



VICKY BROTHERS

Diesel Fuel Injection Parts • Lahore

PRODUCT CATALOGUE

EDITION 2026



DPA ROTARY PUMPS • TRACTOR FUEL SYSTEMS

EVERY PART BEHIND THE PUMP.



Your single source for DPA rotary injection pumps and parts: complete pumps, heads and rotors, cam rings, metering valves, governor and transfer pump components, injectors, nozzles, seals and overhaul kits for Massey Ferguson, Fiat, Ford and Perkins tractors, as well as Toyota diesel pumps.

MF 240 • 260 • 375 • 385

Fiat 480 • 640

Ford 2000-5000

Perkins

Toyota

WWW.VICKYBROTHERS.PK

OUR VISION

KEEPING PAKISTAN'S TRACTORS RUNNING.

To be the most trusted name for diesel fuel injection parts in Pakistan: the first call for every workshop, rebuilder and dealer who needs the right part, first time. Serving Pakistan for more than 40 years, with over 10 years of export to the Middle East.

OUR SERVICES

01

PART IDENTIFICATION

Send the number stamped on the old part, or a photo, on WhatsApp. We identify it and match the correct replacement.

02

WHOLESALE SUPPLY

Trade supply for dealers, wholesalers and workshops, with steady stock of fast-moving DPA parts.

03

TECHNICAL ADVICE

Guidance on choosing the right head & rotor, cam ring, metering valve or housing for each pump and engine.

04

PART SOURCING

Hard-to-find numbers sourced on request, so you get one supplier for the whole job.

05

ORDER DISPATCH

Orders checked, packed and dispatched from our Badami Bagh shop without delay.

06

AFTER-SALES SUPPORT

We stay with you after the sale and help sort out any fitting question.

OUR VALUES

GUARANTEED QUALITY

Every part checked before it leaves the shop.

HONEST ADVICE

We tell you what fits, even when it means a smaller sale.

FAIR PRICING

Clear trade prices for every customer, big or small.

LASTING RELATIONSHIPS

Our customers come back because we stand behind what we sell.

WE SERVE



WHOLESALESAERS

Trade stock at fair prices



REBUILDERS

Heads, rotors and kits for every rebuild



WORKSHOPS

Fast-moving parts for daily repairs



ABOUT US

VICKY BROTHERS

Diesel fuel injection specialists, Badami Bagh, Lahore.

Vicky Brothers is a Lahore-based wholesaler dedicated to one field: diesel fuel injection. Since 1982 we have specialised in DPA rotary pump parts and the wider range of injection components that keep tractors and diesel engines working.

From our workplace at 88-AL Mubarak Market, Badami Bagh, Lahore, one of the country's busiest markets for engine and tractor parts, we supply mechanics, rebuilders and dealers every day. We have served customers across Pakistan for more than 40 years, and for over 10 years we have exported to the Middle East.

OUR SPECIALITY

DPA and DP200 rotary pumps are the heart of our business: heads and rotors, cam rings, metering valves, transfer pump and governor parts. We also produce our own VE pump drive shafts.

OUR EXPERIENCE

Decades of daily work with mechanics and rebuilders mean we know which part fits which pump and engine. Send an old part, a photo or just the stamped number and we will match it.

QUALITY WE STAND BEHIND

We deal in trusted makers and our own Vitrak parts, made from high-grade material to OEM quality. Every part is checked before it leaves our warehouse.

SERVICE YOU CAN RELY ON

Wholesale prices, honest advice and fast dispatch, whether you need a single part or stock for your shop, across Pakistan and to export customers in the Middle East.

BRANDS WE DEAL IN

VITRAK

OUR OWN BRAND

Vitrak is the Vicky Brothers brand: DPA pump parts made from high-grade material to OEM quality.

Every Vitrak part is checked in our warehouse before dispatch, so you can fit it with full confidence.

LEADING FUEL INJECTION BRANDS WE SUPPLY

Delphi
Technologies



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COMPLETE PUMPS & APPLICATION GUIDE

Complete DPA rotary injection pumps, with the main internal parts for each tractor.



COMPLETE DPA INJECTION PUMP

The Lucas CAV / Delphi DPA is a single-cylinder, opposed-plunger, inlet-metering, distributor-type injection pump, used widely on older multi-cylinder tractor and diesel engines. Supplied complete and ready to fit.

OPERATION One central rotor with a single pair of opposed plungers feeds every cylinder in firing order.

SELF-LUBRICATING Lubricated entirely by the diesel passing through it; no engine-oil feed needed.

TRANSFER PUMP Built-in sliding-vane pump holds internal pressure at roughly 25–125+ psi, rising with RPM.

GOVERNOR Mechanical or hydraulic speed governing.

TIMING ADVANCE Automatic speed and light-load advance, up to about 9° of timing change.

DPA

Original Lucas CAV rotary pump: MF, Ford, Fiat, Perkins, David Brown, Leyland, Bedford

DPS

Later development of the DPA with higher injection pressure: Perkins and Ford

DP200

Compact Delphi successor, e.g. 8922A / 8924A ranges: Perkins and Ford

STANADYNE

Roosa Master DB2 / DB4 rotary pumps: opposed-plunger distributor type, fitted to later MF 260 and MF 385

TRACTOR	PUMP REF	HEAD & ROTOR	SLEEVE & PISTON	CAM RING	METERING VALVE	NOZZLE
MASSEY FERGUSON						
MF 35 • A3.152	3230F030	7180-593N	7135-74AJ	7123-309X	7123-930G	BDLL110S6267
MF 135 • 1980-82	3230F350	7139-764S (708S)	7135-74Y (AH)	763E / 309Q	7123-490E	BDLL150S6554 / S6372
MF 135 / 240 • AD3.152	3230F180	—	—	—	—	—
MF 240 • 1983-87	3532F070	7139-235Q (858Q)	7135-74Q (V)	7139-940E	7123-930G	BDLL150S6602
MF 240 / 350 • 1988-2015	3238F480	7139-764S (708S)	7135-74Q (V)	7139-940E	7123-930G	BDLL150S6602
MF 240 / 350 • 2016-19	DB4327-6515 Stanadyne	—	—	—	—	SDSLA150P46149
MF 260 / 360 • before 2016	3239F320	7139-764S (708S)	7135-74Q (V)	7123-309C	7123-490E	6801029
MF 260 / 360 • 2016-19	DB4327-6515 Stanadyne	—	—	—	—	SDSLA150P46149
MF 165 / 255 • AD4.203	3240F938	—	—	—	—	—
MF 265	3241F350	7123-340U (344U)	7135-74A (A)	7123-308N	7123-930G	BDLL150S6556
MF 175 / 275 • A4.236	3241F360	—	—	—	—	BDLL150S6556
MF 375	3241F490	7123-340S (344S)	7135-74A (A)	7123-308N	7123-930G	BDLL150S6705
MF 385 • hub drive	3340F050	7180-861U (853U)	7135-74A (A)	7123-308T	7123-490AE	6801022 / 6801027 (new)
MF 385 • shaft drive	3340F070	7180-861U (853U)	7135-74A (A)	7123-308T	7123-490AE	6801022 / 6801027 (new)
MF 385 • solenoid	3340F090T	7180-861U (853U)	7135-74A (A)	7123-308T	7123-490AE	6801022 / 6801027 (new)
MF 385 • 2016-19	DB4429-6516 Stanadyne	—	—	—	—	SDSLA148P46147
MF 285 / 295 / 595 • A4.318	3342F411	—	—	—	—	—

FIAT, FORD, BELARUS & URSUS

Pump number and matching internal parts for each tractor. Short references are shown in brackets.

