

DARWEN DIESELS LTD

DIESEL FUEL INJECTION COMPONENTS, TOOLS & EQUIPMENT



COMMON RAIL & EUI TOOLING



Who we are

Established in 1970 Darwen Diesels Ltd is now the UK's largest independent supplier of DIESEL FUEL INJECTION spare parts, tools & test equipment.

From our modern warehouse facility in Blackburn, Lancashire we endeavour to provide all our customers with a swift & efficient daily service in Replacement Parts, Information & Technical Support.



What we do

Diesel Injection Components: Current stocks in excess of 20,000 part numbers. Spare parts & complete units, all makes COMMON RAIL, EUI/PDE, DPA, DPC, VE, INLINE, MINIMEC etc.

Original Parts:

- BOSCH
- DELPHI
- DENSO
- SIEMENS
- STANADYNE
- YANMAR
- ZEXEL



Feed Pumps

For most applications covering AC Delco, Yanmar, Bosch & Universal multi fuel Electric Solid State.



Filtration

Filter assemblies with or without primers. Hand Primers, Water Traps, Agglomerators.

Components: Filter tops, Elements, Glass & Aluminium Bases, Blanking plugs, Bleed Screws.



We also build to customer requirements.

With Decades of Diesel Experience



INDEX

PAGE:

Injectors:

- 1-5** Common Rail Tools & Adaptors Bosch
- 6** Common Rail Tools & Adaptors Delphi
- 7** Common Rail Tools & Adaptors Denso
- 8** Common Rail Tools & Adaptors Siemens

Pumps:

- 9-12** Common Rail Pump Tools & Adaptors Bosch
CP1/CP1H
- 13-15** Common Rail Pump Tools & Adaptors Bosch
CP3
- 16-17** Common Rail Pump Tools & Adaptors Delphi
- 18** Common Rail Pump Tools & Adaptors Denso
HP2
- 19** Common Rail Pump Tools & Adaptors Denso
HP3
- 20-21** Common Rail Pump Tools & Adaptors Siemens
- 22-26** Common Rail General Tools & Equipment
- 27-30** Unit Injector Tools & Ancillaries
- 31-33** Supplementary Information



Common Rail Injector Tools & Adaptors Bosch



18D100
Kit Injector
Stripping & Spares
*(More Details
Page 31)*



34D331
Renault/Mack
24mm Injector Strip
Adaptor



34D333
M.A.N. 29mm
Injector Strip
Adaptor



34D334
Iveco/Renault/Mack
26.5mm Injector
Strip Adaptor



34D335
Renault 32-34mm
Injector Strip
Adaptor



40D8391
Piezo Capacitor
Test Adaptor
(also for Siemens)



40D8392
Piezo Capacitor
Test Adaptor
Fiat



40D8611
Renault 420 34mm
Injector Strip & Test
Adaptor

"With Decades of Diesel Experience"



Common Rail Injector Tools & Adaptors Bosch



40D8612
M.A.N. 29mm
0 445 120 045
Injector Strip & Test
Adaptor



40D8613
Iveco/Renault/Mack
26.5mm Injector
Strip & Test
Adaptor



40D8614
MAN/KHC/SISU
26mm
0 445 120 030
injector Strip
& Test Adaptor



40D8615
Volvo 28mm
Injector Strip &
Test Adaptor



40D8617
Cummins 26mm
0 445 120 060
Injector Strip &
Test Adaptor



40D8618
Renault 28mm
Injector Strip &
Test Adaptor



40D8619
KHD 21mm
0 445 120 066
Injector
Test Adaptor



50D049
Pilot Valve Lapping
Kit

"With Decades of Diesel Experience"



Common Rail Injector Tools & Adaptors Bosch



50D053
Socket 29mm
Solenoid
(Equivalent to
50D102 Spanner)



50D054
Socket 30mm
Solenoid
(Equivalent to
50D103 Spanner)



