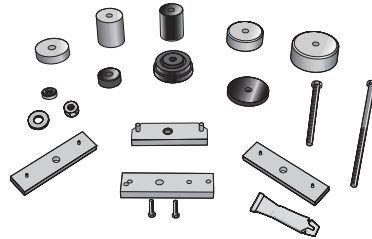
Part No. HD-35102 Wrist Pin Bushing Hone (20 mm)

h34726B



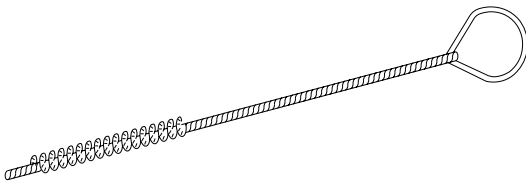
Part No. HD34736-B Valve Spring Compressor

HD-35316C



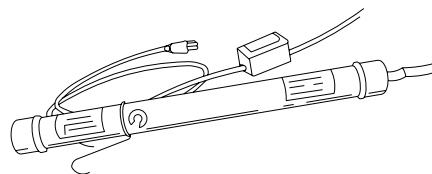
**Part No. HD-35316-C Main Drive Gear Remover/Installer
and Main Drive Gear Bearing Installer**

h34751

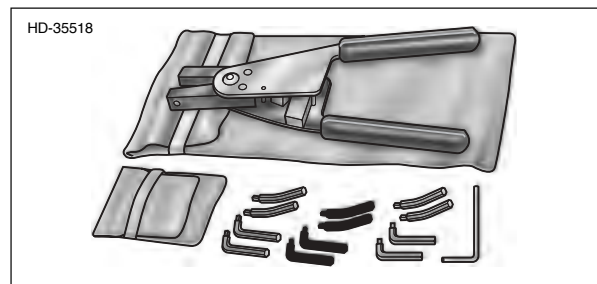


Part No. HD-34751 Nylon Valve Guide Brush

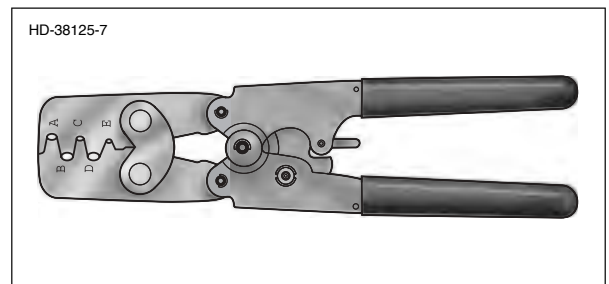
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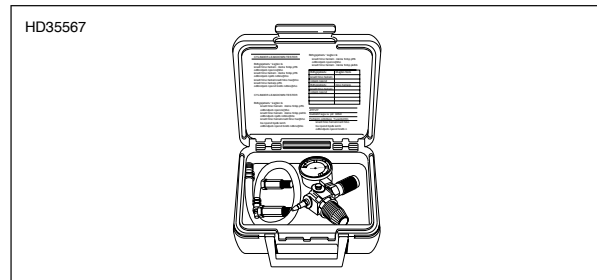
**Part No. HD-35457 Black
Light Leak Detector**



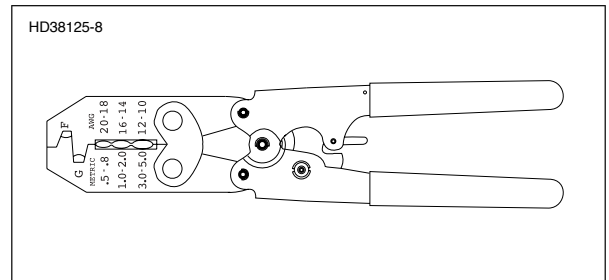
Part No. HD-35518 Internal/External Retaining Ring Pliers



Part No. HD-38125-7 Packard Terminal Crimp Tool (Nonsealed)



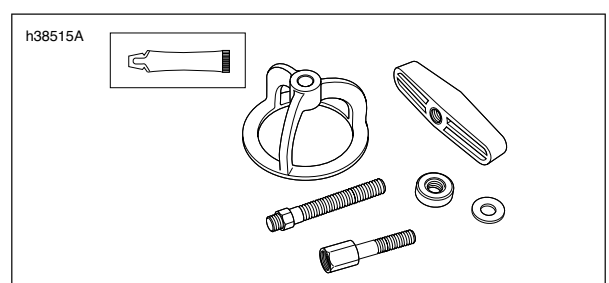
Part No. HD-35667A Cylinder Leakdown Tester



