101 BEST HOMEMADE AUTOMOTIVE TOOLS






HomemadeTools.net

101 Best Homemade Automotive Tools from HomemadeTools.net

This ebook contains the 101 best homemade automotive tools from HomemadeTools.net.

Click on any homemade tool to see more photos, details, or videos of the homemade tool.

For the newest homemade automotive tools, click the link below:

Click here for the latest homemade automotive tools

Axle Stands

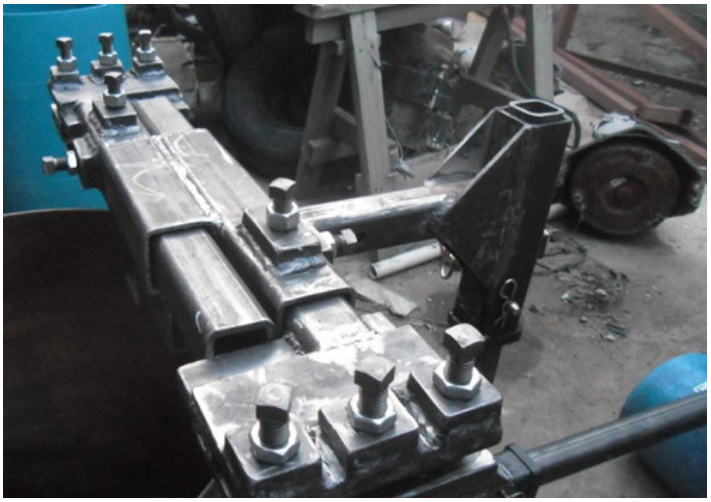
by: thehomeengineer

Homemade axle stands constructed from tubing and steel pins. Provides an extra measure of safety when lifting a vehicle.

Click here for more details on: Axle Stands

Bolt-on Receiver Hitch

by: Frank S



Homemade bolt-on receiver hitch constructed from steel plate, tubing, nuts, bolts, and a hitch ball.

Click here for more details on: Bolt-on Receiver Hitch

Vehicle Vise

by: naughtyboy

Homemade vehicle vise fabricated from steel and intended to facilitate impromptu repairs during off-road adventures.

Click here for more details on: Vehicle Vise

Engine Tilter

by: brianhw

Homemade engine tilter constructed from a surplus jack, hooks, and tubing.

Click here for more details on: Engine Tilter

Mini Dozer

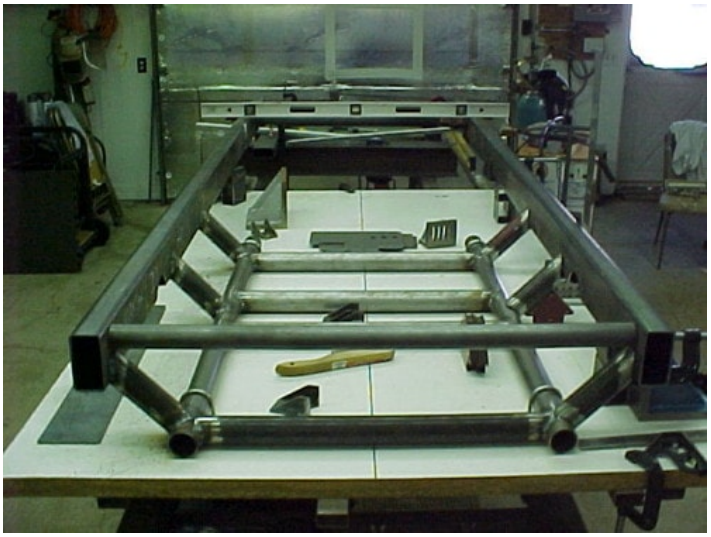
by: dozerbuilder01

Homemade mini dozer adapted from a zero turn mower. Bodywork was fabricated from steel and intended to replicate the appearance of a Caterpillar Model 22.

Click here for more details on: Mini Dozer

Chassis Jig Tables

by: astroracer



Homemade chassis jig tables featuring sliding H-beams to accommodate varying track widths. Mobility and leveling are each facilitated with both casters and jacking lugs, respectively, at each corner. One table incorporates a melamine top to enable layout marking directly on the washable surface.

Click here for more details on: Chassis Jig Tables

Air Bag Lift

by: Ed ke6bnl

Homemade lift consisting of two stacked air bags placed atop an automotive wheel dolly. A wooden block serves as a cushion between the upper bag and the vehicle's lifting point.

Click here for more details on: Air Bag Lift

Adjustable Stands

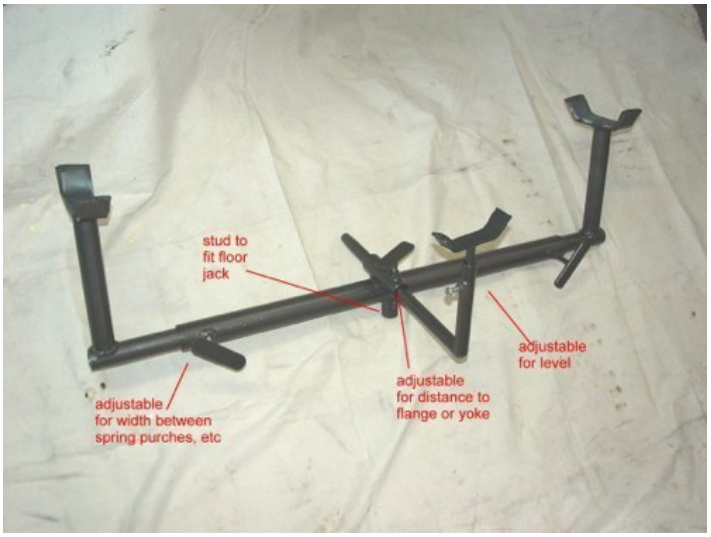
by: kess

Homemade adjustable stands constructed from bar stock, threaded rod, nuts, and tubing.

Click here for more details on: Adjustable Stands

Rearend Cradle

by: jniolon



Homemade floor jack adaptor cradle designed to facilitate the installation of a rearend. Fabricated from schedule 40 pipe. Cradle is adjustable side-to-side to allow for different spring saddles, and includes an adjustable arm that supports the nose.

