WORKSHOP MATE
THE MECHANICS WORKSTATION

Specifications

- Safe Working Capacity: 30,000kg
- Working Range: 224-819mm
- Piston Ram Stroke Main Ram: 140mm (Standard load cap fitted)
- Bed Height Settings: 85mm increments - 8 settings
- Bed Width: 466mm
- Bed Gap: 200mm
- Piston Ram Stroke: 295mm
- Operating Air Pressure: 90-125psi
- Overall Dimensions: 1820H x 1170W x 820Dmm
- Skid: 1020L x 1000W x 1600Hmm
- Weight: 400kg
- ISO32 hydraulic oil (the 2054T foot pedal holds 2.25L)

Spring Compressor

- Will do most (NOT ALL) manufacturer springs up to 3,500kg GVM
- Maximum coil thickness 16mm
- Maximum coil outer diameter 200mm
- Minimum coil outer diameter 100mm

YouTube
Scan code for online product demonstration

About the Workshop Mate press

The Workshop Mate provides a top-quality, heavy-duty workshop press for enhanced efficiency, safety, and precision. The flagship 30,000kg workstation press delivers 30 tons of force, ideal for removing and installing various components. Featuring a side-mounted spring compressor and 10,000 psi air/hydraulic foot pump, this versatile tool ensures fast, accurate operations. With multiple accessories and on-board storage, the Workshop Mate saves time, boosts productivity, and tackles tough tasks effortlessly.

WARNING INFORMATION

IMPORTANT: READ ALL INSTRUCTIONS BEFORE USE

WARNING

The instructions and warnings contained in this manual should be read and understood before using or operating this equipment. Do not allow anyone to use or operate this equipment until they have read this manual and have developed a thorough understanding of how this equipment works. Failure to observe any of the instructions contained in the manual could result in severe personal injury to the user or bystanders, or cause damage to the equipment and property. Keep this manual in a convenient and safe place for future reference.

The warnings, cautions and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product but must be supplied by the operator.

Whilst every effort has been made to ensure accuracy of information contained in this manual, the Workshop Mate policy of continuous improvement determines the right to make modifications without prior warning.

CONTENTS

STANDARD OPERATING PROCEDURE

DO NOT use this machine unless you have been trained and assessed to a competent level in its sate use and operation, and have been given permission to use this

Safety glasses must be worn when operating this equipment

Safety footwear must be worn when operating this equipment

Safety gloves must be worn when operating this equipment

Long loose hair must be contained when operating this equipment

Close fitting/protective clothing must be worn when operating this equipment

Hearing protection must be worn where noise levels are in excess of 85 dB(A) occupational exposure limit

PRE-OPERATIONAL SAFETY CHECKS

1. The maximum load for the press is 30,000kg. DO NOT exceed this rated capacity. Never apply excessive force to a workpiece and always use the pressure gauge to accurately determine the applied load. Burst hazard exists if hose or connection pressure exceeds rated pressure.
2. The Workshop Mate is designed for easy pressing of front struts, rear axles, 4x4 struts, bushes and ball joints, hubs, wheel bearings & suspension work.
3. Keep children and unauthorised persons away from the work area.
4. Do not operate this Workshop Mate press whilst wearing loose clothing. Remove ties, watches, rings and other loose jewellery, and contain long hair in a suitable hair net.
5. Wear approved impact safety goggles, full-face impact safety shield and heavy-duty work gloves when operating this Workshop Mate press.
6. Keep proper balance and footing, do not overreach and wear non-skid footwear.
7. Inspect this Workshop Mate press before each use. Do not use it if it is bent, broken, cracked, leaking, or otherwise damaged, if any parts seem suspect, or if it has been subjected to a shock load.
8. Check to ensure that all applicable bolts and nuts are firmly tightened.
9. Always keep hands and feet away from the bed area.
10. Do not operate this Workshop Mate press when you are tired or under the influence of alcohol, drugs, or any intoxicating medication.
11. Do not expose this Workshop Mate press to rain or any other kind of bad weather.
12. Do not allow untrained persons to operate this Workshop Mate press.
13. Do not make any modifications to this Workshop Mate press.
14. Do not use brake fluid or any other improper fluid and avoid mixing different types of oil when adding hydraulic oil to the foot pump assembly. Only good quality hydraulic jack oil can be used.
15. If this Workshop Mate press needs repairing and/or there are any parts that need to be replaced, have it repaired by an authorised technician and only use the replacement parts supplied by the manufacturer.
16. Always ensure the operator has read an onsite risk assessment.
17. Check workspace and walkways to ensure no slip-hazards are present. Provide a 1-meter clearance around this equipment.
18. Faulty equipment must not be used. Immediately report suspect equipment.

OPERATIONAL SAFETY CHECKS

1. Have a qualified person maintain the press to ensure it is kept in good condition. Keep it clean for optimal and safe performance.
2. Only use this Workshop Mate press on a stable, level, dry, and non-slip surface that can sustain the load. Keep the area clean, tidy, free from unrelated materials, and ensure adequate lighting.
3. Ensure the workpiece is centered and secured.
4. Maintain a safe working posture and be cautious of hair or clothing getting caught.

ASSEMBLY, OPERATION, PREVENTITIVE MAINTENANCE

1. FEATURES & USES

The Workshop Mate "Workstation" 30,000kg heavy duty H-frame workshop press delivers up to 30 tons of pressing force.

When components need to be removed or assembled, this press delivers the controlled power to get the job done in a much quicker, safer, and more efficient way than a standard shop press.

Remove and install bearings, gears, U-joints, bushings, ball joints and pulleys with this versatile hydraulic press!

The side mounted Spring Compressor adds extra versatility & efficiency to any fast-paced workshop environment and will work on most (NOT ALL) OEM springs up to 3,500kg GVM.

The 10,000 psi Air/Hydraulic foot pump on this workshop press operates the ram at a slow or fast speed to accommodate a wide variety of pressing applications.

This 30,000kg hydraulic workshop press & spring compressor features a multitude of included accessories which make this product truly unique & a valuable tool as it can perform a varied amount of work from one single workstation.

2. ASSEMBLY INSTRUCTIONS

1. Remove the shrink wrap, strapping, and other packaging materials.

2. Take the boxes of parts off the frame and skid and put aside until required.

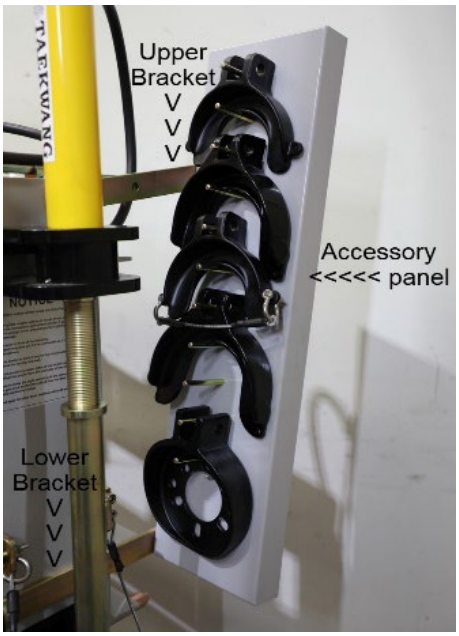
3. Unbolt the press from the skid.

4. Attach the Castors firmly to the height extension brackets.

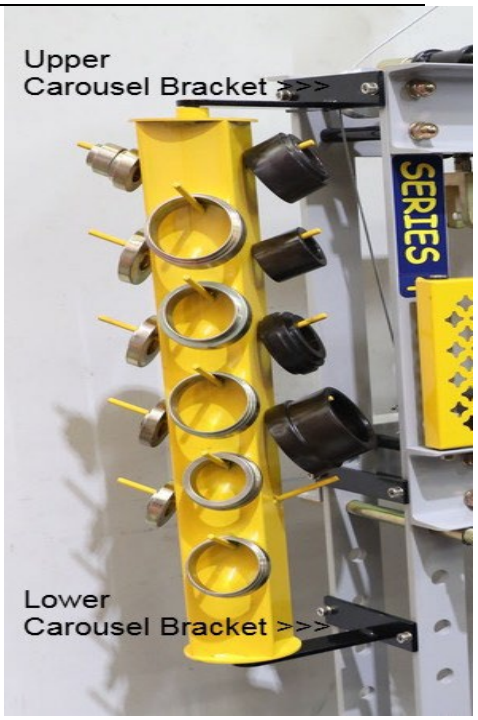
5. Using a suitable lifting device such as a forklift, safely raise the press.

6. Attach the castor and height extension assembly to the four base bracket corners.

7. Lower the press onto a flat, level surface and lock the wheels.



8. Install the spring compressor accessory panel upper and lower brackets then attach the accessory panel and hang the accessories.