TRACTOR	PUMP REF	HEAD & ROTOR	SLEEVE & PISTON	CAM RING	METERING VALVE	NOZZLE
FIAT						
Fiat NH 480 S	3233F421	7139-764T (708T)	7135-74S (Y)	7139-974D	7139-559D	BDLLA124S1001
Fiat Al-Ghazi	3233F421	7139-764T (708T)	7135-74S (Y)	7139-974D	7139-559D	BDLLA136S1000
Fiat 480 • 8035 engine	3233F410	7139-764T	—	7139-974D	7139-559D	BDLLA124S1001
Fiat NH 640	3343F761	7139-130T (344T)	7135-74S (Y)	7123-308N	7139-559H	BDLLA124S1001
Fiat NH 640 S	3343F761	7139-130T (344T)	7135-74S (Y)	7123-308N	7139-559H	BDLLA136S1000
Fiat 640 • 8045 engine	3249F650	7139-130T	—	7123-308N	7139-559H	BDLLA136S1000
Fiat • old model	—	—	—	—	—	BDLL140S6655
Fiat • new model 2017–19	Inline pump	PL1 element	F176 delivery valve	—	—	—
FORD						
Ford 1210 / 1211	Minimec P5369-E	512505-61 element	—	—	—	BDLL140S6707
Ford 2000 / 2300 / 3000	3233151	7139-709W (708W)	7135-74D (D)	7139-552C	7123-490E	BDLL150S6571
Ford 2000 / NH 2600 • 158 cu in	3233F661	—	—	—	—	—
Ford 3000 / 5000 / 5900	3233F380	7139-709W (708W)	7135-74C (C)	7139-841C	7123-490E	BDLL140S6422
Ford 3600 / 3900 / 4100 / 5600	3233F630	7139-709W (708W)	7135-74S (Y)	7139-940Q	7123-490E	BDLL150S6665
Ford 3610 / 3910	3238F100	7180-613W	7135-74U (AA)	7167-973D	7139-559AF	BDLL150S6780CF
Ford 4000 / 5900	3233F390	7139-709W (708W)	7135-74C (C)	7139-841C	7123-490E	BDLL150S6476
Ford 4600	3233F651	7139-709W (708W)	7135-74S (Y)	7139-940Q	7123-490E	BDLL150S6666
Ford 4610 / 6600 / 6700	3238F060	7180-678L	7135-74Q (V)	7167-973E	7139-559AF	BDLL150S6774CF
Ford 4610 II New	3238F911	7180-618L (164L)	7135-74G (K)	7185-104A	7182-621E	6801110
Ford 5000 / NH 6600 • 256 cu in	3249F771 / 3249F951	—	—	—	—	—
BELARUS & URSUS						
Belarus 510	Inline pump	82 • 8.5 mm element	85B • 8.5 mm delivery valve	—	—	HL120S31E940P3
Belarus 510	Inline pump	82A • 9 mm element	85A • 9 mm delivery valve	—	—	P533-3827
Ursus 2812 / 3512 / 4512	—	7139-235Q (858Q)	—	—	—	BDSL150A38

Pump specifications vary by build year. Always quote the full number on the nameplate of the old pump.

SECTION B

DPA PUMP CROSS-REFERENCE

Delphi / Lucas CAV DPA pump numbers with the matching Ford, Fiat and Perkins references and their engines. Find the number on the pump nameplate and send it to us on WhatsApp.

FORD

DELPHI / CAV	OEM REF	ENGINE / APPLICATION
3233F661	D6NN9A543F	Ford 158 · Ford 2000 · NH 231 / 2310 / 2600 / 2610
3233F380	D0NN9A543J & T	Ford 175 · Ford / NH 3000
3233F390	D0NN9A543K	Ford 201 · Ford / NH 4000 · Hy-Mac 270
3249F771	D3NN9A543L	Ford 256 · Ford / NH 5000
3249F951	D4NN9A543F	Ford 256 · Ford 5000 · NH 6600
3233151	—	Ford 2000 / 2300 / 3000
3233F630	—	Ford 3600 / 3900 / 4100 / 5600
3233F651	—	Ford 4600
3238F100	—	Ford 3610 / 3910
3238F060	—	Ford 4610 / 6600 / 6700
3238F911	—	Ford 4610 II New

FIAT

DELPHI / CAV	OEM REF	ENGINE / APPLICATION
3222F040	770963	Fiat 8025-02-300 engine
3222F050	770964	Fiat 8025-02-301
3233F270	—	Fiat
3233F421	—	Fiat NH 480 S · Al-Ghazi
3343F761	—	Fiat NH 640 / 640 S
3233F330	768729 · 771051 · 771031	Fiat 8035 engine
3233F410	769519 · 770534	Fiat 8035-02-300/355 · 100 mm
3233F420	769517 · 770535	Fiat 8035-02-302 · 100 mm bore
3233F430	769397	Fiat 8035-02-350 · 100 mm bore
3233F600	770765	Fiat 8035 engine
3233F710	711455	Fiat 8035.01.306 / 8035-02-355 · agri / fork lift
3233F750	4753115	Fiat 8035.02.353 · agri / fork lift
3249F060	768051	Fiat B45 tractor · New Holland
3249F650	770537	Fiat 8045 · 57 bhp @ 2200
3249F470	769536	Fiat 8045 tractor · 58 bhp @ 2400
3342F220	—	Fiat 8040.04.658 · Otoyol 35NC / 50NC
3342F221	771543	Fiat 8040 vehicle
3249F900	—	Fiat 8040.04.658 · Fiat 40 / 50 / 55NC
3342F500	771458	Fiat 8045.02.358/359 · fork lift
3362F850	4762361	Fiat 8065.24 / 8065.04 · 120 CV tractor

PERKINS · MASSEY FERGUSON

DELPHI / CAV	OEM REF	ENGINE / APPLICATION
3230F030	Perkins A3.152	MF 35E / 35 / 155 / 150
3230F070	Perkins AD3.152	Agricultural · Motor Iberica
3230F180	Perkins AD3.152	MF 135
3230F350	Perkins AD3.152	MF 135 / 148 / 240 / 250 · Volvo 400 / 430
3230F563T	Perkins A3.152, T2318	Diesel generator set
3238F480	—	MF 240 / 350 · 1988–2015
3239F320	—	MF 260 / 360 · before 2016
3233F261	Perkins D3.152	JCB 1CX / 406 · Schilter · Barber Greene 873
3240F938	Perkins AD4.203	MF 165 / 255 / 260 / 300 / 50 / 40
3241F102	Perkins 4.248	Perkins / MF / Motor Iberica
3241F350	Perkins A4.236	MF 50 / 168 / 265 / 275 / 565 / 670 · IMT 52 · JCB 3CX
3241F360	Perkins A4.236, AD4.236, A4.212	MF 175 / 180 / 255 / 265 / 275 / 575 / 6500
3241F490	Perkins A4.236	JCB / MF / A.D.E. / Perkins
3248F391	Perkins 4.236	Johnston road sweepers · Lincoln welding set
3248F451	Perkins 4.236	Hesston Corp · Hyster
3263F670C	Perkins 6.354	Agricultural machines
3268F840	MAM-Saviem 797 05	—
3340F050	—	MF 385 · hub drive
3340F070	—	MF 385 · shaft drive
3340F090T	—	MF 385 · solenoid
3342F411	Perkins A4.318, A4318.2	MF 70 / 1085 / 195 / 285 / 295 / 595
3348F100	Perkins 4.236	Jetway airport baggage tow
3348F110	Perkins A4.236	Hyster · Balkancar · Marshall · Schaeff
3348F230	Perkins AT4.236	Massey Ferguson
3532F070	—	MF 240 · 1983–87

STANADYNE

DELPHI / CAV	OEM REF	ENGINE / APPLICATION
DB4327-6515	Stanadyne	MF 240 / 350 · MF 260 / 360 · 2016–19
DB4429-6516	Stanadyne	MF 385 · 2016–19

References are for identification only. Always confirm with the full number on the nameplate of the old pump.

COMPLETE DIESEL INJECTION PUMPS

Alongside spare parts, we supply complete DPA, DP200 and Stanadyne injection pumps for all major tractor models.



QUALITY INSPECTED BEFORE EVERY SALE

Every complete pump is checked in our warehouse before dispatch.

01 RIGHT PUMP, FIRST TIME

We confirm the correct pump from the number on your old name plate, so there is no guesswork.

02 QUALITY CHECKED

Each complete pump is inspected for build quality, finish and leaks before it leaves our warehouse.

