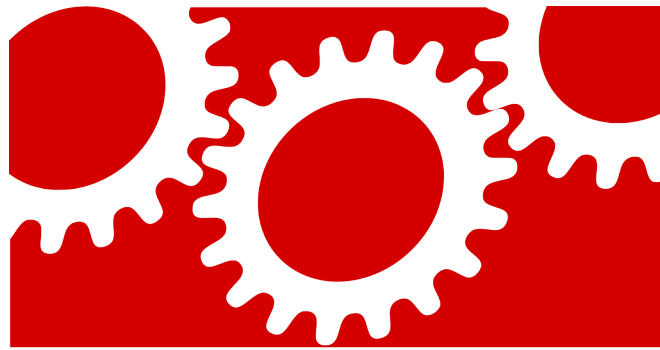




CLIFTONAUTO

ELECTRICAL PARTS & DIESEL SERVICES



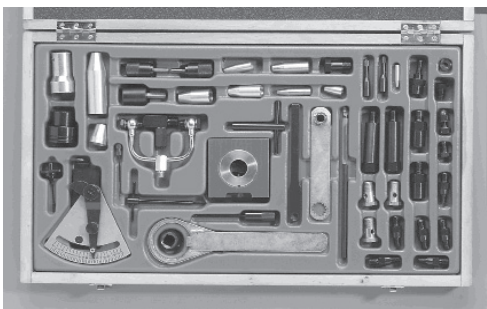
EQUIPMENT & ACCESSORIES

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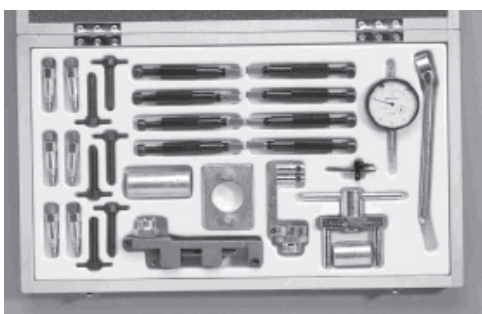
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M3050



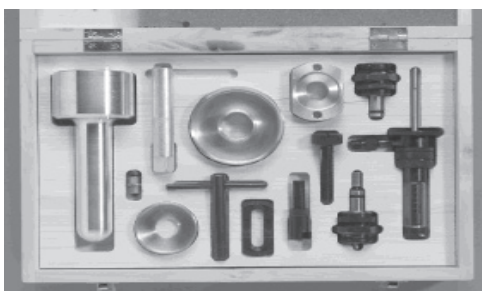
TOOL KIT : For dis-assembly and re-assembly of DPA rotary pumps with mechanical and hydraulic governor.

M3051



TOOL KIT : For dis-assembly and re-assembly of Bosch PES 'P' type fuel pumps.

M3052



TOOL KIT : For dis-assembly and re-assembly of Bosch EP / VA fuel pumps.

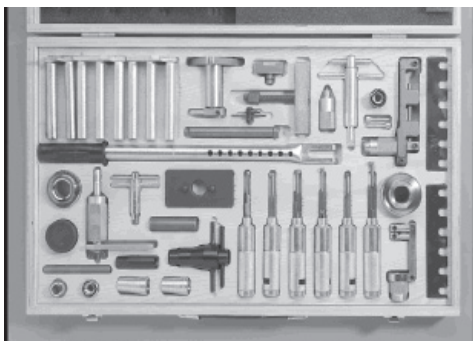
M3053



TOOL KIT : For dis-assembly and re-assembly of Bosch EP / VE fuel pumps.

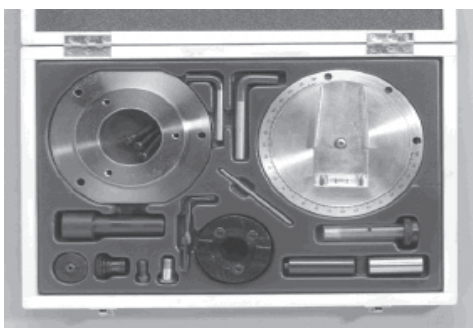
TOOL KITS

M3054



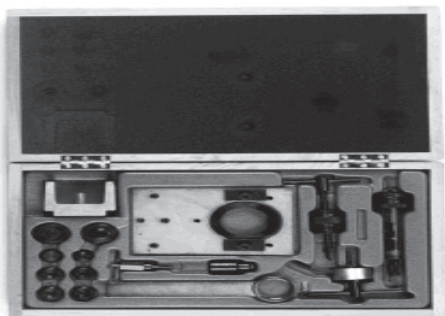
TOOL KIT : For dis-assembly and re-assembly of Bosch EP / VE fuel pumps.

M3055



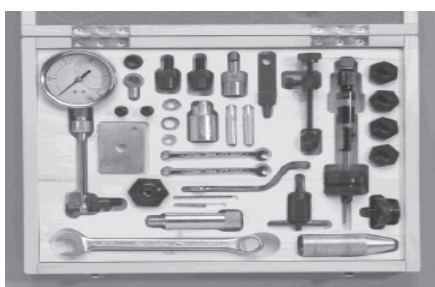
DPS DIRECT INJECTION TOOL KIT :
Additional tool kit for use with M3056. (for use on Ford Transit DPS fuel pumps).

M3056



TOOL KIT : For dis-assembly and re-assembly of CAV DPC and DPS type fuel pumps. (for use with M3055 for Ford Transit DPS fuel pumps)

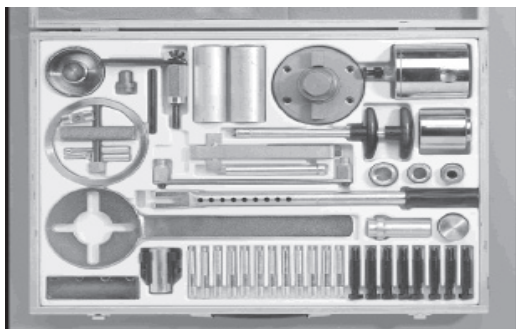
M3057



TEST KIT : For CAV DPC and DPS type fuel pumps.

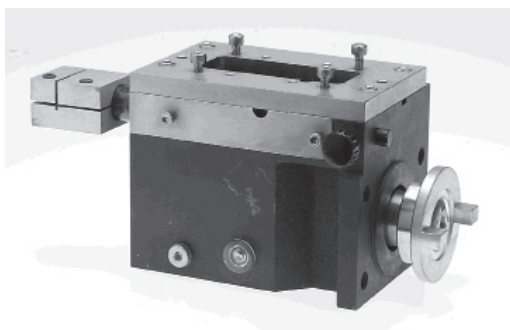
More comprehensive kits available. See M3064 & M3065

M3060



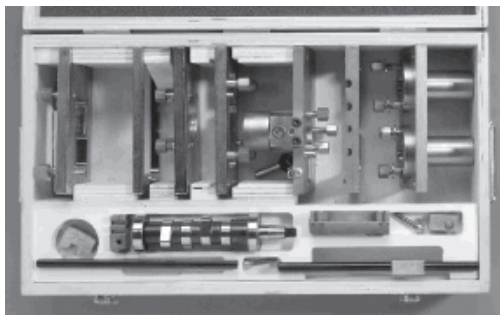
TOOL KIT : For dis-assembly and re-assembly of Bosch P7000 series fuel pumps.

M3062



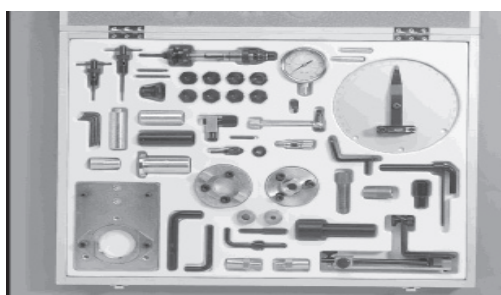
CAMBOX : For testing NIPPONDENSO mini-type flange mounted pumps with 6mm up-stroke.

M3063



CAMBOX TEST KIT : For testing MITSUBISHI 3 & 4 cyl. BOSCH P F R K 1, 2, 3, & 4 cy. immersed pumps. BOSCH Q type pumps STANADYNE 1 cyl. NIPPONDENSO MINI pumps 2, 3 & 4 cyl. ZEXEL 2, 3, & 4 cyl. KUBOTA 2 cyl.

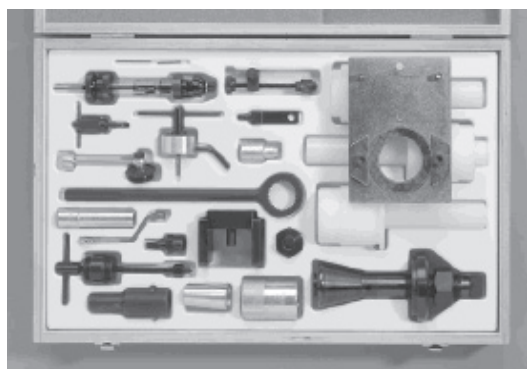
M3064



COMPLETE TOOL KIT : For assembly, dis-assembly and testing of CAV DPC type fuel pump.

TOOL KITS

M3065



COMPLETE TOOL KIT : For assembly, dis-assembly and testing of CAV DPC type fuel pump.

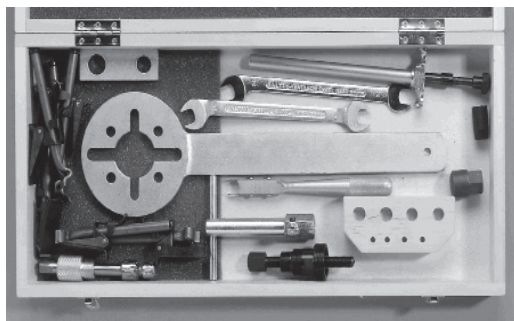
M3066



SLEEVE METERING PUMP KIT : DPE 30100

APPLICATION : CATERPILLAR, 3208, 3304, 3306.

M3067



TOOL KIT : For dis-assembly and re-assembly of BOSCH A type fuel pumps.

M3725

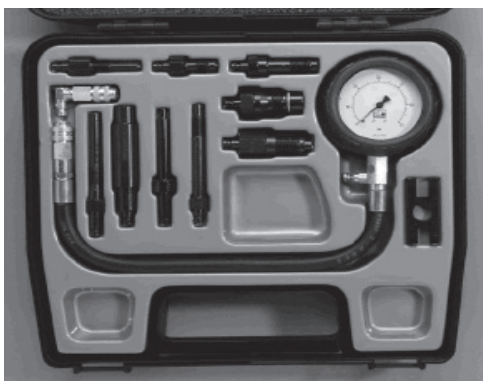


GOVERNOR ADJUSTING TOOL KIT :
(6V 6070)

For pumps with Scroll fuel system

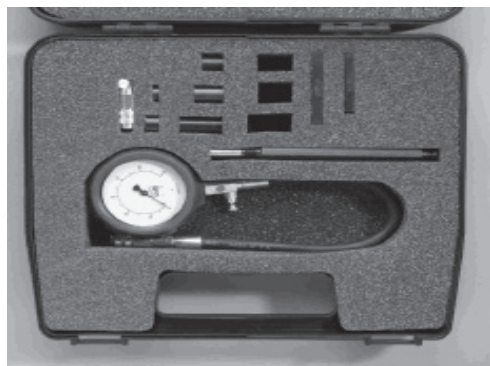
APPLICATIONS : CATERPILLAR, 3204, 3300, 3406

M3068



DIESEL ENGINE COMPRESSION TESTER :
For cars and light commercials,. Dual scale dial gauge 0 - 1000 lb in₂ + 0 - 70 bar.

M3069



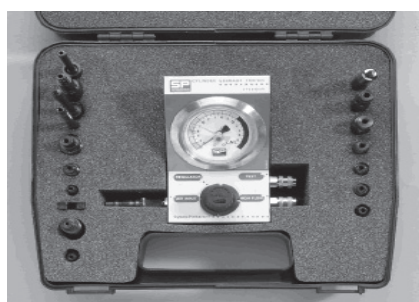
DIESEL ENGINE COMPRESSION TESTER :
For commercial and industrial engines. Dual scale dial gauge 0 - 1000 lb in₂ + 0 - 70 bar.

M3070



DIESEL INJECTOR MANDREL SET :
For use with M3068 to cover commercial vehicles.

M3071

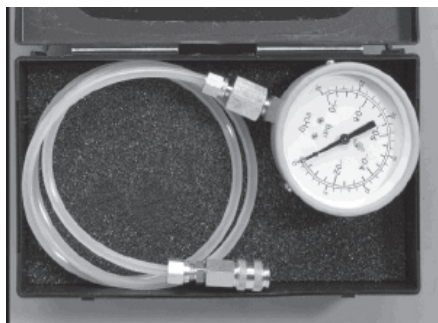


CYLINDER LEAKAGE TESTER :
For identifying compression problems.

APPLICATIONS : Petrol and Diesel engines

DIAGNOSTIC EQUIPMENT

M3073



FUEL SUPPLY TESTER : Tests for fuel starvation of lift pumps, rotary fuel injection pumps, i.e. transfer pump, pressure and vacuum. Also tests for blocked filters on fuel lines. Quick action banjo and end-on connectors. High resolution 0-1 bar vacuum gauge, 1 metre flex. Connection pipe and instructions.

APPLICATION : CARS, VANS, TRUCKS

M3074



'MITYVAC' TEST KIT : Used for testing diesel and petrol fuel systems, turbo chargers, distributors, and emission control systems etc. Also used for bleeding diesel fuel systems and automotive brake systems.

APPLICATION : Vacuum and pressure tests on fuel systems

M3076



OPTICAL TACHOMETER : Up to 1 metre operating range with 'on target' indicator. Speed range 3-99.999 rpm with over range indication. Accuracy +/- 1 rpm. 10 second memory with auto switch off and recall button. Battery operated (supplied with 4 x 1.5v AA Alkaline batteries. Protective pouch

APPLICATION : RPM MEASUREMENT OF ENGINES & ALL ROTATING MACHINERY

M3077



TRANSDUCER WITH CABLE & PLUG :
For use with M3076 Optical Tachometer. Clips on to the injector pipe and converts injection pulses to RPM

APPLICATION : RPM MEASUREMENT OF DIESEL ENGINES

M3078



REFLECTIVE TAPE : For use with M3076 Optical Tachometer.

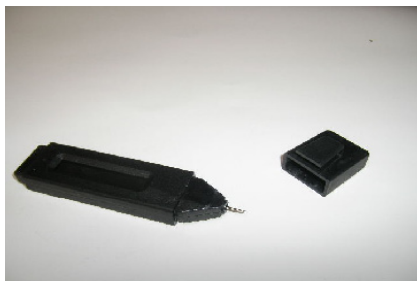
M3079



GLOW PLUG CIRCUIT TESTER :
Designed to evaluate the performance of 12v (parallel wired) glow plugs, in or out of the engine. Test glow plugs for current draw, continuity and short circuit. Checks circuitry for continuity, relay and warning light operation. Built-in 'hot test' chamber with viewing window. LED timer system. Short circuit trip, protective pouch

APPLICATION : Direct and indirect injection diesel engines.

M3080



CIRCUIT TESTER : For checking vehicle electrical circuits 6 - 28v complete with LCD display.

APPLICATION : Vehicle electrical circuits

M3083

NO ILLUSTRATION

MANIFOLD PRESSURE SIMULATOR BOOST CONTROL TESTING KIT :

Used with workshop air supply, the sensitive regulator reduces workshop air pressure to a simulated manifold pressure for fueling at boost pressure adjustment. Controls start and end of boost pressure.

APPLICATION : ALL TEST BENCHES

DIAGNOSTIC EQUIPMENT

M3085



EDC-VE TEST EQUIPMENT

This equipment permits the complete calibration of fuel injection pumps with electronic governor (EDC-VE) on any type of test bench manufactured under ISO standards 4008. It can also be used to check the operation of the EDC on the car.

The basic kit includes 9 and 4 pole cables, adaptor cables and unit adaptor for testing the following cars:
BMW 3324, TD, D, 525 TD, 325 TDS, Audi 100 TD, Alfa Romeo 164, Audi 80 TDi. Additional cables are available for CITROEN CX, TD, Peugeot 505 TD & BMW 524 TD with E.G.R

APPLICATION : ALL TEST BENCHES

M3086

NO ILLUSTRATION

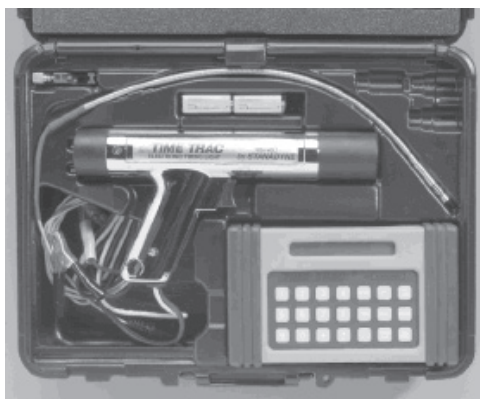
BOSCH EDC-P GOVERNOR TEST KIT

Comprises :-

Support trolley, Oscilloscope
Power supply unit 1-25v 15/20A
Power supply unit 1.5 - 14 v5A
Digital multimeter
Control unit KDEP 400/1 (latest type)
Test Cable KDEP 400/2 (latest type)
Test Cable adaptor KDEP 400/3
Various setting tools

M3126

APPLICATION : DIESEL Engines Only (except CUMMINS)



TIME TRAC - Dynamic Timing Meter (Diesel)

Universal kit for the dynamic timing of fuel injection pumps on diesel engines. Dynamic timing can be achieved quickly, simply and accurately.

1. Engine speed in RPM
2. Injection timing in degrees

Suitable for use on engines which incorporate either flywheel T.D.C or a T.D.C sensor (diagnostic plug)
Unit is supplied complete with data manual, magnetic probe and 6 mm probe sensor. Additional accessories available as follows:

Clamp on sensors 4.5mm, 5mm, 8mm & In-line sensors 12mm, 14mm, 9/16" thread sizes.

M3078



STANADYNE TECH-TACH - Electronic Tachometer

Large clear digital read-out.