50D059
Pilot Valve Insertion
Drift



50D062
Extractor Pilot
Valve Seat



50D065
Nozzle Nut
Remover Iveco
18mm 8 sided



50D0660
Solenoid Socket
28mm 12 Sided
1st Generation



50D0662
Solenoid Socket
27mm
12 Sided
2nd Generation

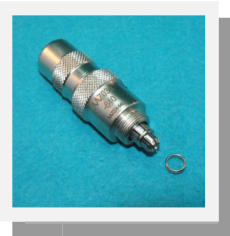


50D068
High Pressure Seal
Remove/Replace
Kit

"With Decades of Diesel Experience"



Common Rail Injector Tools & Adaptors Bosch



50D0681
High Pressure Seal
Insertion Tool For
Cars & Light
Commercial



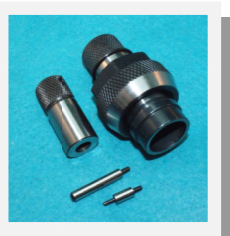
50D0682
High Pressure Seal
Insertion Tool For
1st & 2nd
Generation Heavy
Commercial



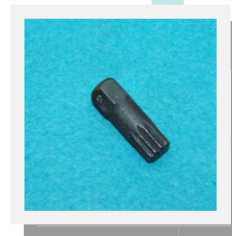
50D0683
High Pressure Seal
Insertion Tool For
3rd Generation
Heavy Commercial



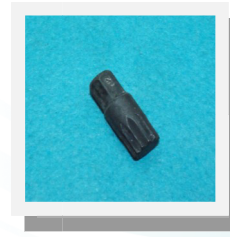
50D073
Tool Assemble
High Pressure Seal



50D075
Pilot Valve Ball Cup
Measurement
Adaptor 1st
Generation



50D076
12 Cornered 10mm
Bit To Remove
Commercial
3rd Generation
Locking Ring



50D077
12 Cornered 12mm
Bit To Remove
Commercial
3rd Generation
Locking Ring



50D079
8 Sided
16mm Nozzle Nut
Removing Socket

"With Decades of Diesel Experience"



Common Rail Injector Tools & Adaptors Bosch



50D090
Universal Injector
Stripping Jig



50D090-C
Universal Injector
Stripping Jig



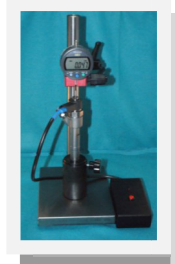
50D102
Spanner 29mm
Solenoid
(Equiv. To 50D053)



50D103
Spanner 30mm
Solenoid
(Equiv. To 50D054)



50D258
Pneumatic Press
To Remove/Insert
Solenoid Core
*(More Details
Page 33)*



50D259
Ball Cup Movement
Measuring Stand &
Gauge
*(More Details
Page 33)*



50D265
Digital Micrometer
& Stand

"With Decades of Diesel Experience"



Common Rail Injector Tools & Adaptors Delphi



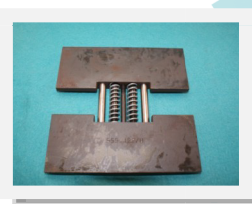
33D112
Spanner 15mm
Nozzle Nut



50D055
Ford Transit 21mm
Window Socket
(also VP system)



50D090
Universal Injector
Stripping Jig



50D090-C
Universal Injector
Stripping Jig



50D106
Ford Transit
Injector
Brace (use with
50D055 when re-fitting
injectors in head)

"With Decades of Diesel Experience"



Common Rail Injector Tools & Adaptors Denso



33D112
Spanner 15mm
Nozzle Nut



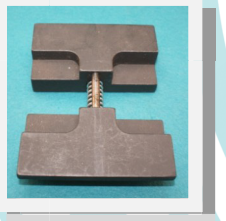
40D894
Komatsu Test
Adaptor



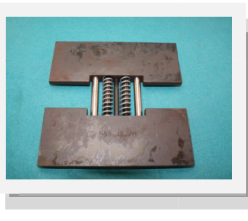
40D895
John Deere
Test Adaptor



50D401-M
3 Pin Socket Guide
& Drift To Remove/
Refit Securing Nut



50D090
Universal Injector
Stripping Jig



50D090-C
Universal Injector
Stripping Jig



50D097
Injector Stripping
Jig

"With Decades of Diesel Experience"