Click here for more details on: Rearend Cradle

Free Standing Truck Bed Slide

by: Keith William Knull

Homemade free-standing truck bed slide constructed from 2x4s, pressure-treated plywood, and casters.

Click here for more details on: Free Standing Truck Bed Slide

Topside Mechanic Creeper

by: Imabass

Homemade topside mechanic creeper constructed from surplus lumber, 2x4s, a ladder, and a ratcheting strap.

Click here for more details on: Topside Mechanic Creeper

Tiltable Cab Dolly

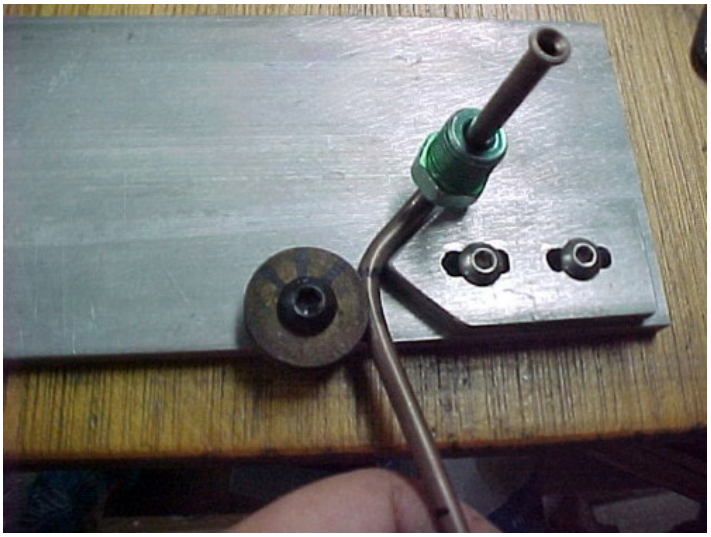
by: chief36chevy

Homemade tiltable cab dolly featuring hinge-mounted 2x4s intended to enable one-man access to the cab's bottom surface. An engine crane is utilized to rotate the cab about one hinge. Dolly is caster-mounted for improved mobility.

Click here for more details on: Tiltable Cab Dolly

Brake Line Bending Fixture

by: astroracer

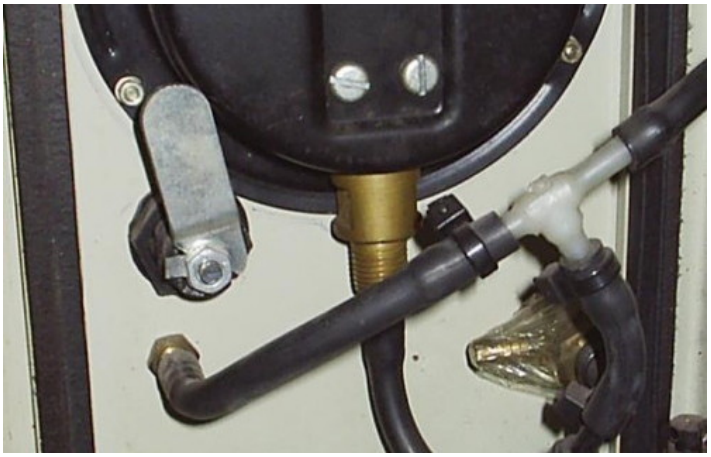


Homemade brake line bending fixture constructed from aluminum plate and bolts.

Click here for more details on: Brake Line Bending Fixture

Vacuum Testing Machine

by: Hotz

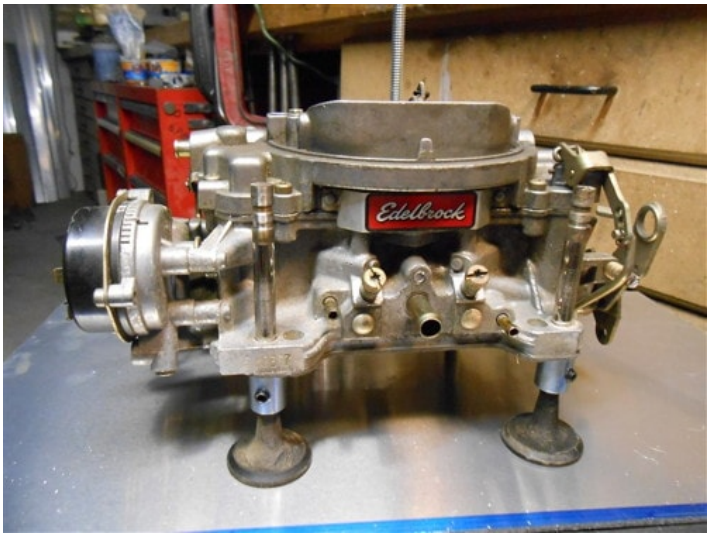


Homemade vacuum testing machine constructed from an inhaler machine, an electrical box, a power switch, a vacuum gauge, hose, wire, and high-density foam. Intended to facilitate the process of testing engine valve seal efficiency.

Click here for more details on: Vacuum Testing Machine

Carburetor Stand

by: bobs409

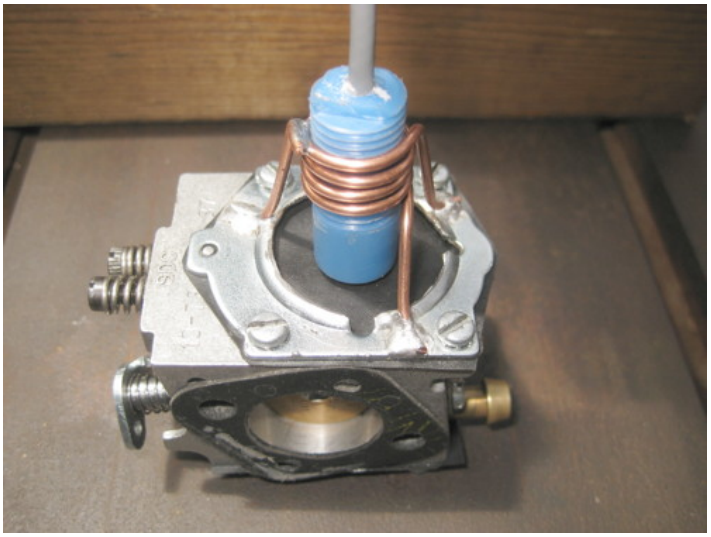


Homemade carburetor stand constructed from surplus engine valves, collars, and set screws.