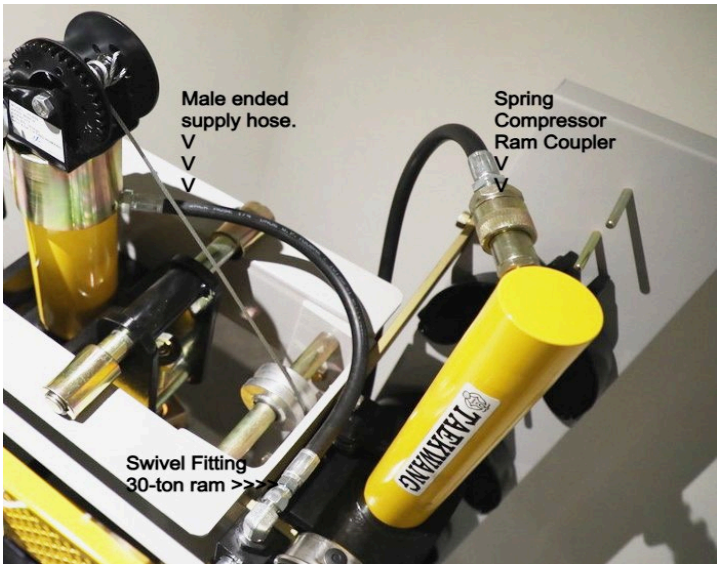


9. Using the fasteners supplied, install the press accessory lower carousel bracket then mount the carousel and affix the upper carousel.

10. Using the fasteners supplied, install the press accessory lower carousel bracket then mount the carousel and affix the upper carousel mounting bracket then hang the accessories.

11. Connect the threaded end of the hydraulic hose to the air/hydraulic foot pump hydraulic outlet using thread tape or a suitable hydraulic fittings sealant.

12. Connect the threaded end of a "male air hose coupler" to the air/hydraulic foot pump air inlet using thread tape or a suitable air fitting sealant.



14. Connect the male threaded end of the 30-Ton Ram Hydraulic supply hose to the Ram using Thread tape or a suitable Hydraulics fitting sealant.

Attach the 30-ton ram swivel fitting to the upper male elbow.

Attach the Spring Compressor hose using the male/female coupler.

15. Open the breather valve on the air/hydraulic foot pump.

3. WINCH ASSEMBLY

Your Workshop Mate is fitted with a two-way ratcheting winch. The winch has a ratchet wheel with teeth and a pawl (a lever or catch) that engages these teeth. When the pawl is engaged, it allows the ratchet wheel to turn in one direction while preventing it from turning in the opposite direction.

When you set the winch to pull or wind, the pawl engages with the teeth of the ratchet wheel, allowing the handle to turn and pull the cable in. As you crank the handle, the pawl clicks into the teeth, preventing the ratchet wheel from turning backward and locking the load in position when you stop cranking.

Switching the direction safely:
Ensure that the load is stable and not under tension that could cause it to shift suddenly.
Make sure you have a firm grip on the winch handle.
Switch the position of the pawl and ensure it engages with the teeth in its new position. **This step temporarily disengages the locking mechanism, so it's crucial to maintain control over the handle to prevent the bed from dropping and the handle from violently free spinning**.

Raising the bed:
With one hand firmly on the winch handle, set the pawl to the raise position.
Turn the winch handle clockwise until you reach the desired height.
Insert the bed pins into the frame.
Set the pawl into the lowering position
Turn the winch handle counterclockwise and lower the bed onto the bed pins
Ensure the bed is evenly set onto the bed pins.
Turn the handle one more full turn to ensure there is slack in the cable before applying pressure to the bed, failure to do so will result in a stretched and frayed winch cable.

Lowering the bed:
With one hand firmly on the winch handle, set the pawl to the raise position.
Turn the winch handle clockwise to raise the bed from the bed pins.
Move the bed pins to the desired height.
Set the pawl to the lowering position.
Turn the winch handle counterclockwise and lower the bed onto the bed pins
Ensure the bed is evenly set onto the bed pins.
Turn the handle one more full turn to ensure there is slack in the cable before applying pressure to the bed, failure to do so will result in a stretched and frayed winch cable.

4. BEFORE USE

Ensure you have watched the demonstration video on YouTube, you can find the video by scanning the QR code on the front page of this owner's manual or by clicking the following link: www.youtube.com/watch?v=XHAE1rXkG3U

5. OPERATION

It is not practical to cover every configuration possible for the Workshop Mate because of the extensive range of accessories included. The following are some principles to adhere to, to ensure safe operation.

Spring compressor:

1. Always use the available safety cables.
2. Struts must be securely mounted, always apply light pressure to the assembly using the hydraulic ram and ensure everything is correctly located and that there is no play before compressing.
3. When using the two spring compressor arms, ensure that the spring grabs are properly aligned on the spring and aim to make a straight line running across the two spring arm grabs and the centre of the strut.
4. Watch the spring as you compress it to ensure the spring compresses steadily and straight to avoid any sudden movements or misalignment.
5. Use appropriate accessories for different struts.
6. Always wear appropriate protective gear, such as gloves and safety glasses, to protect yourself from potential hazards.
7. Always fully retract the ram before switching functions.

Hydraulic Press:

1. Always ensure safety glasses and gloves are worn.
2. Ensure that the safety doors are always closed when the workpiece is under pressure.
3. Ensure the press bed height is suitable for the job you're doing.
4. Ensure the workpiece is centred under the ram.
5. Select the right adapters - use the appropriate adapters and dies that fit the shape of the workpiece.
6. When pressing a bearing into a knuckle, ensure the die is pressing on the outer race only.
7. When pressing bearing onto a shaft, ensure the die is pressing on the inner race only.
8. Always fully retract the ram before switching functions.

By adhering to these principles, you can ensure a safe and efficient process when using the Workshop Mate press.

6. Maintenance

- Use a clean and dry cloth to clean the press surface and grease the connecting part and moving part periodically.
- When the press is not in use, fully retract both rams and store in dry place.
- If the workshop press operating efficiency is reduced, bleed the air in the hydraulic system.
- Regularly check that the foot pedal oil level is sufficient by pumping operating the ram piston to full extension (140mm). If the oil level is low, add good quality hydraulic oil to the oil tank as follows:
    - Depressurise and disconnect the hydraulic hose from the foot pedal.
    - With the pump in its upright, horizontal position, remove the oil filler plug located beneath the bronze breather valve on the top plate of the reservoir.
    - Use a small funnel to fill reservoir to within 3/4'' (19mm) of the opening.
    - Wipe up any spilled fluid and reinstall the oil filler plug.

7. INSPECTION

- Prior to each use conduct a visual inspection checking for abnormal conditions, such as cracked welds, metal fatigue, leaks, and damaged, loose, or missing parts.
- Owners and /or operators should be aware that repair of this product may require specialised equipment and knowledge.

8. STORAGE

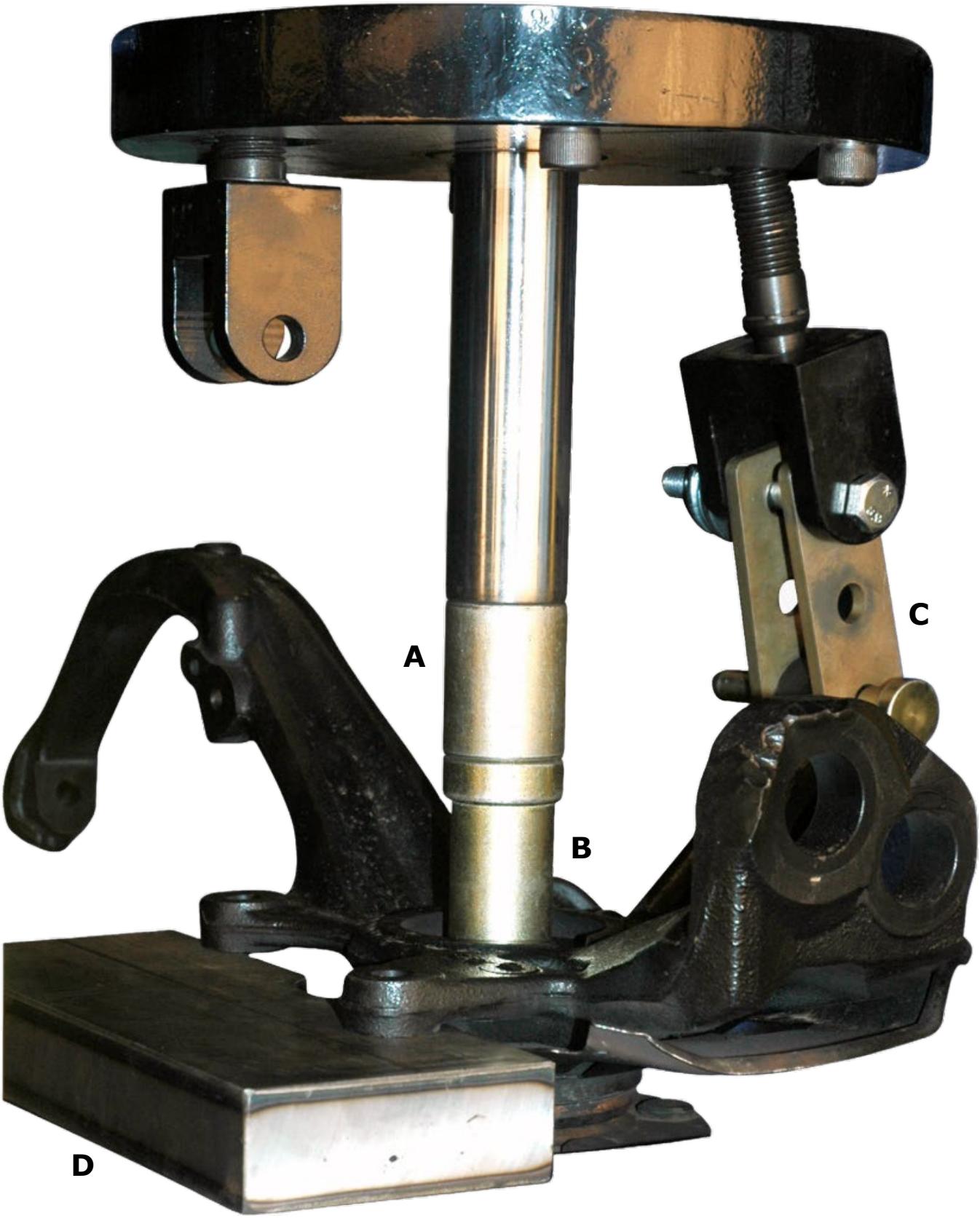
This Workshop Mate press should always be stored in a dry location on a level surface with both rams fully retracted and the compressed air supply disconnected.

