



CHASSIS

BRAKES

BRAKE PIPE TOOLS

Flaremaster 2 – Flaring Tools

- Convenient and easy to use hand-held flaring tools
- Unique, original patented design for producing high quality pipe flares on the vehicle
- Flaring pipes on the vehicle allows for accurate repair sections following repair work or accident damage
- Fast-turn, coarse thread on hydraulic ram for quick assembly
- Locking bolt with swivel pin for fast tightening
- Enhanced bridge unit for greater strength
- Ergonomic handle moulding for greater comfort
- Available in stainless and mild steel pipe versions
- Supplied in blow moulded case
- Suitable for brake pipe sizes:
 - SAE Single and Double Flares – 3/16" and 4.75mm
 - DIN Single Flares – 4.75mm



Part No.	Description
027250	Flaremaster 2 – suits mild steel & copper
027297	Flaremaster 2 – suits mild and stainless steel

Spare Parts

Part No.	Description	Size
027251	Punch	3/16" and 4.75mm SAE Op1
027261	Punch	4.75mm DIN
027271	Punch	3/16" and 4.75mm SAE Op2
027204	Die Set	3/16" and 4.75mm DIN



Step 1 Place the pipe in the die



Step 2 Tighten the clamping nut



Step 3 Insert the punch and ram



Step 4 Turn T-Bar to create the flare

027266

Flaremaster 2-6mm Die Set Upgrade

- Designed to upgrade **027250** and **027297** Flaremaster 2 kits enabling flaring of 6mm (1/4") pipe

Contents

Part No.	Description	Size
027255	Punch	6mm SAE Op1
027262	Punch	6mm DIN
027244	Die Set	6mm SAE & DIN



027295

Flaremaster 2 – Brake Pipe Kit

- Comprehensive kit based on **027250** Flaremaster 2 for working with and manipulating mild steel brake pipe
- Contains four high quality brake pipe tools
- Enables pipe cutting, bending and flaring all with the pipe in-situ on vehicle
- Supplied in blow moulded case

Contents

Part No.	Description
027250	Flaremaster 2 (mild steel)
021600	Brake Pipe Aid Pliers
022100	Tube Cutter (3 – 32mm)
027300	Pipe Deburring Tool



270 Series Flaring Tools

- This popular flaring tool quickly and accurately produces convex and double lap flares to SAE and DIN standards on automotive brake and clutch pipes
- Features a unique 'Dial-a-Size' turret design and lever cam operation for quick flaring, see information over page
- Screw clamp for accurate die alignment and automatic punch extraction from flare provide the easiest of operation
- Five kits available to suit requirements



270 Series Flaring Tool Kit - Selection Chart

Kit Part No.	Flare Pattern	Tube Outside Diameter									
		3/16"	1/4"	5/16"	3/8"	1/2"	4.75mm	6mm	8mm	10mm	12mm
027000	SAE Convex Single	•	•	•	•		•				
	DIN Convex Single						•				
	SAE Double	•	•	•	•		•				
027001	SAE Convex Single	•					•				
	DIN Convex Single										
	SAE Double	•					•				
027002	SAE Convex Single	•					•	•	•	•	
	DIN Convex Single						•				
	SAE Double	•					•	•	•	•	
027008	SAE Convex Single	•	•	•	•	•	•	•	•	•	•
	DIN Convex Single						•				
	SAE Double	•	•	•	•	•	•	•	•	•	•
027009	SAE Convex Single	•	•				•	•			
	DIN Convex Single						•				
	SAE Double	•	•				•	•			



027000



027001



027002



027008



027009

BRAKES

BRAKE PIPE TOOLS cont.

270 Series Flaring Tools cont.

- Spare parts, replacement turret assemblies and individual punch and die component for use with 270 Series Flaring Tools
- Replacement punch and die components available individually, select from chart below

Spare Parts

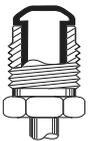
Part No.	Description
027011	Body Assembly c/w 027014 Turret Assembly
027012	Body Assembly c/w 027015 Turret Assembly
027014	Turret Assembly c/w 3/16", 1/4" & 6mm, 5/16" & 8mm, 3/8" & 10mm, 4.75mm Op1 & Op2 Punches
027015	Turret Assembly c/w 3/16" & 4.75mm Op1 & Op2 Punches
027016	Turret Assembly c/w 1/2" & 12mm Op1 & Op2 Punches
027018	Turret Assembly c/w 4.75, 6, 8, 10 & 12mm Op1 DIN Punches
027025	Die Clamp Screw c/w 'T' Bar
027027	Handle

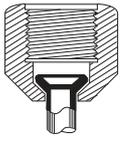


Turret Assembly

270 Series Individual Punch and Die Selection Chart

Flare Pattern	Tube O.D.	Punch Part No.	Die Set Part No.
SAE convex (single) 	3/16"	027051	027031
	1/4"	027052	027032
	5/16"	027053	027033
	3/8"	027054	027034
	1/2"	027055	027035
	6mm	027052	027042
	8mm	027053	027043
	10mm	027054	027044
	12mm	027055	027045