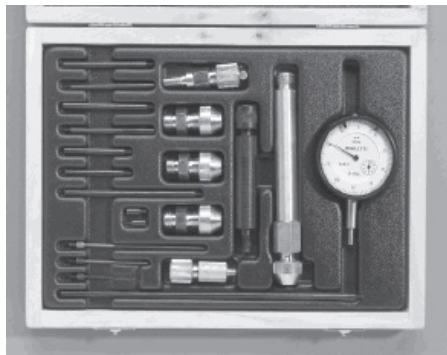
Clamp on transducer for diesel engines

Inductive pick up for petrol engines

APPLICATION : PETROL AND DIESEL ENGINES

GUAGES & TIMING TOOLS

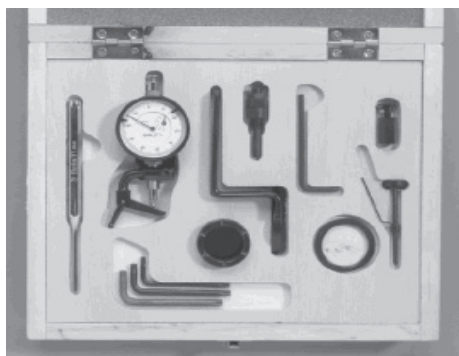
M3091



TIMING KIT : Pump to engine

For use on BOSCH EP/VE type fuel pumps.
Complete with 10 mm dial guage

M3092



TIMING KIT : Pump to engine

For use on CAV DPC and DPS type fuel pumps.
Complete with 5mm dial guage

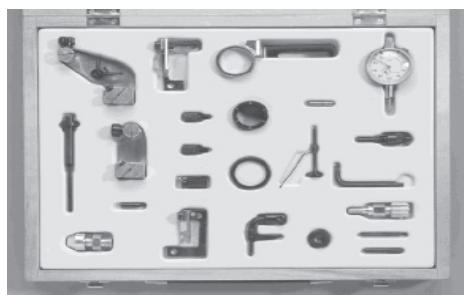
M3093



TIMING TEST KIT :

Internal timing kit for late CAV DPC type fuel pumps.

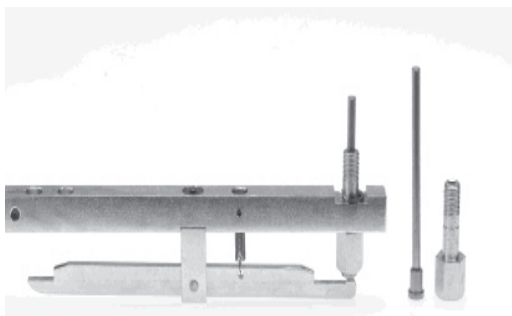
M3094



TIMING TOOL KIT :

For BOSCH EP/VE & EP/VA type fuel pumps.
CAV DPA, DPC, DPS & Roto Diesel type fuel pumps.
Complete with 5mm Dial guage.

M3095



UNIVERSAL EXTENDED DIAL GUAGE HOLDER

APPLICATIONS : BOSCH EP/VE NIPPON-DENSO, DIESEL KIKI

M3096



DIAL GUAGE 5mm stroke

APPLICATIONS : GENERAL PURPOSE

M3097



DIAL GUAGE : 10mm stroke Equiv. 1687 233 011

APPLICATIONS : GENERAL PURPOSE

M3098



DIAL GUAGE : 30mm stroke Equiv. 1687 233 015

APPLICATIONS : GENERAL PURPOSE

GUAGES & TIMING TOOLS

M3099

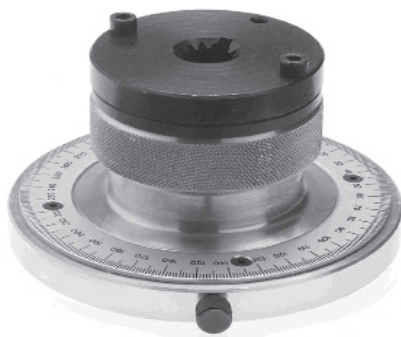


PRE-STROKE GUAGE HOLDER :

Equiv. EFEP 462
 1688 130 045
 (12 x 1mm thread)

APPLICATIONS : BOSCH

M3100



STANDARD FLANGE MARKING GUAGE :

Equiv. EFEP 462

APPLICATIONS : DPA

M3101



UPRATED ADAPTOR :

For M3100 standard flange marking guage

APPLICATIONS : DPA

M3102

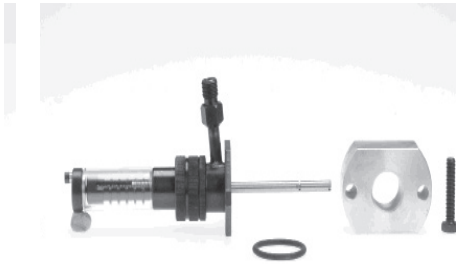


METRIC ADAPTOR :

For M3100 standard flange marking guage

APPLICATIONS : DPA

M3103

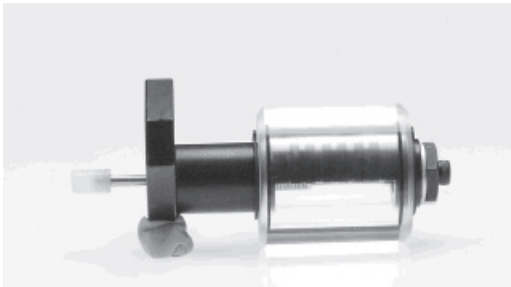


ADVANCE GUAGE :

For testing auto advance on BOSCH EP/ VA type fuel pumps.

APPLICATIONS : BOSCH EP / VA

M3104

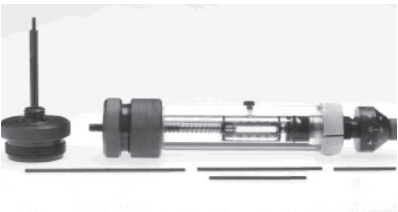


ADVANCE GUAGE :

For testing auto advance on BOSCH EP/ VE type fuel pumps.

APPLICATIONS : BOSCH EP / VE

M3105



ADVANCE GUAGE :

Equiv. 7244-447 2804-811C
See M3142 for adaptor
for FORD 2.5 DPS. Tip suitable for CAV type
fuel pumps, DPS, DPC, DPA

M3106



REPLACEMENT GLASS :

For M3105 advance guage

M3107



'KWIK CHEK' :

Hole guage 0 - 040" nozzle spray hole
checking tool

APPLICATION : VARIOUS NOZZLES

GUAGES & TIMING TOOLS

M3108



'KWIK CHEK' :

Hole guage 0.030 - 0.080" nozzle spray hole checking tool

APPLICATION : VARIOUS NOZZLES

M3109



SPILL TIMING DEVICE :

For 12mm and 14mm D/Valve holders. Glass capillary tube with datum line to indicate start of injection

APPLICATION : VARIOUS IN-LINE PUMPS

M3110



TIMING SET :

For CAV DPC type fuel pumps for use on test bench or engine

M3111



TIMING PIN :

APPLICATION : RENAULT

M3112



TIMING PIN :

APPLICATION : FORD 1.6

M3113



TIMING PIN BRACKET :

APPLICATION : FORD 1.6

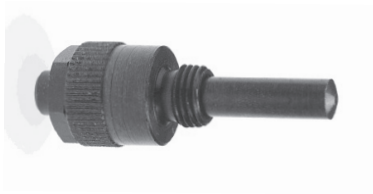
M3114



TIMING PIN SET :

For Ford Transit direct injection

M3115



TIMING PIN :

For CAV DPS type fuel pumps

M3116

NO ILLUSTRATION

TIMING LOCK : Dual purpose

For BOSCH EP/VE type fuel pumps
and CAV DPS type fuel pumps

M3117



DIAL INDICATOR HOLDER :

Equiv to BOSCH KDEP 1085

APPLICATION: BOSCH VE

GUAGES & TIMING TOOLS

M3118



CAMSHAFT HOLDER :
1988 onwards

APPLICATION : VAUXHALL / OPEL 1.6

M3119



CAMSHAFT HOLDER :
Pre 1988

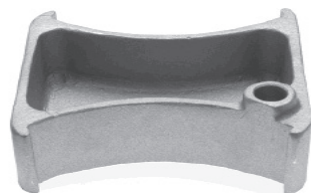
APPLICATION : VAUXHALL / OPEL 1.6

M3120



DIAL GUAGE HOLDER :
For PES 'M' RSF 4 & 5 cyclinder BOSCH type pumps.
Mercedes 220D, 190D, 250D and Ford Transit

M3121



PULLEY HOLDER :

APPLICATION : RENAULT 18 / 20

M3122



TIMING PEG :
Pump to engine : Perkins Prima engines

M3123



TIMING PEG :

For Ford 1.8D engines with CAV type fuel pumps

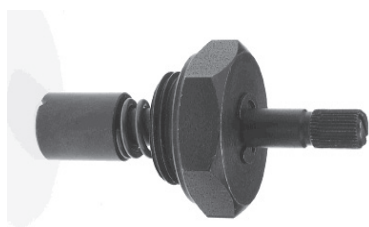
M3124



TIMING PEG :

For Ford 1.8D engines with BOSCH type fuel pumps

M3127



TIMING PIN :

For Mercedes 190D engines with BOSCH type fuel systems.

M3129



DIAL GUAGE HOLDER :

For Ford Transit

GUAGES & TIMING TOOLS

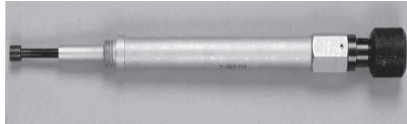
M3135



TIMING BELT GUAGE :

Measures tension on timing belts. Dial reading
40 - 2800 lbs / 180-800 Newtons.
Suitable for belts 0.5" to 1" wide

M3136



TIMING TOOL :

ASTRA / CAVALIER

APPLICATION: BOSCH EP/VE

M3137



TIMING HOLDER & SPINDLE :

APPLICATION: BOSCH EP/VE

M3138



TIMING SPINDLE (2 pieces) :

40mm Long
2.5mm thread

APPLICATION: DIAL GUAGES

M3139



TIMING SPINDLE (2 pieces) :
58mm Long
2.5mm thread

APPLICATION: DIAL GUAGES

M3140



TIMING SPINDLE (2 pieces) :
58mm Long
3mm thread

APPLICATION: DIAL GUAGES

M3141



BELT TENSIONING ADJUSTING SET :
Set of 2 - 41mm & 46mm

APPLICATION: GM 1.6 D, GM 1.7 D

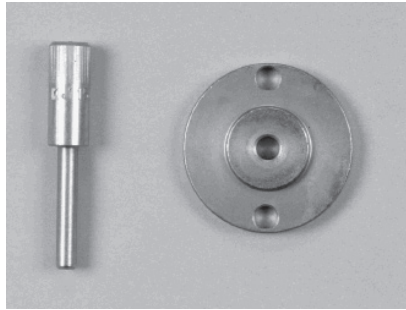
M3142

M3122



ADVANCE ADAPTOR :
For Ford Transit fitted with DPS type fuel pump.

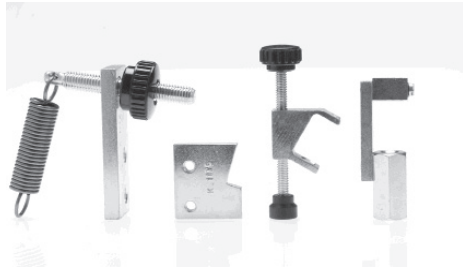
M3143



TIMING PIN & DISC :

For use on Ford 2.5 direct injection engines with BOSCH VE type fuel pumps.

M3144

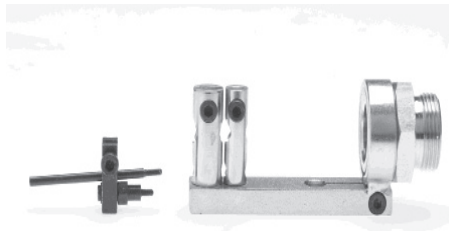


E.G.R SETTING KIT :

(Equiv. KDEP 1175, 1176, 1177, 1179)

APPLICATION: BOSCH EP / VE

M3704

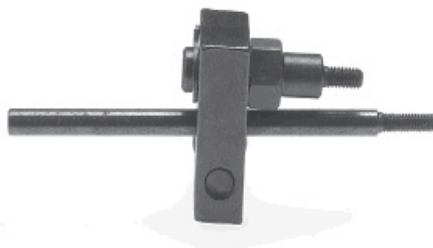


DIAL GUAGE HOLDER ASSEMBLY :

Equiv. 1688 130 030
(M 24 x 1.5mm)

APPLICATION: BOSCH 'P'

M3705



CLAMP & ROD ONLY :

(For use with M3704)

APPLICATION: BOSCH 'P'

M3706

NO ILLUSTRATION

AUTO ADVANCE GUAGE ASSEMBLY :
Equiv. 7244-59

APPLICATION: CAV DPA

M3707



FEELER PIN ONLY :
(for use with M3706)
Equiv. 7244-70

APPLICATION: CAV DPA

M3540



TIMING TOOL :

APPLICATION: LAND ROVER DISCOVERY

M3702



CRANKED SETTING TOOL :

APPLICATION: PEUGEOT, CITROEN,
RENAULT, ROVER, TALBOT

M3703



**DIAL GUAGE MOUNTING ADAPTOR FOR
SETTING PISTON POSITION**

GUAGES & TIMING TOOLS

M3087

NO ILLUSTRATION

ADVANCE GUAGE :

Equiv. 7244-447

Auto-advance guage for CAV DPS type fuel pumps.
(10 pieces)

M3088

NO ILLUSTRATION

ADVANCE GUAGE :

Equiv. 1804-811

Advance guage for CAV DPC type fuel pumps.

M3711



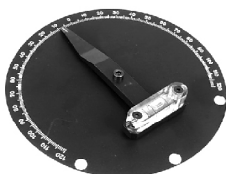
TIMING PIN :
Landrover TDi

M3712



5 PIECE TIMING SET :
For CAV DPC type fuel pumps

M3713



TIMING DISC BUBBLE :

APPLICATION: DPS

M3718



CONTROL ROD BEARING :

APPLICATION: SIGMA RM-RMS

M3719



DIAL GUAGE HOLDER ADAPTOR :

APPLICATION: BOSCH A-B-BV PUMPS

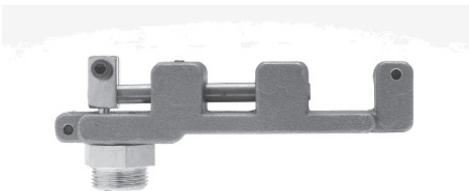
M3756



TIMING PEG :

APPLICATION: PEUGEOT, CITROEN

M3768



P SIZE GUAGE HOLDER

GUAGES & TIMING TOOLS

M3722



REDUCER :
3.0mm to 2.5mm

APPLICATION: DIAL GUAGES

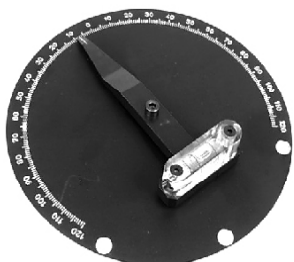
M3723



O/SIZE REPLACEMENT GLASS :
(Heavy duty version)

APPLICATION: CAV DPA

M3747



10mm DIAL GUAGE HOLDER :
(Extended)

APPLICATION: VE

M3778



TIMING BRACKET :
For BMW 525 TDS

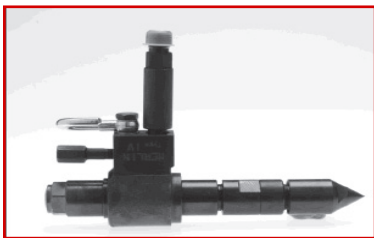
APPLICATION: VE

M3790



DIAL GUAGE HOLDER :
Fir BOSCH A-B-BV & P type fuel pumps.

M3145*



BOSCH REF	NOZZLE	O/PLATE	BAR	REMARKS
1 688 901 000*	4010	N/A	147	BOSCH
0 681 343 009	4010	N/A	172	Standard 'S' size

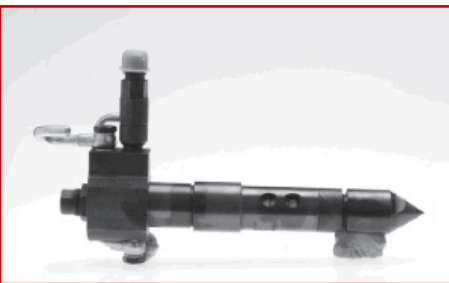
M3147*



BOSCH REF	NOZZLE	O/PLATE	BAR	REMARKS
1 688 901 111	988	0.8	147	
1 688 901 112	988	0.8	172	
1 688 901 113	988	0.5	207	
1 688 901 113				

NOTE:
Use Spacer Kit
M3730 for Hartridge
Test Benches with
Monoblock

M3150*



BOSCH REF	NOZZLE	O/PLATE	BAR	REMARKS
1 688 901 101*	990	0.6	207	Various Bosch 'P' size pumps
1 688 901 102	990	0.6	250	
1 688 901 103*	990	0.7	207	
1 688 901 104	990	0.7	250	
1 688 901 105*	990	0.8	207	
1 688 901 106	990	0.8	250	NOTE Use Spacer Kit M3730 for Hartridge Test benches with Monoblock
1 688 901 109	990	0.5	207	
1 688 901 110	990	0.5	250	

M3157*



BOSCH REF	NOZZLE	O/PLATE	BAR	REMARKS
1 688 901 101*	990	0.6	207	Various Bosch 'P' size pumps
1 688 901 102	990	0.6	250	
1 688 901 103*	990	0.7	207	
1 688 901 104	990	0.7	250	
1 688 901 105*	990	0.8	207	
1 688 901 106	990	0.8	250	NOTE Use Spacer Kit M3730 for Hartridge Test benches with Monoblock
1 688 901 109	990	0.5	207	
1 688 901 110	990	0.5	250	

* Other references are supplied by changing the oriface plate and / or re-setting pressure.
Please specify variant when ordering

M3158*



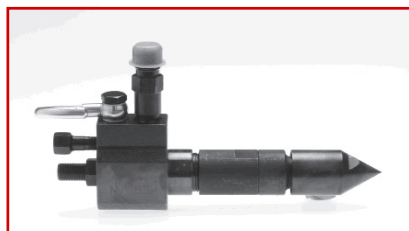
BOSCH REF	NOZZLE	O/PLATE	BAR	REMARKS
1 688 901 101*	990	0.6	207	Various Bosch 'P' size pumps
1 688 901 102	990	0.6	250	
1 688 901 103*	990	0.7	207	
1 688 901 104	990	0.7	250	
1 688 901 105*	990	0.8	207	
1 688 901 106	990	0.8	250	NOTE Use Spacer Kit M3730 for Hartridge Test benches with Monoblock
1 688 901 109	990	0.5	207	
1 688 901 110	990	0.5	250	