9. SERVICE & REPAIR

If the Workshop Mate press is found damaged in any way, or found to be worn, or operates abnormally, it should be removed from service until repaired by an authorised service agent. Owners and / or operators should be aware that repair of this product may require specialised equipment and knowledge. Only authorised parts, labels, decals shall be used on this equipment. Annual inspection of the press is recommended and can be made by an authorised repair facility to ensure that your equipment is in optimum condition and that the equipment has the correct decals and safety labels specified by the manufacturer.

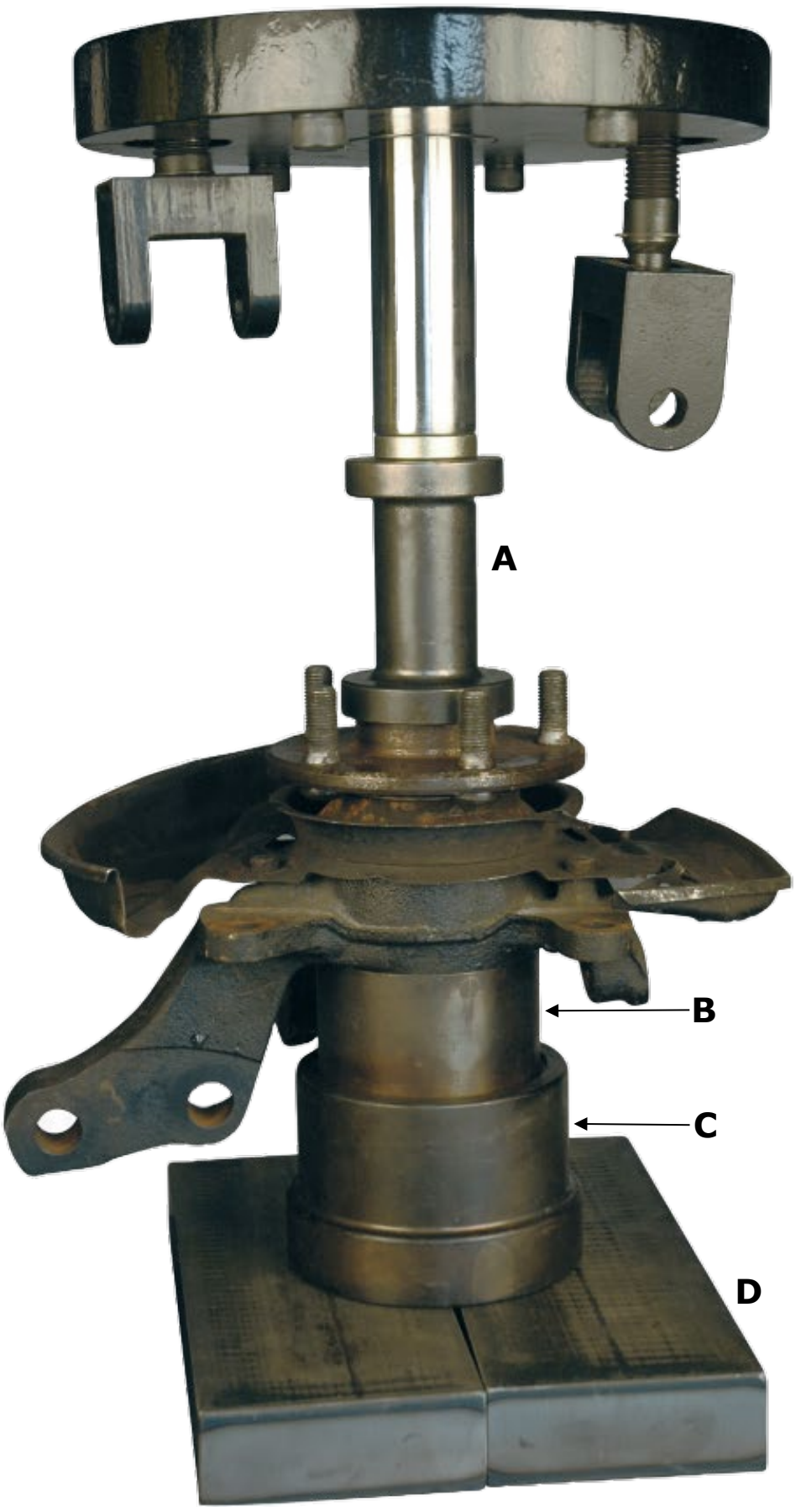
HOLD ODD SHAPES

A: PART NO. **WSM-EX2**
B: PART NO. **WSM-EX3**
C: 2x PART NO. **WSM-HB**
D: PART NO. **WSM-PLATES**



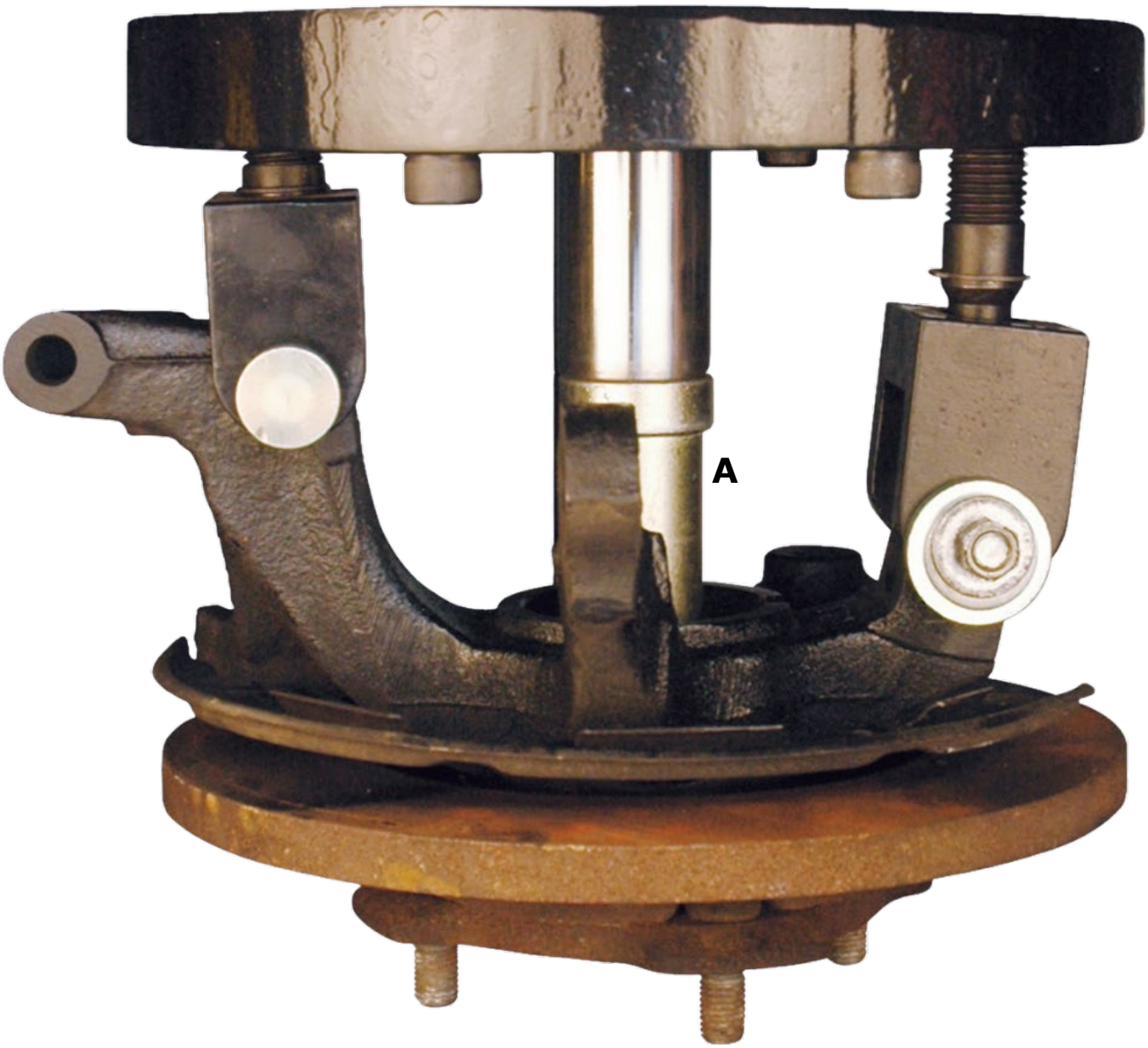
HUB REPLACEMENT TO BEARING ASSEMBLY

A: PART NO. **WSM-C3**
B: PART NO. **WSM-SM1**
C: PART NO. **WSM-NHU**
D: PART NO. **WSM-PLATES**



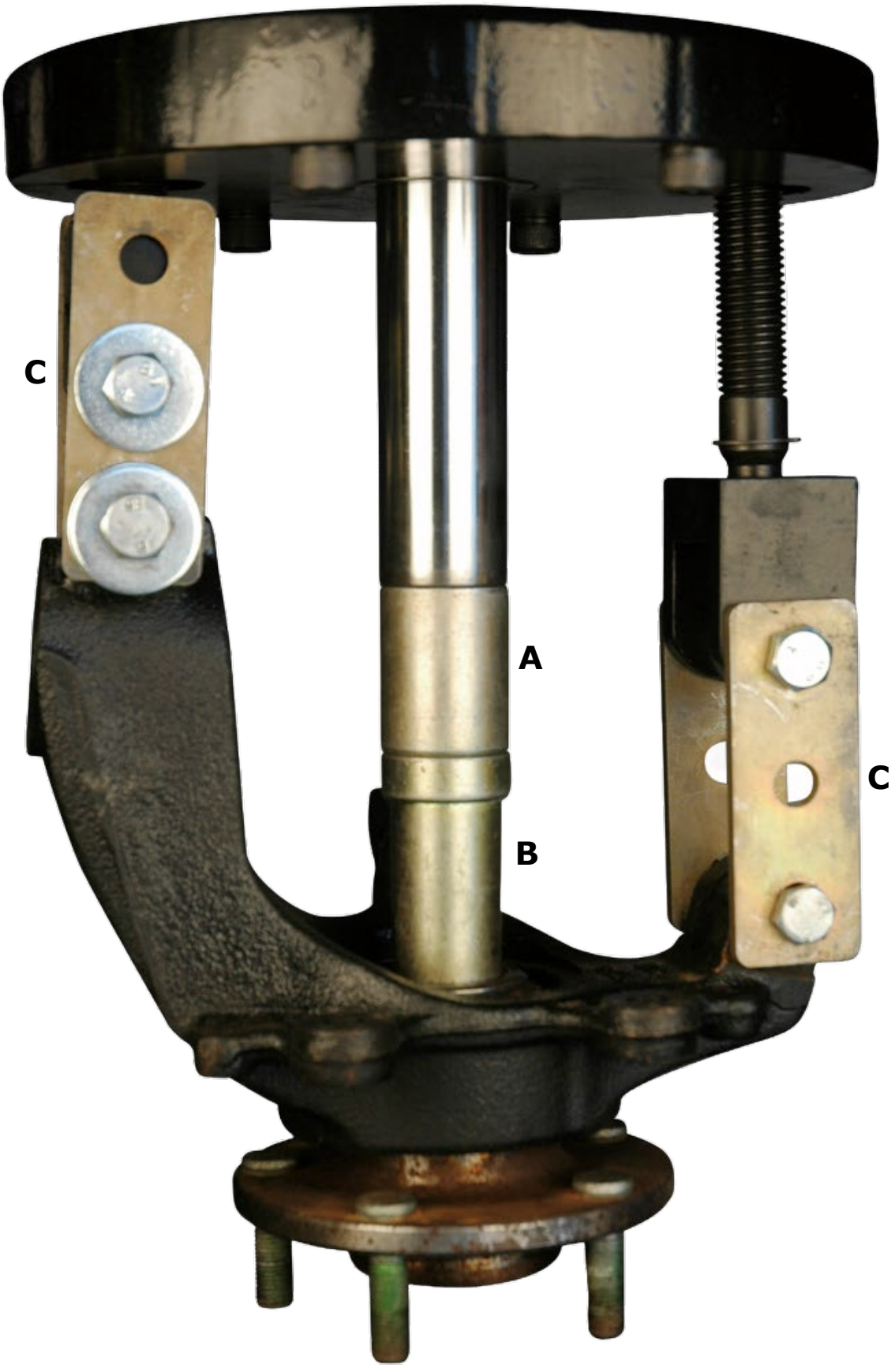
HOLDING COMMON JAPANESE HUBS

A: PART NO. **WSM-EX3**



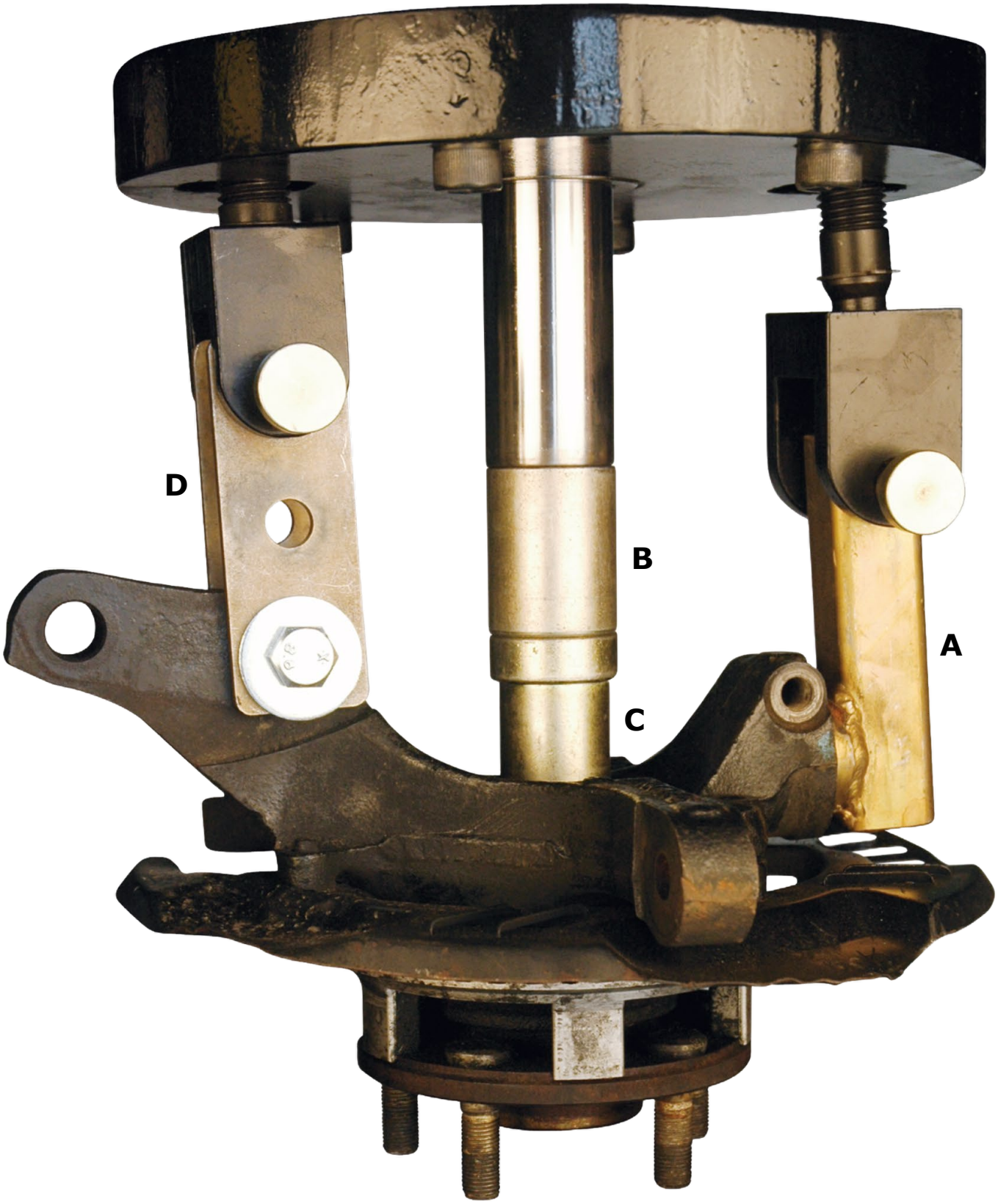
HOLDING LARGER SIZE HUBS USING HANGING BRACKETS