Flare Pattern	Tube O.D.	Punch Part No.	Die Set Part No.
DIN convex (single) 	4.75mm	027061	027041
	6mm	027062	027047
	8mm	027063	027048
	10mm	027064	027049
	12mm	027065	027050

Flare Pattern	Tube O.D.	Punch Part No.	Die Set Part No.
SAE concave (double) 	3/16"	027051	027031
		027071	
	1/4"	027052	027032
		027071	
	5/16"	027053	027033
		027072	
	3/8"	027054	027034
		027072	
	1/2"	027055	027035
		027073	
	4.75mm	027051	027031
		027071	
	6mm	027052	027042
		027071	
8mm	027053	027043	
	027072		
10mm	027054	027044	
	027072		
12mm	027055	027045	
	027073		

Pipe Aid Pliers

- Specialist pliers for manipulating and forming brake and clutch pipe
- Can also be used for fast tube nut thread alignment and as a guide when cutting tube
- Slim, compact shape allows tight bends to be made in restricted areas

Part No.	Description	Suits Pipe Size Ø
021600	Pipe Aid Plier – Single Size	4.75mm (3/16")
021650	Pipe Aid Plier – Dual Size	4.75mm (3/16"), 6.00mm (1/4")



660925

Mini Tube Cutter 3-22mm

- Designed for cutting automotive brake and clutch pipe
- Suitable for cutting aluminium, brass, copper and mild steel tubing
- Capacity: 3–22mm tube



022100

Tube Cutter 3-32mm

- Designed for cutting automotive brake and clutch pipe
- Suitable for cutting aluminium, brass, copper and mild steel tubing
- Telescopic action and grooved rollers allow cutting very close to flared pipe ends
- Features fold-away deburrer and spare cutting wheel in handle
- Capacity: 3–32mm tube
- Spare Parts: **022101** Cutter Wheel (2 pack)



027300

Pipe Deburring Tool 3-15mm

- Essential tool when preparing to flare brake pipe, to avoid the risk of swarf in the pipe
- Double ended tool ideal for the deburring of brake, clutch and fuel pipes when preparing ends for use
- Suitable for deburring aluminium, brass, copper and mild steel tubing
- Capacity: 3mm (1/8") to 15mm (5/8")



BRAKES

BRAKE PIPE TOOLS cont.

027400

Pipe Deburring Tool – Internal/External

- Professional quality deburring tool for ensuring pipe and tubing are deburred effectively before fitting
- Features retractable tip to prevent damage to cutting tip
- Provides internal and external deburring capability
- Ideal for automotive brake, clutch and fuel pipes
- Suitable for copper, brass, steel, plastic and stainless steel pipe
- Capacity: Internal 3 - 12mm, External: 4 - 14mm



025600

Pipe Bender 4.75-6mm

- Rolling action pipe bender forms bends up to 180° without causing abrasion damage to pipe surface
- Ideal for plastic or epoxy coated pipes as well as copper, brass and mild steel
- Features convenient lug on handle for bench use with a vice
- Capacity: 4.75mm (3/16") to 6mm (1/4")



024600

Adjustable Pipe Bender 4.75-10mm

- Fully adjustable tool for forming perfect bends on pipes
- Unique design allows for infinite adjustment capability for all pipe size variations within the overall range
- Hand held operation for in-situ work
- Features convenient lug on handle for bench use with a vice
- Capacity: 4.75mm (3/16") to 10mm (3/8")



023400

Brake Pipe Corrosion Tool

- Designed to allow the user to inspect brake pipes for corrosion quickly and easily
- Features two scraper areas on the tool head to remove dirt and corrosion from pipes to effectively examine the condition of the pipes



BRAKE FLUID TOOLS

335300

Brake Fluid Tester

This kit tests brake fluid types Dot 3, Dot 4 and Dot 5.1. It works by comparing the boiling point of a sample of brake fluid taken from the vehicle against expected values selected from the internal menu.

Brake fluid is hygroscopic – increased absorption of water reduces the anti-corrosive effectiveness of the fluid and can cause brake fluid to boil with potential for complete brake failure. The tester simply indicates the boiling point of the sample and tells you the acceptable lower limit for each fluid specification (Dot 3, 4, 5.1).

- 12v operation can be used from the vehicle's own supply
- Suitable for DOT 3, 4, and 5.1 with boiling points up to 320°
- LCD screen displays battery voltage, brake fluid boiling point and simple pass or fail indicator
- Supplied in protective blow moulded case



034800

Vacuum Brake Bleeder

- Convenient air operated tool provides the ability to suck out old fluid from the brake master cylinder reservoir allowing new fluid to be added and bleed through instantly
- Uses standard workshop compressed air supply
- When combined with **034811** Auto Filler Unit, turns brake and clutch system bleeding into a genuine one man operation



034811

Auto Filler Unit

- Stand-alone brake fluid container for automatic filling of brake fluid reservoirs (space permitting)
- Air tight tap ensures fluid stays "fresh" for next time
- Removes the need for a second person to stand over the reservoir and keep it topped up
- Graduated scale gives an accurate indication of fluid usage
- When combined with **034800** Vacuum Brake Bleeder, turns brake and clutch system bleeding into a genuine one man operation



Brake Bleeder

- Brake bleeder bottles with transparent hose
- Features a non-return valve ensuring air does not return into the system thus enabling one-man operation
- Available in single or dual-circuit configurations



Part No.	Type
660500	Brake Bleeder – single circuit
660501	Brake Bleeder – dual circuit

BRAKES

BRAKE FLUID TOOLS cont.