Common Rail Injector Tools & Adaptors Siemens



33D112
Spanner 15mm
Nozzle Nut



33D148
Spanner 13mm
Inlet Adaptor



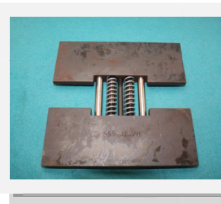
40D8391
Adaptor Piezo
Capacitor
(also for Bosch)



50D282
Socket & Guide
To Remove/re-fit
valve



50D090
Universal Injector
Stripping Jig



50D090-C
Universal Injector
Stripping Jig

"With Decades of Diesel Experience"



Common Rail Pump Tools & Adaptors Bosch CP1/CP1H



33D138
Swivel Vice



33D1384
Mounting Plate
Swivel Vice
(Mercedes CP1)



40D41
Drive Coupling
B Size 20mm



40D43
Drive Coupling
Z size 25mm



40D63
Mounting Plate
Hartridge/Bosch
Bench, 50mm



40D64
Mounting Plate
Hartridge Bench
Mercedes



40D66
Drive Coupling
8 x 18mm Tang
(also for CP3)



40D8051
Adaptor Transfer
Pressure CP1H
(also CP3)

"With Decades of Diesel Experience"



Common Rail Pump Tools & Adaptors Bosch CP1/CP1H



40D8052
Pressure Regulator
Adaptor CP1H



40D8053
Pressure Sensor
Adaptor CP1H



40D8054
Dummy Regulator



40D854
Coupling Tang
Drive Mercedes
(use with 40D53
Universal Drive)



50D040
Mounting Plate
Swivel Vice



50D050
Re-bushing Kit



50D069
Torx Bit TX40
75mm long



50D070
Torx Bit TX40
(1/2" Drive)

"With Decades of Diesel Experience"



Common Rail Pump Tools & Adaptors Bosch CP1/CP1H



50D078
Torx Bit Socket
TX40 75mm
Long x
1/2" Drive



50D071
Torx Bit TX40



50D099
Spigot
Remove/Replace
Kit CP1/CP1H



50D080
Adaptor Kit
Inlet/Outlet Fuel
(Mercedes CP1)



50D100
Kit Seal Replace
Kit
(Also CP3)



50D155
Spigot Removing
Impact Tool
CP1/CP1H



50D156
Cage Valve
Insertion Tool
CP1H



50D157
Filter Cap
Removing Tool
1.5mm
CP1H

"With Decades of Diesel Experience"



Common Rail Pump Tools & Adaptors Bosch CP1/CP1H



50D158
Filter Cap Removal
Tool CP1H



50D159
Filter Cap Insert
Tool 1.5mm
CP1H



50D161
Filter Insertion Tool
CP1H



50D169
Filter Cap Insert
Tool 2.4mm
CP1H



50D241
Pump Element
Cleaner CP1

“With Decades of Diesel Experience”





Common Rail Pump Tools & Adaptors Bosch CP3



33D138
Swivel Vice



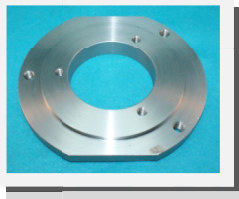
40D66
Drive Coupling
8x18mm Tang



40D69
Splined Drive
Coupling M.A.N
(Also CP2)



40D72
CP4 Mounting Plate
Bosch/Hartridge



40D73
Mounting Plate
80mm Register
(For Bosch &
Hartridge Bench)



40D8051
Adaptor Transfer
Pressure CP3
(Also CP1H)



40D824
Mounting Flange
Swivel Vice



40D825
Adaptor Transfer
Pressure

"With Decades of Diesel Experience"