M3159*



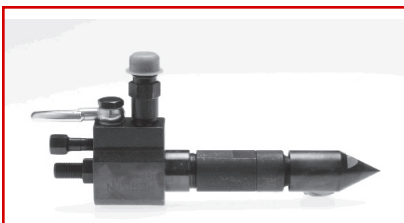
BOSCH REF	NOZZLE	O/PLATE	BAR	REMARKS
1 688 901 114*	987	0.4	207	VE Ford 2.5 DI 92>
1 688 901 115	987	0.4	250	
1 688 901 116	987	0.5	207	VE Discovery
1 688 901 117	987	0.5	250	
				NOTE Use Spacer Kit M3730 for Hartridge Test benches with Monoblock

M3160*



BOSCH REF	NOZZLE	O/PLATE	BAR	REMARKS
1 688 901 022	1510	N/A	130	VE Indirect eg.
	992	N/A	207	FORD 1.6

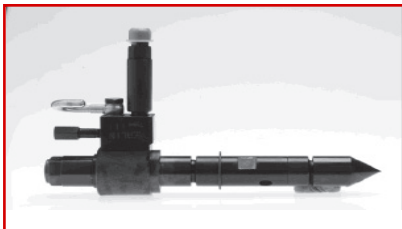
M3161*



BOSCH REF	NOZZLE	O/PLATE	BAR	REMARKS
1 688 901 023*	991	0.4	172	VE High Speed DI
1 688 901 025	991	0.5	172	PF(R)K 1-2-3-4 Cyl
1 688 901 027	991	0.5	250	VE Direct (some)

* Other references are supplied by changing the oriface plate and / or re-setting pressure.
Please specify variant when ordering

M3173*



BOSCH REF	NOZZLE	O/PLATE	BAR	REMARKS
1 688 901 015	999	0.4	207	
1 688 901 016	999	0.5	207	VE (some) CAV-DPS Ford 2.5 DI > 92
1 688 901 017	999	0.6	207	
1 688 901 018	999	0.7	207	
1 688 901 019*	999	0.8	207	P, S7000 Series
1 688 901 020	999	0.6	172	

NOTE : M3173 Injector can be used for Hartridge References - HF884 to HF888
(Use spacer Kit M3701 on 700 and 2500 Test benches)

* Other references are supplied by changing the oriface plate and / or re-setting pressure.
Please specify variant when ordering

TEST INJECTOR PARTS

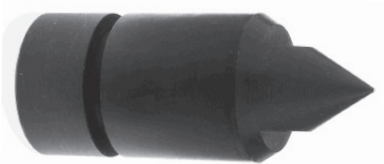
M3146



NOZZLE FOR ORIFACE PLATE TEST INJECTORS :
Equiv. 1 688 901 987

APPLICATION: Fits M3159

M3151



DIFFUSER :

APPLICATION: BOSCH TEST INJECTORS

M3152



ORIFICE PLATE 0.7 :

APPLICATION: O/PLATE TEST INJECTORS

M3153



TEST INJECTOR SPRING :
(Other springs Obtainable)

APPLICATION: M3145, M3173, M3162, M3163

M3154



NOZZLE FOR ORIFICE PLATE TEST INJECTOR :
Equiv. 1 688 901 999

APPLICATION: Fits M3173 & HARTRIDGE O/P TEST INJECTORS

M3155



SPACER :

APPLICATION: M3162, M3163, VARIOUS O/P TEST INJECTORS

M3156



NOZZLE NUT :

APPLICATION: M3162, M3163, M3173

M3162



TEST INJECTOR CONVERSION KIT TO ISO ORIFICE PLATE

To convert existing BOSCH 'S' size injectors to orifice plate specifications. Kit includes :-

- A - Diffuser (Bosch only)
- B - Inlet with filter
- C - Spring
- D - Spacer
- E - Nozzle
- F - Orifice plate 0.5

(Supplied with assemble nut - not shown)

APPLICATION: BOSCH

M3163



TEST INJECTOR CONVERSION KIT TO ISO ORIFICE PLATE

AS M3162 less diffuser. Kit includes :-

- A - Inlet with filter
- B - Spring
- C - Spacer
- D - Nozzle
- E - Orifice plate 0.5

(supplied with assembly nut - not shown)

APPLICATION: HARTRIDGE , MERLIN

TEST INJECTOR PARTS

M3164



INLET SUD * EDGE FILTER :
ISO 7440/1

APPLICATION: ISO TEST INJECTORS

M3165



ORIFICE PLATE 0.4 :

APPLICATIONS: O/PLATE TEST INJECTORS

M3166



ORIFICE PLATE 0.5 :

APPLICATIONS: O/PLATE TEST INJECTORS

M3167



ORIFICE PLATE 0.6 :

APPLICATIONS: O/PLATE TEST INJECTORS

M3168



ORIFICE PLATE 0.7 :

APPLICATIONS: O/PLATE TEST INJECTORS

M3169



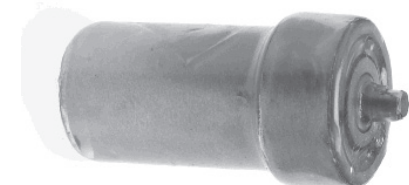
'S' SIZE TEST NOZZLE :
12SD 12 (ISO 4010)

M3171



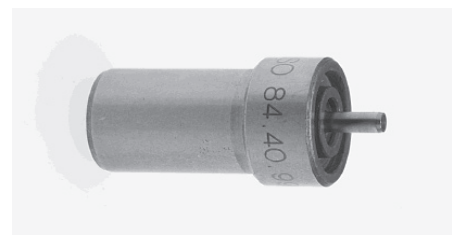
'S' SIZE TEST NOZZLE :
BDN 8S2

M3172



'T' SIZE NOZZLE :
BDN 4T4

M3174



BOSCH TEST NOZZLE :
(ISO 1510) Equiv :- 1 688 901 992

APPLICATION: Fits M3160

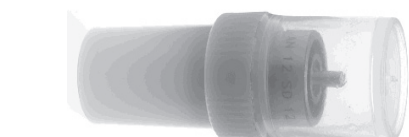
M3175



NOZZLES FOR ORIFICE PLATE TEST INJECTORS :
Equiv :- 1 688 901 991

APPLICATION: Fits M3161

M3175A



NOZZLES FOR ORIFICE PLATE TEST INJECTORS :
Equiv :- 1 688 901 990

APPLICATION: Fits M3158

TEST INJECTOR PARTS

M3700

NO ILLUSTRATION

NOZZLE NUT :

Can be used to convert Hartridge 'S' type injectors to BOSCH 'S' type, by fitting with M3151

M3753



INJECTOR BUTTON :

For use with M3159 test injector

M3761

NO ILLUSTRATION

TEST INJECTOR NOZZLE :

Equiv :- 1 688 901 988

M3765



INJECTOR STRIPPING CLAMP :

M3792



NOZZLES SPACER PLATE :

For M3159 injector

M3148



TEST INJECTOR HOLDER KIT :

Complete with pipe and adaptors

Equiv :- KDEP 1140/K

APPLICATION: BOSCH TEST BENCHES ONLY

M3149



INSERT :

(Updates earlier kits to except latest injectors)

APPLICATION: M3148

M3701



SPACER KITS - (Includes 2 x 'O' rings) :

To accept O/P test injectors

Used with M3173 test injector

APPLICATION: HARTRIDGE MONOBLOCKS

M3708



SET OF PIPES COMPLETE WITH FITTINGS :

APPLICATION: M3148

ISO TEST INJECTOR MOUNTING KITS

M3730**SPACER KITS (Includes 2 x 'O' RINGS) :**

To accept O/P Test Injectors

Used with M3147, M3150, M3157, M3158 Test Injectors.

APPLICATION: HARTRIDGE MONOBLOCKS**M3731****SPACER KITS (Includes 2 x 'O' RINGS) :**

To accept O/P Test Injectors

Used with M3159 Test Injector.

APPLICATION: HARTRIDGE MONOBLOCKS

M3178

DIMENSIONS : 6 x 2 x 845mm
NUTS : M12 x 1.5 - M14 x 1.5

APPLICATION: ISO 4093-1 DPA PUMPS

M3184

DIMENSIONS : 8 x 3 x 750mm
NUTS : M14 x 1.5 - M14 x 1.5

APPLICATION: ISO 4093-5, MAJORMEC

M3185

DIMENSIONS : 8 x 3 x 750mm
NUTS : M14 x 1.5 - M18 x 1.5

APPLICATION: ISO 4093-5, MAJORMEC

M3186

DIMENSIONS : 6 x 4 x 1500mm
NUTS : M18 x 1.5 - M18 x 1.5

APPLICATION: ISO 4093-8

M3189*

DIMENSIONS : 6 x 2 x 600mm
NUTS : M12 x 1.5 - M14 x 1.5

APPLICATION: DPA PUMPS

M3236

DIMENSIONS : 6 x 2.4 x 635mm
NUTS : M12 x 1.5 - M14 x 1.5

APPLICATION: DIESEL KIKI, STANADYNE

**** BRAIZED, HARD TIPPED BOSCH TYPE TEST LINES**
*** STANDARD RUBBER COVERED TEST LINES**

INJECTOR PIPES



M3900**

DIMENSIONS : 6 x 2 x 600mm
NUTS : M14 x 1.5 - M14 x 1.5
APPLICATION: ISO 4093-1 (1 680 750 008 'B' SIZE BOSCH)

M3901**

DIMENSIONS : 6 x 2 x 600mm
NUTS : M12 x 1.5 - M14 x 1.5
APPLICATION: ISO 4093-1 (1 680 750 014 'A' SIZE BOSCH)

M3902**

DIMENSIONS : 6 x 3 x 600mm
NUTS : M14 x 1.5 - M14 x 1.5
APPLICATION: ISO 4093-3 (16 80 750 015 BOSCH 'P')

M3903**

DIMENSIONS : 6 x 2 x 840mm
NUTS : M12 x 1.5 - M14 x 1.5
APPLICATION: ISO 4093-2 (1 680 750 017 BOSCH VA/VE)

M3904**

DIMENSIONS : 6 x 3 x 600mm
NUTS : M14 x 1.5 - M18 x 1.5
APPLICATION: ISO 4093-3 (1 680 750 026 BOSCH BV)

M3905**

DIMENSIONS : 6 x 4 x 1000mm
NUTS : M14 x 1.5 - M18 x 1.5
APPLICATION: ISO 4093-7 (1 680 750 060 BOSCH 'P')

M3906**

DIMENSIONS : 6 x 2 x 450mm
NUTS : M12 x 1.5 - M14 x 1.5

APPLICATION: ISO 4093-9 (1 680 750 073 BOSCH BE)

M3907**

DIMENSIONS : 8 x 3 x 1000mm
NUTS : M14 x 1.5 - M14 x 1.5

APPLICATION: ISO 4093-6 (1 680 750 075 BOSCH 'P')

M3908**

DIMENSIONS : 6 x 1.6 x 350mm
NUTS : M12 x 1.5 - M14 x 1.5

APPLICATION: ISO 4093-3 (1 680 750 085 VE-EDC)

M3909**

DIMENSIONS : 6 x 2 x 600mm
NUTS : M14 x 1.5 - 9/16" x 18

M3910**

DIMENSIONS : 6 x 3 x 600mm
NUTS : M18 x 1.5 - 9/16" x 18

M3911**

DIMENSIONS : 6 x 3 x 600mm
NUTS : M14 x 1.5 - 9/16" x 18

**** BRAIZED, HARD TIPPED BOSCH TYPE TEST LINES**
*** STANDARD RUBBER COVERED TEST LINES**

M73



'A' SIZE NUT :
M12 x 1.5mm

APPLICATION: To suit M74

M74



'A' SIZE NIPPLE :

APPLICATION: For brazing onto REST PIPE

M75



'A' SIZE NUT :
M14 x 1.5mm

APPLICATION: To suit M76

M76



'B' SIZE NIPPLE :

APPLICATION: For Brazing on to TEST PIPE

M3190



DIESELFLEX PIPE :
Emergency repair pipe with 12 & 14 x 1.5mm fittings
1 Metre Length

APPLICATION: VARIOUS

M3191



DIESELFLEX PIPE :
Emergency repair pipe with 12 & 14 x 1.5mm fittings
1.5 Metre Length

APPLICATION: VARIOUS

M3192



DIESELFLEX ADAPTORS :
Ford 'D' Series

APPLICATION: DIESELFLEX PIPE

M3193



DIESELFLEX ADAPTORS :
9/16" to 12 x 1.5mm

APPLICATION: DIESELFLEX PIPE

M3194



DIESELFLEX ADAPTORS :
14 x 1.5mm to 12 x 1.15mm

APPLICATION: DIESELFLEX PIPE

M3195



DIESELFLEX ADAPTORS :
ISUSU E12

APPLICATION: DIESELFLEX PIPE

M3196



DIESELFLEX ADAPTORS :
14 x 1.5mm to 12 x 1.5mm

APPLICATION: DIESELFLEX PIPE

M3197



DIESELFLEX ADAPTORS :
16 x 1.5mm to 12 x 1.5mm

APPLICATION: DIESELFLEX PIPE

M3198



RE-INFORCED CLEAR PVC HOSE :
24" Long 3/8" BSP NUTS

APPLICATION: TEST BENCH

M3199



RE-INFORCED CLEAR PVC HOSE :
30" Long 3/8" BSP NUTS

APPLICATION: TEST BENCH

M3200



RE-INFORCED CLEAR PVC HOSE :
36" Long 3/8" BSP NUTS

APPLICATION: TEST BENCH

M3201



RE-INFORCED CLEAR PVC HOSE :
42" Long 3/8" BSP Nut one end, 1/2" BSP other end

APPLICATION: TEST BENCH

M3202



RE-INFORCED CLEAR PVC HOSE :
12" Long 3/8" BSP NUTS

APPLICATION: TEST BENCH

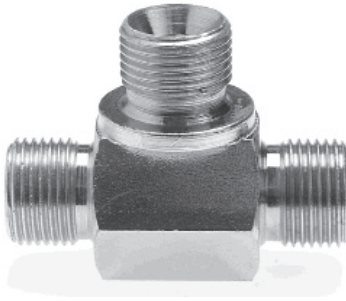
M3203



FLEXIBLE STEEL BRAIDE HOSE :
42" Long 3/8 BSP NUTS EACH END

APPLICATION: TEST BENCH PRESSURE PHASING

M3204



EQUAL TEE CONNECTOR :

3/8" BSP

Use with clear PVC and steel braided hose.

APPLICATION: TEST BENCH

M3205



3/8" BSP ADAPTOR :

With female nut each end. Use with clear PVC and steel braided hose.

APPLICATION: TEST BENCH

M3206



3/8" BSP ADAPTOR :

With male threads. Use with clear PVC and steel braided hose.

APPLICATION: TEST BENCH

M3207



ADAPTORS :

1/2" UNF male x 12mm female

APPLICATION: TEST BENCH

THREADED ADAPTORS FOR FUEL PUMPS

M3208



ADAPTORS :
1/2" UNF male x 14mm female

APPLICATION: FUEL FILTER CONNECTION

M3209



ADAPTORS :
14mm male x 1/2" UNF female

APPLICATION: FUEL FILTER CONNECTION

M3210



ADAPTORS :
12mm male x 14mm female

APPLICATION: FUEL FILTER CONNECTION

M3211



ADAPTORS :
14mm male x 12mm female

APPLICATION: FUEL FILTER CONNECTION

M3212



ADAPTORS :
22 x 1.5mm a 3/8" BSP

APPLICATION: TEST BENCH - VARIOUS

M3213



ADAPTORS :
18 x 1.5mm x 3/8" BSP

APPLICATION: LUCAS BRYCE (CAV) VARIOUS

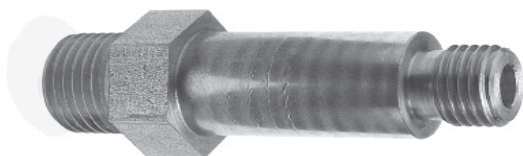
M3214



ADAPTORS :
14 x 1.5mm x 3/8" BSP

APPLICATION: VARIOUS

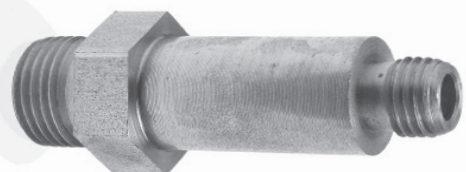
M3215



ADAPTORS : (LARGE)
1/2" UNF x 3/8" BSP

APPLICATION: TEST BENCH VARIOUS

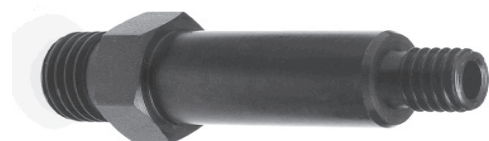
M3216



ADAPTORS : (SMALL)
7/16" UNF x 3/8" BSP male

APPLICATION: TEST BENCH VARIOUS

M3217



ADAPTORS : (METRIC)
12 x 1.5mm x 3/8" BSP male

APPLICATION: TEST BENCH VARIOUS

M3218



REDUCTION UNIONS :
14 x 1.5mm female thread
12 x 1.5mm male thread

APPLICATION: TEST BENCH PUMP INLET

M3219



REDUCTION UNIONS :
12 x 1.5mm female thread
14 x 1.5mm male thread

APPLICATION: TEST BENCH PUMP INLET

M3220



TRANSFER PRESSURE ADAPTOR :
5/6" UNF x 3/8" BSP
Equiv. DPA20A

APPLICATION: TEST BENCH CAV DPC, ROTO DIESEL

M3221



ADAPTORS : (METRIC)
12mm male x 1/2" UNF female

APPLICATION: FUEL FILTER CONNECTION

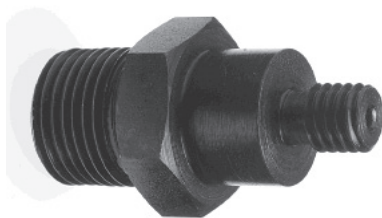
M3222



ADAPTORS : (METRIC)
12 x 1.5mm x 3/8" BSP male

APPLICATION: TEST BENCH VARIOUS

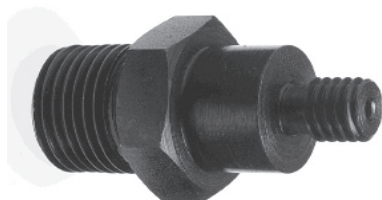
M3223



PUMP INLET ADAPTORS :
5/8" UNF x 3/8" BSP

APPLICATION: LUCAS, CAV, MAJORMEC, LUBE
RETURN VARIOUS

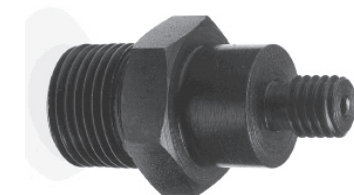
M3224



PUMP INLET ADAPTORS :
8 x 1.5mm x 3/8" BSP

APPLICATION: LUCAS, CAV, MAJORMEC, LUBE,
FEED, VARIOUS

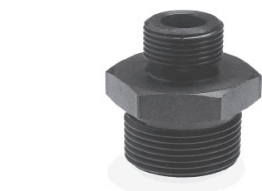
M3225



PUMP INLET ADAPTORS :
10 x 1.5mm x 3/8" BSP

APPLICATION: LUCAS, CAV, MAJORMEC, LUBE
RETURN, VARIOUS

M3226



ADAPTORS :
7/16" UNF x 3/8" BSP

APPLICATION: LUCAS, CAV, MAXIMEC, FUEL
RETURN, VARIOUS

M3227



PUMP INLET ADAPTOR :
3/8" BSP x 10 x 1.5mm

APPLICATION: BOSCH 'P'P SIZE LUBE FEED VARIOUS

THREADED ADAPTORS FOR FUEL PUMPS

M3229



THREADED ADAPTORS :