A: PART NO. **WSM-EX2**
B: PART NO. **WSM-EX3**
C: 4x PART NO. **WSM-HB**



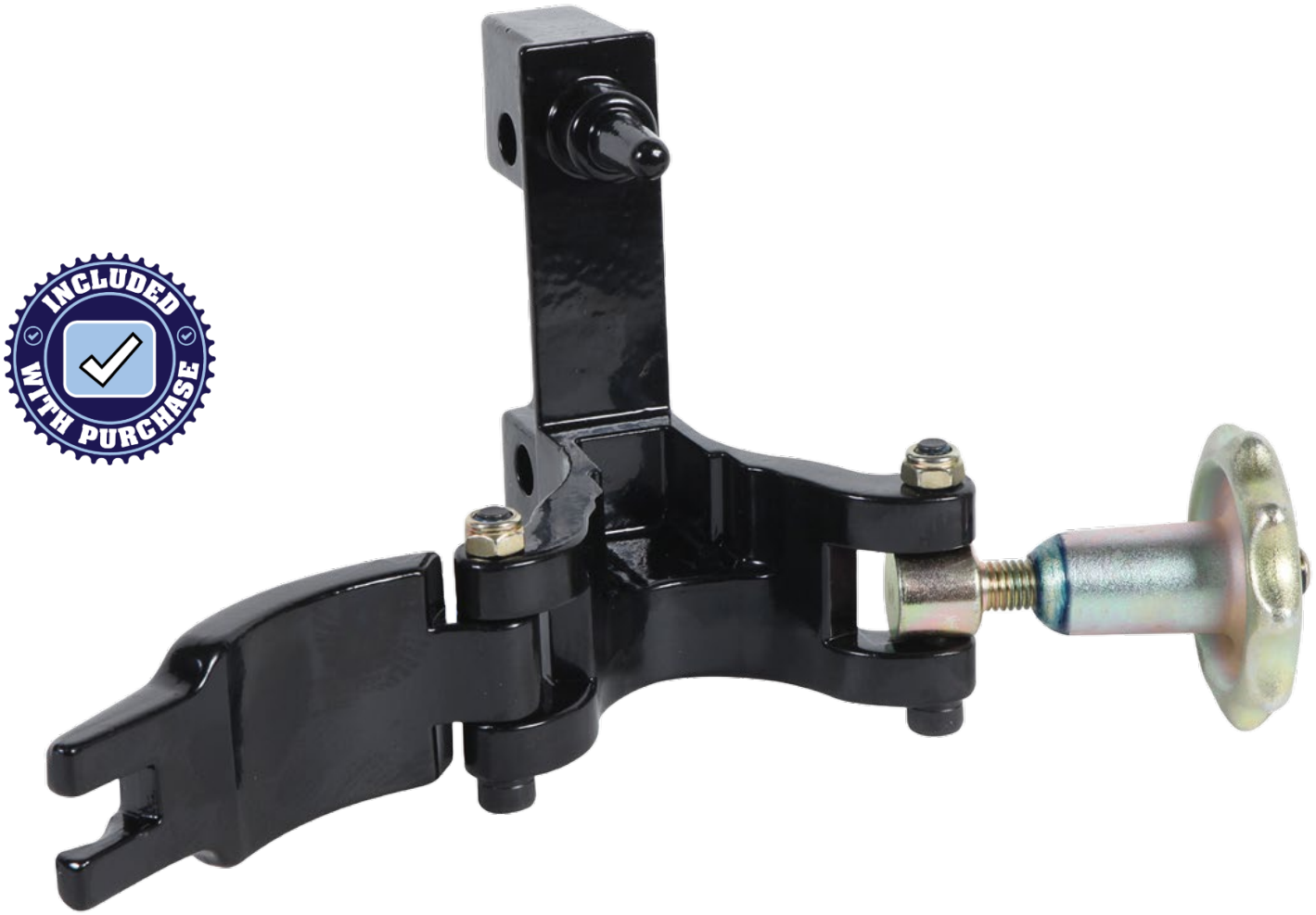
SUBARU HUB TOOL AND HANGING BRACKETS

A: SUBARU HUB HANGING TOOL (PART NO. **WSM-SHHT**)
B: PART NO. **WSM-EX2**
C: PART NO. **WSM-EX3**
D: 2x PART NO. **WSM-HB**