Common Rail Pump Tools & Adaptors Bosch CP3



40D826
Socket Inlet
Adaptor



40D828
Torx Bit Valve
Cap TX50



40D829
Tappet Lifter Set
(Includes Duratorq
Type)



40D8270
Transfer Pressure
Adaptor
CP4



50D020
Extractor Drive
Shaft Oil Seal



50D044
Re-bushing
Kit



50D100
Seal Replace Kit
(Also For CP1)



50D101
Pressure
Regulator Valve
Stripping Tool

"With Decades of Diesel Experience"



Common Rail Pump Tools & Adaptors Bosch CP3



50D121
Seal Protector Kit



50D201
Valve Seat
Cleaning Kit



40D85
Mercedes Mounting
Plate
For 0445010078 &
0445010143

"With Decades of Diesel Experience"



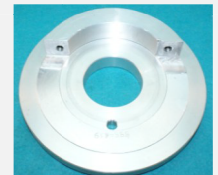
Common Rail Pump Tools & Adaptors Delphi



40D65
Pump Mounting
Bracket Renault
(Hartridge)



40D831
Transfer Pressure
Adaptor



40D833
Pump Mounting
Bracket Renault
(Bosch)



40D8341
Pressure Regulator
Adaptor For
DFP3.1
(Use With Bosch Type
DRV2 Regulator)



50D041
Mounting Plate
Swivel Vice
(Renault)



50D042
Roller Shoe
Clamp



50D056
Socket 3 Pin
Delphi Radial Rail



50D057
Plate & Plug
Extractor Delphi
Radial Rail

"With Decades of Diesel Experience"



Common Rail Pump Tools & Adaptors Delphi



50D105
Bearing Remove/
Re-fit Kit

"With Decades of Diesel Experience"





Common Rail Pump Tools & Adaptors Denso HP2



40D8903
Adaptor Transfer
Pressure



EGOR
Pressure Regulator
Controller (Manual
Type) Also for HP3



40D8905
Regulator Selector



40D8909
Mounting Plate
(Also For HP3)
Bosch Bench Only



40D8910
Mounting Bracket
Vauxhall/Opel/
Renault/Saab

"With Decades of Diesel Experience"



Common Rail Pump Tools & Adaptors Denso HP3



40D91
Drive Coupling
10 x 22mm
Tang



EGOR
Pressure Regulator
Controller (Manual
Type) Also for HP2



40D8907
Transfer Pressure
Adaptor



40D8909
Mounting Plate
(Also For HP2)
Bosch Bench Only



40D8912
Transfer Pressure
Adaptor



50D098
Transfer Pressure
Valve Socket

"With Decades of Diesel Experience"



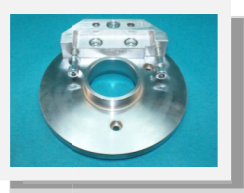
Common Rail Pump Tools & Adaptors Siemens



40D67
Drive Coupling
9x20mm
Tang



40D71
Mounting Plate
Ford/Jaguar
(Bosch Bench)



**40D711
(555-56A)**
Mounting Plate
Renault
(Bosch Bench)



40D837
Transfer Pressure
Adaptor
(Screw In Type)



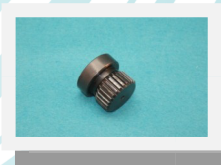
40D838
Pressure Control
Adaptor



40D8395
Transfer Pressure
Adaptor
(Two Hole Fixing)



40D8396
Pressure Control
Valve Adaptor
(Ford/Jaguar)

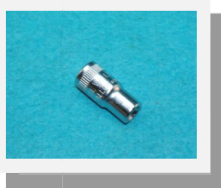


40D8399
Coupling Tang
Drive
(Use With 40D53
Universal Drive)

"With Decades of Diesel Experience"