Click here for more details on: Carburetor Stand

Carburetor Monitoring System

by: chy_farm



Homemade carburetor diaphragm monitoring system constructed from a displacement detector, magnetic coil, signal amplifier, voltage divider, analog-to-digital converter, a homemade pulser coil, and a laptop.

Click here for more details on: Carburetor Monitoring System

Hydraulic Jack Stands

by: 67mustangal

Homemade hydraulic jack stands fabricated from angle iron and utilizing 1-ton bottle jacks to supply the lifting force. Jacks provide extra working clearance without compromising stability.

Click here for more details on: Hydraulic Jack Stands

Wall-Mounted Bead Breaker

by: wadeamca

Homemade wall-mounted bead breaker adapted from a truck's receiver hitch.

Click here for more details on: Wall-Mounted Bead Breaker

Engine Crane Come-Along

by: chief36chevy

Homemade engine crane come-along modification utilizing a pair of pulleys to yield increased range of operation.

Click here for more details on: Engine Crane Come-Along

Puzzle Nut Key

by: Don42

Homemade puzzle nut key constructed from steel stock and drill rod.

Click here for more details on: Puzzle Nut Key

Tire Lift

by: ruxu

Homemade tire lift constructed from a surplus floor jack, tubing, bar stock, and bearings.

Click here for more details on: Tire Lift

Truck Wheel Ring Straightener

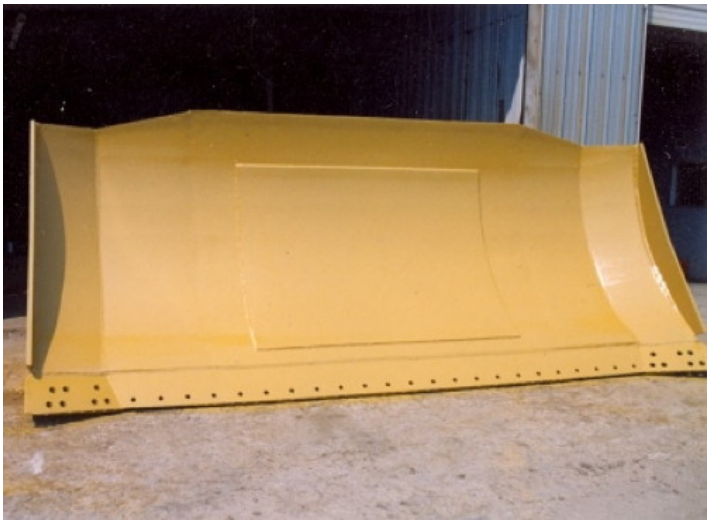
by: Frank S

Homemade truck wheel ring straightener constructed from a length of bar stock and a cam bolted to the work table.

Click here for more details on: Truck Wheel Ring Straightener

D10 Bulldozer Blade Conversion

by: Frank S



Homemade D10 bulldozer blade conversion constructed by modifying the structure of a surplus U-shaped bulldozer blade.

Click here for more details on: D10 Bulldozer Blade Conversion

Wrecker

by: Jerrdan john

Homemade wrecker constructed from scrap and surplus components. Utilizes a Chevron boom and three 10,500 pound 2-speed winches. Features wireless remote operation.

Click here for more details on: Wrecker

Modular Body Cart

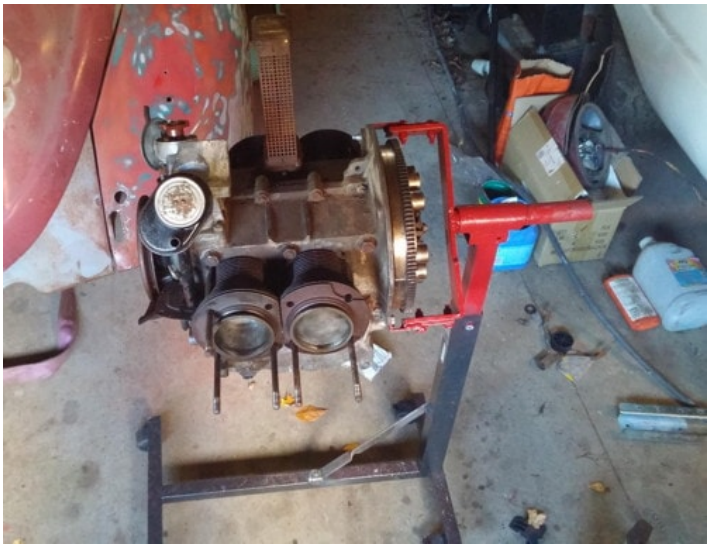
by: astroracer

Body cart made from scrap pressure-treated lumber. Includes modular top that can be modified to accommodate various automotive bodies.

Click here for more details on: Modular Body Cart

VW Engine Stand

by: teched



Homemade VW engine stand constructed from a surplus hospital bed table, lawnmower brackets, and trailer jack pipe.