GATE TO MOUNT STRUT TO SPRING COMPRESSOR

PART NO. **WSM-GATE**



COMMON TOOL FOR REMOVE AND ASSEMBLY OF BEARINGS

PART NO. **WSM-C3**

CLEVIS PIN TOLL HOLDER, SUITABLE FOR COMMODORE, TOYOTA, MITSUBISHI AND MAZDA

PART NO. **WSM-HS**

ARMS TO BE USED ON SPRINGS WITH A DIAMETER LARGER THAN 6 INCHES

SOLD INDIVIDUALLY

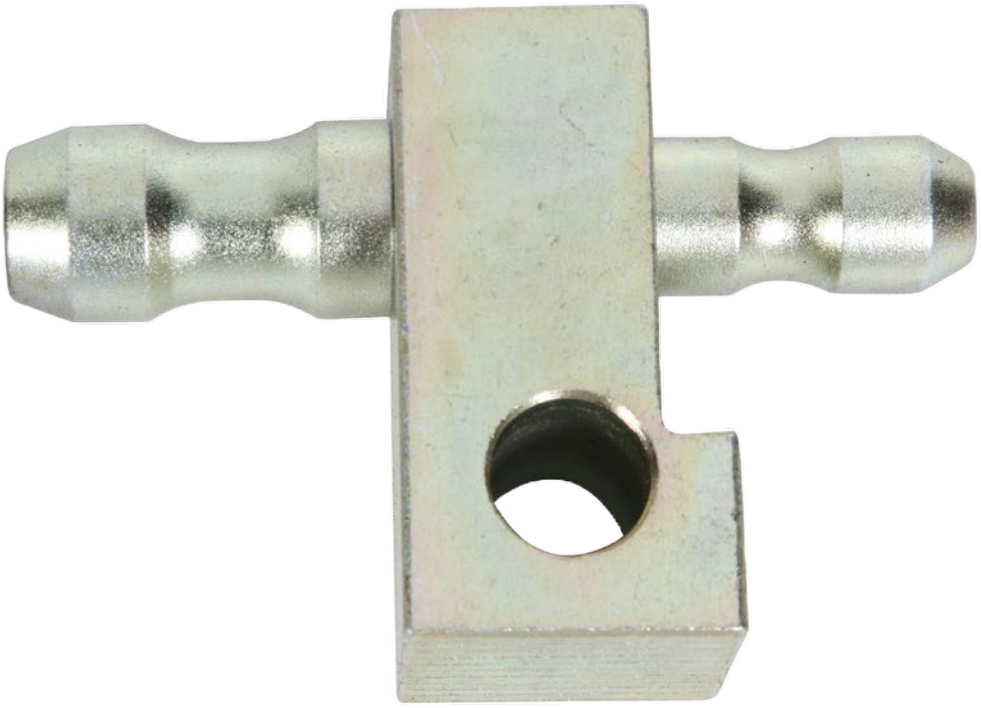
PART NO. **WSM-ARM**

CUTTER PIN HANGER FOR SOME MAZDA, TOYOTA AND NISSAN VEHICLES

A: PART NO. **WSM-HANGER**

B: PART NO. **WSM-CP12**

A



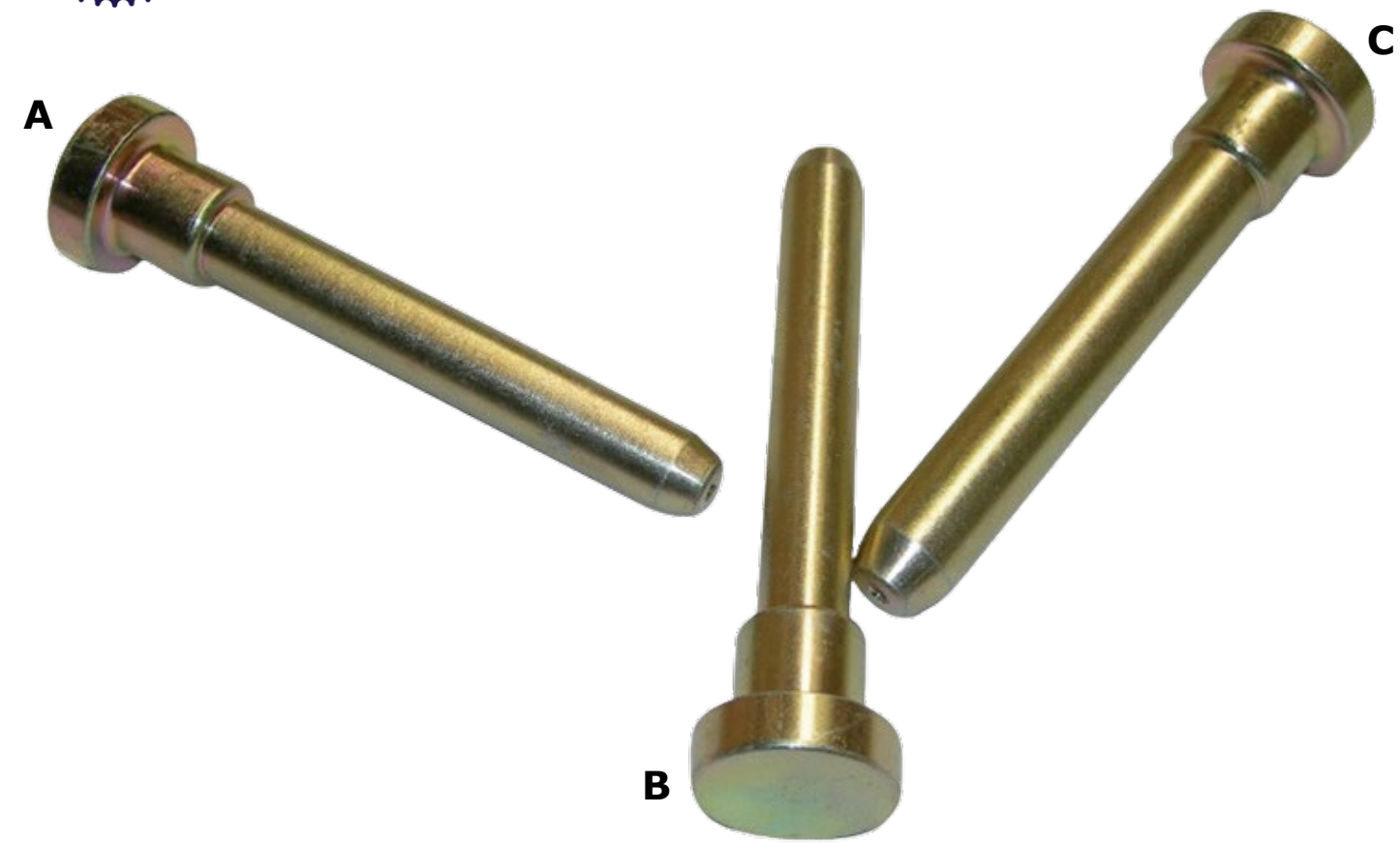
B

HONDA HUB ARM HOLDER

PART NO. **WSM-HA**

CLEVIS PINS USED WITH HUBS AND STRUTS

A: PART NO. **WSM-HP12014** (120mm OVERALL LENGTH, 14mm SHAFT DIAMETER)
B: PART NO. **WSM-HP12012** (120mm OVERALL LENGTH, 12mm SHAFT DIAMETER)
C: PART NO. **WSM-HP10014** (100mm OVERALL LENGTH, 14mm SHAFT DIAMETER)



SUBARU HUB HANGING TOOL

PART NO. **WSM-SHHT**

COMMON SIZE BUSH FOR REMOVAL AND ASSEMBLY OF BEARINGS AND BUSHES

PART NO. **WSM-AX**

RAM HUB REMOVAL DIE (B)
AND
EXTENSION FOR RAM HUB REMOVAL DIE (A)