Common Rail Pump Tools & Adaptors Siemens



50D072
Female Torx
Socket
TX40



50D271
Transfer Pump
Facing Tool



50D272
Pressure Control
Valve Socket



50D273
Volume Control
Valve Socket



50D274
Transfer Pressure
Valve extractor



50D283
Female Torx
Socket 50mm

"With Decades of Diesel Experience"



Common Rail General Tools & Equipment



40D53
Rotary Pump
Universal Mounting
Drive



40D700
15Ltr Ultrasonic
Cleaner
1 Transducer &
Heater



40D701
15Ltr ASNU
Ultrasonic Cleaner
6 Transducers



40D702
28Ltr ASNU
Ultrasonic Cleaner
12 Transducers



40D704
1Ltr & 3Ltr ASNU
Ultrasonic Cleaners
1&2 Transducers
(+Accessories)



40D705
20Ltr Ultrasonic
Cleaning Fluid
(Steel Only)



40D710
5Ltr Ultrasonic
Cleaning Fluid
(Steel Only)



40D715
Ultrasonic
Container For Small
Components

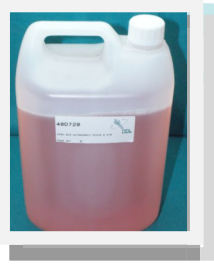
"With Decades of Diesel Experience"



Common Rail General Tools & Equipment



40D716
Ultrasonic Basket
6 Injectors



40D720
5Ltr Ultrasonic
Cleaning Fluid
(Steel/Aluminium)



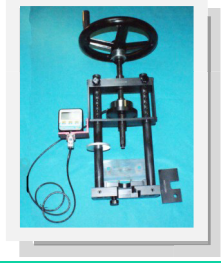
40D721
25Ltr Ultrasonic
Cleaning Fluid
(Steel/Aluminium)



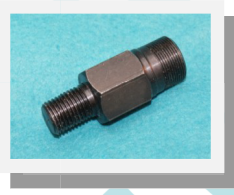
40D868
Clamp & Fuel
Collector



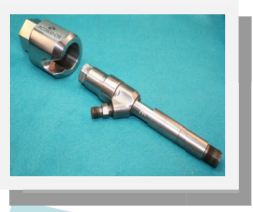
45D0700
Injector & EUI
Stripping/Assembly
Jig
*(More Details
Page 32)*



45D0701
Injector & EUI
Stripping/Assembly
Jig
*(More Details
Page 32)*



50D016
Adaptor Denso
To Be Used With
Impact Hammer



50D017
Adaptor Bosch
To Be Used With
Impact Hammer

"With Decades of Diesel Experience"



Common Rail General Tools & Equipment



50D018
Adaptor Mercedes
To Be Used With
Impact Hammer



50D019
Adaptor Fiat
To Be Used With
Impact Hammer



50D021
Pump Holding Tool
CP4



50D029
Thin Footed
2&3 Legged
Puller



50D057
Plate & Plug
Extractor
Delphi Rail



50D058
Hand Held
Microscope



50D060
Microscope Set

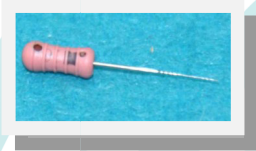


50D061
Magnifying Lamp
With 4 x
Magnification

"With Decades of Diesel Experience"



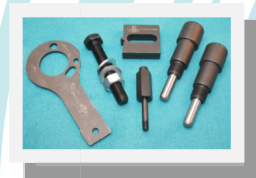
Common Rail General Tools & Equipment



50D067
Injector Nozzle
Hole Tapered
Broaching Tool



50D090
Injector Strip &
Assemble Vice
Clamp
(Universal)



50D110
Timing Kit Fiat 1.9
Multi Jet



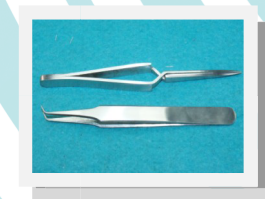
50D130
Denso Pump
Removal Tool
Ford Transit