Click here for more details on: VW Engine Stand

Screw Stands

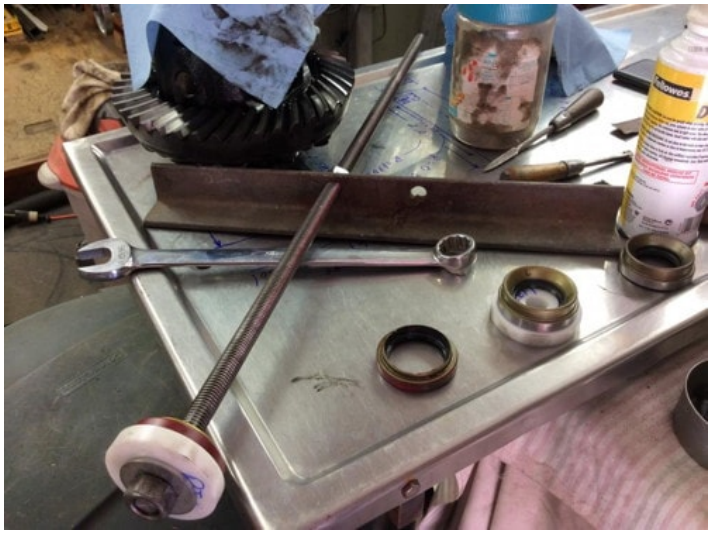
by: Frank S

Homemade screw stands constructed from pipe, scaffolding screws, and lumber.

Click here for more details on: Screw Stands

Seal Installation Tools

by: Catfish



Homemade seal installation tools fashioned from HDPE and based on actual seal dimensions.

Click here for more details on: Seal Installation Tools

Pedal Depressor

by: woodstockva

Homemade pedal depressor constructed from a non-retracting caulking gun, a 4' length of 1/4" steel rod, a 5/16" ID fuel line, and a U-bolt.

Click here for more details on: Pedal Depressor

Chassis Jig

by: Astro

Homemade chassis jig constructed from 3"x2"x1/8" RHS steel. Features four integral leveling feet. Intended to facilitate the process of enlarging a racecar's cockpit while maintaining all other critical measurements.

Click here for more details on: Chassis Jig

Tappet Locking Tool

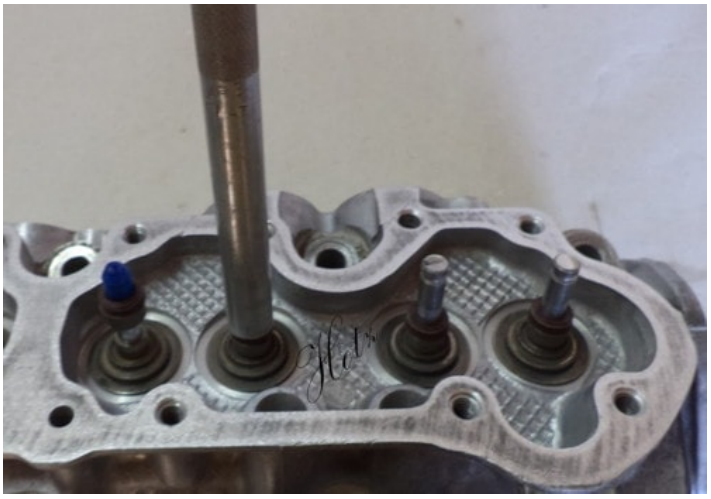
by: Hotz

Homemade tappet locking tool adapted from a sharpening file. Intended to facilitate the process of performing valve adjustments.

Click here for more details on: Tappet Locking Tool

Valve Seal Installation Tools

by: Hotz



Homemade valve seal installation tools fashioned in a range of sizes and zinc-coated.

Click here for more details on: Valve Seal Installation Tools

Axle Nut Sockets

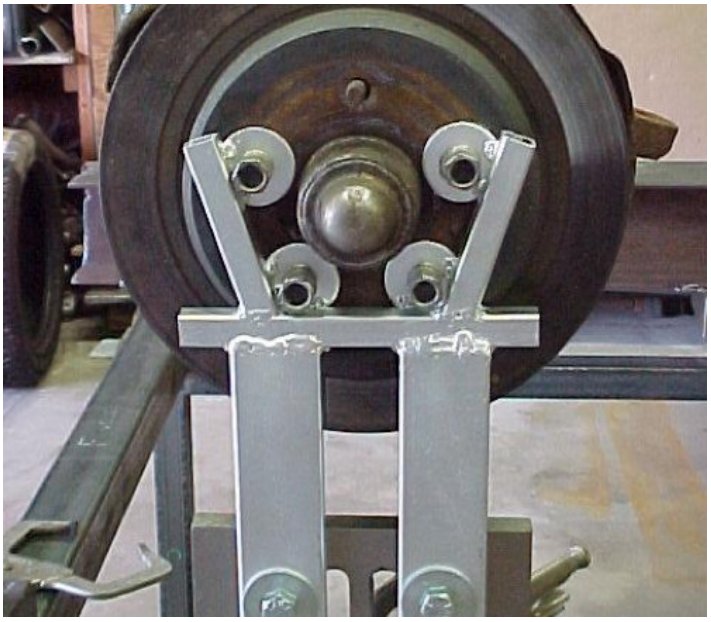
by: Frank S

Homemade axle nut sockets constructed from flat bar stock and surplus sockets.

Click here for more details on: Axle Nut Sockets

Chassis Jig Spindle Fixture

by: astroracer



Homemade chassis jig spindle fixture constructed from tubing, flat bar stock, and washers.

Click here for more details on: Chassis Jig Spindle Fixture

Engine Hoist Cab Attachment

by: Super 55

Homemade engine hoist cab attachment constructed from lumber.

Click here for more details on: Engine Hoist Cab Attachment

Automotive Wiring Organizer

by: astroracer

Homemade automotive wiring organizer constructed from cardboard, a surplus aluminum pole, lumber, and screw eyes.

Click here for more details on: Automotive Wiring Organizer

Belt Tensioner Socket

by: sossol

Homemade belt tensioner socket constructed from a spark plug socket and a 6-point socket.

Click here for more details on: Belt Tensioner Socket

Differential Square Socket

by: mattthemuppet

Homemade differential square socket constructed from hex bar stock.

Click here for more details on: Differential Square Socket

Strap Wrench

by: dtech

Homemade strap wrench constructed from a surplus socket, timing belt, washer, and tubing.

Click here for more details on: Strap Wrench

Wiper Removal Tool

by: franklynb

Homemade wiper removal tool constructed from tubing, steel stock, and a nut and bolt.

Click here for more details on: Wiper Removal Tool

GM Radio Removal Tool

by: nortin

Homemade GM radio removal tool constructed from a surplus screwdriver handle and a pneumatic quick connect fitting.