03 READY TO FIT

Supplied complete with controls and fittings, ready to mount on the engine.

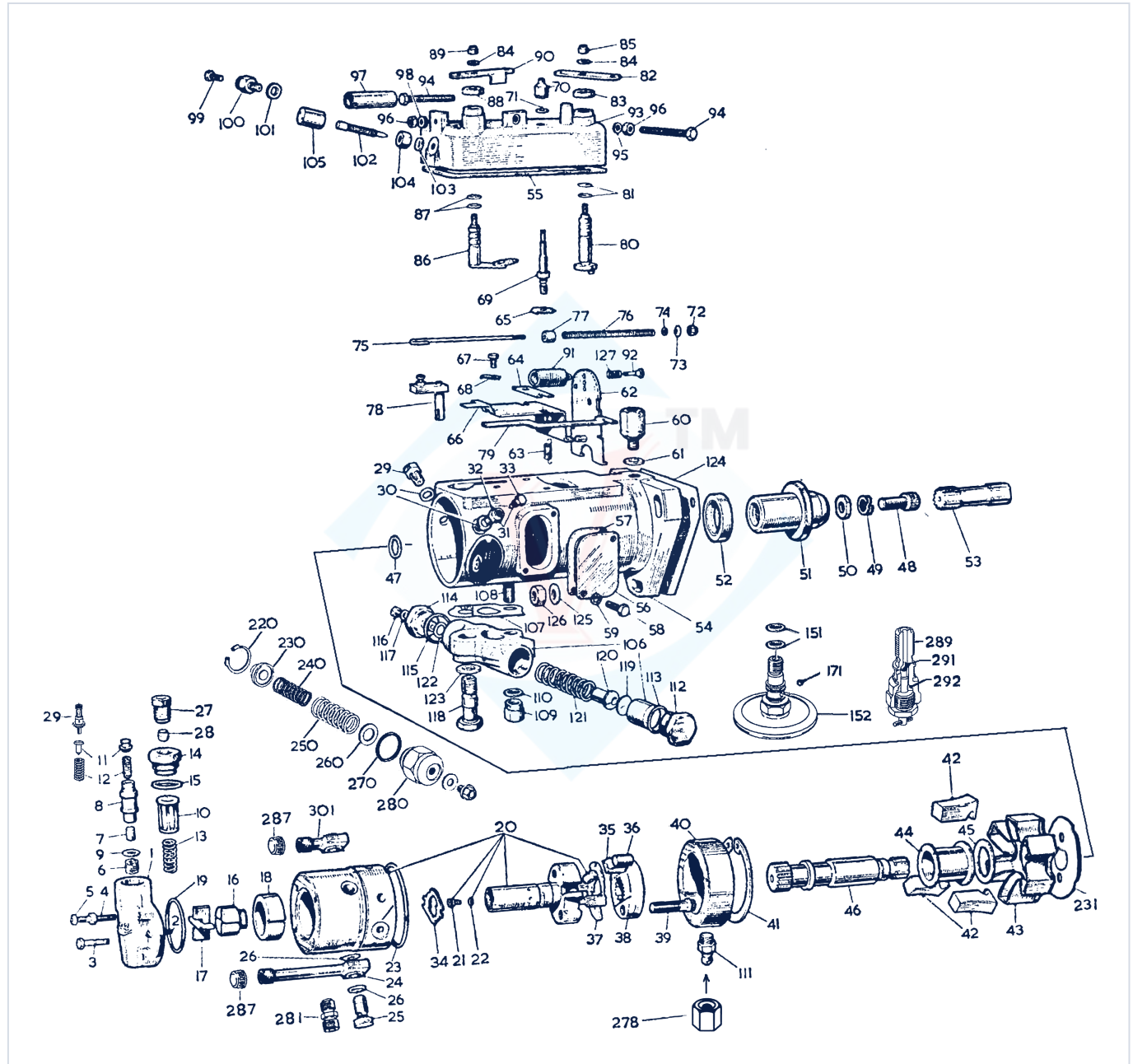
04 FAST DISPATCH

Packed with care and dispatched quickly to workshops and dealers in Pakistan and the Middle East.

Every model, ready to fit. Send us the number on your old pump's name plate on WhatsApp and we will supply the matching complete pump.

DPA PUMP EXPLODED VIEW

Every part of a DPA rotary pump with mechanical governor, shown in assembly order. Use it to identify the part you need, then quote the number stamped on the old part when ordering.



TOP

Control cover, throttle and shut-off shafts

MIDDLE

Governor linkage, pump body, drive hub and oil seal

LOWER LEFT

Advance device, end plate and transfer pump

LOWER RIGHT

Head and rotor, cam ring, drive shaft and governor weights

HEADS & ROTORS

The head and rotor are the central pumping and distributing core of a DPA pump. A single rotor carries two opposed plungers that serve every cylinder in firing order, while the head distributes the fuel to each outlet. The rotor is lapped to its head, so the pair is always supplied and fitted together.



HOW IT WORKS

As the rotor turns, its plungers are pushed inward by the cam ring and deliver high-pressure fuel to each injector in turn.

3 & 4 CYLINDER

MF, Fiat, Ford, Perkins and Ursus applications

MATCH THE NUMBER

Read the full number on the head flange. Short refs like 708S are trade shorthand.

HEAD & ROTOR	SHORT REF	APPLICATION
7180-593N	—	Massey Ferguson 35
7139-764S	708S	MF 135 (1980-82); MF 240 / 350 (1988-2015); MF 260 / 360
7139-235Q	858Q	MF 240 (1983-87); Ursus 2812, 3512, 4512
7123-340U	344U	MF 265 · MF 385
7123-340S	344S	MF 375
7123-340W	—	Perkins 4.236 / 4.318; MF 168, 265, 365, 595, 1080; Fiat 780
7180-861U	853U	MF 385 (alternative head)
7139-764T	708T · 7180-616T	Fiat NH 480 S; Fiat Al-Ghazi; Fiat 3-cylinder
7139-130T	344T	Fiat NH 640, NH 640 S
7139-709W	708W	Ford 2000, 2300, 3000, 3600, 3900, 4000, 4100, 4600, 5000, 5600, 5900
7180-613W	—	Ford 3610, 3910
7180-678L	—	Ford 4610, 6600, 6700
7180-618L	164L	Ford 4610 II New
360U	—	Ask us for application

CAM RINGS

The cam ring sits around the rotor inside the pump body. Its internal cam lobes push the rollers and shoes inward as the rotor turns, driving the plungers to create injection pressure. The number of lobes matches the number of cylinders, and the profile sets the injection rate, so always match the number and rotation arrow stamped on the old ring.



ONE LOBE PER CYLINDER

3, 4 and 6-cylinder rings; clockwise and anti-clockwise versions

MF · FIAT · FORD

plus Perkins, John Deere, David Brown, Bedford and Dodge

CHECK THE STAMP

Each ring carries its number and a rotation arrow on the face

CAM RING	APPLICATION
7139-940E	Massey Ferguson 240
7123-309C	MF 260 (86)
7123-308N	MF 265 / 375; Fiat 600 / 640; MF 50, 165, 175
7123-308T	MF 385 · Perkins 4.236 / 4.248 / A4.248, JCB
7123-309X	MF 35
7139-763E	MF 135 (68-73) (309Q)
7123-309Q	MF 135 / 140 (64-69)
7123-308D	MF 165 (66-68)
7123-309E	Perkins 6.354; Dodge; MF 135
7123-423C	MF old model
7123-963M	MF old model
7123-308F	Massey Ferguson
7123-309M	BMC TM100 (64-75); MF F135 (65-67)
7139-713D	MF old model
7139-713E	MF 178 / 185 (72-73) · IMT 575
7139-713F	MF 165 (66-72)
7139-713M	MF 165 (74), MF 174 (76)
7123-308E	MF 385 · David Brown 950; Arcelik SP 1000 harvester
7139-974D	Fiat 480 (71-75), 540 (76-77), 450 (70-71)
7139-100P	Fiat 450
7139-844E	Fiat 50 NC old model
7139-844M	Fiat 50 NC new model
7139-880P	Fiat 450 (68-69)
7139-949E	Fiat 780
7139-552C	Ford 2000 (66-72)