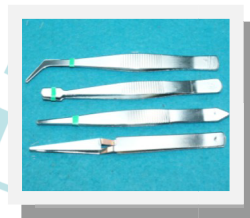
50D131
Puller For
50D130 Kit



50D150
Injector Washer
Extractor Impact
Tool



50D210
2 Pairs Of
Precision
Tweezers
(Non Magnetic)

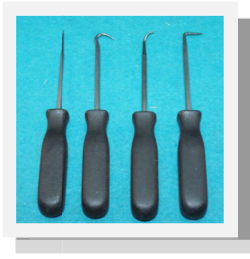


50D211
4 Pairs Of
Precision
Tweezers

"With Decades of Diesel Experience"



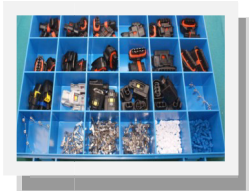
Common Rail General Tools & Equipment



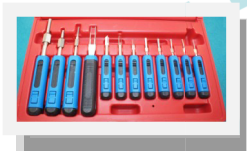
50D212
4 Piece Pick
& Hook Set



50D220
RIBE Socket Set
6-14mm



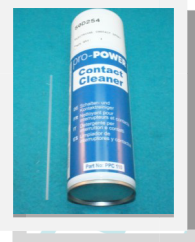
50D250
Connector Kit
(Items Also Sold
Separately)



50D251
12pc Terminal
Release Kit



50D253
Electrical Terminal
Crimping Tool



50D254
Electrical Contact
Spray



50D255
White Lithium
Grease



53D010
Injector Stripping
Tray for
6 Injectors

"With Decades of Diesel Experience"



Unit Injector Tools & Ancillaries



45D001
Land Rover
Discovery TD5
Nozzle Test
Adaptor



45D002
VW 1st Generation
Nozzle Test
Adaptor



45D003
Caterpillar Nozzle
Test Adaptor



45D004
Iveco Cursor 350
Nozzle Test
Adaptor



45D005
Volvo 460 Euro 2
Nozzle Test
Adaptor



45D006
Cummins CEL
Nozzle Test
Adaptor



45D007
Cummins CEL
Nozzle Test
Adaptor



45D008
Volvo 420 & Iveco
Cursor 430 Nozzle
Test Adaptor

"With Decades of Diesel Experience"



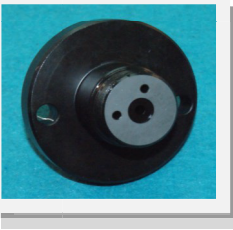
Unit Injector Tools & Ancillaries



45D009
Volvo Delphi
420/460 Nozzle
Test Adaptor



45D010
VW 2nd Generation
Nozzle Test
Adaptor



45D011
VW Siemens PPD
3rd Generation
Nozzle Test
Adaptor (24x1mm
use with 45D0700)



45D012
VW 1st Generation
PDE High Output
Nozzle Test
Adaptor (Use With
45D0700)



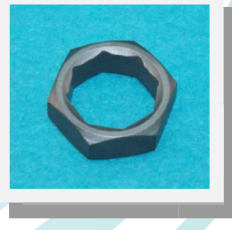
45D013
VW 1st Generation
PDE Low Output
Nozzle Test
Adaptor (Use With
45D0700)



45D014
Volvo Delphi 2
Terminal Injector
Nozzle Test
Adaptor



45D015
Volvo Delphi 4
Terminal Injector
Nozzle Test
Adaptor



45D018
VW 1st Generation
8 Sided x 20mm
Nozzle Nut Socket

"With Decades of Diesel Experience"



Unit Injector Tools & Ancillaries



45D019
VW 2nd Generation
Nozzle Test
Adaptor
25x0.75mm
(Use With 45D700)