Pressure Brake Bleeder Kits

- The **034900** and **034995** Pressure Brake Bleeders have been specifically designed to provide a ONE man operated tool for use in bleeding hydraulically operated automotive brake and clutch systems including anti-lock braking systems
- Convenient 12v power supply via red and black power cable to car battery
- Internal motor cuts in and out automatically to maintain optimal pressure during system bleeding
- System fluid level in the vehicle reservoir is automatically maintained during the bleeding process and upon completion via the bleeder unit reservoir
- Portable machine weighing only 4kgs making it ideal for the mobile mechanic or manoeuvring in a busy workshop
- Supplied with 60ml syringe for reservoir refill in restricted areas, 1000ml drain bottle designed with push-on bleed nipple connector and hanging chain for mess-free bleeding
- Offered in 'Euro' and 'Master' kit configurations
- Available reservoir cap adaptors
 - Modern European vehicle adaptor – M46 thread
 - Modern Korean vehicle cap adaptor – 50.7mm ID, 57mm OD
 - Multi-vehicle round adaptor – suits vehicles with round reservoir neck up to 85mm dia.
- Not suitable for mineral based brake fluids

Specifications – Bleeder Unit

Power	12 Volt
Fluid Capacity	1.25L
Hose Length	1.8m
Cable Length	2.4m
Operating Pressure	1-1.25 bar (14-20 psi)



034901

Part No.	Description	Specification	Kit Part No.	
			Euro	Master
034901	Brake Bleeder Unit	12volt	●	●
034980	European Screw Cap Adaptor	M46 thread	●	●
034992	Korean Cap Adaptor	50.7mm (ID), 57mm (OD)	–	●
034985	Drain Bottle	1000ml	●	●
034986	Syringe	60ml	●	●
034990	Multi-vehicle Round Adaptor	85mm Dia.	–	●
034982	Plastic Storage Accessory Case	–	–	●



034982



034980



034992



034990



034985



034986

034991

Oval Adaptor – Pressure Brake Bleed

- Multi-vehicle oval adaptor for use with **034900** or **034995** Pressure Brake Bleeder unit
- Suits vehicles with oval reservoir neck up to 65 x 120mm
- Ideal for Australian Falcon, Commodore



034991

BRAKE PAD AND DISC TOOLS

036130

Universal Brake Caliper Windback Tool

- Unique, universal 2 pin adjustable adaptor designed for caliper piston windback applications
- Features a 3/8" square drive for use with ratchet



Pin Dia. Ø	Min Pin Spread	Max Pin Spread
4mm	15mm	34mm

Brake Caliper Windback Kits

- Universal and applied kits designed for brake caliper piston windback operation
- Features right hand and left hand windback thread to support both application types
- Supplied with **036130** Universal Brake Caliper Windback Tool
- Available in three configured kits
 - Universal starter kit – 4pc
 - Universal/Euro kit – 7pc
 - Master kit includes application list – 15pc



036150

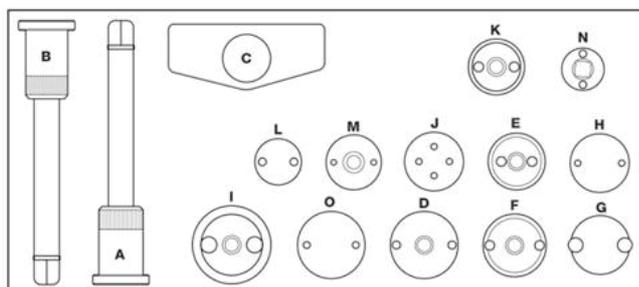


036155



036192

Contents			Kit Part No.		
			Standard	Euro	Master
Part No.	Description	Identifier	036150	036155	036192
036130	Universal Caliper Windback Tool		•	•	•
036190	RH Body & Screw	A	•	•	•
036191	LH Body & Screw	B	•	•	•
036103	Reaction Strap	C	•	•	•
036105	Drive Adaptor No. 1	D	-	•	•
036108	Drive Adaptor No. 2	E	-	-	•
036118	Drive Adaptor No. 4	F	-	-	•
036111	Drive Adaptor No. 11	G	-	•	•
036122	Drive Adaptor No. 14	H	-	-	•
036115	Drive Adaptor No. 15	I	-	•	•
036116	Drive Adaptor No. 16	J	-	-	•
036117	Drive Adaptor No. 17	K	-	-	•
036106	Drive Adaptor No. 18	L	-	-	•
036119	Drive Adaptor No. 19	M	-	-	•
036123	Drive Adaptor No. 23	N	-	-	•
036125	Drive Adaptor No. 25	O	-	-	•
036113	Drive Adaptor - 12mm		Available separately		



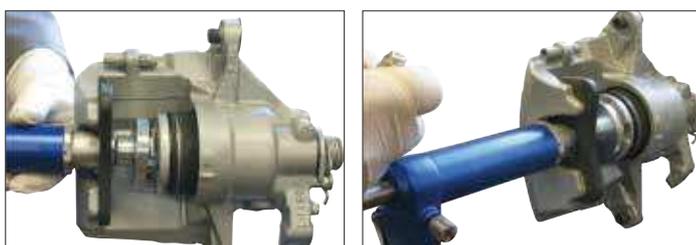
BRAKES

BRAKE PAD AND DISC TOOLS cont.