SEE EXAMPLE ON PAGE 8

A: PART NO. **WSM-EX2**
B: PART NO. **WSM-EX3**

A

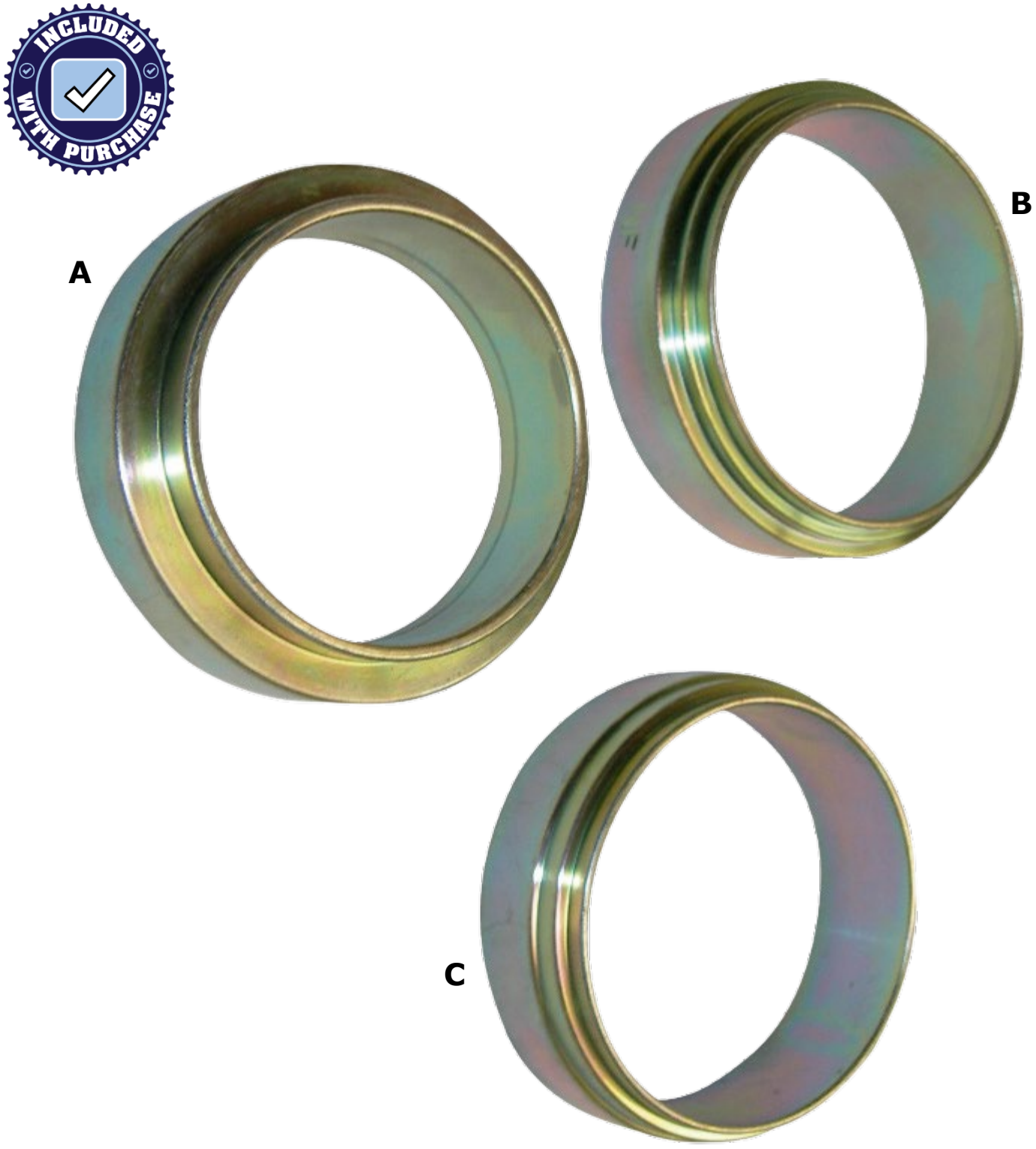
B

DIFFERENT SIZE DIES FOR ASSEMBLY AND REMOVAL OF BEARINGS AND BUSHES

A: PART NO. **WSM-LM**
B: PART NO. **WSM-HEA**

EXTENSIONS FOR REMOVAL AND ASSEMBLY OF BUSHES

A: PART NO. **WSM-PSE**
B: PART NO. **WSM-LC**
C: PART NO. **WSM-NF**



DIFFERENT SIZED BUSHES FOR REMOVAL AND ASSEMBLY OF BEARINGS AND BUSHES

A: PART NO. **WSM-SO5**
B: PART NO. **WSM-NG1**
C: PART NO. **WSM-DL2**
D: PART NO. **WSM-SM**

A

B

C

D

DIFFERENT SIZED DIES FOR REMOVAL AND ASSEMBLY OF BEARINGS AND BUSHES

A: PART NO. **WSM-EQ**
B: PART NO. **WSM-SO4N**
C: PART NO. **WSM-EL**
D: PART NO. **WSM-SO4**

USED IN CONJUNCTION WITH MAIN BASE STAND (NHU) FOR REMOVAL OR ASSEMBLY OF WHEEL BEARINGS OR BUSHES

A: PART NO. **WSM-CHI**

A

MAIN BASE STAND FOR ASSEMBLY AND DISASSEMBLY OF HUBS AND WHEEL BEARINGS

A: PART NO. **WSM-NHU**
B: PART NO. **WSM-SM1**

A

INCLUDED WITH PURCHASE

B

MULTI USE BEARING SPLITTER / BREAKER

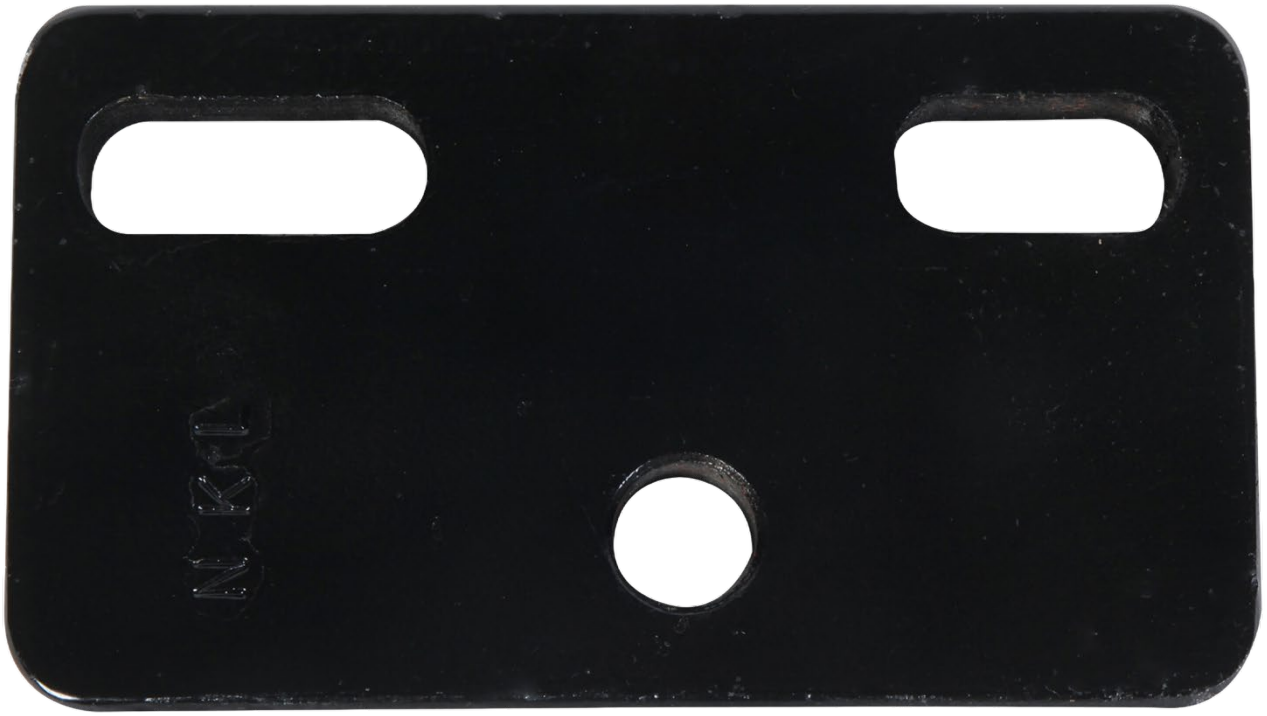
A: PART NO. **WSM-BP**

A

TOYOTA HUB HANGING TOOL

A: PART NO. **WSM-NKL**

A



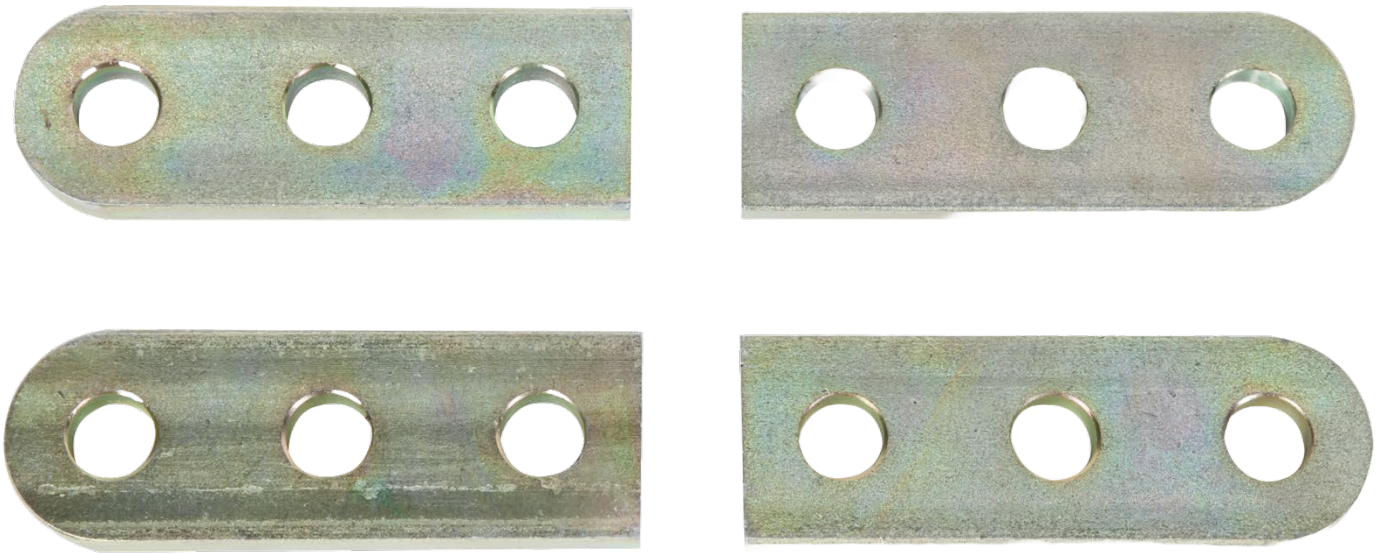
OIL FILTER CRUSHER

A: PART NO. **WSM-FLT1**
B: PART NO. **WSM-FLT2**

A **B**

HANGING BRACKETS (SOLD INDIVIDUALLY)
TO SUIT LARGER TYPE HUBS AS SHOWN ABOVE

PART NO. **WSM-HB**



GENERAL PURPOSE PRESS TOOLS

A: PART NO. **WSM-IS3**
B: PART NO. **WSM-HUB2**

A

B

AIR/HYDRAULIC FOOT PUMP (10,000 PSI)

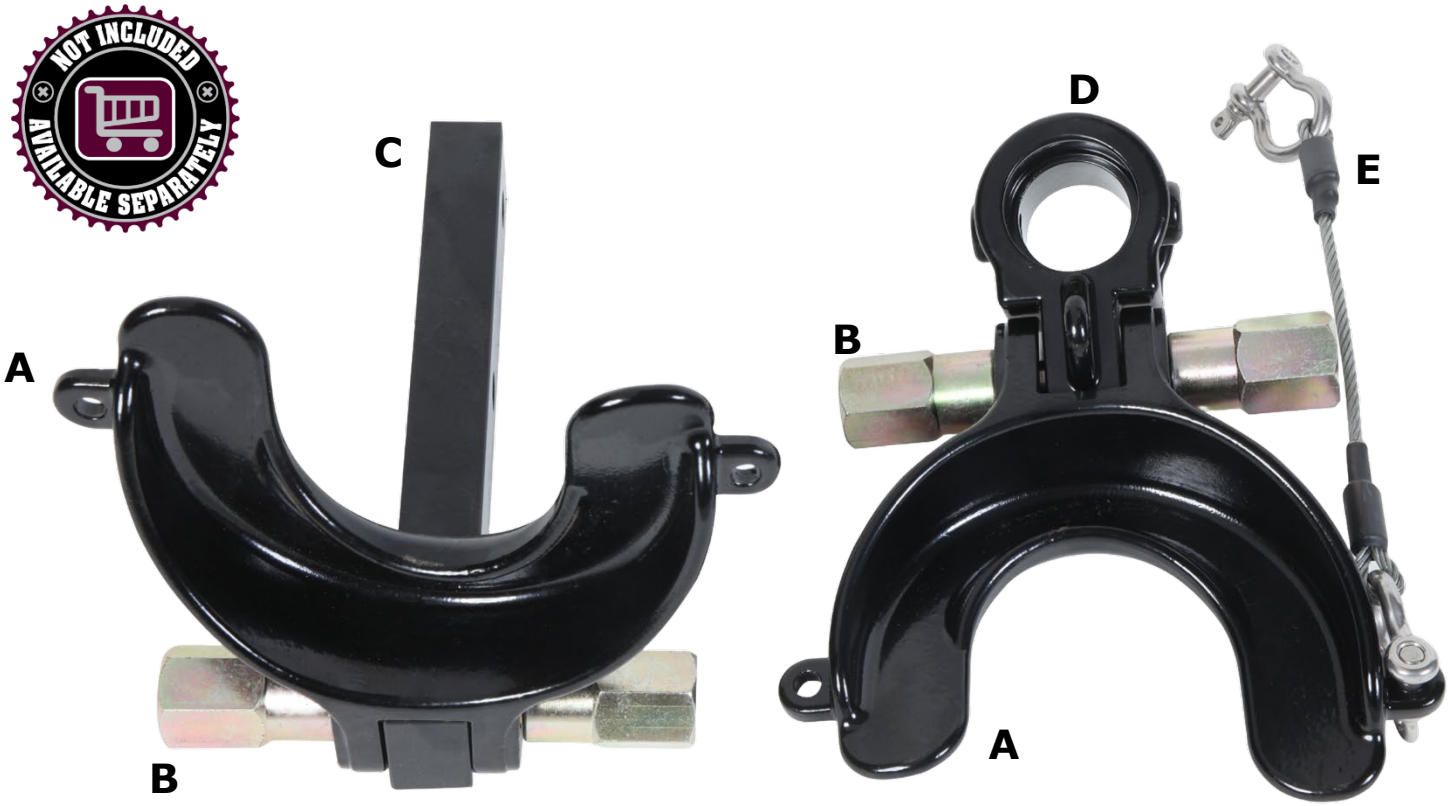
A: PART NO. **2054T**

ACCESSORY 8 INCH HORSESHOE (SOLD INVIDIDUALLY)