1/4" BSP x 3/8" UNF
Manifold Pressure Simulator
Boost control unit

APPLICATION: MERLIN P40, HARTRIDGE HF107

M3230



THREADED ADAPTORS :

1/4" BSP x 10 x 1.5mm
Manifold Pressure Simulator
Boost control unit

APPLICATION: MERLIN P40, HARTRIDGE HF107

M3231



THREADED ADAPTORS :

1/4" BSP x 12 x 1.5mm
Manifold Pressure Simulator
Boost control unit

APPLICATION: MERLIN P40, HARTRIDGE HF107

M3232



THREADED ADAPTORS :

1/4" BSP x 14 x 1.5mm
Manifold Pressure Simulator
Boost control unit

APPLICATION: MERLIN P40, HARTRIDGE HF107

M3233



THREADED ADAPTORS :

1/4" BSP x 16 x 1.5mm
Manifold Pressure Simulator
Boost control unit

APPLICATION: MERLIN P40, HARTRIDGE HF107

M3551



12mm TEST BANJO :

APPLICATION: VARIOUS

M3552



14mm TEST BANJO :

APPLICATION: VARIOUS

M3553



**VE TRANSFER PRESSURE/RETURN FLOW
BANJO STUD :**
EQUIV. 1 683 456 000

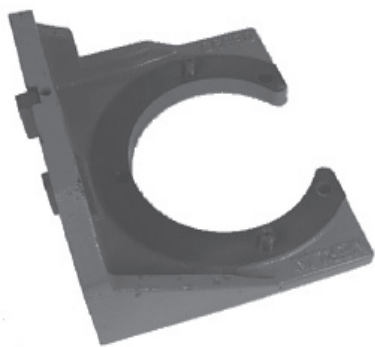
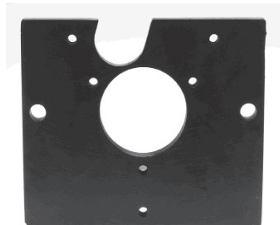
APPLICATION: VE PUMPS

M3751

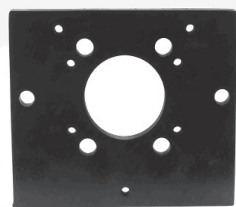


VE INLET TEST ADAPTOR :
Equiv. 1 683 456 000

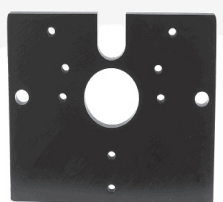
PUMP MOUNTING BRACKETS

M3239**UNIVERSAL MOUNTING BRACKET (HORSESHOE)****APPLICATION :** MERLIN & BOSCH TEST BENCHES**M3240****PUMP MOUNTING PLATE**

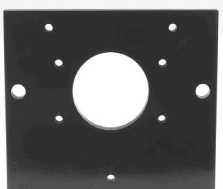
Robert BOSCH
 P.E.S 'A' and 'M' pumps
 Use with M3239

APPLICATION : MERLIN / HARTRIDGE**M3241****PUMP MOUNTING PLATE**

Robert BOSCH
 Mercedes and SIGMA - 4 hole fixing
 Use with M3239

APPLICATION : MERLIN / HARTRIDGE**M3242****PUMP MOUNTING PLATE**

Robert BOSCH
 EP VE/VA pumps - 2 and 3 hole fixing
 Use with M3239

APPLICATION : MERLIN / HARTRIDGE**M3243****PUMP MOUNTING PLATE**

Robert BOSCH
 EP VE/VA - 4 Hole fixing
 Use with M3239

APPLICATION : MERLIN / HARTRIDGE

M3245



BASIC PUMP MOUNTING PLATE

In-line fuel pumps
R. BOSCH, Friedman Maier and pumps to ISO
centre height.
(2) pieces per set

APPLICATION : MERLIN/BOSCH TEST
BENCHES

M3246



ADAPTER - 38mm Centre Height

Robert BOSCH P.E.S 'A' size
Use with M3245

APPLICATION : MERLIN BOSCH TEST
BENCHES

M3247

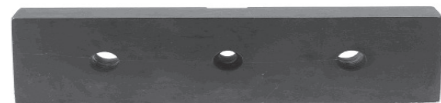


ADAPTER - 45mm Centre Height

Robert BOSCH P.E.S 'A' size
Use with M3245

APPLICATION : MERLIN BOSCH TEST
BENCHES

M3248



ADAPTER - 54mm Centre Height

Robert BOSCH P.E.S 'A' size
Use with M3245

APPLICATION : MERLIN BOSCH TEST
BENCHES

M3249



ADAPTER - 56mm Centre Height

Robert BOSCH P.E.S 'A' size
Use with M3245

APPLICATION : MERLIN BOSCH TEST
BENCHES

M3260



ADAPTER - 56mm Centre Height

Robert BOSCH P.E.S 'A' size

Use with M3245

APPLICATION : MERLIN BOSCH TEST BENCHES

M3306



'T' BOLT SPECIAL :

Use with part number M3260

2 Pieces per set

APPLICATION: BOSCH TEST BENCHES

M3261



UNIVERSAL ROTARY PUMP DRIVE KIT :

With back leakage connection

Pump application :-

CAV: DPA, DPC, DPS

Bosch EP/VE, EP/VE

Nippondenso & Diesel KIKI rotary injection pumps supplied with drive couplings and pump adaptor fixing plates

APPLICATION: MERLIN/BOSCH/HARTRIDGE TEST BENCHES
SUITS EXSISTING BRACKETS

M3262



UNIVERSAL ROTARY PUMP DRIVE KIT :

With back leakage connection

Pump application as M3261

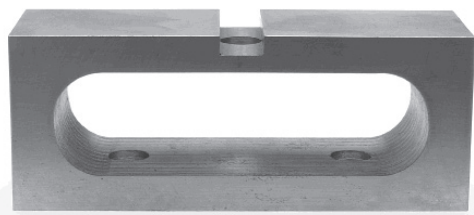
Complete with additional kit as follows:-

M3239 universal mounting bracket, splined drive, coupling, pump fixing plates, 46, 50 & 68 mm spigot.

High pressure pipes 845 x 6 x 2mm, flexible PVC fuel hoses, fuel inlet adaptors (6 pieces)102

APPLICATIONS : MERLIN TEST BENCHES

M3264



PUMP SUPPORT :

CAV-BPE 'C' pumps, 3,4 & 6 cylinder versions
Suitable for 125mm drive shaft centre height

APPLICATION: MERLIN & BOSCH TEST BENCHES

M3267



PUMP MOUNTING PLATE :

Mercedes 190D pump.
Bosch equiv. 1 685 720 208
Merc. Eng Pt No OM : 601 602 603
For use with Bosch drive coupling, part No M3305

APPLICATION: BOSCH TEST BENCHES

M3285

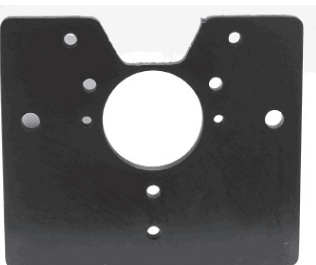


PUMP MOUNTING PLATE :

68mm diameter centre

APPLICATION: FORD 1.8, 2.5 DI VE and DPS
BOSCH TEST BENCHES ONLY

M3286



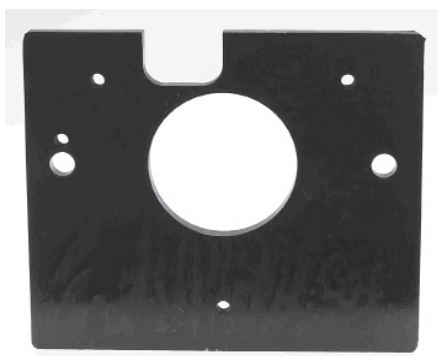
PUMP MOUNTING PLATE :

68mm diameter centre
Use with M3239

APPLICATION: FORD 1.8, 2.5 DI VE and DPS
MERLIN/HARTRIDGE TEST BENCHES

PUMP MOUNTING BRACKETS

M3287



PUMP MOUNTING PLATE :

Use with M3239

APPLICATION: MERCEDES 190D MERLIN/HARTRIDGE
TEST BENCHES

M3288



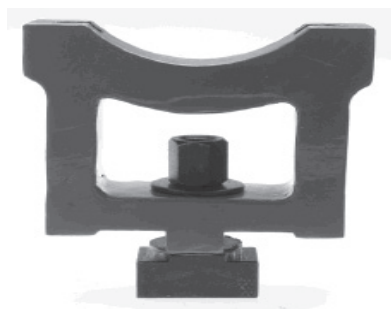
PUMP MOUNTING PLATE :

50mm diameter centre

Equiv :- 1 685 720 062

APPLICATION: VA / VE types BOSCH TEST BENCH ONLY

M3793



M3268

BASIC KIT FOR IN-LINE PUMPS

Comprising :-

- 1 pair quick action universal pump clamps
- 1 bronze self aligning coupling disc.
- 1 'A' size drive coupling - 17mm taper.
- 1 'B' size drive coupling - 20 mm taper.
- 1 pair 'A' size mounting blocks for pumps with 38mm centre height
- 1 pair 'B' size mounting blocks for pumps with 45mm centre height
- 6, 8, or 12 as required 'A' size high pressure injector pipes to ISO 4093.1.6 x 2 x 600 long
- M12 x 1.5 nuts at one end and M14 x 1.5 at other end
- 1 high pressure flexible fuel feed hose steel braided
- 1 low pressure flexible fuel return hose re-inforced nylon
- 1 'A' size fuel inlet adaptor M14 x 1.5 thread size
- 1 'B' size fuel inlet adaptor M18 x 1.5 thread size

APPLICATIONS : MERLIN TEST BENCHES

M3269

CAPERPILLAR PUMP MOUNTING KIT

Comprising :-

- 1 Base mounting bracket
- 1 Lube adaptor plate 1673 engine
- 1 Lube adaptor plate 1674 engine
- 1 Lube adaptor plate 1693 engine
- 1 pump adaptor plate
- 1 fuel adaptor (special)
- 1 fuel adaptor with 'O' ring seals
- 1 dog drive coupling, 1 splined drive coupling
- 1 'V' ring 35mm inside DIAMETER
- 1 'v' ring 45mm inside DIAMETER
- 8 high pressure pipe assemblies
- 1 shoulder screw (special)
- Kit of assorted 'O' ring seals
- 1 flexible hose (PVC) 42" long
- Kit of plumbing adaptors
- Kit of dowty washers

APPLICATIONS :

MERLIN - use with M3239 universal bracket
 BOSCH - Use with M3239 universal bracket
 HARTRIDGE - Use with APB 28/1

PUMP MOUNTING (COMPLETE KITS)

M3270

CATERPILLAR PUMP MOUNTING KIT

Comprising :-

1 pump adaptor housing
1 pump support fixture (rear)
1 Cover plate
1 Pump drive adaptor
4 'O' ring seals
8 'O' ring seals
Kit of plumbing adaptors
1 'V' ring seal
1 Fuel adaptor
8 high pressure pipes
1 flexible hose (PVC) 42" long x 3/8" nuts
2 flexible hose (PVC) 42" long x 1/2" nuts
1 flexible hose (PVC) 42" long x 3/8" nuts
Kit of fixing screws
Kit of dowty washers

APPLICATIONS : Cat engines : 1100 series

TEST BENCH APPLICATIONS :

MERLIN - Use with M3239 universal bracket
BOSCH - Use with M3239 universal bracket
HARTRIDGE - Use with APB 28/1 TEST BENCHES

M3271

CATERPILLAR PUMP MOUNTING KIT

Comprising :-

1 Base mounting bracket
1 Pump support bracket (Large)
1 Pump support bracket (Small)
1 Drive coupling for D4, D5, & D6
1 Drive coupling for D7, D8, & D9
1 rear support fixture
1 Jacking screw
Kit of fixing screws, nuts and dowel pins

APPLICATIONS : Cat engines : D7, D8, 583, 572, D3402, 3306, D4, D5, D6, D330, 920, 950, 951, 955, 966, 977

MERLIN - use with M3239 universal bracket
BOSCH - Use with M3239 universal bracket
HARTRIDGE - Use with APB 28/1

PLEASE SPECIFY TEST BENCH MANUFACTURER AND MODEL WHEN ORDERING

M3268

CATERPILLAR PUMP MOUNTING KIT

Comprising :-

- 1 Pump mounting plate
- 1 Lube adaptor plate
- 1 Rear support fixture
- 1 Blanking plug
- 6 High pressure pipes
- 1 Fuel feed adaptor
- Kit of 'O' ring seals - assorted

APPLICATIONS : Cat engines : 3406 series

MERLIN - use with M3239 universal bracket
 BOSCH - Use with M3239 universal bracket
 HARTRIDGE - Use with APB 28/1

M3269

CATERPILLAR PUMP MOUNTING KIT

Comprising :-

- 1 Driveshaft (Version 'A')
- 1 Driveshaft (Version 'B')
- 1 Base bracket
- 1 Pump mounting plate GM/OLD DB2
- 1 Fuel shur off valve
- 1 Low pressure hose kit
- 1 No-return valve
- 1 Threaded adaptor and seal kit
- 1 Non-return valve
- 1 Dual scale thermomoeter

APPLICATIONS : STANADYNE (Roosamaster)

TEST BENCH APPLICATIONS :

MERLIN - use with M3239 universal bracket
 BOSCH - Use with M3239 universal bracket
 HARTRIDGE - Use with APB 28/1

PLEASE SPECIFY TEST BENCH MANUFACTURER AND MODEL WHEN ORDERING

M3274

SUPPLIMENTARY PUMP MOUNTING PLATE AND DRIVE COUPLING :

Stanadyne (Roosamaster)
Waukesha DB2 HB 3860
Use with Kit part no M3273

APPLICATION: MERLIN & BOSCH use with M3239.
HARTRIDGE use APB 28/1

M3275

SUPPLIMENTARY PUMP MOUNTING PLATE AND DRIVE COUPLING :

Stanadyne (Roosamaster)
International Harvester 6-9 litre
V8. DB2 829ACE 4102
Use with Kit part no M3273

APPLICATION: MERLIN & BOSCH use with M3239.
HARTRIDGE use APB 28/A

M3276

SUPPLIMENTARY PUMP MOUNTING PLATE AND DRIVE COUPLING :

Stanadyne (Roosamaster)
General Motors 6.2 litre V8. DB2 2829 YZ3969
Use with Kit part no M3273

APPLICATION: MERLIN & BOSCH use with M3239.
HARTRIDGE use APB 28/1

M3307

SUPPLIMENTARY PUMP MOUNTING PLATE AND DRIVE COUPLING :

Stanadyne (Roosamaster)
Perkins engines
Pump model DB2 - Pump product code 6533886

APPLICATION: MERLIN & BOSCH use with M3239.
HARTRIDGE use APB 28/1

M3277

SUPPLIMENTARY PUMP MOUNTING PLATE AND DRIVE COUPLING :

Stanadyne (Roosamaster)
General Motors 4.3 litre V6. DB2 629AA4024
Use with Kit part no M3273

APPLICATION: MERLIN & BOSCH use with M3239.
HARTRIDGE use APB 28/1

M3278

SUPPLIMENTARY PUMP MOUNTING KIT FOR 'D' & 'DB' PUMPS

Comprising :-

- 1 Driveshaft assembly (splined)
- 1 Pump mounting adaptor (Version 'A')
- 1 Pump mounting adaptor (Version 'B')
- 1 Pump mounting adaptor (Version 'C')
- 1 Pump mounting adaptor (Version 'D')
- 1 Pump mounting adaptor (Version 'E')
- 1 Pump mounting adaptor (Version 'F')
- 1 Pump mounting adaptor (Version 'G')
- 1 Fuel adaptor kit
- 6 High pressure pipe assembly
- 1 Low pressure hose kit

APPLICATIONS : Stanadyne (Roosamaster) - Use with basic kit M3273

TEST BENCH APPLICATIONS : MERLIN & BOSCH - use M3239. HARTRIDGE use APB 28/1

M3279

DM ROTARY PUMPS

Comprising :-

- 1 Base bracket
- 1 Oil seal adaptor housing
- 1 drive coupling (John Deere & Hercules)
- 1 Drive coupling (Allis Chalmers & Schramm)
- 1 Pump mounting plate (Schramm& Hercules)
- 1 Pump mounting plate (John Deere)
- 1 Pump mounting plate (Allis Chalmers)
- Kit of fixing screws

APPLICATIONS : Stanadyne (Roosamaster) - Use with basic kit M3273

TEST BENCH APPLICATIONS :

- MERLIN - Additional kit not required
- BOSCH - Additional kit not required

PUMP MOUNTING (COMPLETE KITS)

M3280

AMBAC MODEL 100 PUMP KIT PLUS PSB & PSJ PUMPS (except MACK)

Comprising :-

- 1 Pump mounting plate
- 1 Oil seal housing and lube return
- 1 Test bench drive coupling
- 1 Pump drive coupling
- 1 Lube feed and return hose
- 1 Low pressure hose kit
- Kit of plumbing adaptors
- 1 Overflow valve assembly
- 6 High pressure pipes.