036198

Air Assisted Caliper Piston Windback Tool

- Uses existing workshop compressed air applied to ram while rotating the handle to return the caliper piston with very little effort
- Suitable for both left hand and right hand screw applications
- Supplied with **036108** Drive Adaptor to cover a wide range of popular vehicle applications
- Full range of additional specialist adaptors available (ref: **036194** below)
- 3/8" square drive



036194

Slimline Adaptor Set

- Set of seven special slimline adaptors for use with **036198** Air Assisted Windback Tool
- Special slimline design allows access where conventional wind back adaptors cannot fit
- Can also be used with conventional windback tools



076101

Brake Disc Run Out Set (Magnetic Base & DTI Gauge)

- Used for measuring disc run-out
- Powerful magnetic clamp with on/off lever for easy removal from surfaces
- Flat and 'V' shaped base can be used on both flat and round surfaces
- Simple and accessible fine adjuster for easy and precise settings

Contents

Part No.	Description
077120	High Quality DTI Gauge with floating scale
076100	Universal Magnetic Clamp for DTI with fine adjustment



660650

Hydraulic Hose Clamp

- Clamps brake and fuel hoses to allow brake/clutch slave cylinders to be disconnected or removed with minimum fluid loss



040101

Impact Driver Set

- For use with a medium weight hammer to loosen stubborn screws and nuts
- Ideal for removal of brake drum screws and door hinge brackets
- Supplied with a range of interchangeable bits

Contents

Part No.	Description	Size	Length (mm)
670650	Slotted Blade	5/16"	36
670652	Slotted Blade	3/8"	36
670654	Slotted Blade	1/2"	36
670660	X Point	No. 1	36
670662	X Point	No. 2	36
670664	X Point	No. 3	36
670666	X Point	No. 4	36
670512	Hex Bit	5mm	36
670514	Hex Bit	6mm	36
670518	Hex Bit	10mm	36
670596	Torx Bit	T30	36
670598	Torx Bit	T40	36
670600	Torx Bit	T45	36
670602	Torx Bit	T50	36



STEERING AND SUSPENSION

SPRING COMPRESSORS & STRUT

Coil Spring Compressors – Screw Type

- Designed with 'Tri Hook' configuration for the safe and efficient compression of coil springs on passenger and light commercial vehicles
- Features locking screw on threaded jaw to prevent slippage when under considerable load
- Enables fast tightening and releasing via Acme threaded screws
- Available in twin or triple pack
- 24mm hex nut drive

Part No.	Description	Max Operating Range	Safe Working Load (combined)
083800	Coil Spring Compressor – Twin Pack	270mm	9000N
083805	Coil Spring Compressor – Triple Pack	270mm	9000N



083900

Coil Spring Compressor – Vice Mounted

- Design for superior operation and safety when working with automotive coil springs
- Sykes-Pickavant unique 'tools for life' design supported by an extensive range of options and spare parts
- Features double ended 24mm hex drive which can be operated from either end for ease of use
- Both 24mm hex nut drives incorporate shear pins for safety
- Can be safely unwound in the event of shear pin failure
- Enables fast tightening and releasing via heat treated, self-lubricating Acme threaded screw
- Designed to suit most applications in the market via two sets of universal jaws
- Vice mount or on vehicle use
- Not recommended for use with impact gun



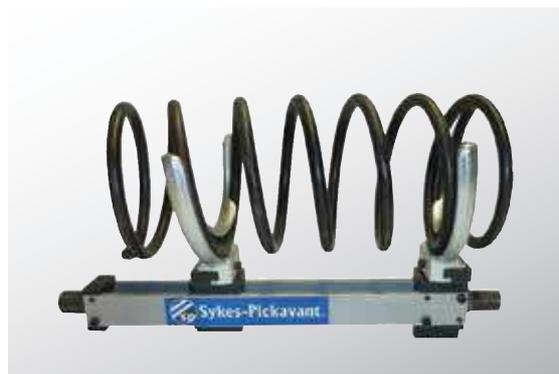
Specifications

Max Operating Range	Safe Working Load	Jaw Diameter Ø	
		Medium Jaws	Large Jaws
330mm	15000N	110-150mm	140-195mm

Contents

Part No.	Description	Specifications
083902	Medium Jaw – single	110-150mm
083903	Large Jaw – single	140-195mm
083917	Main Screw	–
083921	Main Nut – 2 pack	–
083924	Shear Pins – 6 pack	–
083930	Thrust Bearing	–
083931	Jaw Retaining Screw – 4 pack	M6 x 1.0
083932	Jaw Retaining Screw – 2 pack*	M10 x 1.5

* For use with 08400 Series Optional Jaws



STEERING AND SUSPENSION

Jaw Sets

- Optional specialist jaws for use with **083900** Coil Spring Compressor
- Supplied as singles and can be adapted for use on tapered coil springs
- Two sizes available