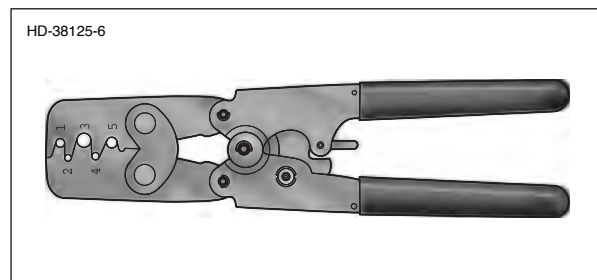
Part No. HD-38125-8 Packard Terminal Crimp Tool



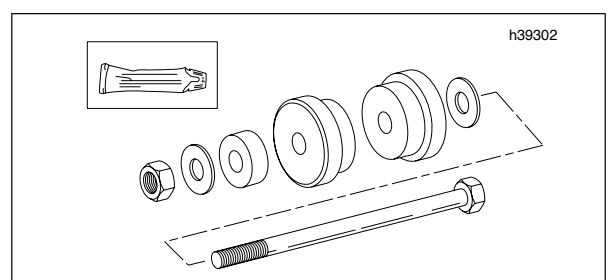
Part No. HD-35758-B Neway Valve Seat Cutter Set



Part No. HD-38515-A Clutch Spring Compressor



Part No. HD-38125-6 Packard Terminal Crimp Tool (Sealed)



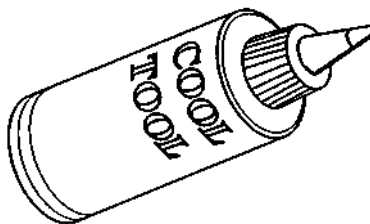
Part No. HD-39302 Steering Head Bearing Race Installer (Used with B-45521)

HD-39565



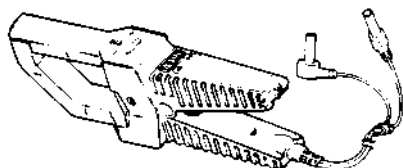
Part No. HD-39565 Engine Sound Probe

HD39964



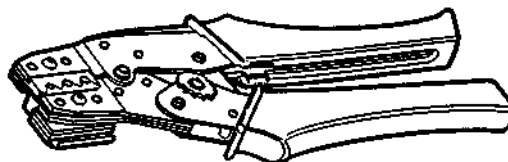
Part No. HD-39964 Reamer Lubricant (Cool Tool)

HD39617



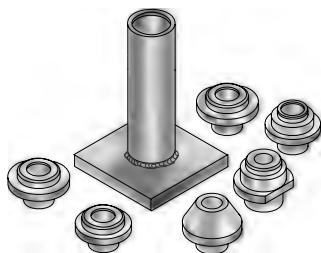
Part No. HD-39617 Fluke AC/DC Current Problem

HD39965



Part No. HD-39965 Deutsch Terminal Crimp Tool

h39782



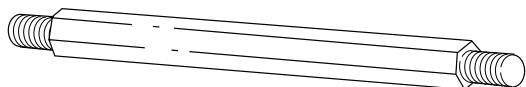
Part No. HD-39782-A Cylinder Head Support Stand

HD-39969



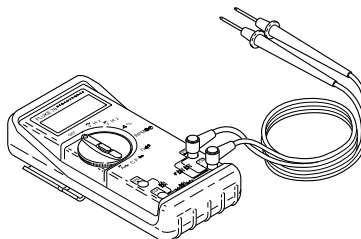
Part No. HD-39969 Ultra-Torch UT-100

h39786



Part No. HD-39786 Cylinder Head Holding Fixture

HD39978



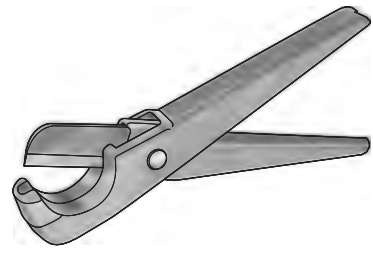
Part No. HD-39978 Fluke 78 Multimeter (DVOM)F