Click here for more details on: GM Radio Removal Tool

Hydroboost Nut Socket

by: Frank S

Homemade Hydroboost nut socket constructed from surplus pipe.

Click here for more details on: Hydroboost Nut Socket

Hub Nut Socket

by: Frank S

Homemade hub nut socket constructed from surplus pipe and a screwdriver.

Click here for more details on: Hub Nut Socket

Bushing Install Tool

by: Frank S

Homemade bushing install tool constructed from round bar stock.

Click here for more details on: Bushing Install Tool

Chassis Rotisserie Conversion

by: astroracer

Homemade chassis rotisserie conversion based on a pair of 1,000 lb. capacity engine stands. Features solid 10" casters on one end and swivels on the other. Frames are secured to the rotisserie with 2" x 2" U-bolts.

Click here for more details on: Chassis Rotisserie Conversion

Helping Hand

by: nortin

Homemade helping hand utilized to hold a flywheel stationary while torquing the flywheel-to-crankshaft bolts.

Click here for more details on: Helping Hand

Adjustable Pushrod Length Checker

by: Cobalt327

Homemade pushrod length checker intended to aid in determination of valve train geometry. Constructed from a used pushrod and threaded stock.

Click here for more details on: Adjustable Pushrod Length Checker

Magneto Static Timing Unit

by: Greg Dix

Homemade magneto static timing unit based on the principal of sensing the coil's inductive reactance.

Click here for more details on: Magneto Static Timing Unit

Pinion Bearing Tool

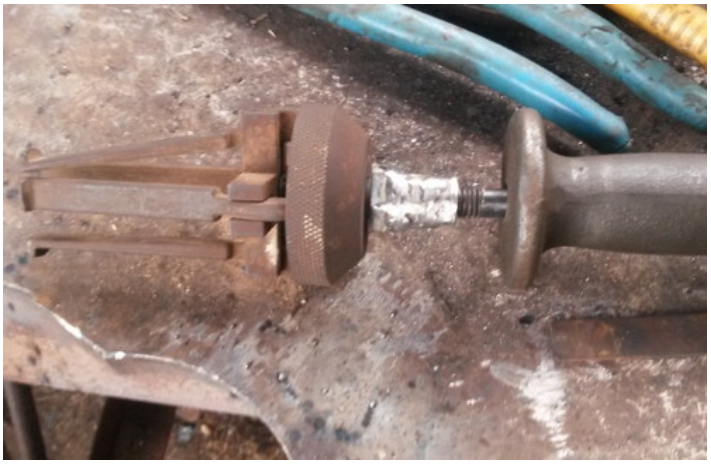
by: Frank S

Homemade pinion bearing tool constructed from a surplus bearing.

Click here for more details on: Pinion Bearing Tool

Slide Hammer Bearing Puller Adaptor

by: Frank S



Homemade slide hammer bearing puller adaptor constructed from steel rod and a pair of nuts.

Click here for more details on: Slide Hammer Bearing Puller Adaptor

Universal Pulley Holder

by: blknblu

Homemade universal pulley holder inspired by the OTC 4754 tool and intended to facilitate the process of loosening the crankshaft pulley of a Mazda 1.8L FP engine. Constructed from two flat bars, sourced from HF ratchet clamps, and two M8 bolts.

Click here for more details on: Universal Pulley Holder

Oil Cooler Tester

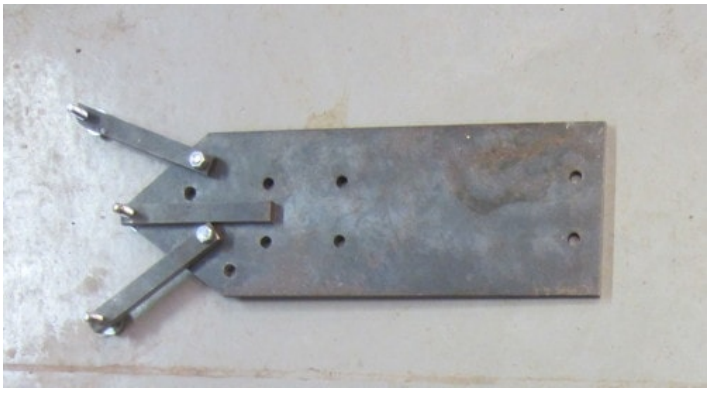
by: Frank S

Homemade oil cooler tester constructed from a foot-operated bicycle pump, tire valve, and a metal pan.

Click here for more details on: Oil Cooler Tester

Stuck Engine Flywheel Tool

by: KustomsbyKent

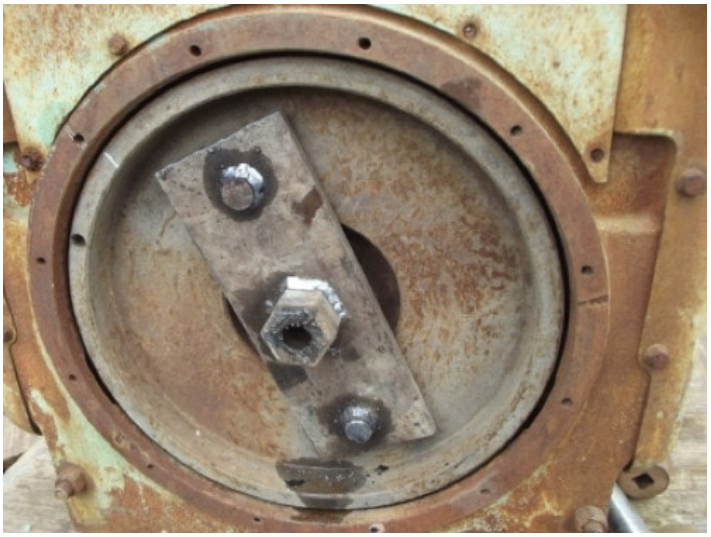


Homemade stuck engine flywheel tool constructed from steel plate, bar stock, nuts, and bolts.