Part No.	Description	Size
083901	Small Jaw	80-150mm
083904	Extra Large Jaw	180-240mm



Jaw Covers

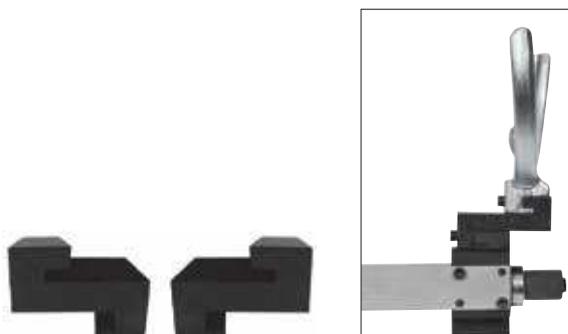
- Optional jaw covers for use with **083900** Coil Spring Compressor
- Available for small, medium and large jaw sizes

Part No.	Description
083911	Small Jaw Cover
083912	Medium Jaw Cover
083913	Large Jaw Cover

**083905**

Adaptor Kit

- Designed as add-on kit for use with **083900** Coil Spring Compressor
- Features spacer blocks and extensions
- Spacer block raises jaw height at one end to enable ease of use with asymmetric / tapered coil springs
- Each extension block will increase the overall operating range by 40mm (80mm total) to allow for extra-long strut assemblies

**083915**

Safety Cage

- Bench mounted safety cage designed for use with **083900** Coil Spring Compressor
- Roll-back screen mechanism provides easy access for location of coil spring compressor and coil spring
- Positive locking latch mechanism holds screen securely in place
- The screen covers the working area of the compressor when in operation
- Unit does not restrict vision while working on coil spring or strut assembly
- Robust design provides protection against personal injury should the spring break, or become dislodged under load
- A must for every workshop



STEERING AND SUSPENSION

SPRING COMPRESSORS & STRUT cont.

084500

Coil Spring Compressor – Internal

- Specially designed for vehicles fitted with front and rear wishbone suspension
- Designed to fit applications where the access hole in the lower wishbone is as small as 30mm diameter
- Supplied with two pairs of specialist jaws
 - Small jaws 90-120mm
 - Large jaws 120-140mm
- Unique torque stick extends functionality and adds safety
 - 100 Nm max torque
 - 1/2" square drive
 - Suitable for impact wrench usage
- TUV approved
- Supplied in storage case with full instructions and vehicle applications
- Applications - the Internal Coil Spring Compressor fits a wide variety of vehicles with wishbone suspension including:
 - BMW / Citroen / Chrysler / Ford / Honda / Hyundai / Kia /
 - Mazda / Mercedes / Mitsubishi / Peugeot / Renault / Seat / Skoda /
 - Suzuki / Toyota / Volvo / VW



Specifications

Maximum Load	2,500 kg (25,000 Nm)
Minimum Distance	96mm
Maximum Distance	220mm
Maximum Travel	124mm
Torque Stick Limit	10 kg (100 Nm)
Dimension Body (D x L)	Ø 29 x 225-280mm
Dimension Torque Stick (D x L)	Ø 27 x 180mm
Body Weight	0.64 kg
Torque Stick Weight	0.26 kg

Spare Parts

Part No.	Description
084505	Torque Stick (Safety Key) 100Nm
084515	Jaws 90 – 120mm (Set of 2)
084519	Jaws 120 – 140mm (Set of 2)
084501	Body Assembly

Application List

Vehicle Make & Model	Year	Jaw Part No.		
		Front	Rear	
BMW	1-series E87	07 -	–	084515
	2-series E90	07 -	–	084515
	3-series E91	07 -	–	084515
Citroen	C1	06 -	–	084515
	C3	03 -	–	084515
	C4	06 -	–	084515
	C8	03 -	–	084519
Chevrolet	Kalos	07 -	–	084515
Chrysler	300C	07 -	–	084515
Ford	Fiesta	02 -	–	084515
	Focus C-Max	03 -	–	084515
	Focus	07 -	–	084515
	Fusion	03 -	–	084519
Honda	Civic/Stream	07 -	–	084519
Hyundai	Getz	02 -	–	084515
	i 30	07 -	–	084515
	Sonata	01 -	–	084515
Kia	Carens, Ceed	07 -	–	084515
	Picanto	07 -	–	084515
	Rio	07 -	–	084519
Mercedes	C-CLASS W202	93-00	084515	–
	CL W140	93-99	084515	–
	CLK W209	03 -	–	084515
	E-CLASS W124	93-95	084515	–
	E-CLASS W211	02 -	–	084519
	M-CLASS	06 -	084515	–
	S-CLASS W116	73-80	084519	–
	S-CLASS W126	80-91	084515	–
	S-CLASS W140	91-98	084515	–
	W107, W114, W115, W123, W129, W201		084519	–
	Mazda	Mazda 2, 5	07 -	–
Mazda 3		03 -	–	084515
CX 7		08 -	–	084515
Mitsubishi	Colt	07 -	–	084515
	Pajero	07 -	–	084515
Peugeot	107	07 -	–	084515
	207	07 -	–	084519
	307	07 -	–	084515
	807	08 -	–	084519
	1007	07 -	–	084515
	308, 4007	08 -	–	084515
Renault	Traffic	07 -	–	084515
Seat	Cordoba	93 -	–	084515
	Ibiza	96 -	–	084515
Skoda	Fabia, Roomster, Octavia Scout	07 -	–	084515
	Octavia	01 -	–	084515
	Roomster Scout	08 -	–	084515
Suzuki	Swift, SX 4	07 -	–	084515
	Vitara	07 -	–	084515
Toyota	Auris	08 -	–	084519
	Aygo	07 -	–	084515
	Yaris	07 -	–	084519
Volvo	C 30, C 70, S 40	07 -	–	084515
	S 60	03 -	–	084519
	V 50	07 -	–	084515
	V 70, XC 90	07 -	–	084519
VW	Beetle, Fox, Polo	07 -	–	084515
	Touran	03 -	–	084515