CAM RING	APPLICATION
7139-841C	Ford 3000 / 4000 / 5000
7139-940Q	Ford 3600 / 3900 / 4100 / 5600
7139-949N	Ford 5000 / 6600
7139-949Q	Ford 6600; Fiat 780
7167-973D	Ford 3610 / 3910
7167-973E	Ford 4610 / 6600 / 6700
7185-104A	Ford 4610 II New
7167-287A	Dodge PD 250 truck (non-electrical)
7167-975Q	Dodge AS 600 / 700 truck
7180-28B	Dodge PD 350 truck (electrical)
7139-687F	Bedford KGLC 381 cu.in truck
7139-940D	Bedford (Vauxhall 330) · SAME 986 / 1056
7139-940N	Bedford 330 cu.in (Vauxhall 330) · Allis Chalmers
7139-786L	John Deere 12
9003-703	John Deere 1120
9003-675	John Deere 1120
7123-309D	Perkins 6.354; International 1700; John Deere 630 harvester
7123-308S	John Deere 2030 / 2130 (73-76)
971B	Ask us for application
444A	Ask us for application
7180-971A	Delphi DPA · ask us for application
7180-142A	Delphi DPA · ask us for application
7180-869A	Delphi DPA · ask us for application
7180-280A	Delphi DPA · ask us for application

METERING VALVES

The metering valve controls how much fuel enters the rotor before each injection stroke. It is turned by the governor linkage: open for more fuel and power, closed for less, and fully shut by the stop control to stop the engine. Slot profile and arm type differ by pump, so match the number stamped on the arm.



CONTROLS FUEL VOLUME

Meters fuel at transfer pressure so only the exact quantity needed is pumped to the injectors.

MF · FIAT · FORD

Standard, long-stem, extended-pin and offset-pin types

READ THE ARM

The number is stamped on the top arm of the valve

METERING VALVE	TYPE	APPLICATION
7123-490E	Standard	MF 135, 260, 360; Ford 2000, 2300, 3000, 3600, 3900, 4000, 4100, 4600, 5000, 5600
7123-490	Standard	DPA pumps, earlier pattern
7123-490AE	Standard	MF 375 · MF 385 (hub, shaft and solenoid pumps)
7123-490F	Standard	Ask us for application
7123-930G	Standard	MF 35, 240, 265
7123-299P	Long stem	DPA pumps
7123-299A	—	DPA hydraulic governor · Bedford
7180-321A	Extended pin	John Deere 3.179 / 4.239, Perkins 6.354, Cummins 6B · MF, JD
7139-559	Standard	DPA pumps
7139-559AF	Standard	Bedford · Ford 175 / 192 / 201 · NH 5900 / 6600 · Perkins 6.354, Cummins 4BTG2
7139-559C	Standard	Ask us for application
7139-559D	Standard	Fiat NH 480 S; Fiat Al-Ghazi
7139-559H	Standard	Fiat NH 640, NH 640 S
7139-559P	Standard	DPA pumps
7182-620A	Standard	DPA pumps
7182-620G	Standard	Ask us for application
7182-621A	Standard	DPA pumps
7182-621E	Standard	Ford 4610 II New
7182-621G	Standard	Ask us for application
7182-621J	Standard	Ask us for application
7180-935A	Offset pin	Ask us for application
7180-935C	Offset pin	DPA pumps
7180-935E	Offset pin	DPA pumps
7189-130LB	DP200 series	DP200-series pumps
7189-130NC	DP200 series	DP200-series pumps

SPRINGS

A DPA pump uses several key springs to control transfer pressure, idle speed and governor response: the regulating spring sets transfer pressure, the idling spring and guide steady low-speed running, governor springs balance the flyweights against engine load, and retaining springs hold the valve sleeve and filter in place. Spring rate decides how the pump behaves, so always match the full part number.



GOVERNOR SPRINGS

94 and 898 series balance the flyweights and set governed engine speed

REGULATING & IDLING

7123-033E sets transfer pressure; 7123-092 with guide 7123-093 controls idle

MATCH THE RATE

Springs look alike but differ in rate. Quote the number, not just the size.

PART NUMBER	SPRING	ALT REF	APPLICATION
7123-94J	Governor spring	7123-094J	DPA mechanical-governor pumps
7123-94H	Governor spring	7123-094H	DPA mechanical-governor pumps
7123-94Q	Governor spring	7123-094Q	DPA mechanical-governor pumps
7123-94F	Governor spring	7123-094F	DPA mechanical-governor pumps
7123-94L	Governor spring	7123-094L	DPA and DPS pumps incl. 3238F320, 3238F490, 3343F741
7123-94G	Governor spring	7123-094G	DPA mechanical-governor pumps
7123-898G	Governor spring	—	DPA mechanical-governor pumps
7123-898S	Governor spring	—	DPA mechanical-governor pumps
7123-898M	Governor spring	—	Ask us for application
7123-898H	Governor spring	—	Ask us for application
7123-89	Lever spring (governor plate)	—	DPA governor plate and lever
7123-453E	Spring link rod (governor control)	7123-453 · 7123-453B · 7123-453C	DPA and DPS mechanical-governor pumps
—	Accelerator return spring	—	Throttle lever return, all DPA pumps
7123-092	Idle spring	7123-92 · 7123-092A · 7123-092C · 7123-092D	Lucas CAV DPA & DPS · Perkins and Ford
7123-092B	Idling spring & guide	7123-92A · 7123-93 · 7123-093A	DPA pumps
7123-33E	Regulating spring	7123-033E	Transfer pressure regulating valve
7123-439	Piston retaining spring	9003-403 · pack of 10	Regulating valve piston
7139-449A	Priming spring	9003-426	Regulating valve assembly
7139-010A	Advance spring	7139-010B	Automatic advance piston
7123-294B	Advance spring, inner	—	Automatic advance
7123-293B	Advance spring, outer	—	Automatic advance
7180-879A	Compression spring	7123-551	DPA pumps
7167-183A	Spring & guide	—	DPA pumps

SECTION H

NOZZLES & PLUNGERS

The nozzle is the tip of the injector that sprays fuel into the engine cylinder as a fine, evenly shaped mist for clean combustion. Inside, a precision needle lifts at a set opening pressure and closes sharply to stop dribble. Each nozzle is a matched needle and body, so never mix needles between nozzles.