HD-41025-A



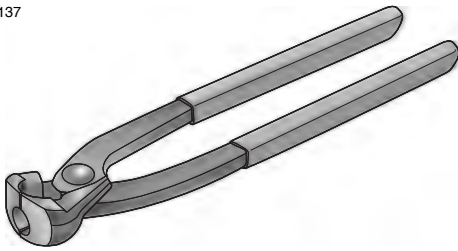
Part No. HD-41025-A Tool Board System

HD-41185



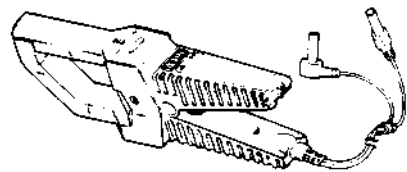
Part No. HD-41185 Hose Cutting Tool

HD-41137



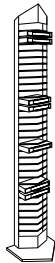
Part No. HD-41137 Two-Way Hose Clamp Pliers

HD39617



Part No. HD-41334 RPM Inductive Pickup

HD41155-2



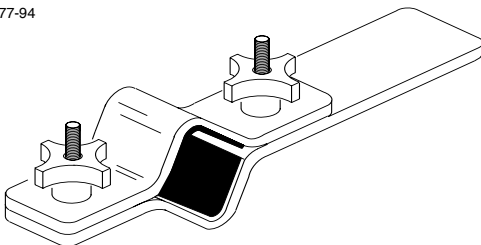
Part No. HD-41155 VHS Tape Storage Rack

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Part No. HD-41354 Speedometer Tester

b41177-94



Part No. HD-41177 Fork Tube Holder

HD41404



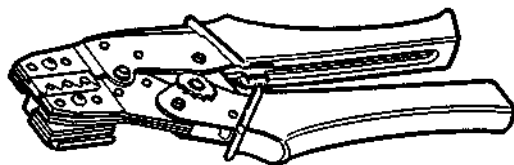
Part No. HD-41404 Harness Connector Test Kit

HD-41417



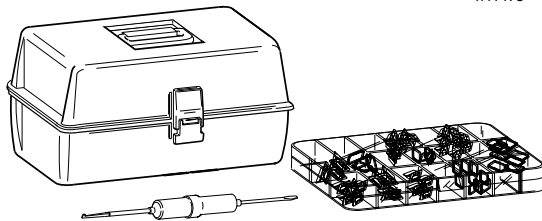
Part No. HD-41417 Propane Enrichment Kit

HD39965



Part No. HD-41609 Amp Terminal Crimp Tool

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Part No. HD-41475 Deutsch Terminal Repair Kit

B41623



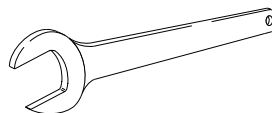
Part No. B-41623-B Oil Line Remover

h41475-100



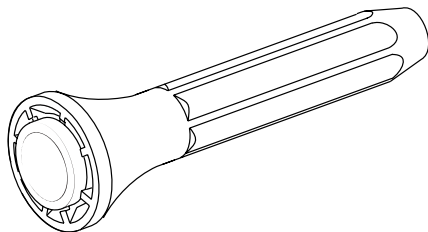
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HD41675



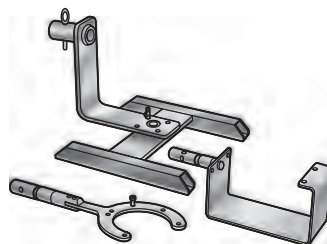
Part No. HD-41675 Oil Pressure Sending Unit Wrench

HD41496



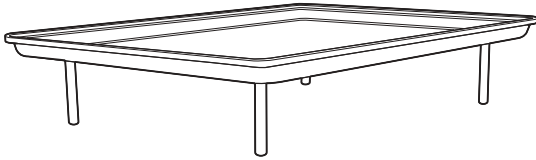
Part No. HD-41496 Main Drive Gear Seal Installer

h42310a



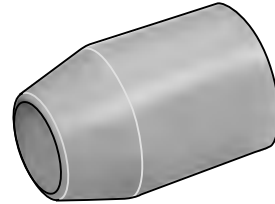
Part No. HD-42310 Engine Transmission Stand

h42310-150a



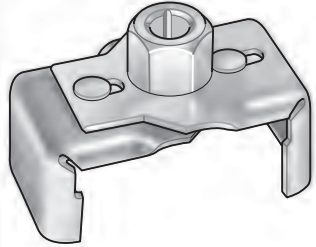
Part No. HD-42310-150 Engine Stand Drip Tray