PART A IS NOT INCLUDED WITH THE WORKSHOP MATE

ALL OTHER ITEMS SHOWN ARE INCLUDED WITH THE WORKSHOP MATE AND AVAILABLE SEPARATELY

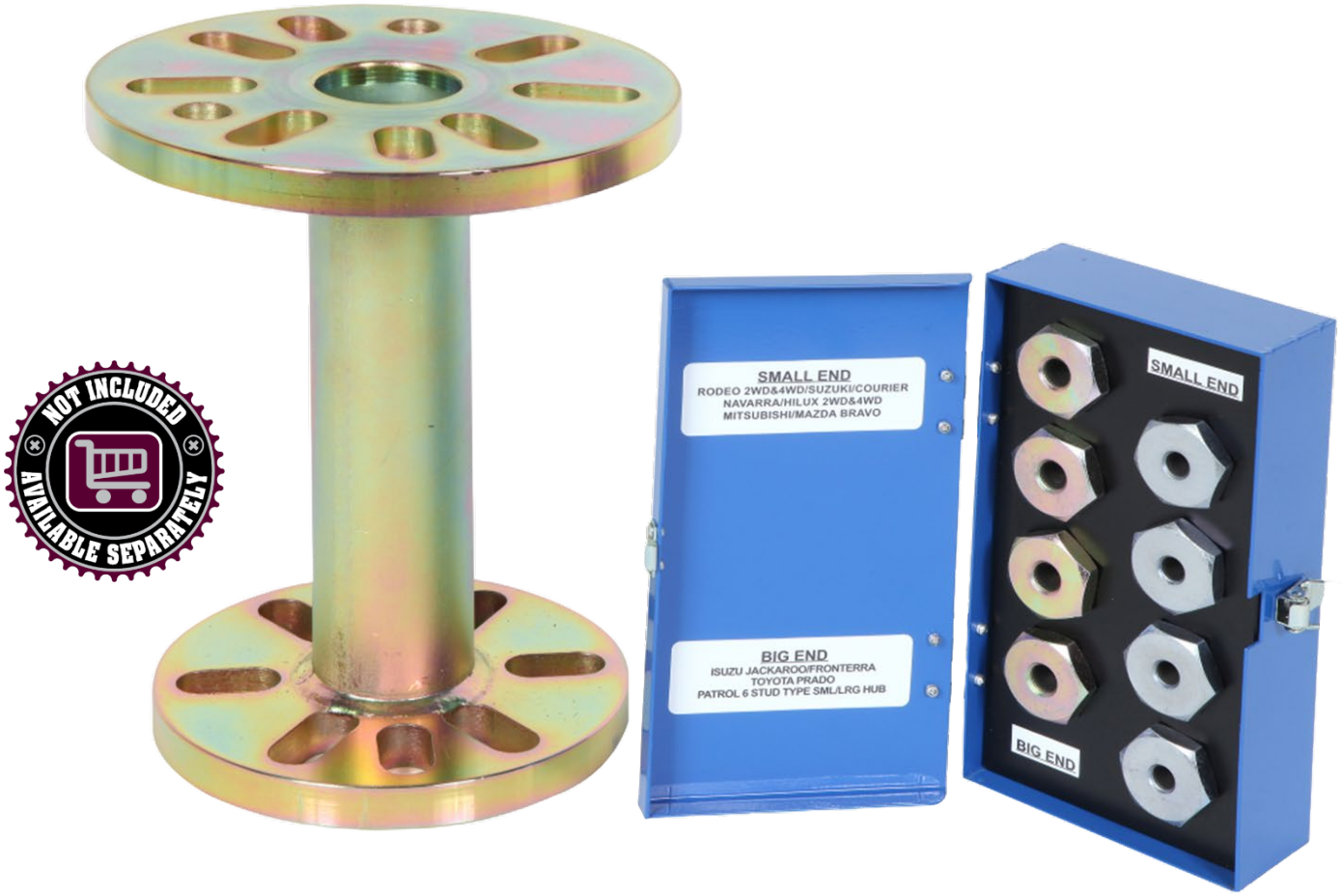
A: PART NO. **WSM-8IH**
B: PART NO. **WSM-HSB**
C: PART NO. **WSM-BHH**
D: PART NO. **WSM-COLLAR**
E: PART NO. **WSM-HSC**



REAR AXLE BEARING PULLER

SPECIALISED REAR AXLE BEARING PULLER FOR 4X4S.
SUITS MOST MODEL VEHICLES.

PART NO. **WSM-AXP**



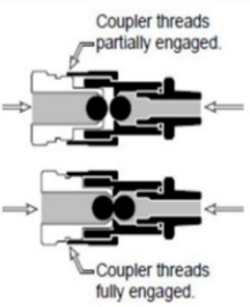
UNDERCAR PRESS DIES

A SET OF 18 HARDENED DIES TO BE USED WITH THE PRESS AND SPECIALISED UNDERCAR PORTA POWER TOOL.

SIZES
28x20x80mm, 33x25x80mm, 38x30x80mm, 43x35x80mm, 48x40x80mm
53x45x80mm, 58x50x80mm, 63x55x80mm, 68x60x80mm, 73x65x80mm,
78x70x80mm, 83x75x80mm, 88x80x80mm, 93x85x80mm, 98x90x80mm
103x95x80mm,108x100x80mm, 113x105x80mm

PART NO. **WSMP50**

TROUBLESHOOTING

Problem	Symptom	Cause	Conclusion	Solution
Ram Will Not Advance.	Pump has no resistance; ram will not advance.	Air in Hydraulic system.	Air cavitation in pump and or lift ram.	Bleed system
		Overload actuated.	Relief valve needs reset.	Contact Qualified Technician for repairs
		Ram dead ended Overload actuated.	Relief valve needs reset.	Contact Qualified Technician for repairs
Ram will not hold load.	load force cannot be sustained.	Release valve not tightly closed.	Bypass through release valve.	Contact Qualified Technician for repairs
		Damaged Main Seal	Replace main ram seals.	Contact Qualified Technician for repairs
		Main check valve obstructed.	Replace Main check valve ball and reseat valve seat.	Contact Qualified Technician for repairs
Ram will not stay retracted after load released	Ram advances after retracting.	Reservoir overfilled	Pump failure due to cavitation caused by excess reservoir level.	Bleed system
Poor pressure performance.	Pump has no resistance; ram will not extend to full stroke.	Fluid level low	Drain fluid to correct level.	Fill fluid to correct level the Bleed system
		Air trapped in system	Lift ram left extended for long period causing air ingress to hydraulic system.	With ram fully retracted, remove oil filler plug to let pressurised air escape reinstall oil filler plug, Bleed system.
		Breather closed	Vacuum build up prevents pump suction	Breather must be open during hydraulic operation.
Ram will not retract, hose and ram under pressure.	Ram will not retract when release is opened.	Coupler not tightened to fully engaged position.	Coupler loose causing one way flow only.	Tighten coupling using 2 adjustable wrenches till couplers are fully engaged to reopen two-way flow. 

WARRANTY

Workshop Mate products have been carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship for a period of 12 months from the date of purchase except where tools are hired out when the guarantee period is ninety days from the date of purchase.

Should this piece of equipment develop any fault, please return the complete tool to your nearest authorised warranty repair agent or contact TQB Brands Pty Ltd Warranty team – warranty@tqbbrands.com.au.

If upon inspection it is found that the fault occurring is due to defective materials or workmanship, repairs will be carried out free of charge. This guarantee does not apply to normal wear and tear, nor does it cover any damage caused by misuse, careless or unsafe handling, alterations, accident, or repairs attempted or made by any personnel other than the authorised TQB Brands Pty Ltd repair agent.

This guarantee applies in lieu of any other guarantee expressed or implied and variations of its terms are not authorised.

Your TQB Brands Pty Ltd guarantee is not effective unless you can produce upon request a dated receipt or invoice to verify your proof of purchase within the 12month period.

Consumer Guarantee

Our goods come with a guarantee that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

TQB Brands Pty Ltd

TRADEQUIP the trusted brand in equipment

BORUM INDUSTRIAL WORKSHOP EQUIPMENT

TQ PRO EAGLE PRO RED LABEL

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