Click here for more details on: Stuck Engine Flywheel Tool

Engine Loosening Tool

by: Frank S

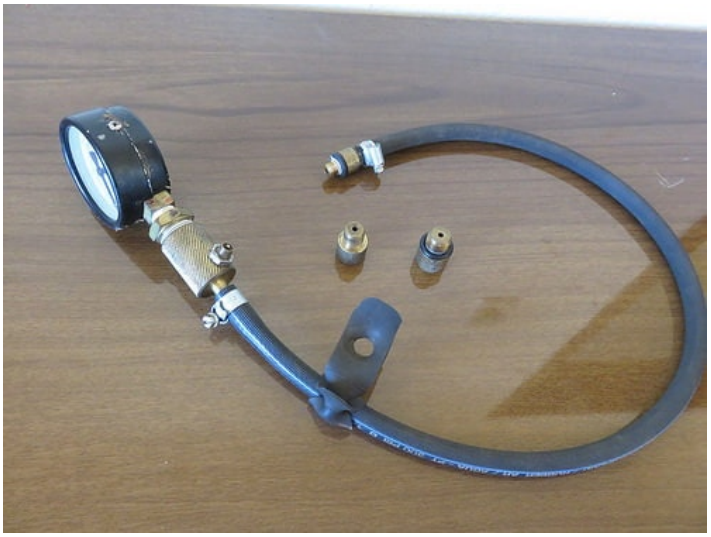


Homemade engine loosening tool constructed from bar stock and a hex fitting.

Click here for more details on: Engine Loosening Tool

Compression Tester

by: Cascao



Homemade compression tester constructed from a gauge, high pressure hose, Schrader valve, and homemade adaptors.

Click here for more details on: Compression Tester

Engine Locating Jig

by: astroracer

Homemade engine locating jig constructed from tubing, angle iron, and motor mounts.

Click here for more details on: Engine Locating Jig

Valve Holding Collet

by: tonyfoale

Homemade valve holding collet constructed from aluminum stock.

Click here for more details on: Valve Holding Collet

Valve Removal Tool

by: sossol

Homemade valve removal tool constructed from a C-clamp and surplus washing machine drive gears.

Click here for more details on: Valve Removal Tool

Pulley Removal Tool

by: TexBuxer

Homemade pulley removal tool constructed from surplus steel stock, threaded rod, and bolts.

Click here for more details on: Pulley Removal Tool

Brake Caliper Piston Wind Back Tool

by: ian

Homemade brake caliper piston wind back tool designed for working on the rear brake piston calipers of Volkswagen vehicles. Fabricated from an M10x100mm bolt, large washer, 2 M10 nuts, piece of 1/8th plate, and 2 M6 set screws.

Click here for more details on: Brake Caliper Piston Wind Back Tool

Disc Brake Caliper Tool

by: hemifan

Homemade disc brake caliper tool adapted from a caulking gun.

Click here for more details on: Disc Brake Caliper Tool

One-Person Brake Bleeder

by: jere

Homemade one-person brake bleeder constructed from a garden sprayer, a tire pressure gauge, vinyl tubing, rubber, a brass fitting, a brass 'T', nuts, and bolts.

Click here for more details on: One-Person Brake Bleeder

Brake Booster Rod Measuring Tool

by: dtech

Homemade brake booster rod measuring tool fashioned from steel.

Click here for more details on: Brake Booster Rod Measuring Tool

Brake Turning Tool

by: darkoford

Homemade brake turning tool steel stock and threaded rod.

Click here for more details on: Brake Turning Tool

Transmission Filler

by: Dave W

Homemade long-reach transmission filler fabricated from a 20" length of stainless steel supply hose, a 1/2" pipe nipple, and a funnel.

Click here for more details on: Transmission Filler

Transfer Box Jack Adapter

by: naughtyboy

Homemade transfer box jack adaptor intended to facilitate lifting operations during work on Land Rover and Range Rover transmissions. Adaptor was fabricated from steel and attached to a floor jack's lifting saddle.

Click here for more details on: Transfer Box Jack Adapter

Transmission Hoist

by: chief36chevy

Homemade transmission hoist constructed from angle iron and a winch.

Click here for more details on: Transmission Hoist

Transmission Tailshaft Plug

by: nortin

Homemade transmission tailshaft plug constructed from a kitchen sink drain pipe, plastic, and sealant.

Click here for more details on: Transmission Tailshaft Plug

Heavy Duty Transmission Jack

by: Frank S

Homemade heavy duty transmission jack constructed from 4x4 square tubing, 1" sprinkler pipe, casters, swivels, CRS bar stock, homemade collars, and a chromed cylinder.

Click here for more details on: Heavy Duty Transmission Jack

Groove Cutting Tool

by: Frank S

Homemade groove cutting tool constructed from a surplus hand tool ground with a pointed edge. Used for cutting a groove around the mating surfaces of a flywheel housing.

Click here for more details on: Groove Cutting Tool

Radius Plates

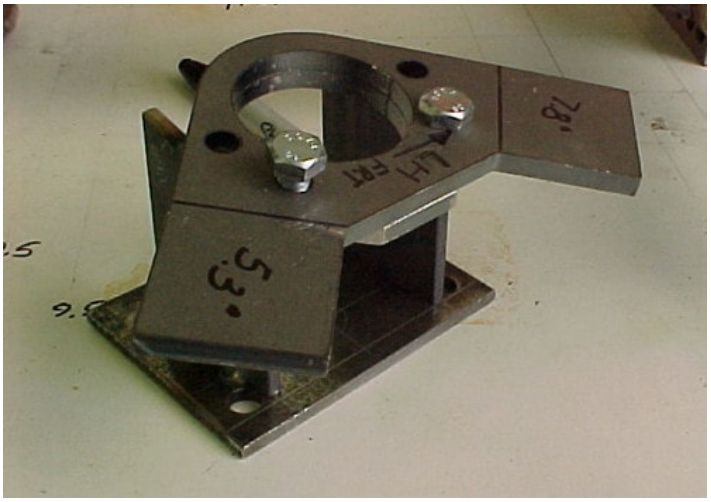
by: Spannerdude

Homemade radius plates constructed from MDF and steel plate. Intended to facilitate the process of accurately tracking the wheels of a Fiat 500.