45D020
VW 2nd Generation
37mm Solenoid
Socket



45D021
VW 2nd Generation
Serrated Nozzle
Nut Socket



45D022
VW 2nd Generation
Serrated Solenoid
Socket



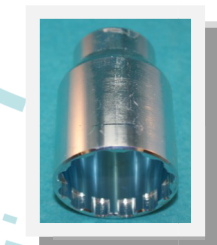
45D050
Land Rover TD5
Nozzle Nut Socket
(c/w 4 Pins)



45D052
Scania 38mm
Solenoid Socket



45D053
Volvo Delphi
Nozzle Nut Socket
(c/w 2 Pins)



45D054
Volvo 36mm
Serrated Solenoid
Socket

"With Decades of Diesel Experience"



Unit Injector Tools & Ancillaries



45D055
VW PPD /PDE 2nd
Generation 6 Sided
29mm Nozzle Valve
Assembly Socket



45D056
VW PPD Siemens
8 Sided x 16mm
Nozzle Nut Socket



45D057
VW PPD Siemens
8 Sided x 17mm
Nozzle Nut Socket



45D058
VW PPD Siemens
8 Sided x 30mm
Nozzle Valve
Assembly Socket



45D059
VW 1st Generation
6 Sided x 19mm
Nozzle Nut Socket



45D060
VW 1st Generation
12 Sided x 25mm
Solenoid Nut
Socket

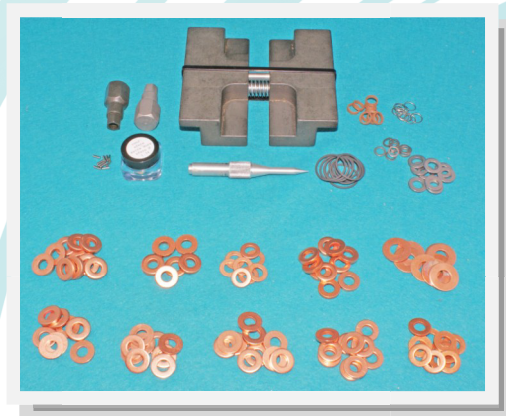


45D070
Injector
Strip/Assemble Jig
(More Details
Page 31)

"With Decades of Diesel Experience"



Supplementary Information



18D100

Repair Kit for Bosch Common Rail Injectors contains :

Supplied with 11 packets of popular
Copper Seating Washers - High Pressure
Seals - High Pressure Support Washers -
Nozzle Pins - Pilot Valve Balls - Solenoid
O-Rings - Universal Stripping Jig -
6.5 & 7.5mm Pilot Valve Sockets -
Assemble Tool For High Pressure Seal.



45D070

Injector Strip/Assemble Jig

To suit Bosch, Delphi, Denso, Siemens
Common Rail & VW E.U.I Injectors

Clamps injector to minimise the risk of
shearing location pegs.

"With Decades of Diesel Experience"



Supplementary Information

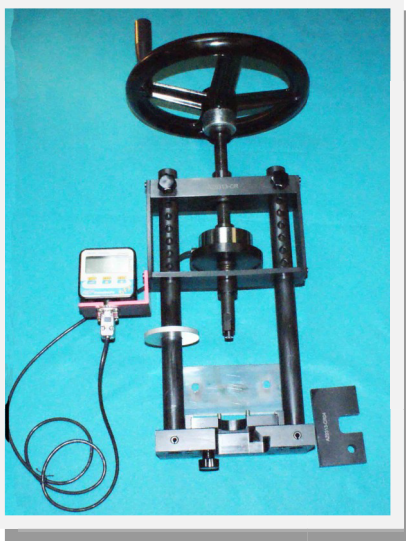


45D0700

Secures Common Rail & EUI Injectors during dismantle and assembly.

Various mounting plates supplied.

Can be vice mounted or bench mounted



45D0701

Secures Common Rail & EUI Injectors during dismantle & assembly

Supplied with pressure transducer, allows dismantle of VW injectors without shearing locating pins.

Various mounting plates supplied.

Can be vice mounted or bench mounted.