APPLICATIONS : American Bosch (AMBAC)

TEST BENCH APPLICATIONS :

MERLIN - Use with M3239 universal bracket
 BOSCH - Use with M3239 universal bracket
 HARTRIDGE Use APB 28/1

M3281

AMERICAN BOSCH (AMBAC) TEST KIT

Comprising :-

- 1 Pump mounting bracket
- 1 Support bracket (rear)
- 8 Injector sleeves
- 1 Taper drive coupling
- 8 Injector connector and clamp
- Kit of special adaptors and plug
- Kit of low pressure hoses

APPLICATIONS : HNM 780322 8 cylinder 'V' pump (MACK engines)

TEST BENCH APPLICATIONS :

MERLIN - Use with M3239 - universal bracket
 BOSCH - Use with M3239 - universal bracket
 HARTRIDGE Use with APB 28/1

PLEASE SPECIFY TEST BENCH MANUFACTURER AND MODEL WHEN ORDERING

M3282

AMERICAN BOSCH 8V BB PUMP

Comprising :-

- 1 Drive coupling
- 1 Taper coupling
- 1 Pump mounting flange
- 1 Mounting flange
- 1 Support bracket for pump

APPLICATIONS : VARIOUS

TEST BENCH APPLICATIONS :

MERLIN - Use with M3239 universal bracket
BOSCH - Use with M3239 universal bracket
HARTRIDGE Use APB 28/1

M3288

MACK TRUCKS NORTH AMERICAN MARKET

Comprising :-

- 1 Oil seal adaptor housing
- 1 Mounting Bracket
- 1 Adjustable support base
- 1 Pump to D.T.I clamp adaptor (vertiscle)
- 1 Pump to D.T.I clamp adaptor (Horizontal)
- 1 D.T.I to test pump adaptor

APPLICATIONS : Robert Bosch pump - PES6 'P'

TEST BENCH APPLICATIONS :

MERLIN - Use with M3239 - universal bracket
BOSCH - Use with M3239 - universal bracket
HARTRIDGE Use with APB 28/1

PLEASE SPECIFY TEST BENCH MANUFACTURER AND MODEL WHEN ORDERING

PUMP MOUNTING (COMPLETE KITS)

M3284

AMERICAN BOSCH PUMP TEST KIT

Comprising :-

- 1 Pump mounting adaptor plate
- 1 Sealing plug assembly
- 1 Rack setting plug 0.168"
- 1 Rack setting plug 0.315"
- 1 Rack setting plug 0.461"
- 1 Rack setting plug 0.482"
- 1 Rack setting plug 0.497"
- 1 Rack setting bracket
- 1 Timing pointer
- 6 High pressure pipes
- 1 Low pressure hose

APPLICATIONS : AMBAC 'BB' (MACK) 6 cylinder

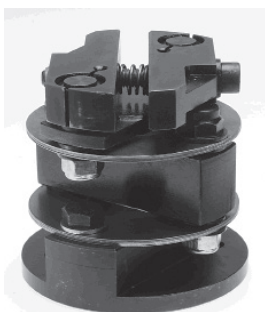
TEST BENCH APPLICATIONS :

- MERLIN - Use with M3239 - universal bracket
- BOSCH - Use with M3239 - universal bracket
- HARTRIDGE Use with APB 28/1

EQUIPMENT & ACCESSORIES

PLEASE SPECIFY TEST BENCH MANUFACTURER AND MODEL WHEN ORDERING

M3290



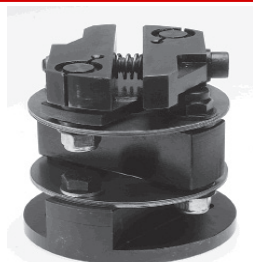
ANTI-BACKLASH TEST COUPLING :

Provides flexible but backlash free drive for distributor type fuel pumps and other applications where backlash is not permitted.

BOSCH Equiv. 1 686 401 028

APPLICATION: MERLIN AND BOSCH TEST BENCHES

M3291

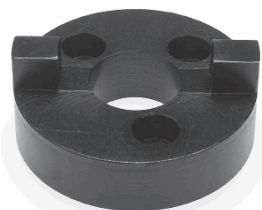


ANTI-BACKLASH TEST COUPLING :

Provides flexible but backlash free drive for distributor type fuel pumps and other applications where backlash is not permitted.

APPLICATION: HARTRIDGE TEST BENCHES

M3292



DRIVE COUPLING - 3 BOLT :

APPLICATION: FORD 2.5 DI C.A.V DPS

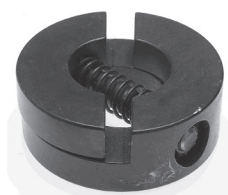
M3293



DRIVE COUPLING :

APPLICATION: ANTI-BACKLASH COUPLING

M3294



SPRING LOADED JAW :

APPLICATION: ANTI-BACKLASH COUPLING

M3299



HALF COUPLING 'A' SIZE :
Drive shaft taper 17mm

M3296



HALF COUPLING 'B' SIZE :
Drive shaft taper 20mm

M3297



HALF COUPLING 'C' SIZE :
Drive shaft taper 22mm

M3298



HALF COUPLING 'Z' SIZE :
Drive shaft taper 25mm

M3299



BOSCH ROTARY PUMP TEST COUPLING :

APPLICATION: MERCEDES, OPEL, PEUGEOT

M3300



BOSCH ROTARY PUMP TEST COUPLING :

APPLICATION: MERCEDES, OPEL, PEUGEOT

M3301



BOSCH ROTARY PUMP TEST COUPLING :

APPLICATION: MERCEDES, OPEL, PEUGEOT

M3302



BOSCH 'P' TYPE COUPLING (LONG) :

APPLICATION: BOSCH PUMPS

M3303



BOSCH 7000 SERIES :

Drive shaft taper 30mm

APPLICATION: BOSCH PUMPS

M3304



BOSCH 7000 SERIES :

Drive shaft taper 35mm

APPLICATION: BOSCH PUMPS

M3305



BOSCH :

Drive coupling complete with fixing bolt.
For use with mounting flange M3267

APPLICATION: MERCEDES 190/200D Late type pumps

M3308



STANADYNE DB2 TEST COUPLING (inc. screws & key)

Slined drive NOT possible
Use with mounting plate M3242 and mounting bracket M3239

APPLICATION: PERKINS 3.152-4 4.236 GEN-SET

M3309



DRIVE COUPLING - 4 BOLT :

APPLICATION: FORD 2.5 DI C.A.V DPS

M3715



DRIVE COUPLING/PULLER :

Equiv. KDEP 1033

APPLICATION: MERCEDES 'P' SIZE PUMPS

M3762

DRIVE COUPLING :

For P7000, P8500 pumps

M3762



DRIVE COUPLING :

APPLICATION: FORD MONDEO

M3326



INJECTOR TESTER : (600 bar)

APPLICATION: ALL INJECTORS

M3328



INJECTOR TESTERS :

Hand held or fitted to an injector in-'situ'

0-350 bar

Integral oil reservoir

Supplied with M12 x 1.5mm & M14 x 1.5mm connectors

APPLICATION: ALL INJECTORS

M3329



BOSCH INJECTOR TESTER : (400 bar)

Bosch No.: 0 681 200 502

APPLICATION: ALL INJECTORS

M3293

NO ILLUSTRATION

FUEL CONTAINER :

For BOSCH Injector tester M3329

M3294

NO ILLUSTRATION

FUEL FILTER :

For BOSCH Injector Tester M3329

M3290



INJECTOR SPRAY DE-ATOMISER :

Compressed air operated
For use with all Injector testers except S400
which has a built-in de-atomiser

M3291



QUICK ACTION INJECTOR TEST PIPES :

For 12 & 14mm threads ('A' size adaptor included,
Gardner adaptor extra)

APPLICATION: ALL INJECTOR TESTERS

EQUIPMENT & ACCESSORIES

M3292



NYLON INSERTS :

For M3333 quick action injector test pipe.

APPLICATION: M3333

M3293



ADAPTOR 'A' SIZE :

For M3333 quick action injector test pipe.
Thread size 12 x 1.5mm

APPLICATION: M3333

M3294

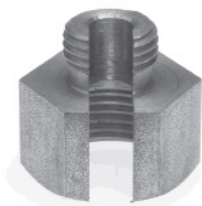


ADAPTOR 'A' SIZE :

For M3333 quick action injector test pipe.
Thread size 1/4" BSP

APPLICATION: M3333

M3290

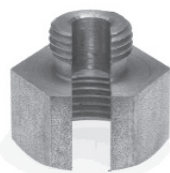


ADAPTORS : CATERPILLAR

Capsule injector for M3333 quick action injector test pipe, thread size 18 x 1.5mm

APPLICATION: M3333

M3291

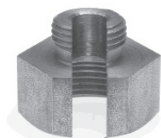


ADAPTORS : CATERPILLAR

Capsule injector for M3333 quick action injector test pipe, thread size 9/16" UNF x 18 T.P.I

APPLICATION: M3333

M3292



ADAPTORS : CATERPILLAR

Capsule injector for M3333 quick action injector test pipe, thread size 5/8" x 18 T.P.I

APPLICATION: M3333

M3293



QUICK ACTION INJECTOR TEST PIPE :

Marine version to suit M22 x 1.5 male thread

APPLICATION: ALL INJECTOR TESTERS

M3294



QUICK ACTION INJECTOR TEST PIPE :

Marine version to suit M27 x 1.5 male thread

APPLICATION: ALL INJECTOR TESTERS

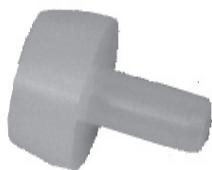
M3342



QUICK ACTION INJECTOR TEST PIPE :
Marine version to suit M27 x 1.5 male thread

APPLICATION: ALL INJECTOR TESTERS

M3343



NYLON INSERTS :
For M3340, M3341, M3342 quick action injector test pipe. Marine version.

APPLICATION: M3333

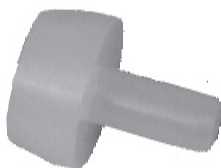
M3344



QUICK ACTION INJECTOR TEST PIPE :
Marine version to suit M30 x 2.0 male thread

APPLICATION: ALL INJECTOR TESTERS

M3345



NYLON INSERTS :
For M3340 quick action injector test pipe. Marine version.

APPLICATION: M3333

M3346



ADAPTOR :
For M3340 quick action injector test pipe.
Thread size 5/8" BSP x M22 x 1.5mm

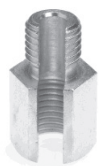
M3347



ADAPTORS : SHORT

For M3340 quick action injector test pipe.
Thread size 7/8" BSP x M22 x 1.5mm

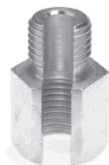
M3348



ADAPTORS : LONG

For M3340 quick action injector test pipe.
Thread size 7/8" BSP x M22 x 1.5mm

M3382

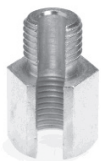


CONVERSION ADAPTOR

M14 x 1.5mm to 22 x 1.5mm
Converts testmaster to accept marine quick action test pipes

APPLICATION : TESTMASTER

M3415



QUICK ACTION ADAPTOR :

M14 x 1.5mm long reach

M3310



SPLIT ADAPTOR :

For M3333 quick action injector test pipe.
Thread size M16 x 1.5mm

M3290



LEYLAND NEEDLE EXTRACTOR :

APPLICATION: LEYLAND MANUFACTURED INJECTORS

M3291



GARDNER SCREWED ROD NEEDLE EXTRACTOR :

APPLICATION: GARDNER MANUFACTURED INJECTORS

M3292



INJECTOR SHIM KIT :
Re-fill shims available

APPLICATION: BOSCH TRUCK APPLICATIONS

M3293



INJECTOR SHIM KIT :
Re-fill shims available

APPLICATION: BOSCH CAR APPLICATIONS

M3294



NEEDLE LIFT GUAGE :
With imperial dial

APPLICATION: INJECTOR SERVICING

M3290



NEEDLE LIFT GAUGE :

With metric dial

APPLICATION: INJECTOR SERVICING

M3291



INJECTOR SHIM KIT :

7.35mm diameter

APPLICATION: JAPANESE APPLICATIONS

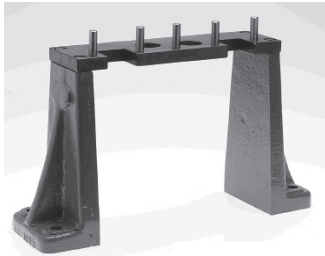
M3290



PUMP STRIPPING VICE :

APPLICATION: VARIOUS

M3291



INJECTOR STRIPPING JIG :

Accommodates all injectors with 'S' and 'M' nozzles

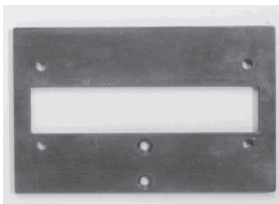
M3292

NO ILLUSTRATION

UNIVERSAL PUMP VICE :

Bench mounted universal clamp with hand operated lock.
Complete with 'A' and 'B' size 6 cylinder pump plates

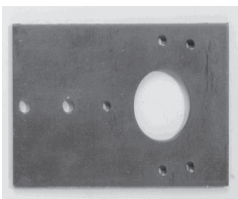
M3293



N AND NN PUMP PLATE :

APPLICATION: M3417

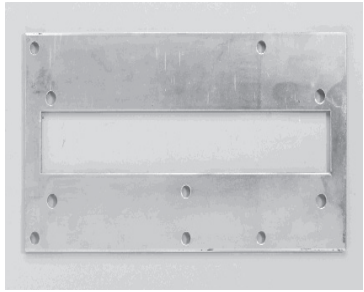
M3294



DPA PUMP PLATE :

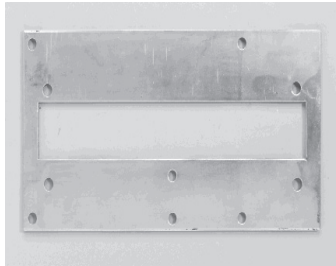
APPLICATION: M3417

M3290



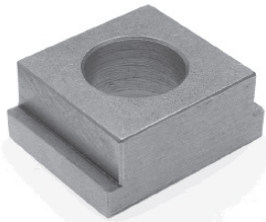
Z PUMP PLATE :

M3291



8 cylinder PUMP PLATE :

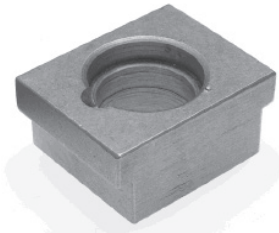
M3292



INJECTOR STRIPPING JIG :
26mm diameter

APPLICATIONS : MERCEDES

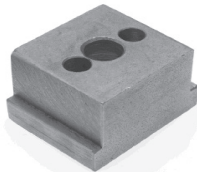
M3293



INJECTOR STRIPPING JIG :
28mm diameter

APPLICATIONS : MERCEDES, MAN

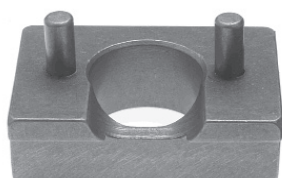
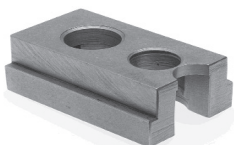
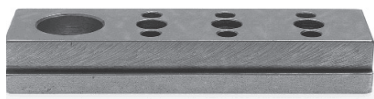
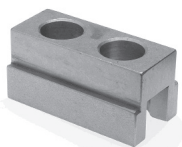
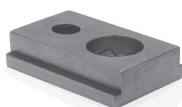
M3294



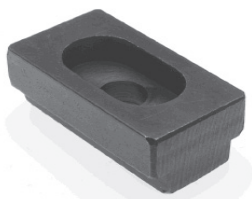
INJECTOR STRIPPING JIG :

APPLICATIONS : FORD CAR

DISMANTLING & INJECTOR STRIPPING EQUIPMENT

M3425**INJECTOR STRIPPING JIG :****APPLICATIONS :** BAR INJECTOR**M3426****INJECTOR STRIPPING JIG :****APPLICATIONS :** CAV FLANGED**M3427****INJECTOR STRIPPING JIG :****APPLICATIONS :** FIAT**M3428****INJECTOR STRIPPING JIG :****APPLICATIONS :** MERCEDES, OPEL**M3429****INJECTOR STRIPPING JIG :****APPLICATIONS :** FIAT (LARGE)**M3429****INJECTOR STRIPPING JIG :****APPLICATIONS :** CAV CAR (Golf type)

M3431



INJECTOR STRIPPING JIG :

APPLICATION: ROTO DIESEL

M3432

NO ILLUSTRATION

INJECTOR STRIPPING JIG :

Bench or vice mounted
Floating pin for automotive flange type injectors. Also suitable for injectors 15mm AF

M3433



INJECTOR REMOVER :

Enables safe, easy and damage free removal of flange or clamp retained injectors.
Suits injectors fitted to Bedford, DAF, Fiat, Ford, Leyland, Mercedes, Perkins, Scania, Volvo etc.