STEERING AND SUSPENSION

084875

MacPherson Strut Controller

- Allows control over the strip down and re-assembly of shock absorbers fitted with internal rebound stop springs
- Ensures safe retaining of the piston rod in extended position
- Universal clamp features non-marking nylon jaws which clamp over the piston rod and stop it from being drawn back into the strut
- Telescopic handle and bearing assembly allow for correct assembly of new piston
- Supplied in protective foam padded case



084876

Universal MacPherson Strut Clamp

- Universal clamp features non-marking nylon jaws which clamp over the piston rod and stop it from being drawn back into the strut



STEERING AND SUSPENSION

SPRING COMPRESSORS & STRUT cont.

084800

MacPherson Strut Lifter

- Designed to quickly and safely lift bridge type MacPherson Struts (where the hub can be separated from the strut) without the removal of the ball joint and drive shaft
- Operates by exerting an upward force controlled by a hydraulic transmission jack through the strut, thereby constricting the spring. As the strut is forced upwards the hub and the rest of the suspension can be separated for improved access
- Suitable for front suspension bridge type MacPherson Struts on vehicles such as Peugeot 206, Citroen C3 and new Mini
- Makes suspension work quicker and easier when cars are raised on two post ramps or wheel-free lifts
- Mounts onto the top of a standard hydraulic transmission jack
- Fits both 24 and 30mm diameter transmission jack pistons
- Adjustable top frame allows for secure fixing onto the strut to be lifted
- Tool is left and right handed allowing easy mounting and adjustments in size to fit various vehicle requirements



084850

Hub & Knuckle Clamp Spreader

- Spreads the steering knuckle to enable safe removal and assists re-assembly of shock absorbers, without risk of damage to the knuckle
- Adjustable - use with knuckles which have either a centralised or non-centralised slot
- Suitable for use on both single and twin knuckles:
 - Single knuckles as found on a wide range of vehicle models
 - Twin knuckles as found on modern VAG models
- Ideal companion product when using **084800** MacPherson Strut Lifter in order to release the lower end of the strut from the suspension arm



STEERING AND SUSPENSION

BALL JOINT SEPARATORS

080500

Ball Joint Separator – 4 Way Adjustable

- Designed to enable ball joint removal on a wide range of passenger and light commercial vehicle applications
- Unique adjustable design provides four jaw opening configurations via the quick release central pin and reversible lever
- Features tapered, slim jaw fork for tight access applications
- Tough black epoxy coating

Jaw Opening	Throat Depth	Overall Length
24, 30, 40, 45mm	30mm	158mm



CHASSIS

660550

Ball Joint Separator

- Simple and specific tool for ball joint removal
- Ideal for one-size efficient use on passenger vehicles and some light commercials

Jaw Opening	Throat Depth	Throat Width
45mm	30mm	19mm



660310

Ball Joint Separator – Direct Action

- Simple ball joint removal tool applies direct force to ball joint screw
- Suitable for most popular passenger vehicle applications

Jaw Opening	Throat Depth	Throat Depth
50mm	19mm	20mm



STEERING AND SUSPENSION

BALL JOINT SEPARATORS cont.

Ball Joint Separator – HGV

- Enables ball joint separation and removal on heavy goods vehicles
- Heavy duty manufacture with strengthened lever and fork allowing for greater force to be applied
- Manufactured from alloy steel SCM 440
- Available in mechanical screw or hydraulic (8 tonne ram) configurations
- Hydraulic upgrade kit available for customers who previously purchased the mechanical screw unit **080750** Hydraulic Upgrade Kit

Part No.	Description	Jaw Opening	Throat Width	Throat Depth
080700	Ball Joint Separator – Mechanical Screw	70mm	36mm	50mm
180700	Ball Joint Separator – Hydraulic	70mm	36mm	50mm
080750	Hydraulic Upgrade Kit			



Ball Joint Separator – Fork Type

- Effective and simple ball joint separation and removal
- Durable drop forged steel design enables hammer strike operation
- Suitable for passenger and light commercial applications
- Available in short and long lengths

Part No.	Throat Width	Throat Depth	Overall Length
660490	19mm	69mm	195mm
080600	18mm	88mm	420mm