"With Decades of Diesel Experience"



Supplementary Information



50D258 **Solenoid Pneumatic Press**

To enable adjustment of pre & post Multi-Jet injection tolerances in Bosch 1st generation Common Rail Injectors (IMA)

Simple removal & refitting of Solenoid Core & Armature Movement Shim. During re-assembly the pre Load Set device ensures Solenoid sensitivity is maintained.



50D259 **Common Rail Air Gap Measurement Stand**

Recommended for Bosch solenoid type injectors. Essential for 2nd Generation Injectors. For latest type, solenoid must be in place during measurement and energised by an independent source (supplied with stand) Accurately measures air gap (ball cup movement) to within .001 mm by raising the armature. Adjustments can then be made during injector assembly. Greatly reduces final testing time.

"With Decades of Diesel Experience"



NOTES









NOTES



ADDITIONAL PUBLICATIONS AVAILABLE UPON REQUEST

Common Rail Injector Shims PUB0113		Common Rail & EUJ Nozzles PUB0213	
	Hydraulic Extraction Tools PUB0313		Common Rail & EUJ Parts PUB0413
Common Rail & EUJ Tooling PUB0513		Common Rail Seating Washers PUB0613	
	Banjo's, Bolts, Piping & Connectors PUB0713		Test Equipment PUB0813

Any Propriety names and part numbers shown are for reference purposes only and are not intended to imply the parts are manufactured by the companies mentioned.

Technical data and illustrations are non-binding and could be subject to change by Darwen Diesels Ltd. Due to specification updates.

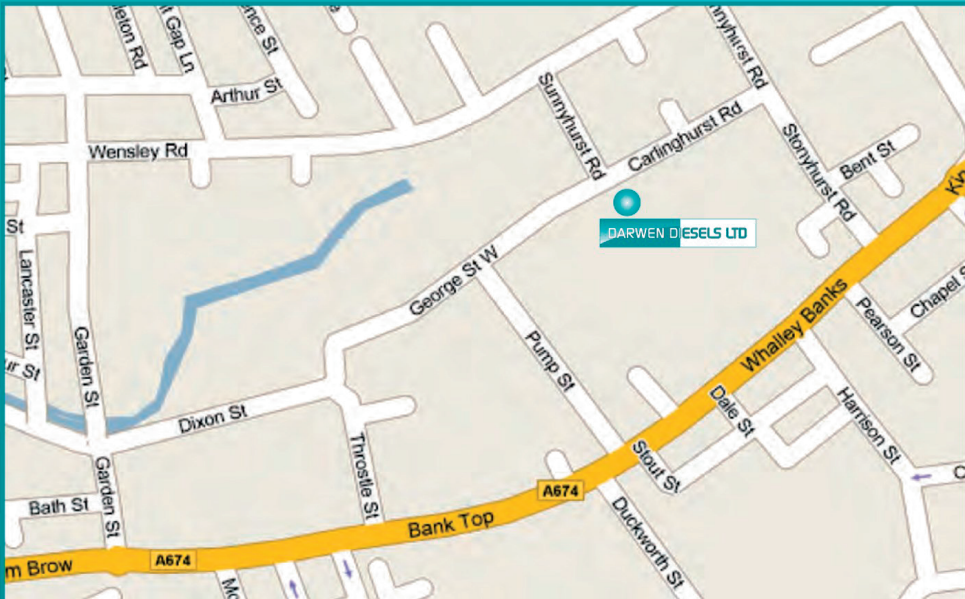
With Decades of Diesel Experience

DARWEN DIESELS LTD

Where we are

Directions

M6 to M65, Exit Junction 3 A674 Blackburn, Follow road towards Town Centre past Witton Park, after lights to next mini roundabout go left then 1st right. Follow road round and we are situated approximately 1/4 mile on the right.



Darwen Diesels Ltd
Carlinghurst Road Business Park
Blackburn, Lancashire. BB2 1PN,
England

Tel: ++44 1254 53545

Fax: ++44 1254 53547

www.darwendiesels.com
sales@darwendiesels.com