M3434



CUMMINS INJECTOR STRIPPING JIG :

M3435

NO ILLUSTRATION

BOSCH INJECTOR SOCKET SET :

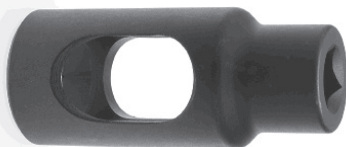
APPLICATIONS : DISMANTLING & RE-BUILDING BOSCH INJECTORS

M3436

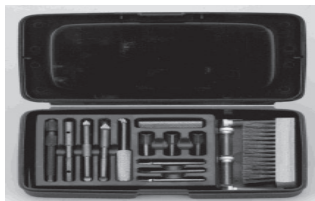


STANDYNE INJECTOR REMOVER :

CLEANING KITS & EQUIPMENT

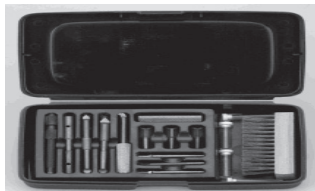
M3479**INJECTOR REMOVAL SOCKET : 22mm****APPLICATIONS : CAR****M3480****INJECTOR REMOVAL SOCKET : 30mm****APPLICATIONS : GENERAL****M3488****SOCKET FOR INJECTOR RETAINING NUT :****APPLICATIONS : MERCEDES****M3549****INJECTOR REMOVAL SOCKET : 28mm****APPLICATIONS : GENERAL****M3555****INJECTOR REMOVAL SOCKET :
22mm NIPPONDENSO INJECTORS****APPLICATIONS : CAR****M3750****MACK/RENAULT TEST ADAPTOR :**

M3438



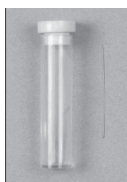
INJECTOR CLEANING KIT :
'S' size injectors

M3439



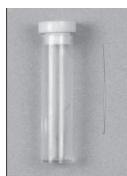
INJECTOR CLEANING KIT :
'S' size injectors in strong wooden box

M3440



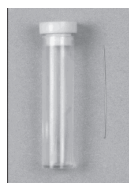
PRICKER WIRE PHIAL: 0.18mm

M3441



PRICKER WIRE PHIAL: 0.20mm

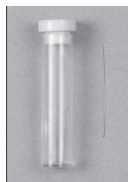
M3442



PRICKER WIRE PHIAL: 0.22mm

CLEANING KITS & EQUIPMENT

M3443



PRICKER WIRE PHIAL: 0.18mm

M3444



PRICKER WIRE HOLDER

M3445



BRASS WIRE BRUSH :

FOR MERLIN AUTOLAP 200 & HARTRIDGE INJECTOMATIC

STONE TIPPED LAPS

SHAFT COMPLETE WITH STONE TIP (Unit of sale : 1)

<u>PART No.</u>	<u>HARTRIDGE REF</u>	<u>DESCRIPTION</u>
M3355	HK119	Sulzer RD 90/96
M3356	HK173	MAN 11mm
M3357	HK178	MAN
M3358	HK084	6mm short stem 'S' type
M3359	HK083	6mm long stem 'S' type / Leyland 'old' type
M3360	HK087	Leyland 'late' type
M3361	HK110	4.5mm long stem AMBAC
M3362	HK098	10mm long stem 'U' type
M3363	HK081	6mm Bosch / Fiat
M3364	HK082	5mm short stem 'S' type
M3365	HK088	Gardner LW type
M3366	HK112	Gardner LX types (90 deg Seat)
M3367	HK085	6mm short stem 'T' type
M3368	HK095	8mm long stem 'T' type
M3369	HK086	7mm short stem 'T' type
M3370	HK096	8mm short stem 'T' type
M3371	HK097	10mm 'U' type (nozzle length below 80mm)
M3372	HK099	12mm long stem 'P' type
M3373	HK117	4mm long stem Bosch 'P' type
M3383	HK180	Pielstick PC2
M3384	HK206	Sulzer RD 90
M3385	HK207	Sulzer RD 56
M3386	HK208	Pielstick PC3
M3400	HK114	5mm long stem 'S' type
M3401	HK115	5.5mm long stem 'S' type (LRB)

STONE TIPS

(Unit of sale : 1)

<u>PART No.</u>	<u>HARTRIDGE REF</u>	<u>USED WITH FOLLOWING LAPS</u>
M3374	HK123	M3363, M3359, M3366, M3400, M3401
M3375	HK124	M3360, M3361, M3355
M3376	HK121	M3358, M3368, M3369
M3377	HK127	M3362, M3371
M3379	HK122	M3364
M3380	HK125	M3365
M3381	HK120	M3367
M3402	HK126	M3370
M3403	HK130	M3385
M3404	HK131	M3356
M3450	HK128	M3372
M3451	HK193	M3383
M3452	HK198	M3384
M3453	HK200	M3386

NOZZLE LAPPING TOOLS/STONE TIPS

M3387

(OLD cross ref. B8424)

STONE LAP (TIP) DRESSING ATTACHMENT AND MAGNIFIER ASSEMBLY

Comprising :

Dressing attachment clamp rear
Dressing attachment clamp front
Securing Screw
Adjustable diamond holder
Securing Screw
Diamond Tip
Knurled lock nut
Knurled adjusting screw
Magnifying glass holder
Magnifying glass
Swivel clamp
Support rod for magnifier
Swivel clamp
Screwed support rod for holder

APPLICATIONS: Merlin NR1 & NR2 servicemaster,
also early models CT & R1
For use with Merlin Autolap 200 & Injectomatic

HAND LAPS WITH CAST IRON TIPS

<u>PART No.</u>	<u>DESCRIPTION</u>	<u>APPLICATION</u>
M3388	LAP 4mm	BOSXH 'P' TYPE
M3389	LAP 4.5mm	AMBAC & CAV
M3390	LAP 5mm SHORT STEM	PINTLE NOZZLE UNIVERSAL
M3391	LAP 5mm LONG STEM	FIAL BDL TYPE
M3392	LAP 6mm SHORT STEM	CAV BRYCE BDL TYPES
M3393	LAP 6mm LONG STEM	CAV BOSCH
M3394	LAP 0.200" LAYLAND	LEYLAND LATE TYPE
M3395	LAP 0.250" GARDNER	GARDNER TIPS
M3396	LAP 7mm LONG STEM 'T' size	BRYCE
M3397	LAP 8mm	BRYCE & UNIVERSAL
M3398	LAP 10mm	BRICE 'U' TYPE
M3399	LAP 10mm Nozzle type	BRYCE

LAPPING PASTE

<u>PART No.</u>	<u>DESCRIPTION</u>	<u>APPLICATION</u>
M3585	EXTRA COARSE	NOZZLE RE-CONDITIONING
M3586	COARSE	NOZZLE RE-CONDITIONING
M3587	MEDIUM	NOZZLE RE-CONDITIONING
M3588	FINE	NOZZLE RE-CONDITIONING
M3589	SUPER FINE	NOZZLE RE-CONDITIONING
M3590	TALLOW	NOZZLE RE-CONDITIONING

M3405

NO ILLUSTRATION

ADAPTOR

'S' size short and long stem

M3406

NO ILLUSTRATION

ADAPTOR

'T' size short stem

M3407

NO ILLUSTRATION

ADAPTOR

AMBAC / LEYLAND

M3408

NO ILLUSTRATION

ADAPTOR

Leyland / Gardner

M3409

NO ILLUSTRATION

ADAPTOR

Gardner used with M3408

M3410

NO ILLUSTRATION

ADAPTOR

Short

M3411

NO ILLUSTRATION

ADAPTOR

Long

M3412

NO ILLUSTRATION

ADAPTOR
'V' size

M3413

NO ILLUSTRATION

ADAPTOR
'V' size

M3466

NO ILLUSTRATION

NOZZLESCOPE KIT

For inspection of injector nozzle and needle seats. The special light probe and magnifier lens provide perfect viewing of the nozzle seat and sac area. A separate light and vee-block mounting is included for needle seat inspection. Battery operated, the kit with covers nozzles of all sizes is supplied in a foam plastic lined case complete with a spare bulb for each attachment.

M3466A



SPARE BULB FOR M3466

M3467

NO ILLUSTRATION

FLEXIBLE INSPECTION LIGHT & MAGNET

22cm long flexible stem
27cm long extension handle
Includes miniature magnet powerful enough to pick up small tools. Powered by two AA batteries (not included)

M3468



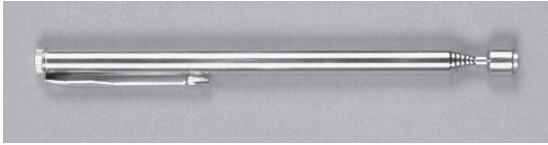
AIR BLOW GUN

M3469



INSPECTION MIRROR

M3470



TELESCOPIC PICK-UP MAGNET

M3471



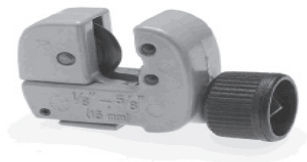
TOOL PICK-UP CLAW

M3472



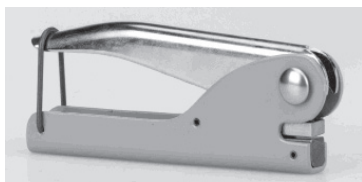
GASKET SCRAPER

M3473



PIPE CUTTER
For 1/8" - 5/8" O.D tubing

M3474



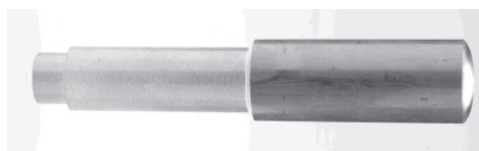
SEALING PLIERS
Supplied with up to 3 characters

GENERAL TOOLS & ACCESSORIES

M3475

NO ILLUSTRATION

REPLACEMENT ANVIL
(LETTERS FOR PLIERS)

M3476

BOSCH EP/VE BODY BUSH ASSEMBLY TOOL

M3477

TORQUE KEY

APPLICATION : DPS

M3479

INJECTOR REMOVAL SOCKET
27mm

APPLICATION : CAR

M3480



INJECTOR REMOVAL SOCKET
30mm

APPLICATION : GENERAL

M3481



CAM ADVANCE STUD SOCKET
Equiv. 7244-125B

APPLICATION : DPA

M3482



3 BOLT DRIVE EXTRACTOR

APPLICATION : FORD 2.5 DIRECT INJECTION

M3435

NO ILLUSTRATION

BOSCH INJECTOR SOCKET SET

APPLICATION : DISMANTLING & REBUILDING
BOSCH INJECTORS

M3549



INJECTOR REMOVAL SOCKET
28mm

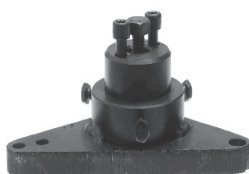
APPLICATION : GENERAL

M3555**22mm NIPPONDENSO DIESEL KIKI INJECTOR SOCKET**

APPLICATION : VAUXHALL, OPEL, NISSAN,
MITSUBISHI, VW

M3556**4 BOLT DRIVE EXTRACTOR**

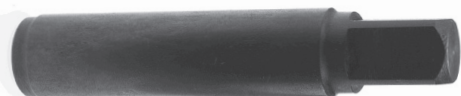
APPLICATION : FORD 2.5 DIRECT INJECTION

M3483**COUPLING EXTRACTOR**

APPLICATION : LANDROVER, FREIGHT ROVER

M3484**1" x 1/2" SQUARE SOCKET**

APPLICATION : BOSCH VE

M3485

TRANSFER PRESSURE SOCKET
Equiv. KDEP 1086

APPLICATION : BOSCH EP/VA & VE

M3486



CAM ADVANCE SOCKET
DPC/DPS

APPLICATION : CAV

M3487



TRIANGULAR SOCKET
Equiv. KDEP 1087

APPLICATION : BOSCH EP/VE

M3488



SOCKET FOR INJECTOR RETAINING NUT
Equiv. KDEP 1087

APPLICATION : MERCEDES

M3489



THROTTLE BUSH TOOL SET
Equiv. KDEP 1132

APPLICATION : BOSCH EP/VE

M3490



GOVERNOR ADJUSTING SOCKET
Equiv. KDEP 1082

APPLICATION : BOSCH EP/VE

M3491



D/VALVE SOCKET
Equiv. KDEP 2902

APPLICATION : BOSCH

M3492



SOCKET ADVANCE SCREW
Equiv. 7244-573

APPLICATION : CAV DPS

M3493



RQ GOVERNOR WRENCH
Equiv. KDEP 2988

APPLICATION : BOSCH

M3494



GEAR WRENCH 33mm DIAMETER
Equiv. KDEP 1132

APPLICATION : MERCEDES

M3495



PULLER FOR SPLINED GEARS
Up to 33mm Diameter

M3496



D/VALVE SOCKET
Equiv. KDEP 2986

APPLICATION : BOSCH

M3497



D/VALVE SOCKET
Equiv. 7044-661

APPLICATION : MAJORMEC & 'NN'

M3498



D/VALVE SOCKET
Equiv. ST9

APPLICATION : MINIMEC

M3499



D/VALVE SPANNER
Equiv. KDEP 2887

APPLICATION : BOSCH

M3500



D/VALVE SOCKET
Equiv. ST 150

APPLICATION : MICROMECC

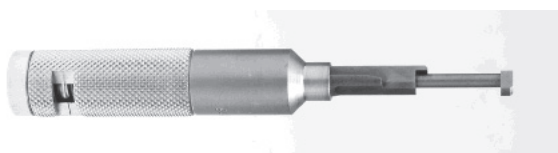
M3501



TAPPET LIFTER
Equiv. KDEP 1044

APPLICATION : MERCEDES CAR

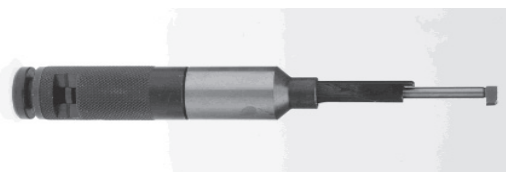
M3502



TAPPET LIFTER
Equiv. KDEP 1068

APPLICATION : BOSCH MW LOW LIFT

M3503



TAPPET LIFTER
Equiv. KDEP 1051

APPLICATION : BOSCH MW LOW LIFT

M3504



TAPPET LIFTER
Equiv. KDEP 1041

APPLICATION : BOSCH PES-P-A

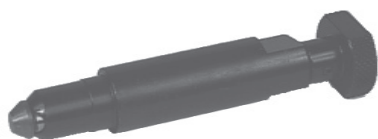
M3505



TAPPET LIFTER
Equiv. KDEP 2912

APPLICATION : BOSCH PES-A

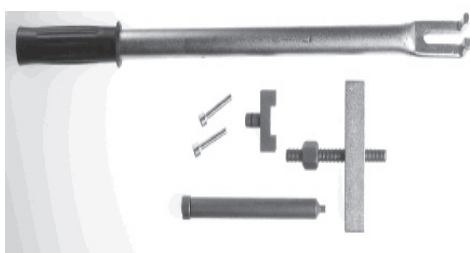
M3506



TAPPET LIFTER
Equiv. KDEP 1553

APPLICATION : BOSCH 7000 pumps

M3507



TAPPET LIFTER
Equiv. KDEP 1505

APPLICATION : BOSCH

M3510



TAPPET LIFTER
Equiv. KDEP 1056

APPLICATION : BOSCH MW

M3511



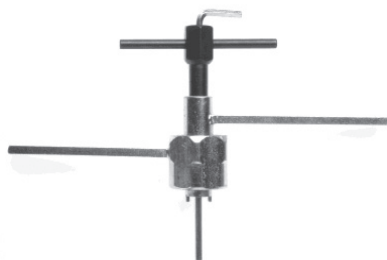
17mm REAMER ONLY
For use with M3516
Body Bush Reamer Kit

M3512



20mm REAMER ONLY
For use with M3516
Body Bush Reamer Kit

M3513



UNIVERSAL GOVERNOR
Setting Tool

M3514



SCREWDRIVER
For transfer pump securing screws

APPLICATION : BOSCH EP/VE

M3515

NO ILLUSTRATION

BEARING ASSEMBLY TOOLS
Equiv. 1804-809 B/C/D

APPLICATION : MINIMEC

M3516



BODY BUSH REAMER KIT
20mm Diameter

APPLICATION : BOSCH VE

M3517



BODY BUSH REAMER KIT
20mm Diameter

APPLICATION : BOSCH VE

M3518



TRANSFER PRESSURE ADAPTOR

Thread size 1/2" UNF
Equiv. 7144-499

APPLICATION : DPA

M3519



TRANSFER PRESSURE ADAPTOR

Thread size 7/16" UNF
Equiv. 7144-499G

APPLICATION : DPA

M3520



TRANSFER PRESSURE ADAPTOR

Thread size 12 x 1.5mm
Equiv. 7244-410A

APPLICATION : DPA DPS

M3521



TRANSFER PRESSURE ADAPTOR

Thread size 14 x 1.5mm
Equiv. 7244-571

APPLICATION : DPA DPS

M3220



TRANSFER PRESSURE ADAPTOR

5/16" UNF x 3/8" BSP
Equiv. DPA20A

APPLICATION : TEST BENCH CAV DPA

M3221**TRANSFER PRESSURE ADAPTOR**

8mm x 3/8" BSP

Equiv. 1804-442

APPLICATION : TEST BENCH CAV DPC, ROTODIESEL**M3522****ADJUSTING SPANNER**

Equiv. 7244-586

APPLICATION : DPS BOOST CONTROL**M3523****SPRING ADJUSTER**

Equiv. 7244-584

APPLICATION : DPS TURBO**M3524****OIL SEAL EXTRACTOR - 17mm**

Equiv. KDEP 1113

APPLICATION : VA/VE**M3525****OIL SEAL EXTRACTOR - 20mm**

Equiv. KDEP1114

APPLICATION : VE

M3526



PUMP COMPONENT TRAY

APPLICATION : IN-LINE PUMPS

M3527



PUMP COMPONENT TRAY

APPLICATION : ROTARY PUMPS

M3528

NO ILLUSTRATION

TORQUE WRENCH

APPLICATION : CUMMINS TOP STOP INJECTORS

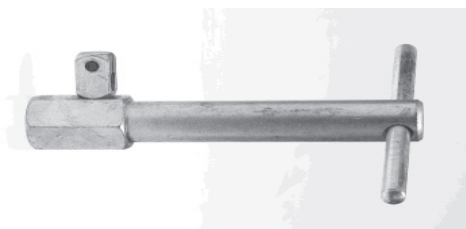
M3529



BARREL SEAT CUTTER
Equiv. KDEP 2955

APPLICATION : BOSCH

M3530



CAMSHAFT END FLOAT TOOL
Equiv. KDEP 2829

APPLICATION : BOSCH

GENERAL TOOLS & ACCESSORIES

M3531

NO ILLUSTRATION

HYDRAULIC NIPPLE FORMER
Complete with 6mm collets and die

M3532

NO ILLUSTRATION

8mm COLLET AND DIE SET
For M3531 Hydraulic nipple former

M3533

NO ILLUSTRATION

NIPPLE FORMING TOOL
For cold forming nipple ends on high pressure injector pipes.
A hand operated, vice mounted portable tool with hydraulic ram,
supplied complete with 6mm diameter collets, former and
setting piece.

M3534

NO ILLUSTRATION

COLLET SETS
For 8mm diameter pipe for M3533
Merlin S9 nipple forming tool.

M3535

NO ILLUSTRATION

COLLET SETS
For 10mm diameter pipe for M3533
Merlin S9 nipple forming tool.

M3536



PIPE BENDING JIG
An aid to forming injector pipes to engine
requirements.