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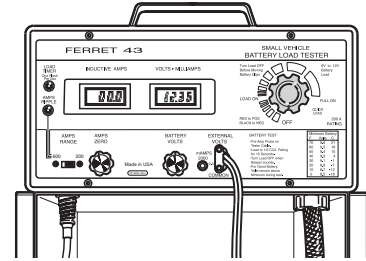
Part No. HD-42326-A Crankshaft Guide

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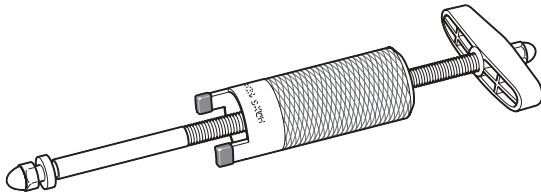
Part No. HD-42311 Oil Filter Wrench

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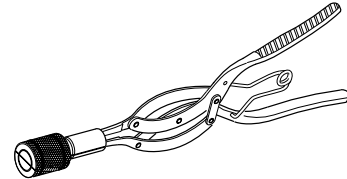
Part No. HD-42376 Battery Load Tester

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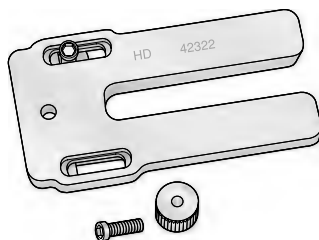
Part No. HD-42320-A Piston Pin Extractor

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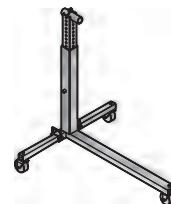
Part No. B-42887 Brake Caliper Piston Remover

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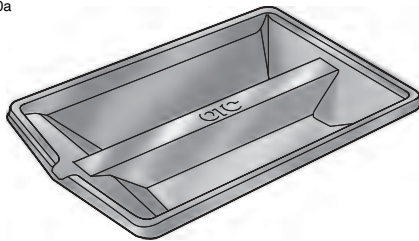
Part No. HD-42322 Piston Support Plate

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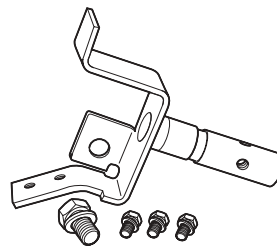
Part No HD-43646-A Rolling Engine Stand

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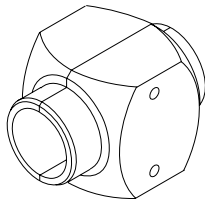
Part No. HD-43646-10 Oil Drip Tray

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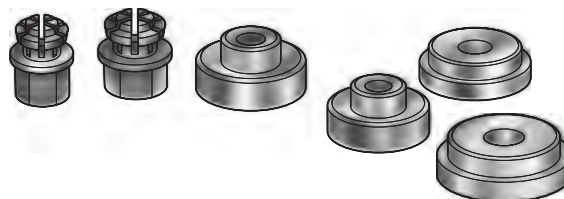
Part No. B-43987 Engine Cradle

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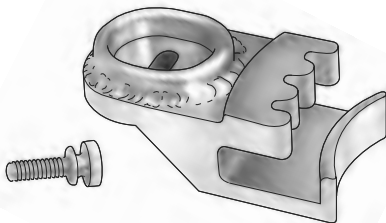
Part No. B-43721 Front Fork Seal Driver

B-43993a



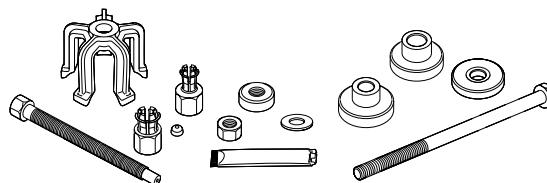
Part No. B-43993 Wheel Bearing Collets

b-43982



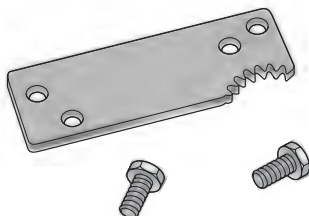
Part No. B43982 Transmission Locking Tool

hd44060



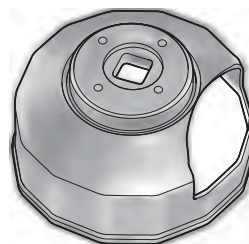
Part No. HD-44060 Wheel Bearing Remover/Installer