050500

Impact Pitman/Drop Arm Puller

- Heavy duty puller for the removal of Pitman/drop arms from the toughest of vehicle applications
- Suits Land Rover Discovery 1 & 2, Range Rover P38, Land Rover Defender and Ford Transit
- The puller is designed to be used with the steering box already removed from the vehicle
- Includes an impact force screw allowing the technician to effectively shock the Pitman/drop arm loose from the steering box
- Spare Parts -
127311 Impact Forcing Screw
082519 Shock Handle

Puller Spread Max	Puller Reach Max
60mm	80mm



HUB PULLERS & BEARING TOOLS

Fixed Plate Hub Puller Kits – Car, LCV

- Fix Plate Hub Puller for cars and light commercials, featuring **085308** Hub Puller Plate which has been specially designed to meet the application requirements of modern vehicles
- Features a specially enlarged central dome to accommodate larger wheel hub caps (eg. Ford Focus) as found on many modern vehicles
- Designed with an extended spread pattern, to accommodate up to 160mm stud circle diameters
- Available in three configurations depending on the user requirements
 - Mechanical with converter and forcing screw
 - Hydraulic with 1500 Series 8 tonne hydraulic ram
 - Slide Hammer with converter and 1.6kg slide hammer unit
- Option to add additional components

Specifications – Hub Puller Plate

Hub Centre Diameter	70mm
Hub Centre Depth	65mm
Min. Pitch Circle Dia.	100mm
Max. Pitch Circle Dia.	160mm
Centre Hole Screw Thread	1½" x 16 Tpi



085308



085300
Mechanical
Puller

Part No.	Description	Specification	Kit Part No.		
			Mechanical	Hydraulic	Slide Hammer
085308	Hub Puller Plate	See table above	085300	085316	085306
085312	Hub Puller Plate Mechanical Converter	1½" x 16 Tpi (Ext. Thread) 5/8" UNF (Int. Thread)	1	-	1
085311	Mechanical Forcing Screw	5/8" UNF x 4" 24mm Hex Drive	1	-	-
085307	Slide Hammer	5/8" UNF, 1.6kg	-	-	1
150000	Hydraulic Ram	8 Tonne force	-	1	-



085316
Hydraulic
Puller



085306
Slide Hammer
Hub Puller

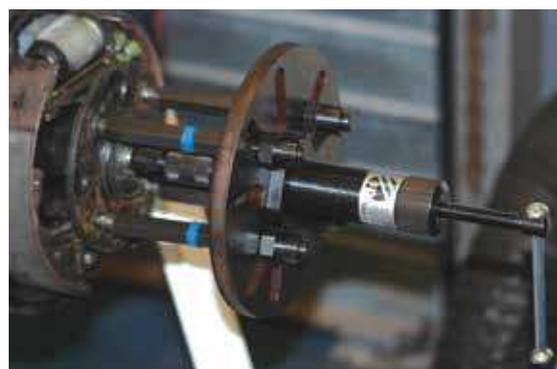
STEERING AND SUSPENSION

HUB PULLERS & BEARING TOOLS cont.

Fixed Plate Hub Puller Kits – Heavy Duty

- Two universal Fixed Plate Hub Puller Kits designed for cars and light commercials where a heavy duty tool is required
- Featuring **185001** Hub Puller Plate designed with pitch circle of 90 – 170mm to meet a wide range of modern applications
- Comprehensive range of colour coded extended nuts and studs provide clearance for modern hub caps and bearings
- Stud and vehicle application chart provided
- Available in slide hammer (4.5kg) or hydraulic ram (8 tonne) configurations

Part No.	Description	Specifications	Effective Length	Kit Part No.	
				Hydraulic	Slide Hammer
085309	Heavy Duty Slide Hammer	4.5kg	–		1
150000	1500 Series Hydraulic Ram	8 Tonne	–	1	–
152422	Ram Extension	–	2"	1	–
185001	Hub Puller Plate	–	–	1	1
185002	Ram Convertor c/w Locking Nut	–	–	1	1
185004	Shoulder Nuts	–	–	4	3
185007	Stud	M14 X 1.5	100mm	4	3
185008	Extended Nut	M12 X 1.25	100mm	4	–
185009	Extended Nut	M12 X 1.5	100mm	4	3
185010	Extended Nut	M16 x 1.5	100mm	–	3
185011	Stud	M18 x 1.5	100mm	–	3
185019	Stud	M14 x 2.0	100mm	–	3
185021	Stud – double ended	M12 x 1.25 & M12 x 1.5	100mm	4	3



082545

Hub & Front Wheel Bearing Removal Kit – Ford Transit

- Specialist slide hammer tool kit designed to provide three hub and bearing pulling solutions in one
 - Traditional hub pulling
 - Reverse slide hammer for outer race bearing pulling
 - Effective inner race bearing pulling
- Features dual action, heavy duty slide hammer which operates in two directions to achieve multiple operations
- Suits Ford Transit Mk6 & Mk7 hub and front wheel bearing removal
- Bearing separator capacity: 20-105mm
- Slide Hammer:
 - Weight: 5.7kg
 - Length: 800mm

Spare Parts

Part No.	Description
082545-01	Nut & Washer pack
082545-02	Ring (1)
082545-03	Legs (5) includes nuts pack
095100	Bearing Separator Assembly



CHASSIS



Hub Removal



Outer Bearing Removal



Inner Bearing Removal

STEERING AND SUSPENSION

HUB PULLERS & BEARING TOOLS cont.