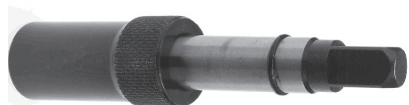
M3537



BUSH EXTRACTOR
Equiv. KDEP 1027

APPLICATION : VE

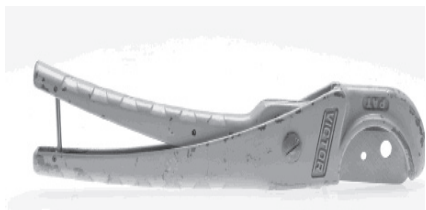
M3538



FLTWEIGHT PIN WRENCH
Equiv. KDEP 2998

APPLICATION : RSV

M3539



NYLON TUBE CUTTER

NOTE : See also Fuel Hose Cutter Pt No: M3710

M3541



D/VALVE SPANNER
Equiv. KDEP 2887

APPLICATION : BOSCH

GENERAL TOOLS & ACCESSORIES

M3542



24mm HEXAGONAL WRENCH
For solenoid valve

APPLICATION : CAV PUMPS

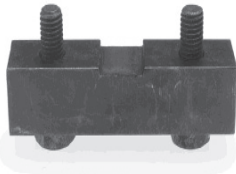
M3543



TRANSFER PRESSURE ADAPTOR
Equiv. Hartridge 7244-382

APPLICATION : DPS FUEL PUMPS

M3544



BOSCH EXTRACTION TOOL

APPLICATION : FORD 1.6 PUMP EXTRACTOR

M3545



SOCKET (TRIANGULAR)
Equiv. KDEP 1080

APPLICATION : BOSCH VE

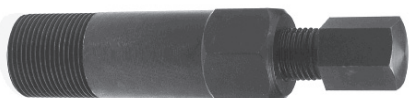
M3546



ADJUSTING TOOL
Equiv. CAV 7244-581
CAV 7244-582
(2 pieces)

APPLICATION : DPS TURBO

M3547



FLYWEIGHT PULLER
Equiv. KDEP 2886

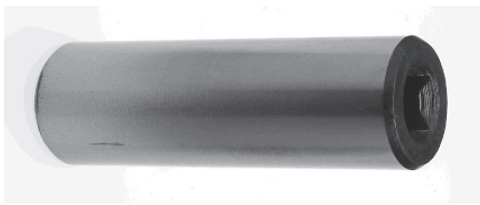
APPLICATION : BOSCH RSV RQ-V GOVERNORS

M3548



COUPLING PULLER
Equiv. KDEP 2916

M3550



DELIVERY VALVE HOLDER SOCKET

APPLICATION : FIAT / ALTECNA

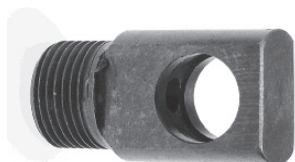
M3551



12mm TEST BANJO

APPLICATION : VARIOUS

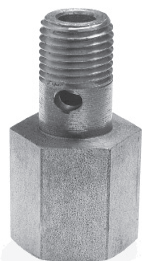
M3552



14mm TEST BANJO

APPLICATION : VARIOUS

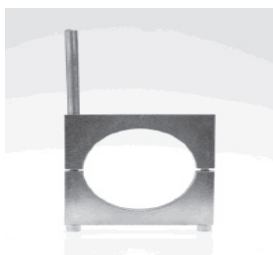
M3553



VE TRANSFER PRESSURE/RETURN FLOW BANJO STUD
Equiv. 1 683 456 000

APPLICATION : BOSCH VE PUMPS

M3554



COUPLING CLAMP
Equiv. KDEP 1545

APPLICATION : MERCEDES 190D

M3557



DRIVE SHAFT OIL SEAL ASSEMBLY TOOL

APPLICATION : DPC

M3558



SPECIAL TOOL TO INSERT 'C' CLIP ON TO PLUNGER BARREL ASSEMBLY
Equiv. KDEP 1046

APPLICATION : BOSCH 'P' SIZE PUMPS

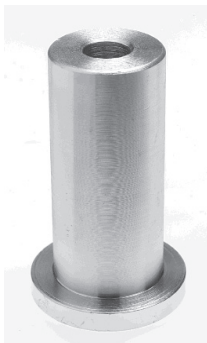
M3559



PLUG
Equiv. 1804-605

APPLICATION : SOLENOID TEST

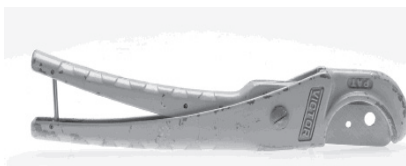
M3709



DRIVE SHAFT SEAL ASSEMBLY TOOL
Equiv. 7244-445A

APPLICATION : DPS

M3710



FUEL HOSE CUTTER

M3716



GOVERNOR CHECKING TOOL
Equiv. 1 682 329 038

APPLICATION : BOSCH RQV RQ

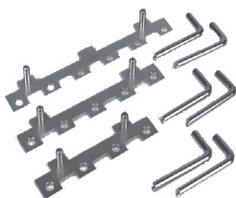
M3717



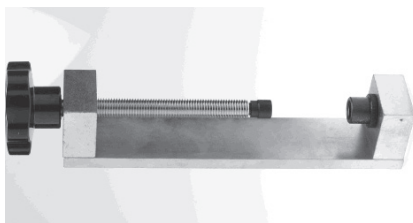
TORQUE CAPSULE SOCKET
Equiv. KDEP 2968

APPLICATION : BOSCH RSV

GENERAL TOOLS & ACCESSORIES

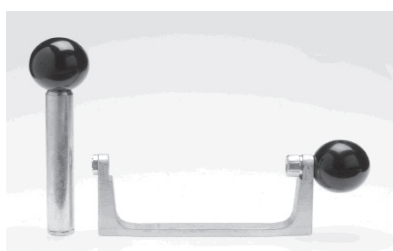
M3720**22mm SOCKET WITH WINDOW****APPLICATION :** VARIOUS**M3721****14mm & 10mm SOCKET**
Equiv. KDEP 1047**APPLICATION :** BOOST CONTROL**M3726****BOSCH TAPPET HOLDER****APPLICATION :** MERCEDES 5 & 5 Cylinder**M3733****HEATSHIELD WASHER EXTRACTOR (LONG)****M3734****HEATSHIELD WASHER EXTRACTOR (SHORT)**

M3735



INJECTOR ASSEMBLY TOOL

M3736



PLASTIC LOCK INSERT TOOLS

Equiv. KDEP 1187
KDEP 1188

APPLICATION : BOSCH VE ALL GOV.

M3737



GOVERNOR SPRING ADJUSTER SOCKET

Equiv. KDEP 1643

M3738



PRE-CHAMBER SOCKET

APPLICATION : MERCEDES

M3739



28mm INJECTOR SOCKET WITH WINDOW

APPLICATION : VW GOLF, ALFA ROMEO

GENERAL TOOLS & ACCESSORIES

M3740



INJECTOR SOCKET WITH EXTRACTOR

APPLICATION : MERCEDES

M3741



SOCKET FOR EDC COVER

APPLICATION : BOSCH

M3742



T.A.S TIMING TOOL

APPLICATION : FORD EUROCARGO

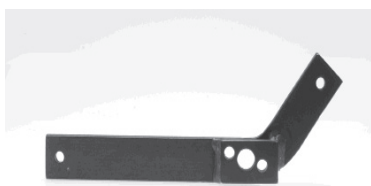
M3743



EXTRACTOR FOR PULLEY

APPLICATION : BMW 525

M3744



EXTRACTOR & PULLEY HOLDER
Equiv. KDEP 1156

APPLICATION : BMW 300 SERIES

M3745



'V' BELT EXTRACTOR

APPLICATION : BMW 325

M3746



MINI PULLER FOR BAR TYPE INJECTORS
(M14 x 1.5mm & M12 x 1.5mm sizes)

APPLICATION : FIAT etc.

M3748



AIR BELL FOR LEAK TESTSR

APPLICATION : BOSCH PUMPS

M3749



TAPPET LIFTER
8500 series

GENERAL TOOLS & ACCESSORIES

M3754



DRIVE SHAFT SOCKET

APPLICATIONS : PEUGEOT, CITROEN

M3755



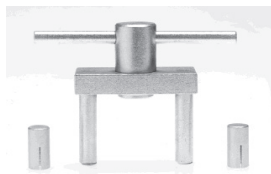
LATE DPC SIDE COVER PLUG SOCKET

M3763



'P' SIZE TAPPET LIFTER

M3766



PULLER

M3767



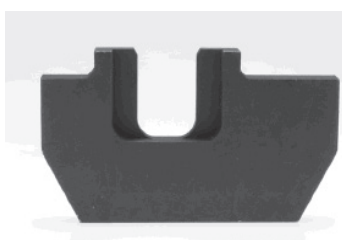
DPC & DPS STRIPPING PLATE

M3773



WIRE BUFFING WHEEL

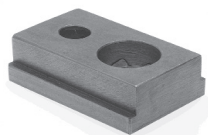
M3778



TIMING BRACKET

APPLICATIONS : BMW 525

M3786



INJECTOR STRIPPING JIG
22mm JAPANESE INJECTORS

M3787



27mm SOCKET WITH WINDOW

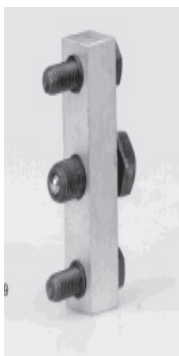
APPLICATIONS : BMW, FORD, ROVER

M3788



INJECTOR EXTRACTOR

GENERAL TOOLS & ACCESSORIES

M3789**PUMP EXTRACTOR****APPLICATION : AUDI****M3791****PRINTER PAPER FOR MERLIN MACHINES****M3797****TAPPET REMOVER**
BOSCH 7000 Series**M3817****DPA T-P SCREW, SOCKET**

M3830



22mm DEEP SOCKET

APPLICATION : MERCEDES, PEUGEOT

M4999



**22mm NIPPONDENSO - DIESEL KIKI
INJECTOR SOCKET**

APPLICATION : VAUXHALL, OPEL, NISSAN,
MITSUBISHI, VOLKSWAGON.

M5000



27mm CAR INJECTOR SOCKET

M5001



BOSCH SPANNER SET
Equiv. KDEP 2922

GENERAL TOOLS & ACCESSORIES

M3830



BOSCH ADJUSTING SPANNER
Equiv. KDEP 1071

PART NUMBER	DESCRIPTION		APPLICATION
M3560	VARIABLE SPEED Drive Belt	1	M6 TEST BENCH
M3561	VARIABLE SPEED Drive Belt	1	M8/7.5 HP TEST BENCH
M3563	VEE BELT	1	MM5 & 7.5 HP TEST BENCH
M3563	VARIABLE SPEED Drive Belt	1	MM5 & 7.5 HP TEST BENCH
M3564	VARIABLE SPEED Drive Belt	1	MM5 & 7.5 HP TEST BENCH
M3565	VARIABLE SPEED Drive Belt	1	MM10 HP TEST BENCH
M3566	VARIABLE SPEED Drive Belt	1	MM10 HP TEST BENCH
M3567	VEE BELT	1	MM10 HP TEST BENCH
M3568	VEE BELT	1	MERLIN AUTOLAP 200
M3569	TIMING BELT 540-H100	1	MERLIN DC1210 TEST BENCH
M3570	DRIVE BELT 2" WIDE 700-H200	1	MERLIN DC1230 TEST BENCH
M3571	TIMING BELT	1	MERLIN INJECTOR COMPARATOR CAM BOX DRIVE
M3572	TIMING BELT 50 Hz machines	1	MERLIN INJECTOR COMPARATOR CAM BOX DRIVE
M3573	COOLANT PUMP DRIVE BELT	2	MERLIN VM1 VALVEGRINDER
M3574	FLAT DRIVE BELT	3	MERLIN SERVICEMASTER MODELS CT & R1
M3575	WORKHEAD DRIVE BELT	4	MERLIN VALVEGRINDER MB430
M3576	WORKHEAD DRIVE BELT	4	MERLIN VALVEGRINDER MB430
M3577	GRINDING HEAD DRIVE BELT	4	MERLIN VALVEGRINDERS MB430, VM1, VM3 & NR1
M2578	WOODHEAD DRIVE TIMING BELT 75 teeth	5	MERLIN VM1, VALVEGRINDER
M3579	WOODHEAD DRIVE TIMING BELT 84 teeth	5	MERLIN VM1, VALVEGRINDER
M3580	GRINDING HEAD DRIVE BELT	2	MERLIN VM1, VALVEGRINDER
M3581	GRINDING HEAD DRIVE BELT M20	2	MERLIN VM1 & NR1
M3582	LAPPER ATTACHMENT Drive Belt	2	MERLIN MODEL NR1
M3583	WORKHEAD DRIVE BELT	2	MERLIN MODEL NR1
M3584	NEEDLE/LAP DRIVE TYRE	6	MERLIN MODEL NR1, R1,& CT

<u>PART NUMBER</u>	<u>DESCRIPTION</u>
M3585	EXTRA COARSE
M3586	COARSE
M3587	MEDIUM
M3588	FINE
M3589	SUPER FINE
M3590	TALLOW



M3591 **PLUNGER & BARREL**

APPLICATIONS : INJECTOR TEST UNIT S31, S31M, S21, S40

M3592 **ELECTRONIC COUNT**
Unit conversion

APPLICATIONS : ALL TEST BENCHES

M3593 **TACHOMETER**
Conversion analogue to digital

APPLICATIONS : ALL TEST BENCHES

<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>APPLICATION</u>
M3594	LUBE OIL (Cartridge filter)	ALL MERLIN TEST BENCHES
M3595	HYDRAULIC FILTER	ALL MERLIN TEST BENCHES
M3596	FUEL FILTER	ALL MERLIN TEST BENCHES
M3597	HYDRAULIC OIL FILTER	ALL MERLIN TEST BENCHES
M3598	OIL FILTER	MERLIN HYDRA MK4 TEST BENCH
M3599	FUEL FILTER	MERLIN M6, M8, NH8 TEST BENCH
M3600	MANN FILTER	HYDRA MK4 TEST BENCH
M3601	FILTER	S21, S31, S11A
M3602	FUEL OIL (Cartridge filter)	ALL MERLIN TEST BENCHES
M3603	FILTER BRACKET	ALL MERLIN TEST BENCHES
M3604	SUCTION STRAINER (Small)	ALL MERLIN TEST BENCHES
M3605	SUCTION STRAINER (Large)	ALL MERLIN TEST BENCHES
M3606	DIFFUSER	ALL MERLIN TEST BENCHES
M3607	OIL FILLER CAP	ALL MERLIN TEST BENCHES

MERLIN FUEL SUPPLY PUMPS & DRIVE COUPLINGS

<u>PART NUMBER</u>	<u>DESCRIPTION</u>
M3608	FUEL SUPPLY PUMPS Ref : Pump Type 1PB/3D APPLICATIONS: MERLIN TEST BENCH
M3609	FUEL SUPPLY PUMPS Ref : Pump Type 1PB/4.5 APPLICATIONS: MERLIN TEST BENCH
M3610	SUPPLY PUMP DRIVE COUPLING Early Model APPLICATIONS: MERLIN TEST BENCH
M3611	RUBBER INSERT Early model APPLICATIONS: MERLIN TEST BENCH
M3612	SUPPLY PUMP DRIVE COUPLING Later Model APPLICATIONS: MERLIN TEST BENCH
M3613	SUPPLY PUMP COUPLING LATER MODEL APPLICATIONS: MERLIN TEST BENCH

<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>APPLICATION</u>
M3614	250cm³ capacity	MERLIN HEAVY DUTY MK4 & 5
M3615	1000cm³ capacity	MERLIN HEAVY DUTY MK4 & 5
M3616	0-21cm³ capacity	MERLIN MM SERIES KM SERIES M6 M8 / 7.5
M3617	0-100cm³ capacity	MERLIN MM
M3618	0-50cm³ capacity	MERLIN KM M6 M8 / 7.5
M3619	0-300cm³ capacity	MERLIN H1210/6 1210E CH1210/4

<u>PART NUMBER</u>	<u>DESCRIPTION</u>
M3620	VEE BLOCKS Set of 4 to 7mm diameter APPLICATIONS : MERLIN CT, R1, NR1, & NR2 SERVICEMASTER MODELS
M3621	VEE BLOCKS 1" long to 7mm diameter APPLICATIONS : MERLIN CT, R1, NR1, & NR2 SERVICEMASTER MODELS
M3622	VEE BLOCKS 3/4" long to 7mm diameter APPLICATIONS : MERLIN CT, R1, NR1, & NR2 SERVICEMASTER MODELS
M3623	VEE BLOCKS 3/8" long to 7mm diameter APPLICATIONS : MERLIN CT, R1, NR1, & NR2 SERVICEMASTER MODELS
M3624	VEE BLOCKS Oversize 8 - 13mm diameter (set of 2) APPLICATIONS : MERLIN CT, R1, NR1, & NR2 SERVICEMASTER MODELS
M3625	VEE BLOCKS Oversize 14 - 25mm diameter (set of 2) APPLICATIONS : MERLIN CT, R1, NR1, & NR2 SERVICEMASTER MODELS
M3626	15° ANGLE VEE BLOCK & BACKSTOP APPLICATIONS : MERLIN CT, R1, NR1, & NR2 SERVICEMASTER MODELS

<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>APPLICATION</u>
M3627	5" diameter x 1/2" wide x 1/2" bore - 46 GRIT	VALVE MASTER MODELS VM1 & VM3
M3628	5" diameter x 1/2" wide x 1/2" bore - 60 GRIT	VALVE MASTER MODELS VM1 & VM3
M3629	4" diameter x 1/2" wide x 1/2" bore - 46 GRIT	VALVE MASTER MODELS VM1 & VM3
M3630	4" diameter x 1/2" wide x 1/2" bore - 60 GRIT	VALVE MASTER MODELS VM1
M3631	6" diameter x 1/2" wide x 1/2" bore - 46 GRIT	VALVE MASTER MODELS VM1, VM/MB430
M3632	6" diameter x 1/2" wide x 1/2" bore - 60 GRIT	VALVE MASTER MODELS VM1, VM/MB430
M3633	6" diameter x 1/2" wide x 1/2" bore - 100 GRIT	VALVE MASTER MODELS VM / MB430
M3634	*4" diameter x 1/2" wide x 1/2" bore - 80 GRIT	GENERAL PURPOSE

* AVAILABLE WITH ALTERNATIVE 5/8" BORE FOR EARLY SERVICE
MASTER MODELS (CT & R1) PLEASE SPECIFY WHEN ORDERING

MERLIN GRINDING WHEELS

<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>APPLICATION</u>
M3635	4" diameter x 1/2" wide x 1/2" bore - 240 GRIT	SERVICE MASTER MODELS NR1 & NR2
M3636	4" diameter x 1/2" wide x 1/2" bore - 240 GRIT	SERVICE MASTER MODELS NR1 & NR2