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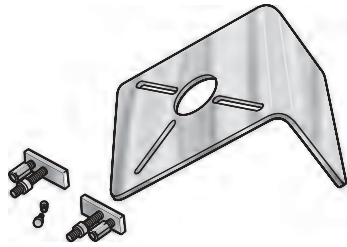
Part No. HD-43984 Crankshaft Locking Tool

hd44067b



Part No. HD-44067-A Oil Filter Wrench

h44358bc



Part No. HD--44358 Flywheel Support Fixture

HD-44750



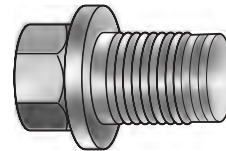
Part No. HD-44750-P29 Panasonic Toughbook (touch screen) and HD-44750-P50 Panasonic Toughbook (non-touch screen)

h44567



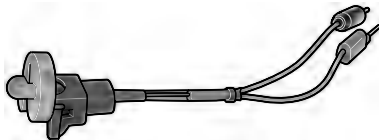
Part No. HD-44567 7" Universal Driver Handle

b45520



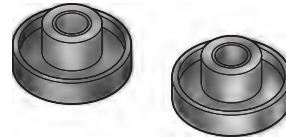
Part No. B-45520 Gear Detente Assembly Aid

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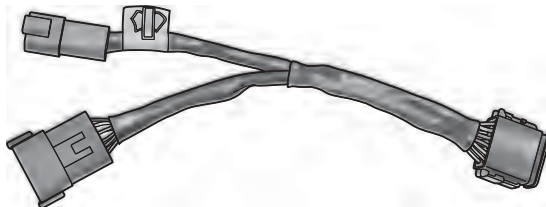
Part No HD-44687 Ignition Coil Test Adapter

b45521



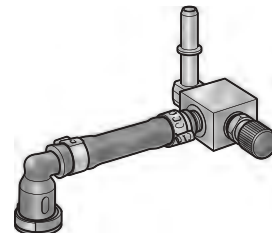
Part No. B-45521 Steering Head Bearing Remover/Installer

HD44720a



Part No. HD-44720 TSSM Adapter Cable

B-45522a



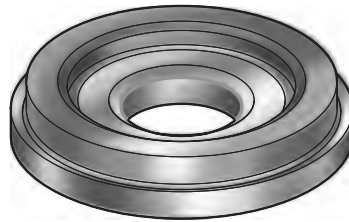
Part No. B-45522 Fuel Pressure Gauge Adapter

B-45523



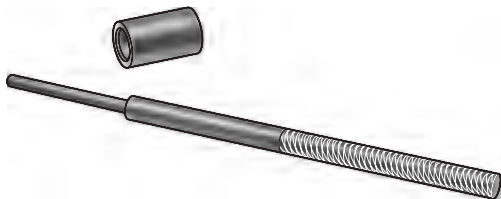
Part No. B-45523 Valve Guide Reamer (7mm)

B-45676

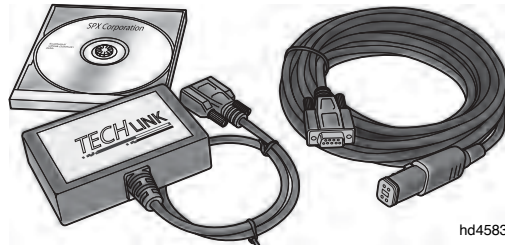


Part No. B-45676 Sprocket Shaft Seal Installer

B-45524

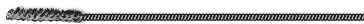


Part No. B-45524 Valve Guide Installer



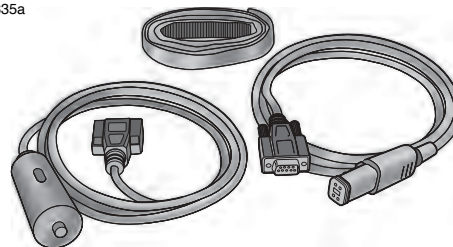
Part No. HD-45830 Techlink Kit

B-45525



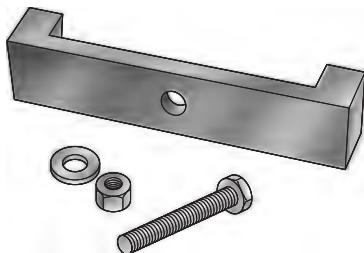
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HD45835a