Click here for more details on: Radius Plates

Ball Joint Fixture

by: astroracer



Homemade ball joint fixture constructed from steel plate.

Click here for more details on: Ball Joint Fixture

Axle Tube Bleeder Housing

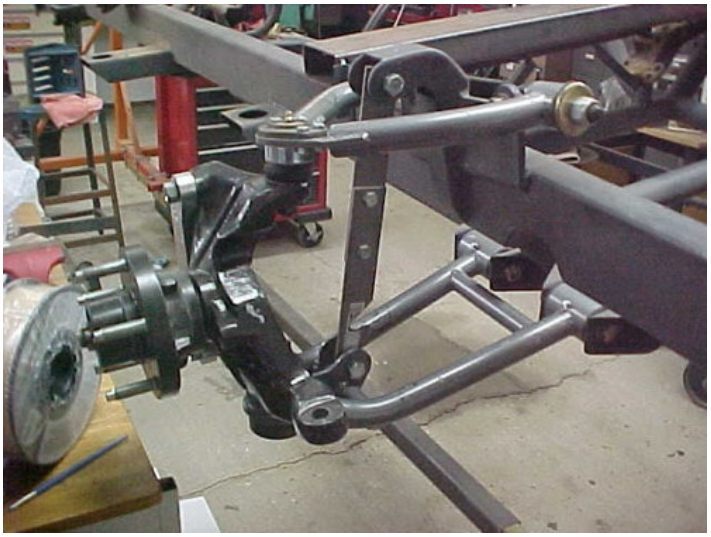
by: DLW

Homemade axle tube bleeder housing constructed from aluminum, fittings, hose, & O-rings.

Click here for more details on: Axle Tube Bleeder Housing

Front Shock Mock Up Tool

by: astroracer



Homemade front shock mock up tool constructed from flat bar stock, nuts, and bolts.

Click here for more details on: Front Shock Mock Up Tool

Strut Compressor Stand

by: dtech

Homemade strut compressor stand constructed from a surplus engine stand.

Click here for more details on: Strut Compressor Stand

Valve Spring Compressor

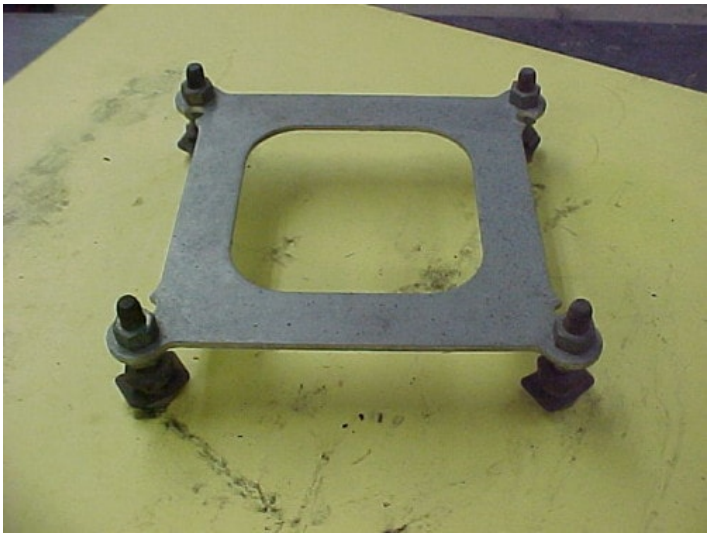
by: TacoSalad

Homemade valve spring compressor constructed from an oxygen sensor socket and scrap steel. Intended for a Volvo B230 engine.

Click here for more details on: Valve Spring Compressor

Carburetor Stand

by: astroracer



Homemade carburetor stand constructed from a surplus carburetor spacer, bolts, and nuts.

Click here for more details on: Carburetor Stand

Oil Filter Cutter

by: funflyer

Homemade oil filter cutter constructed from aluminum stock, threaded rod, skateboard wheel bearings, and a tubing cutter blade.

Click here for more details on: Oil Filter Cutter

Oil Filter Wrench Modification

by: mattthemuppet

Homemade oil filter wrench modification constructed from a surplus measuring jug and sealant.

Click here for more details on: Oil Filter Wrench Modification

Bead Breaker

by: TERBPA

Homemade bead breaker fashioned by welding a short length of I-beam to a piece of heavy angle iron. Intended to facilitate tire changing operations for a '41 Dodge truck's split rims.

Click here for more details on: Bead Breaker

Bead Breaker Attachment

by: aametalmaster

Homemade bead breaker attachment for a shop press fabricated from 3/8" flat steel stock and a short section of pipe.

Click here for more details on: Bead Breaker Attachment

Valve Cap Tool

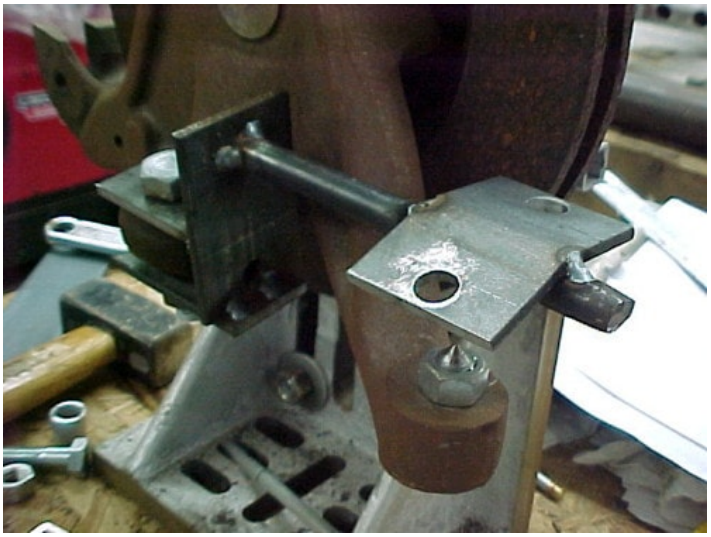
by: Rick Sparber

Homemade valve cap tool constructed from flexible tubing and a rod.