S-TYPE & P-TYPE

Standard S-type and larger-shoulder P-type, including Stanadyne

BELARUS PLUNGERS

9173-82 · 9173-82A, new and old model

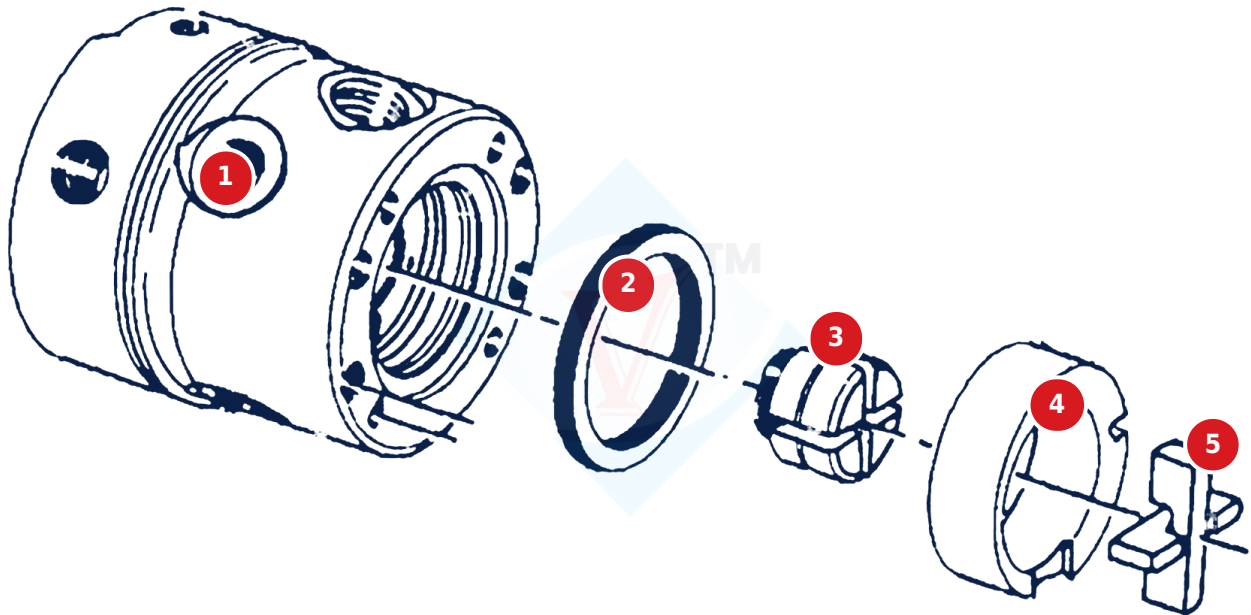
NOZZLE	TYPE	ALT REF	APPLICATION
BDLL150S6602	S-type	—	MF 240 (new model)
BDLL150S6554	S-type	—	MF 135 · MF 240 (old model)
BDLL150S6705	S-type	—	MF 375 · also MF 175, 265, 275
BDLL150S6556	S-type	DLLA150S6556 · DLLA150S1052	MF 375 (old model) · MF 265; Perkins A4.236, A4.248
BDLL150S6743	S-type	5621791	Perkins AD3.152, AD4.203
BDLL110S6267	S-type	—	MF 35
6801029	—	—	MF 260
6801022	—	—	MF 385
6801027	—	—	MF 385 (new model)
6801110	—	—	Ford 4610 II New
SDSLA150P46149	P-type	Stanadyne	MF 260 (Stanadyne pump)
SDSLA148P46147	P-type	Stanadyne	MF 385 (Stanadyne pump)
BDLLA124S1001	S-type	—	Fiat 480
BDLLA136S1000	S-type	—	Fiat 640
BDLL140S6655	S-type	—	Fiat 640
BDLL150S6571	S-type	—	Ford 2000, 2300, 3000
BDLL150S6372	S-type	—	MF 135
P760	—	—	Massey Ferguson (Iran)
BDLL140S6422	S-type	—	Ford 3000, 5000, 5900
BDLL150S6476	S-type	C5NE9E527C · 81813344	Ford 4610 · Ford NH 4000, 4500, 5900, 6500
BDLL150S6665	S-type	—	Ford 4610 · Ford 3600, 3900, 4100, 5600
BDLL150S6666	S-type	—	Ford 4600
BDLL150S6780CF	S-type	—	Ford 4600 · Ford 3610, 3910
BDLL150S6774CF	S-type	5621821 · D8NN9E527BB	Ford NH 4610, 6600, 6700
BDLL140S6707	S-type	—	Ford 1210, 1211
BDLL160S6703	S-type	—	Bedford truck
BDSL150A38	A-type	—	Ursus 2812, 3512, 4512
2645K602	—	2645C617 · 26461308	Perkins 4.236, T4.236, 4.41, 1006-6

TOYOTA · MAZDA · NISSAN · RUSSIAN & BELARUS TRACTORS

DLLA140SN634 Zexel	DLLA154S324N413 Zexel	DLLA160SN698 Zexel	DLLA158SN638 Zexel	DLLA154PN007 Zexel
DN0SD112 Zexel · pintle	DN0SD193 Zexel · pintle	DN0PD31 Zexel · pintle	DN4PD57 Zexel · pintle	DN20PD32 Zexel · pintle
DLLA134S1320 Bosch	DLLA140S64F China	120S31E 174-02 Russian · 174.1112110-02 · MTZ D-240/245/260	HL120S31E940P3 Belarus 510 · inline pump	P533-3827 Belarus 510 · inline pump

HEAD & TRANSFER PUMP ASSEMBLY

How the head and rotor, rotor nut, liner and blades fit together at the transfer pump end of a DPA pump.



Assembly order, left to right: head and rotor, head sealing ring, rotor nut, liner, blades.

NO.	PART	PART NUMBER	WHAT IT DOES
1	Head & rotor	See Section D	Matched hydraulic head and rotor. The rotor turns inside the head and sends fuel to each injector outlet.
2	Head sealing ring	7185-950BC	Sealing ring fitted behind the head and rotor, sealing the head into the pump body. Renew it whenever the head is removed.
3	Rotor nut	7123-18F • 7123-18G • 7182-245	Screws onto the end of the rotor and carries the transfer pump blades. Clockwise and anti-clockwise versions.
4	Transfer pump liner	7139-223 • 7139-540 • 7139-541 • 7139-469	Eccentric liner in which the blades run. Its offset creates the pumping action.
5	Transfer pump blades	7123-388 • 7135-108	Vane blades that slide in the rotor nut and lift fuel into the pump at transfer pressure.

HOW IT WORKS

The rotor turns the rotor nut and blades inside the eccentric liner. The blades sweep fuel round the liner and push it into the head at transfer pressure, ready for injection.

SIGNS OF WEAR

Worn blades, a scored liner or a loose rotor nut cause low transfer pressure, hard starting and loss of power.

WHEN REPLACING

Replace blades and liner together, use the rotor nut that matches the pump rotation, and fit a new head sealing ring.

SECTION I

TRANSFER PUMP, LINERS & END PLATE KITS

The vane pump that lifts fuel inside the DPA and the valve that holds its pressure steady.



TRANSFER PUMP BLADE

OEM REF **7123-388**

Pack of 2

Fibre-material vane blades for the internal transfer pump. Light and quiet running; worn blades cause hard starting.

FITS MF, Ford, Case, John Deere, Perkins DPA

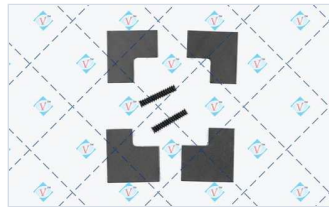


TP BLADE & SPRING KIT

OEM REF **7135-108**

Steel transfer pump blades, set of four, supplied with their springs. Hard-wearing steel for long service; replace as a set at...

FITS DPA pumps



TRANSFER PUMP BLADE & SPRING

OEM REF **7123-388**

Set of 4

Fibre-material transfer pump vane blades, set of four, supplied with their springs. Light and quiet running.

FITS DPA pumps



TRANSFER PUMP BLADE KIT (STANADYNE)

OEM REF **24371**

7123-108

Stanadyne transfer pump blade kit: four steel blades with two springs.

FITS Stanadyne DB / DM pumps · MF 260 / 385 (Stanadyne)



TRANSFER PUMP LINER

OEM REF **7139-223**

7139-223A · 7139-223B

Eccentric liner in which the transfer pump blades run. Fitted in the 7135-110 kit range.

FITS DPA pumps



TRANSFER PUMP LINER

OEM REF **7139-540**

9045-653

Eccentric transfer pump liner with locating slot. Made in the United Kingdom.

FITS DPA pumps on Ford tractors



TRANSFER PUMP LINER

OEM REF **7139-541**

9045-653A

Eccentric transfer pump liner with locating slot and dowel groove.

FITS DPA pumps



TRANSFER PUMP LINER

OEM REF **7139-469**

Eccentric transfer pump liner with locating slot and oval feed port.

FITS DPA pumps



LINER / BLADE KIT

OEM REF **7135-362**

Transfer pump liner with a pair of blades (vanes).

FITS DPA pumps



END PLATE KIT

OEM REF **7135-180**

7123-576L · 7123-576M · 7135-181

Transfer pump end plate with fuel inlet housing.

FITS DPA pumps



END PLATE

OEM REF **7135-180**

Transfer pump end plate body with threaded fuel inlet and four mounting lugs.

FITS Lucas CAV DPA pumps



END PLATE KIT

OEM REF **7135-182**

7184-073A · Perkins 26431838

Transfer pump end plate kit: end plate assembly 7184-073A with sandwich plate 7180-147A.