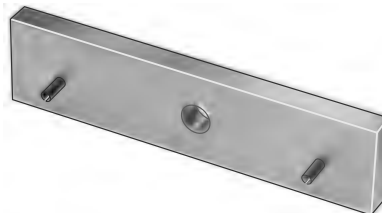
Part No. HD-45835 Road Test Kit

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Part No. B-45657 Fuel Pump Puller

B43983



Part No. B-45847 Cross Plate

h45907



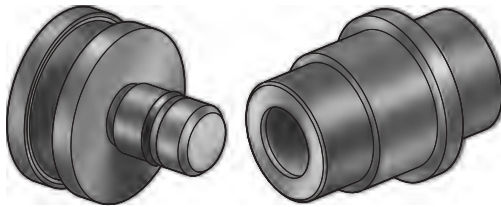
Part No. HD-45907 4" Universal Driver Handle

HD45996a



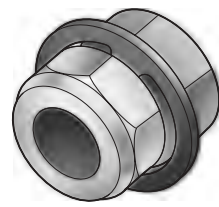
Part No. HD-45966 Front Fork Compressor

b45926



Part No. B-45926 Clutch Shell Bearing Remover

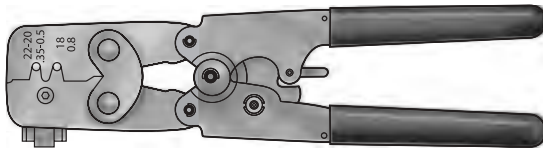
B-46279



Part No. B-46279 7/8" Axle Wrench (Hex)

“““

HD45928



Part No. HD-45928 Terminal Crimper

HD-46283



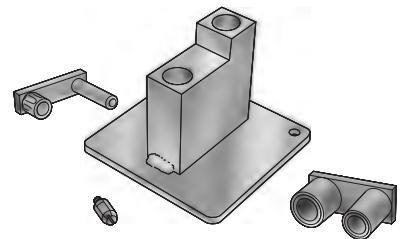
Part No. HD-46283 Primary Drive Locking Tool

HD4529



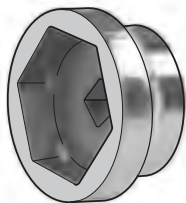
Part No. HD-45929 Terminal Remover

HD-46285



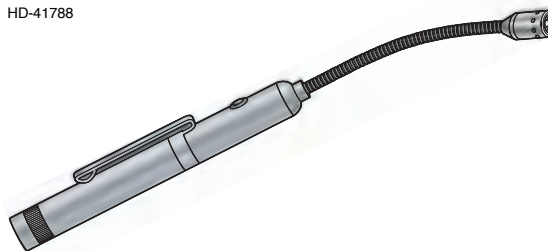
Part No. HD-46285 Transmission Assembly Fixture

HD-46288



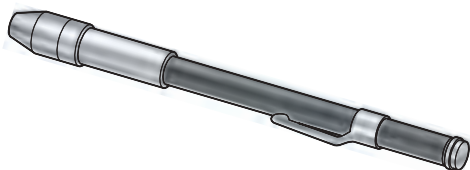
Part No. HD-46288 Mainshaft Locknut Wrench

HD-41788



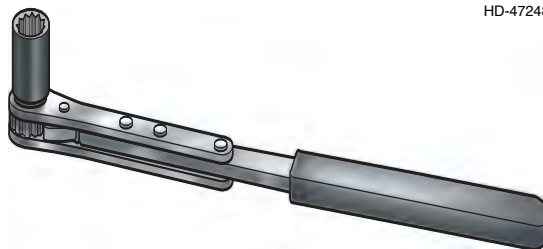
Part No. HD-41788 Technician Flex Light

HD-47183



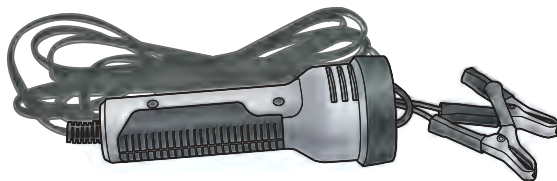
Part No. HD-47183 Leak Detector Penlight