Click here for more details on: Valve Cap Tool

Steering Knuckle Fixture

by: astroracer



Homemade steering knuckle fixture constructed from steel plate and round bar stock.

Click here for more details on: Steering Knuckle Fixture

Honda Steering Rack Adjuster

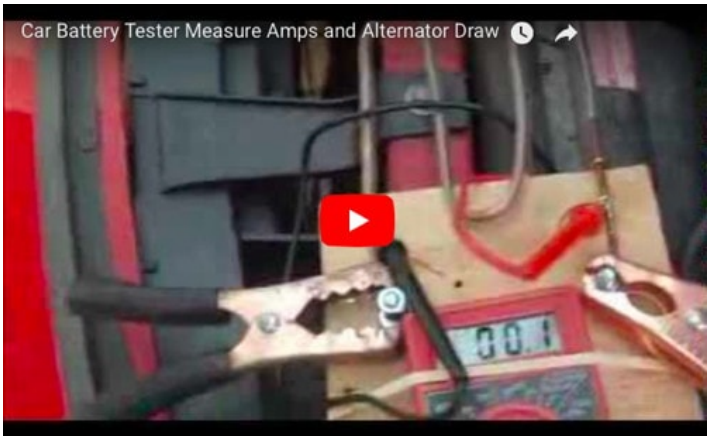
by: handycrowd

Homemade Honda steering rack adjuster constructed from a 40mm wrench and a washer.

Click here for more details on: Honda Steering Rack Adjuster

Car Battery Tester

by: Boyntonstu



Homemade car battery tester constructed from an electrical multimeter and a length of #8 solid copper wire.

Click here for more details on: Car Battery Tester

Laser Wheel Alignment Gauges

by: Spannerdude

Homemade laser wheel alignment gauges fabricated from 1" square steel tube and utilizing inexpensive air gun sights mounted to adjustable fittings. Capable of accommodating a range of rim sizes and vehicle widths.

Click here for more details on: Laser Wheel Alignment Gauges

Tapered Axle Puller

by: nonhog

Homemade tapered axle puller adapted from a surplus Toyota MR2 hub and utilizing a section of black iron pipe as the tool's body.

Click here for more details on: Tapered Axle Puller

Differential Casing Separator

by: TexBuxer

Homemade differential casing separator constructed from tubing, flat bar stock, threaded rod, nuts, and a dial indicator.

Click here for more details on: Differential Casing Separator

Single Hole Spanner Wrench

by: Frank S

Homemade single hole spanner wrench constructed from flat bar stock. Used to hold the flange when tightening axle nuts.

Click here for more details on: Single Hole Spanner Wrench

Panel Joggler

by: richthemechanic

Homemade panel joggler adapted from a door skin edging tool. Utilizes a reversible nylon block and a sturdier jaw fabricated from steel.

Click here for more details on: Panel Joggler

Dolly

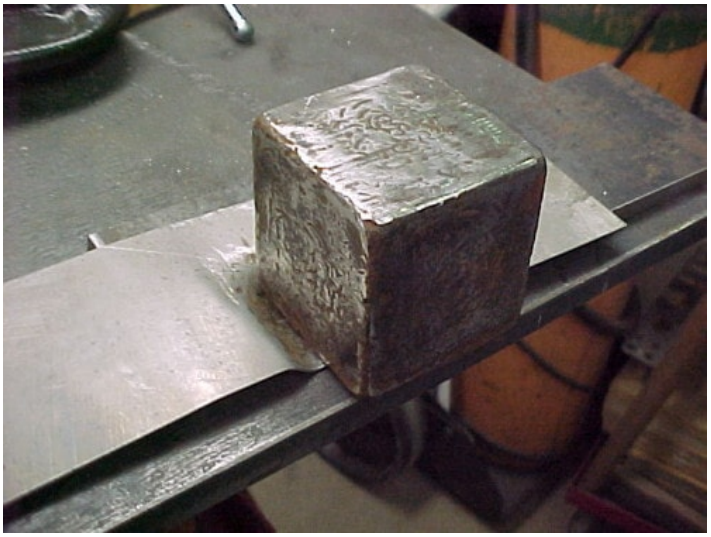
by: nonhog

Homemade dolly adapted from an inexpensive 3-pound dumbbell. Smoothed and polished with successive grits until acceptable for use. Capable of being mounted in a vise.

Click here for more details on: Dolly

Hammer Forming Tool

by: astroracer



Homemade hammer forming tool constructed from a block of steel.

Click here for more details on: Hammer Forming Tool

Cross Member Jig

by: Frank S

Homemade crossmember jig constructed from steel plate, C-channel, and square tubing.

Click here for more details on: Cross Member Jig

Towbar Conversion

by: kess

Homemade towbar conversion constructed from flat bar stock, nuts, bolts, and washers.

Click here for more details on: Towbar Conversion

Wheel Well Lip Bender

by: astroracer

Homemade wheel well lip bender constructed from steel plate.

Click here for more details on: Wheel Well Lip Bender

Pickup Bumper

by: Frank S

Homemade pickup bumper constructed from sheetmetal. Contains compartments for safety equipment and connectors.

Click here for more details on: Pickup Bumper

Pickup Bumper

by: astroracer

Homemade pickup bumper constructed from a surplus bumper, sheetmetal, and tubing.

Click here for more details on: Pickup Bumper

Frame Horn Tool

by: Frank S

Homemade frame horn tool constructed from rectangular tubing.

Click here for more details on: Frame Horn Tool

Tire Bead Spreader

by: Frank S

Homemade tire bead spreader constructed from surplus lumber.

Click here for more details on: Tire Bead Spreader

Backhoe Bucket Quick Disconnect

by: Frank S

Homemade backhoe bucket quick disconnect constructed from 1" steel plate.

Click here for more details on: Backhoe Bucket Quick Disconnect

Fork Carriage

by: Frank S

Homemade fork carriage constructed from steel plate, angle iron, and homemade bushings.

Click here for more details on: Fork Carriage

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