FITS Clockwise DPS pumps; Lucas CAV DPA & DPS



END PLATE KIT

OEM REF **7135-191**

7185-001A · Ford E8NN9H522AA · F1NN9H522AA

Transfer pump end plate kit with sandwich plate.

FITS DP200, DPA and DPS pumps; Ford tractors and John Deere



REGULATING PISTON

OEM REF **7123-015G**

7123-15G

Piston for the transfer pressure regulating valve.

FITS DPA pumps



REPAIR KIT

OEM REF **9095-27A**

Regulating valve repair kit: sleeve, piston, springs, plugs, sealing washer and inlet filter.

FITS DPA pumps



TP END PLATE COMPLETE KIT

OEM REF **7135-180**

Complete transfer pump end plate kit: end plate, sandwich plate, regulating sleeve and piston, spring, inlet filter, washer and four...

FITS DPA pumps

SLEEVE & PISTON, END PLATE PARTS



SANDWICH PLATE

OEM REF **7180-147A**

9003-841A • Ford E8NN9R572AA

Steel sandwich plate fitted between the end plate and the hydraulic head.

FITS DPA and DPS pumps; Perkins and Ford



SLEEVE & PISTON

OEM REF **7135-74A**

7123-559V

Regulating valve sleeve with piston. Suffix sets transfer pressure.

FITS MF 265, 375, 385



SLEEVE & PISTON

OEM REF **7135-74R/W**

Regulating valve sleeve with piston.

FITS DPA pumps



SLEEVE & PISTON

OEM REF **7135-74Y**

Regulating valve sleeve with piston, alternative transfer pressure.

FITS DPA pumps



SLEEVE & PISTON

OEM REF **7135-74V**

Regulating valve sleeve with piston, alternative transfer pressure.

FITS DPA pumps



SLEEVE & PISTON

OEM REF **7135-74AA**

7135-74N

Regulating valve sleeve with piston, alternative transfer pressure.

FITS DPA pumps



SLEEVE & PISTON

OEM REF **7135-74AH**

Regulating valve sleeve with piston, alternative transfer pressure.

FITS DPA pumps



REGULATING SPRING

OEM REF **7123-033E**

7123-33E

Spring for the transfer pressure regulating valve; sets transfer pressure.

FITS DPA pumps



REGULATING SPRING

OEM REF —

Compression spring for the transfer pressure regulating valve.

FITS DPA pumps



RETAINING SPRING

OEM REF **7180-879A**

7123-551

Compression spring that holds the regulating valve parts in place.

FITS DPA pumps



END PLATE FUEL CONNECTION

OEM REF **7133-037**

7123-37 • 7180-732 • 7123-554 • 7123-444

Fuel inlet connection (head nut) that screws into the transfer pump end plate.

FITS DPA pumps



IDLE SPRING

OEM REF **7123-092**

7123-92 • 7123-092A • 7123-092B • 7123-092C • 7123-092D

Idle / governor control spring that steadies idle speed and throttle response.

FITS Lucas CAV DPA & DPS pumps; Perkins and Ford engines



SPRING PEG

OEM REF **7139-615A**

7139-615B/C • 7123-555C

Peg anchoring the governor spring.

FITS DPA pumps



FILTER

OEM REF **7123-620**

Later ref 7123-620A

Nylon screen filter at the fuel inlet of the end plate. Renew at every overhaul.

FITS DPA, DPS, DP200

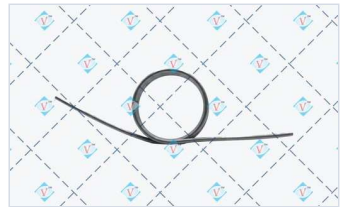


TORSION SPRING

OEM REF —

Steel torsion spring with angled legs.

FITS DPA pumps



TORSION SPRING (LONG LEG)

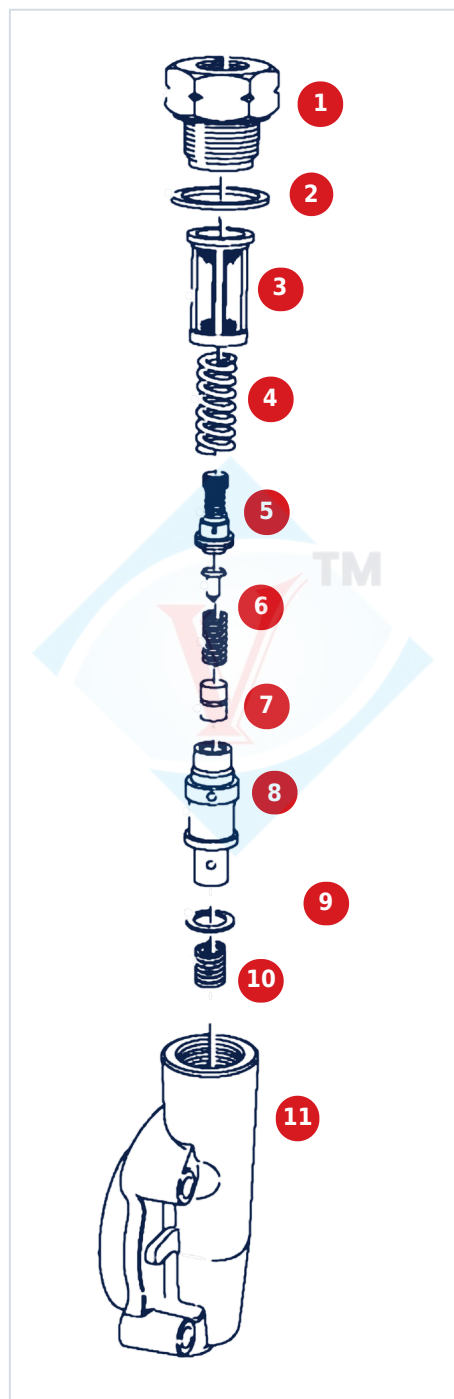
OEM REF —

Steel torsion spring with long straight legs.

FITS DPA pumps

END PLATE & REGULATING VALVE ASSEMBLY

The parts inside the transfer pump end plate, in assembly order from the fuel inlet down to the end plate.



NO.	PART & NUMBER	WHAT IT DOES
1	Head nut for end plate 7133-037	Screws into the end plate and clamps the filter, springs and valve sleeve in place. The fuel feed pipe from the lift pump connects into its centre.
2	Sealing washer In 9095-27A kit	Seals the head nut to the end plate so fuel cannot leak out at the inlet.
3	Inlet filter 7123-620	Nylon gauze filter that catches dirt in the incoming fuel before it reaches the regulating valve and transfer pump.
4	Spring 7180-879A	Sits under the filter and keeps it pressed up against the head nut.
5	Spring guide In 9095-27A kit	Locates the top of the regulating spring and keeps the spring centred in the sleeve.
6	Regulating spring & spacer 7123-033E	The regulating spring pushes down on the piston; its load decides the transfer pressure. Spacers come in 1, 2, 3 or 4 cut grades: refit the same grade.
7	Regulating piston 7123-015G	Free piston in the sleeve. Transfer pressure lifts it against the regulating spring to uncover the return port and spill extra fuel back to the inlet side.
8	Regulating valve sleeve 7135-74A • 74R • 74V • 74N • 74AA	Ported sleeve the piston slides in. Its ports and suffix set the transfer pressure range, so match the old sleeve.
9	Sleeve fibre washer 7180-453	Seals the sleeve in the end plate bore so fuel cannot pass between the inlet and outlet sides.
10	Retaining spring 7123-439	Light spring under the piston. Holds it in position in the sleeve and returns it after hand priming.
11	End plate 7135-180	Closes the transfer pump end of the hydraulic head. Houses the regulating valve and carries fuel from the inlet to the transfer pump.

HOW IT WORKS

Fuel enters through the head nut and filter. With the engine running, transfer pressure lifts the piston against the regulating spring and opens the return port, keeping pressure in step with engine speed. When hand priming, incoming fuel pushes the piston down so fuel can by-pass the transfer pump.