HD-47248



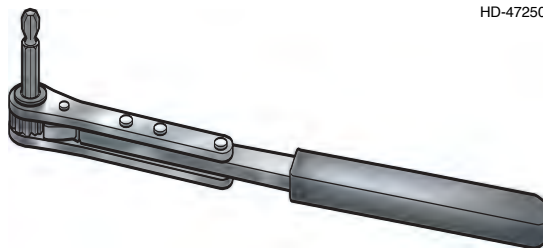
Part No. HD-47248 Rocker Housing Wrench

HD-47184



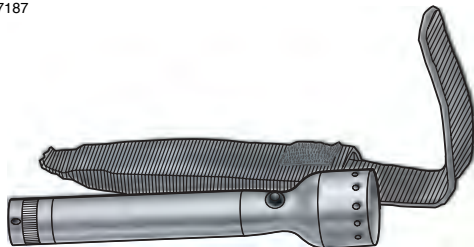
Part No. HD-47184 Leak Detector Flashlight

HD-47250



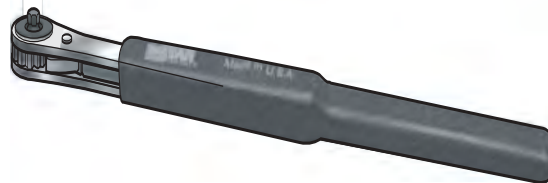
Part No. HD-47250 Intake Manifold Wrench

HD-47187



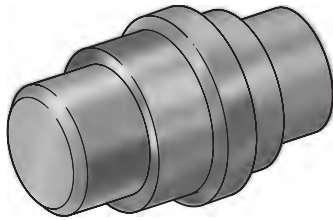
Part No. HD-47187 Technician Pen Light

HD-47258



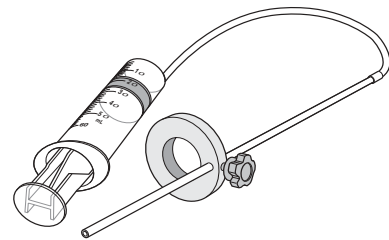
Part No. HD-47258 Rocker Cover Wrench

HD-47855



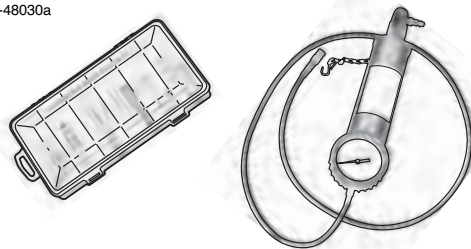
**Part No. HD-47855 Main Drive Gear
Needle Bearing Installer**

HD59000B



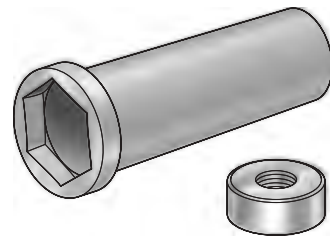
Part No. B-59000-B Oil Level Gauge

HD-48030a



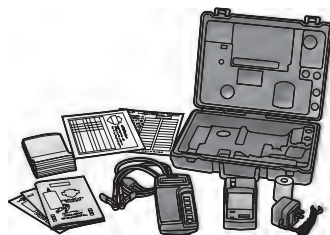
**Part No. HD-48030 Fuel Injector Fitting and Canister
Cleaner Kit**

HD-94660-37B



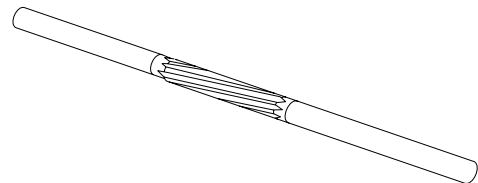
Part No. HD-94660-37B Mainshaft Locknut Wrench

HD-48053A



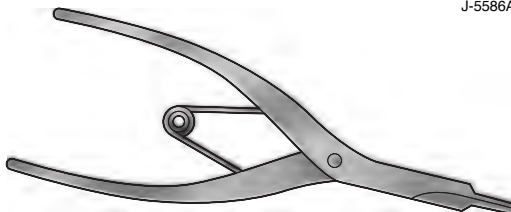
**Part No. HD-48053 Advanced Battery Conductance
and Electrical System Analyzer**

h94804-57



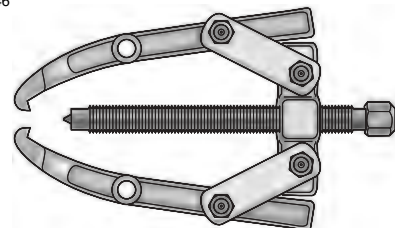
Part No. HD-94804-57 Rocker Arm Bushing Reamer