*** AVAILABLE WITH ALTERNATIVE 5/8" BORE FOR EARLY SERVICE
MASTER MODELS (CT & R1) PLEASE SPECIFY WHEN ORDERING**

<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>APPLICATION</u>
M3638	PRESSURE GUAGE 4" diameter - Dual scale 0-600 lbs in ² x 0 - 4 bar (Pressure phasing)	MERLIN TEST BENCH HD MK5, MM SERIES, H 1210/6, 1210e, 1230
M3639	PRESSURE GUAGE 4" diameter - Dual scale 0-200 lbs in ² x 0 - 14 bar (Auxilliary)	MERLIN TEST BENCH HD MK5, MM SERIES, H 1210/6, 1210e, 1230
M3640	PRESSURE GUAGE 4" diameter - Dual scale 0-100 lbs in ² x 0 - 7 bar (Lube oil)	MERLIN TEST BENCH HD MK5, MM SERIES, H 1210/6, 1210e, 1230
M3641	COMPOUND GUAGE 4" diameter - Dual scale 0-600 lbs in ² x 0 - 4 bar (Pressure phasing)	MERLIN TEST BENCH HD MK5, MM SERIES, H 1210/6, 1210e, 1230
M3642	PRESSURE GUAGE 6" diameter - Mirror dial 0-300 lbs in ² (Manifold Pressure)	MERLIN TEST BENCH H1230/6, H1230E, HD MK5
M3643	VACUUM GUAGE 6" diameter - Mirror dial 0-30 in Hg vacuum (Gear pump vacuum)	MERLIN TEST BENCH HD MK5, MM SERIES, H1210/6, 1210E, 1230
M3644	PRESSURE GUAGE 6" diameter - Mirror dial 0-300 lbs in ² (Manifold Pressure)	MERLIN TEST BENCH CUMMINS APPL. P2/PTG, PTG/5, PTG/600E
M3645	TEMPERATURE GUAGE 4" diameter - Dual scale 0 - 70°C x 32 - 160°F	MERLIN TEST BENCH CUMMINS APPL. PTG/600E
M3646	PRESSURE GUAGE 4" diameter - Dual scale 0 - 70 Hg pressure x 0 - 30lbf/in ² (A.F.C. air pressure)	MERLIN TEST BENCH CUMMINS APPL. PTG/600E

MERLIN GUAGES

EQUIPMENT & ACCESSORIES

<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>APPLICATION</u>
M3647	PRESSURE GUAGE 4" diameter - Dual scale - white background 0-600 lbs in ² x 0 - 40 bar (gear pump pressure)	MERLIN TEST BENCH CUMMINS APPL. PTG/600E
M3648	TEMPERATURE GUAGE 3" diameter - Dual scale 0 - 70°C x 32 - 160°F	MERLIN TEST BENCH P3/PTG PTG/5
M3649	PRESSURE GUAGE 3" diameter - Dual scale 0 - 60 Hg pressure x 0 - 30lb/in ² (A.F.C. air pressure)	MERLIN TEST BENCH P3/PTG PTG/5
M3650	PRESSURE GUAGE 4" diameter - Dual scale 0 - 60°C x 32 - 140°F	MERLIN TEST BENCH HD MK5, MM SERIES H1210/6, 1210E, 1230
M3651	PRESSURE GUAGE 0-6000 lbs in ² x 0 - 400 bar	MERLIN INJECTOR TEST UNIT S31, S21
M3652	PRESSURE GUAGE 0-10,000 lbs in ² x 0 - 700 bar	MERLIN INJECTOR TEST UNIT S31M, S21M
M3653	PRESSURE GUAGE 0-10,000 lbs in ² x 0 - 700 bar with 'tell tale' pointer	MERLIN COMP'N TESTER MODEL D2
M3654	PRESSURE GUAGE 0-8,000 lbs in ² x 0 - 550 bar	MERLIN PRESSURE SCOPE MODEL 6615
M3655	PRESSURE GUAGE 6" diameter - Dual scale 0-6000 lbs in ² x 0 - 400 bar	MERLIN INJECTOR TEST UNIT MODEL S40

MERLIN CAMBOXES - PUMP MOUNTING PLATES & INSERTS

<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>APPLICATION</u>
M3656	BRYCE C, CC, CV, X types	H1230E HEAVY DUTY CAMBOX TYPE 175 & 300
M3657	BRYCE X	H1230E HEAVY DUTY CAMBOX TYPE 175 & 300
M3658	BRYCE DD	HEAVY DUTY CAMBOX TYPE 300
M3659	INSERT FOR Z SIZE	
M3660	BRYCE FWVAR Roller Tappet	H1230E HEAVY DUTY CAMBOX TYPE 175 & 300
M3661	BRYCE FEOAB	H1230E HEAVY DUTY CAMBOX TYPE 175 & 300
M3662	BRYCE FCCAR	H1230E, H1210, CAMBOX TYPE 175 & 125
M3663	BRYCE FCCAR	H1230E HEAVY DUTY CAMBOX TYPE 175 & 300
M3664	BRYCE FCCAB Roller Tappet	H1230E HEAVY DUTY CAMBOX TYPE 175 & 300
M3665	RUSHTON AT	HEAVY DUTY CAMBOX TYPE 300
M3666	BENDIX F3.5 2.812 Spigot	HEAVY DUTY CAMBOX TYPE 300
M3667	BENDIX F3.5 2.599 Spigot	HEAVY DUTY CAMBOX TYPE 300
M3668	BENDIX F3.5 Sleeve 2.812	HEAVY DUTY CAMBOX TYPE 300
M3669	BENDIX FBC2 Sleeve	H1230E HEAVY DUTY CAMBOX TYPE 175 & 300
M3670	BENDIX FC FCRX R24E Sleeve	H1230E HEAVY DUTY CAMBOX TYPE 175 & 300
M3671	BOSCH PF 102208	H1230E HEAVY DUTY CAMBOX TYPE 175 & 300
M3672	BOSCH BFCIC Sleeve	H1230E HEAVY DUTY CAMBOX TYPE 175 & 300
M3673	Alco APF 1CQ 150T	H1230E HEAVY DUTY CAMBOX TYPE 175 & 300
M3674	INSERT FOR M3673 For pump mounting plate	H1230E HEAVY DUTY CAMBOX TYPE 175 & 300
M3675	PUMP MOUNTING BRACKET Pielstick	H1230E HEAVY DUTY CAMBOX TYPE 175 & 300

MERLIN CAMBOXES - TEST CAMS

EQUIPMENT & ACCESSORIES

<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>APPLICATION</u>
M3680	10mm Lift	H1230E HEAVY DUTY CAMBOX TYPE 175 & 300
M3681	12mm Lift	H1230E HEAVY DUTY CAMBOX TYPE 175 & 300
M3682	15mm Lift	H1230E HEAVY DUTY CAMBOX TYPE 175 & 300
M3683	16mm Lift	H1230E HEAVY DUTY CAMBOX TYPE 175 & 300
M3684	18mm Lift	H1230E HEAVY DUTY CAMBOX TYPE 175 & 300
M3685	20mm Lift	H1230E HEAVY DUTY CAMBOX TYPE 175 & 300
M3686	22mm Lift	HEAVY DUTY CAMBOX TYPE 300
M3687	24mm Lift	HEAVY DUTY CAMBOX TYPE 300
M3688	25mm Lift	HEAVY DUTY CAMBOX TYPE 300
M3689	25.4mm Lift	HEAVY DUTY CAMBOX TYPE 300
M3690	26mm Lift	HEAVY DUTY CAMBOX TYPE 300
M3691	30mm Lift	HEAVY DUTY CAMBOX TYPE 300
M3692	35mm Lift	HEAVY DUTY CAMBOX TYPE 300
M3693	15mm Lift Bryce unit KCC	H1230E HEAVY DUTY 1230 CAMBOX MPU 45
M3694	20mm Lift Bryce unit KCQ	H1230E HEAVY DUTY 1230 CAMBOX MPU 45
M3695	Rushton AT	HEAVY DUTY CAMBOX TYPE 300

M3696

CONVERSION KTL

Comprising :-

- 1 CAM (CUMMINS 'K') ***
- 1 FUEL OUTPUT INDICATOR**
- 1 TOP COVER**
- 1 CAM SELECTOR PLATE**

CONVERTS HARTRIDGE MODEL 275 TO MODEL 280

* THE CAM ALSO COVERS THE STANDARD CUMMINS AND G.M TEST REQUIREMENTS

APPLICATIONS : HARTRIDGE INJECTOR COMPARATOR

SPARE PARTS FOR HARTRIDGE TEST EQUIPMENT

EQUIPMENT & ACCESSORIES

<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>APPLICATION</u>
APB 24/1	MOUNTING BRACKET For in-line pumps	HARTRIDGE TEST BENCH
APB 24/2	CLAMP ASSEMBLY For clamping APB 24/1 to test bench	HARTRIDGE TEST BENCH
APB 28/1	FLANGE MOUNTING BRACKET D.P.A Drive mounting etc	HARTRIDGE TEST BENCH
APB 18-1-2	DOWEL FOR FLANGE MOUNT'G BRACKET (Locating)	HARTRIDGE TEST BENCH
APB 18-1-4	CLIP FOR APB 18-1-2	HARTRIDGE TEST BENCH
APB 12	QUICK ACTION CLAMP Use with APB 24/1	HARTRIDGE TEST BENCH
APB 12/12	CLAMP ARM Use with APB 12	HARTRIDGE TEST BENCH
APB 12-16-1	PIN Use with APB 12	HARTRIDGE TEST BENCH
APB 1/2	5mm PACKING	HARTRIDGE TEST BENCH
APB 1/3	12mm PACKING Use with APB 24/1	HARTRIDGE TEST BENCH MPU45
ANR 3/6	DIAMOND DRESSER	HARTRIDGE NEEDLE GRINDER
AT 32/10	ADAPTOR For Boost Control	HARTRIDGE BOOST CONTROL TESTER
AT 32/11	ADAPTOR For Boost Control	HARTRIDGE BOOST CONTROL TESTER
AT 32/12	ADAPTOR For Boost Control	HARTRIDGE BOOST CONTROL TESTER
AT 32/13	ADAPTOR For Boost Control	HARTRIDGE BOOST CONTROL TESTER
AT 32/14	ADAPTOR For Boost Control	HARTRIDGE BOOST CONTROL TESTER
E150-89	DUMP VALVE - small	HARTRIDGE 800/875/1100 SERIES
E150-97	DUMP VALVE - large	HARTRIDGE 800/875/1100 SERIES

SPARE PARTS FOR HARTRIDGE TEST EQUIPMENT

<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>APPLICATION</u>
E190/42	BLANKING PLUG (For pressure phase outlet etc.)	HARTRIDGE TEST BENCH
EH 30/14	POLY VEE BELT	HARTRIDGE TEST BENCH
EH 30/27	DRIVE BELT	HARTRIDGE TEST BENCH
EH 70/45	SEAL	HARTRIDGE TEST BENCH
HP 19	CONNECTING ROD	TESTMASTER
HP 20	SCREW FOR HP 19	TESTMASTER
HP 35	PLUNGER ASSEMBLY	TESTMASTER
HP 37A	FILTER	TESTMASTER
HP 81	BODY FOR DELIVERY VALVE	TESTMASTER
HS 020	SEAL KIT	TESTMASTER
HS 080	SEAL KIT	INJECTOR TEST UNIT MK3
HS 081	SEAL KIT	INJECTOR TEST UNIT MK5
HP 214	FILTER ASSEMBLY	INJECTOR TEST UNIT MK7
NGL 38	DRIVE BELT	HARTRIDGE NEEDLE GRINDER
NGL 41F	EYE GLASS HOLDER	HARTRIDGE NEEDLE GRINDER
NGL 43B	GRINDING WHEEL	HARTRIDGE NEEDLE GRINDER
NGL 66	DRIVE BELT	HARTRIDGE NEEDLE GRINDER
NGL 67	RIGHT HAND STOP ASSEMBLY	HARTRIDGE NEEDLE GRINDER
NGL 68	VEE BLOCK LONG	HARTRIDGE NEEDLE GRINDER
NGL 67/1	ROLLER (BOLT GUIDE)	HARTRIDGE NEEDLE GRINDER
NGL 67/B1/B2	BELT GUIDE	HARTRIDGE NEEDLE GRINDER
NGL 72	6mm NEEDLE STOP	HARTRIDGE NEEDLE GRINDER
NGL 79	EYE GLASS	HARTRIDGE NEEDLE GRINDER
NGL 134	DIAMOND DRESSER	HARTRIDGE NEEDLE GRINDER
NGL 135A	DIAMOND HOLDER	HARTRIDGE NEEDLE GRINDER
NGL 253	DRIVE BELT	HARTRIDGE NEEDLE GRINDER
NGL 209/15	FLEXIBLE DRIVE	HARTRIDGE NEEDLE GRINDER

SPARE PARTS FOR HARTRIDGE TEST EQUIPMENT

EQUIPMENT & ACCESSORIES

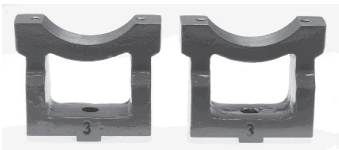
<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>APPLICATION</u>
NGL 40	CHUCK	HARTRIDGE NEEDLE GRINDER
NGL 242/1	DIAL GUAGE AND PLATE	HARTRIDGE NEEDLE GRINDER
OH20/2/21/11	FUEL FILTER (Crossland 577)	HARTRIDGE TEST BENCH
OT 595/3	INJECTOR CLAMP PLATE	HARTRIDGE TEST BENCH
TM 41	AIR VALVE	TESTMASTER EXTRACTOR FAN
TM 144	OUTLET CONNECTION	TESTMASTER
TM 121	SECONDS TIMER	TESTMASTRER
TM 151	PRESSURE GUAGE	TESTMASTER
PM 222/1	PRESSURE VACUUM GUAGE	HARTRIDGE TEST BENCH
EH 150/27	GUAGE 0 - 200lbS/in ²	HARTRIDGE TEST BENCH
OT 20/1/15	GUAGE 0 - 800lbS/in ²	HARTRIDGE TEST BENCH
E 670/9	GRADUATE 0 - 30ml	HARTRIDGE TEST BENCH - 1100 SERIES
E 150/122	GRADUATE 0 - 135ml	HARTRIDGE TEST BENCH - 1100 SERIES
EH 150/123	GRADUATE 0 - 24ml	HARTRIDGE TEST BENCH - 1100 SERIES
OT 19/9	GRADUATE 0 - 60ml	HARTRIDGE TEST BENCH - 800 SERIES
OT 19/13	GRADUATE 0 - 160ml (superseded by MJ 321)	HARTRIDGE TEST BENCH 800/1100 SERIES
OP 9	GRADUATE 0 - 10ml	
OH 57/13	GRADUATE 10 - 760cc/min	CUMMINS TEST BENCH
FP 48/A	GRADUATE 8 - 26ml	TEST BENCH 450, 550, 650 SERIES
FP 48/B	GRADUATE 8 - 21ml	TEST BENCH 450, 550, 650 SERIES
FP 48/C	GRADUATE 21 - 40ml	HARTRIDGE TEST BENCH
FP 48/D	GRADUATE 0 - 60ml	TEST BENCH 450, 550, 650 SERIES
PM 1756/10	GRADUATE 0 - 50ml	
1-680-510-006	GRADUATE 2 - 44cm ³	BOSCH TEST BENCH
1-685-439-506	GRADUATE 20 - 260cm ³	BOSCH TEST BENCH

M3775



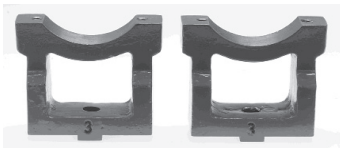
MOUNTING BLOCK CLAMP :
Equiv. 1 688 120 022

M3774



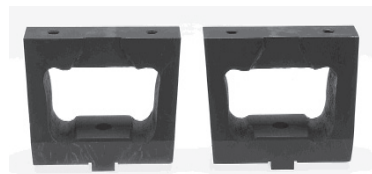
MOUNTING BLOCK CLAMP :
Equiv. 1 688 030 012 PE....B

M3776



MOUNTING BLOCK CLAMP :
Equiv. 1 688 030 044 PE....A

M3779



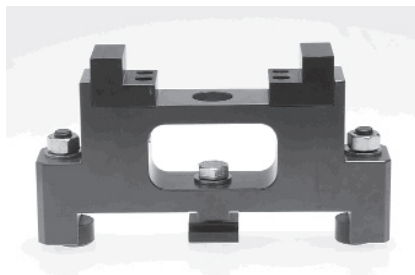
MOUNTING BLOCK CLAMP :
Equiv. 1 688 120 032 PE....P

M3780



MOUNTING BLOCK CLAMP :
Equiv. 1 688 030 153 PE....P
RADIUS 56mm

M3781



MOUNTING BLOCK FOR 797/711 BENCHES

Equiv. 1 688 030 141
PES...P was 032

M3782



UNIVERSAL FLANGE MOUNTING BRACKET

Equiv. 1 688 010 010

M3760



MOUNTING BLOCK FOR 707/711 BENCHES

Equiv. 1 688 030 153
PE....P800 was 095
RADIUS 56mm

M3288



MOUNTING FLANGE :

Equiv. 1 685 720 062
VA/VE 50mm diameter

M3285



MOUNTING FLANGE :

Equiv. 1 685 720 219
VE 68mm diameter

M3785



MOUNTING FLANGE :
Equiv. 1 685 720 018
PES...M 68mm diameter

M3783



MOUNTING BLOCK CLAMP :
Equiv. 1 688 030 012 PE....B

M3784



MOUNTING FLANGE :
Equiv. 1 685 720 060
PES..M 95mm diameter

M3789



MOUNTING FLANGE :
Equiv. 1 685 720 159
PES..M 107mm diameter

M3267



MOUNTING FLANGE :
Equiv. 1 685 720 208
PES..M 74mm diameter
NERCEDES

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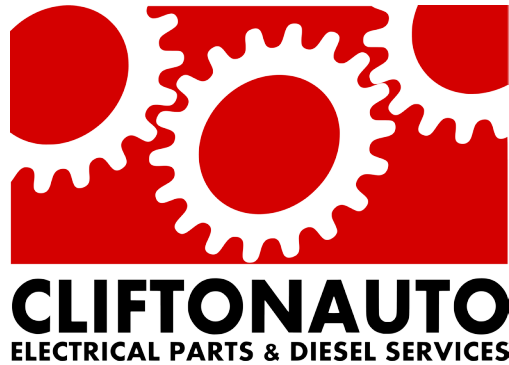
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