SIGNS OF WEAR

A blocked filter, weak regulating spring or worn sleeve gives low transfer pressure: hard starting and loss of power at speed.

WHEN REPLACING

Fit new sealing and sleeve fibre washers, clean or renew the filter, use the sleeve with the same suffix and the spacer with the same number of cuts.

SECTION J

ROTOR NUTS, ROLLERS & DRIVE PLATES

Rollers, shoes, plates, screws and fittings that work with the head, rotor and cam ring.



ROTOR NUT, CLOCKWISE

OEM REF **7123-18F**

7123-018F · 7123-18D · 7123-018D

Transfer rotor nut for right-hand (clockwise) pumps.

FITS DPA pumps



ROTOR NUT, ANTI-CLOCKWISE

OEM REF **7123-18G**

7123-018G · 7123-18A · 7123-18E

· 7123-905A

Transfer rotor nut for left-hand pumps.

FITS DPA pumps



ROTOR NUT

OEM REF **7182-245**

Transfer rotor nut, later pattern.

FITS DPA pumps



CAM RING SCREW

OEM REF **7123-975**

Locating screw that holds the cam ring in the pump body.

FITS DPA and DPS pumps



CAM RING SPINNING TOOL

OEM REF **7123-975**

Long hex spinning tool used to turn and position the cam ring screw during pump assembly.

FITS DPA and DPS pumps



ADJUSTING PLATE

OEM REF **7135-73A**

7135-73 · 7123-915A · 7139-512A

Plate that sets maximum plunger stroke (fuel setting).

FITS DPA pumps



ROLLER & SHOE KIT

OEM REF **7135-72**

Pumping rollers with shoes that ride on the cam ring. Replace as a set.

FITS DPA pumps



ROLLER & SHOE KIT

OEM REF **7135-72N**

Set of four rollers with shoes for 4-plunger heads.

FITS DPA pumps



ADJUSTING CAGE

OEM REF **7180-917**

Adjusting cage that sets maximum plunger stroke.

FITS DPA pumps



GOVERNOR BACK PLATE

OEM REF **7123-698**

Thrust washer plate behind the governor weights.

FITS DPA pumps · Perkins, Ford, John Deere

CROSS-REF Perkins 26430348 · Ford D8NN9N862AA · John Deere T24572 · Volvo 0242550-2 · Leyland 17H8198



CHECK PLATE

OEM REF **7135-234B**

Delphi check plate (also called adjustment or fuel plate) used in the DPA pump. Other plates in the series: 7135-234C, 234E, 234F.

FITS Lucas CAV / Delphi DPA pumps



DRIVE PLATE

OEM REF **7123-808**

Splined drive plate with two fixing holes.

FITS DPA pumps



FUEL TANK PIPE CONNECTION BOLT

OEM REF —

Double-threaded connection bolt with central hex for the fuel tank pipe.

FITS Diesel fuel systems



STOP SOLENOID 12V

OEM REF **7185-900T**

7167-620D

Electric shut-off solenoid. Key on: the plunger pulls in and opens the fuel feed to the head. Key off: the plunger releases an...

FITS DPA pumps on 12 V tractors, incl. MF 385 solenoid pump (3340F090T)



STOP SOLENOID 24V

OEM REF **7180-49D**

7185-900P

Electric shut-off solenoid for 24 V systems. Same body and thread as the 12 V unit; fit only on 24 V machines.

FITS DPA, DPS, DP200, DP210 and DP10 pumps on 24 V systems



DIESEL FUEL FILTER

OEM REF **7111-296**

Spin-on diesel fuel filter element with perforated steel end plate and threaded centre bore.

FITS DPA fuel systems · tractors

SECTION K

DRIVE SHAFTS, HUBS & GOVERNOR WEIGHTS

Parts that turn the rotor and the centrifugal weights that control engine speed.



DRIVE SHAFT

OEM REF **9059-385A**

7180-136B · 7139-644D

Drive shaft supplied with governor weight cage fitted.

FITS Shaft-drive DPA pumps



DRIVE SHAFT

OEM REF **7139-657C**

Hollow drive shaft, splined at both ends, for 3-cylinder pumps.

FITS 3-cylinder DPA pumps



DRIVE SHAFT

OEM REF **7139-42A**

Hollow drive shaft, splined at both ends, for 4-cylinder pumps.

FITS 4-cylinder DPA pumps



DRIVE SHAFT

OEM REF **—**

Case G47113 · A44710 · John Deere R36538

Stanadine drive shaft: slotted top, seal journals, tapered threaded drive end.

FITS Stanadine DB, DB2, DBG & JDB pumps · John Deere, Case IH



DRIVE SHAFT COMPLETE

OEM REF **7139-42A**

Complete drive shaft assembly: shaft with drive plate, governor weight retainer cage and drive hub, ready to fit.

FITS MF 385 pumps



DRIVE SHAFT

OEM REF **7139-185G**

Splined drive shaft for Bedford DPA pumps.

FITS Bedford vehicles



BMC DRIVE SHAFT ASSY

OEM REF **—**

Complete shaft with weight cage, drive plate and drive hub.

FITS BMC 1.5 / 1.8 diesel · DPA pumps



DRIVE HUB

OEM REF **7123-549**

Drive hub for hub-mounted pumps. Made in UK.

FITS Hub-drive DPA pumps



DRIVE HUB

OEM REF **7123-980**

Drive hub with splined bore and three tapped holes, for 4-cylinder hub-drive pumps.

FITS 4-cylinder hub-drive DPA pumps



DRIVE HUB

OEM REF **—**

Drive hub with steel bearing band and cross-drilled clamp hole, supplied with its clamp bolt and nut.

FITS Bedford 6-cylinder



DRIVE PLATE S/O

OEM REF **7123-630A**

Standard (S) · Oversize (O)
Splined drive plate, stamped "C", with two bolt holes. Available in standard and oversize to suit worn or reworked pumps.

FITS DPA pumps



GOVERNOR WEIGHT CAGE

OEM REF **7185-149F**

Pressed-steel cage carrying the governor flyweights.

FITS Mechanical-governor DPA



GOVERNOR WEIGHT CAGE

OEM REF **7174-73E**

Governor weight cage carrying the flyweights on the drive shaft.

FITS Mechanical-governor DPA pumps



GOVERNOR WEIGHT

OEM REF **7123-914E**

Centrifugal flyweight. Fit a full set.

FITS Mechanical-governor DPA



GOVERNOR WEIGHT

OEM REF **7123-914G**

Centrifugal flyweight, alternative profile.

FITS Mechanical-governor DPA



GOVERNOR WEIGHT

OEM REF **7139-362**

Centrifugal flyweight, alternative profile.

FITS Mechanical-governor DPA

GOVERNOR LINKAGE & DRIVE NUTS



THRUST SLEEVE

OEM REF **7167-89**

Sleeve moved by the flyweights onto the governor arm.

FITS DPA pumps



THRUST SLEEVE

OEM REF **7167-89A**

9045-336 · 7139-725A

Thrust sleeve, later pattern.

FITS DPA pumps



GOVERNOR THRUST WASHER

OEM REF **5936-124A**

5936-124

Takes the axial load on the governor sleeve. Approx. 31 mm diameter. Available in 3 thicknesses: 1.5 mm, 1.75 mm and 2 mm.

FITS DPA, DPS and DP200 pumps with mechanical governor



CONTROL BRACKET

OEM REF **7135-76AC**

7135-76

Control bracket and governor plate with spring, ready to fit.

FITS Mechanical-governor DPA



GOVERNOR ARM KIT

OEM REF **7123-100B**

Governor arm assembly with control plate, bracket and spring.

FITS Mechanical-governor DPA



GOVERNOR SPRING

OEM REF **7123-89**

Hooked tension spring for the governor plate and control lever (used in kits 7135-76AC and 7123-100B).

FITS Mechanical-governor DPA



SPRING LINK ROD

OEM REF **7123-453E**

7123-453 · 7123-453B · 7123-453C

Governor control spring link rod assembly. Connects the governor arm to the control spring, regulating throttle response and...