J-5586A



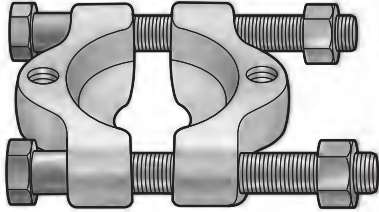
**Part No. J-5586 Transmission Shaft
Retaining Ring Pliers**

HD-95635-46



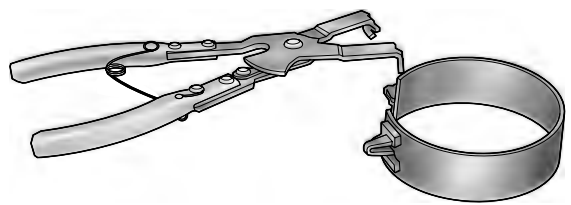
**Part No. HD-95635-46 All-Purpose Claw Puller
(use with HD-95637-46A)**

h95637-46A



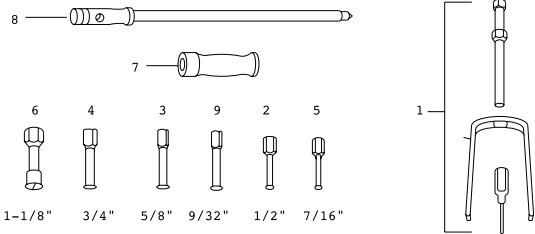
**Part No. HD-95637-46A Wedge Attachment of Claw Puller
(use with HD-95635-46)**

h96333-51C



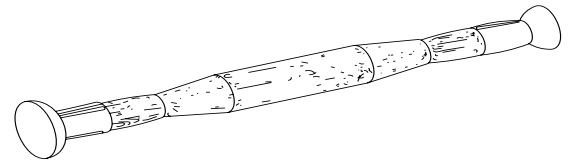
Part No. HD-96333-51E Piston Ring Compressing Tool

h95760-69B



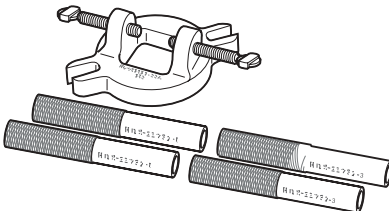
**Part No. HD-95760-69A Bushing/Bearing Puller Tool Set.
Set includes items 1-5 and 9. Items 6 (HD-95769-69), 7
(HD-95770-69) and 8 (HD-95771-69) are optional.**

h96550-36A



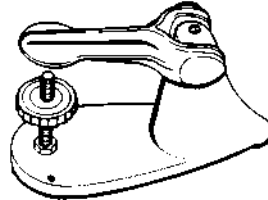
Part No. HD-96550-36B Valve Lapping Tool

h95952-33C



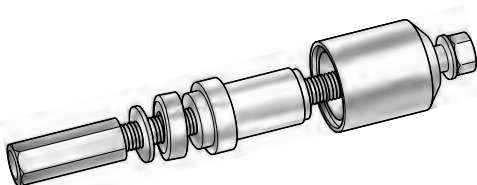
Part No. HD-95952-33C Connecting Rod Clamping Tool

96796-47



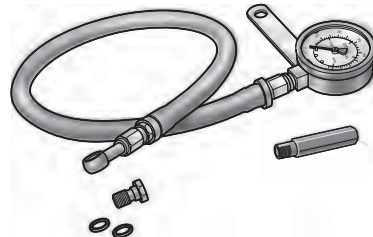
Part No. HD-96796 Valve Spring Test Fixture

h95920-32D



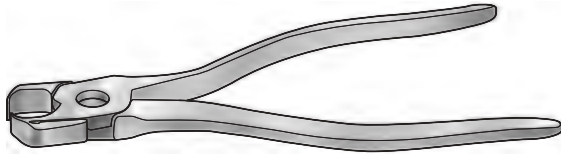
Part No. HD-95970-32D Piston Pin Bushing Tool

h96921-52C



Part No. HD-96921-52B

h97081a



Part No. HD97097-65B Hose Clamp Pliers

HD99500-80a



Part No. HD-99500-80 Wheel Truing & Balancing Stand