Adjustable Hub Pullers – Car, LCV

- Comprehensive range of mechanical and hydraulic hub pullers to suit passenger and light commercial vehicles
- Manufactured with free moving legs mounted on a floating plunger enables quick and easy attachment to vehicle hubs
- 3 or 5 leg configurations provide up to 203mm of spread with a hole size suitable for studs up to 15.8mm in diameter
- Available as a combined kit or with a choice of:
 - Heavy duty hammer type handle for shock force use, or
 - 1500 series hydraulic ram for smooth, progressive force up to 8 tonne
- All configurations feature a fine pitch outer thread for micro adjustment
- Manufactured from heat treated, drop forged steel
- Option to add additional legs



Contents	Part No.	Description	Length (mm)	Kit Part No.				
				Mechanical	Mechanical	Hydraulic	Hydraulic	Mechanical & Hydraulic
				082503	082505	127303	127305	127306
	082514	Leg	158	3	5	3	5	5
	127311	Force Screw	285	1	1	–	–	1
	082519	Shock Handle	203	1	1	–	–	1
	127312	Plunger Body	100 Dia.	1	1	1	1	1
	150000	Hydraulic Ram	–	–	–	1	1	1
	152422	Ram Extension	50	–	–	1	1	1



Adjustable Hub Pullers – Commercial Vehicle

- Specially designed free moving legs provide up to 305mm of spread with hole size suitable for studs up to 22mm in diameter
- Heavy duty hammer type handle with fine pitch force screw allows for use of shock force for tight and troublesome applications
- Manufactured from heat treated, drop forged steel
- Available in 3 and 6 leg configurations
- Option to add additional legs or upgrade to hydraulic style

- 082214 Leg (1)
- 150000 1500 Series Hydraulic Ram
- 152422 Ram Extension (50mm)

Contents	Part No.	Description	Length (mm)	Kit Part No.	
				082203	082206
	082214	Leg	211	3	6
	127311	Force Screw	285	1	1
	082519	Shock Handle	203	1	1
	082212	Plunger Body	152 Dia.	1	1



STEERING AND SUSPENSION

085309

Slide Hammer

- Heavy duty 4.5kg slide hammer can be used with the full range of Sykes-Pickavant hub pullers to remove hubs and half shafts quickly and efficiently

**Specifications**

Description	Length (mm)	Stud Hole Diameter	Thread	Hammer Weight
Hammer	165	100		4.5kg
Shaft	838	–	M20 x 2.5	–
Adaptor	40	–	M20 (int.), 1 1/2 whit (ext.)	–

081000

Universal Bearing Ring Puller

- Universal tool for the removal of bearings, races and sleeves
- Patented design with unique jaws removes the need for cutting tools and greatly reduces time required
- Legs cut and are pressed into the radius behind the ring as force is applied evenly
- Suitable for bearings / rings 40 – 60mm



084850

Hub & Knuckle Clamp Spreader

- Spreads the steering knuckle to enable safe removal and assists re-assembly of shock absorbers, without risk of damage to the knuckle
- Adjustable - use with knuckles which have either a centralised, or non-centralised slot
- Suitable for use on both single and twin knuckles:
 - Single knuckles as found on a wide range of vehicle models
 - Twin knuckles as found on modern VAG models
- Ideal companion product when using **084800** MacPherson Strut Lifter in order to release the lower end of the strut from the suspension arm



STEERING AND SUSPENSION

HUB PULLERS & BEARING TOOLS cont.

Hydraulic Truck Wheel and Hub Puller

- This unique wheel and hub removal solution has been specifically developed for the truck servicing and repair industry
- 12 Tonne hydraulic pump with a series of unique chains and attachments provide the ability to remove truck wheels and hubs which have become seized over time due to road grime and general operation
- Supplied in a durable metal case for convenient storage or secure transportation
- The metal case can be fixed to the mobile trolley attachment which is ideal for rapid workshop use
- Available in three configurations to cater for varying customer requirements, repair centres and mobile workshops



Wheel Pulling

- Designed for the removal of 10 stud 22.5" HGV wheels and associated axle hubs
- Suitable for pulling inner and outer wheels on twin or single wheel hubs
- Equal load distribution is achieved via 4 high strength chains allowing 2, 3 or 4 point pulling
- Hook system incorporates four hook types designed for internal and external pulling applications
- Plastic coated hook set provides protection for use on alloy and polished wheels
- Centre spigot frame assembly features two ring sizes and covers most popular applications
 - 281mm centre hole dia.
 - 221mm centre hole dia.
- Locates on the spigot lugs on the hub or can push against hub cover bolt heads
- Reversible beam to provide extra adjustment

Hub Pulling

- Contains a set of four shorter chains for close proximity to hub
- Four eyelet hooks designed specifically to attach to the hub wheel studs
- Ram nose piece applies force to the end of stub axle
- Two nose extension pieces to suit various hub configurations



208760 Hub Puller Add-on Kit



Pusher Cage and Ring



Aluminium Rim - Hooks



Steel Rim - Hooks



Hub Puller - Hooks