FITS DPA and DPS mechanical-governor pumps



GOVERNOR SPRING LINK ROD

OEM REF **7139-754G**

Governor spring link rod with hook, long spring and end fitting.

FITS DPA pumps



BANJO HOSE UNION

OEM REF —

Zinc-plated banjo hose union with barbed hose tail for fuel return and leak-off pipes.

FITS DPA pumps and injectors



DRIVE PLATE SCREW

OEM REF **5334-245**

Screw securing the drive plate to the rotor.

FITS DPA pumps



DRIVE SHAFT NUT

OEM REF —

M12

Main drive shaft nut, M12; also used on drive shaft 9059-385A.

FITS Lucas CAV DPA & DPS pumps · Fiat



DRIVE SHAFT CLOSED NUT

OEM REF —

Closed (cap) nut for drive shaft 9059-385A.

FITS Fiat



ADAPTER COMPLETE

OEM REF —

Complete injector adapter set: threaded adapter body with cap nut and bolt.

FITS Fiat · New Holland tractors



PUMP HOUSING LOCK

OEM REF —

Internal circlip (retaining ring) that locks parts in the pump housing.

FITS DPA pumps



DRIVE SHAFT KEY / COTTER

OEM REF —

Half-moon (Woodruff) key that locks the drive gear or hub on the drive shaft.

FITS DPA pumps



FUEL OUTLET CONNECTOR / ATOMIZER PLUG

OEM REF **7123-501**

Fuel return or outlet connection. Central hexagon with threaded ends on both sides, supplied with a metal sealing washer.

FITS Lucas, CAV & Delphi injection pumps

SECTION L

CONTROL COVER, LEVERS & VALVES

Top cover parts, throttle and stop controls.



CONTROL COVER

OEM REF **7180-872A**

7180-332A · 7123-888 · 7123-888D

Aluminium top cover for throttle and shut-off shafts.

FITS DPA pumps



THROTTLE SHAFT

OEM REF **7123-770P**

7123-770

Throttle shaft and lever through the control cover, supplied with seals and washers.

FITS DPA pumps



LEVER ASSEMBLY (VE PUMP)

OEM REF —

Complete throttle lever assembly: stud with knurled nut, lever plate and link pin, ready to fit.

FITS VE distributor pumps · Toyota



THROTTLE SHAFT (LONG)

OEM REF **7123-770A**

Long throttle shaft with lever, link plate and lock nut.

FITS DPA pumps



SHUT-OFF SHAFT

OEM REF **7123-726D**

7123-726

Shut-off shaft that closes the metering port to stop the engine. Supplied with O-rings, lock nut and shakeproof washer.

FITS DPA pumps



STOP LEVER SPRING

OEM REF —

Tension spring with hooked ends for the stop (shut-off) lever.

FITS DPA pumps



ACCELERATOR SPRING

OEM REF —

Long tension spring with hooked ends for the accelerator (throttle) lever return.

FITS DPA pumps



SHUT-OFF BAR

OEM REF **7123-304B**

7123-304E

Bar linking the shut-off spindle to the metering valve.

FITS DPA pumps



STOP LEVER

OEM REF **7123-725B**

7123-725A · 7123-725D · 7123-461

Fuel shut-off (stop) lever for DPA mechanical-governor pumps.

FITS DPA pumps on tractor, marine and industrial engines (John Deere, BMC and others)



THROTTLE LEVER (SHORT)

OEM REF **7123-724**

7123-724D · 7123-724C · 7123-460

Throttle / control lever that fits the throttle shaft on DPA and DPS pumps. Worn levers cause poor idle and RPM control.

FITS DPA & DPS pumps: mainly MF and Perkins



THROTTLE LEVER (LONG)

OEM REF **7123-724**

Long throttle / control lever with bent tab, fitted to the throttle shaft. Long pattern for Fiat pumps.

FITS Fiat tractors (DPA pumps)



DUST CAP

OEM REF **7123-728A**

7123-728

Dust cap over the control shaft, keeping dirt out of the control cover.

FITS DPA pumps



NON-RETURN VALVE

OEM REF **7139-854**

7167-379C · 9007-988C

Non-return valve on the pump return line.

FITS DPA pumps



NON-RETURN VALVE

OEM REF **7167-379E**

Non-return valve fitting on the pump return line.

FITS DPA pumps



OVERFLOW VALVE / FUEL RETURN BACK-LEAK CONNECTION

OEM REF **7182-797B**

7182-797

Overflow valve adaptor for the fuel return / back-leak line. Length 28 mm, thread W1/4" 28.

FITS Lucas / CAV / Delphi DPA, DPS & DP200 pumps



FUEL RETURN / BACK-LEAK DRAIN CONNECTION

OEM REF **7182-797C**

Hex-body drain connection for fuel return / back-leak line.

FITS DPA pumps

SECTION M

ADVANCE HOUSING & PISTON

Advance housings with piston, plus housing nuts, studs, plugs and fuel connections.



ADVANCE HOUSING & PISTON

OEM REF **7123-819BJ-E**

Advance housing complete with piston. Made in UK.

FITS DPA with automatic advance



ADVANCE HOUSING & PISTON

OEM REF **7139-16**

Advance housing complete with piston for 4-cylinder DPA pumps.

FITS 4-cylinder engines, e.g. Perkins A4.236 / A4.248 (MF 265, 375, 385)



ADVANCE HOUSING & PISTON

OEM REF **7139-16A**

Advance housing complete with piston for 3-cylinder Fiat DPA pumps.

FITS Fiat 3-cylinder tractors, e.g. Fiat 480



ADVANCE HOUSING & PISTON

OEM REF **7123-819AX-K**

Advance housing complete with piston for 6-cylinder DPA pumps.

FITS Bedford 6-cylinder diesel engines



ADVANCE HOUSING & PISTON

OEM REF **7123-819CY-Z**

Advance housing complete with piston for 6-cylinder DPA pumps.

FITS Bedford 6-cylinder diesel engines



ADVANCE HOUSING & PISTON

OEM REF **7123-819CB-X**

Advance housing complete with piston for 6-cylinder DPA pumps.

FITS Bedford 6-cylinder diesel engines



ADVANCE HOUSING & PISTON

OEM REF **7123-819AZ**

Advance housing complete with piston for Ford DPA pumps.

FITS Ford tractors - Lucas CAV DPA



ADVANCE HOUSING NUT

OEM REF —

Threaded end plug / nut with locating pin that closes the advance housing.

FITS DPA advance housing



ADVANCE HOUSING NUT

OEM REF —

Threaded advance housing nut with sealed fuel connection.

FITS DPA advance housing



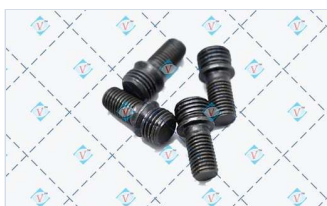
ADVANCE HOUSING PLUG

OEM REF **7123-473B**

7123-473J

Hex plug closing the advance housing piston bore.

FITS DPA pumps



ADVANCE HOUSING STUD

OEM REF **5335-694**

Stepped stud that fixes the advance housing to the pump body.

FITS DPA pumps



ADVANCE HOUSING NUT

OEM REF **5330-362**

Hex cap nut for the advance housing (closed cap nut and open nut shown).

FITS DPA pumps

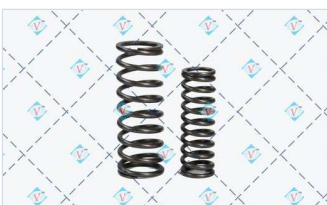


ADVANCE SPRING SEAT

OEM REF —

Advance spring seat (cup) that locates the advance spring in the housing.

FITS Lucas CAV DPA & DPS pumps



ADVANCE MECHANISM SPRING

OEM REF **7123-294B**

Advance mechanism springs, long and short, for the automatic advance piston.

FITS DPA pumps with automatic advance



ADVANCE HOUSING HEAD LOCATION BOLT

OEM REF **7174-660A**

Location bolt / stud for the advance housing head, supplied with two O-rings and a check ball.

FITS DPA pumps with automatic advance



RETARD DEVICE

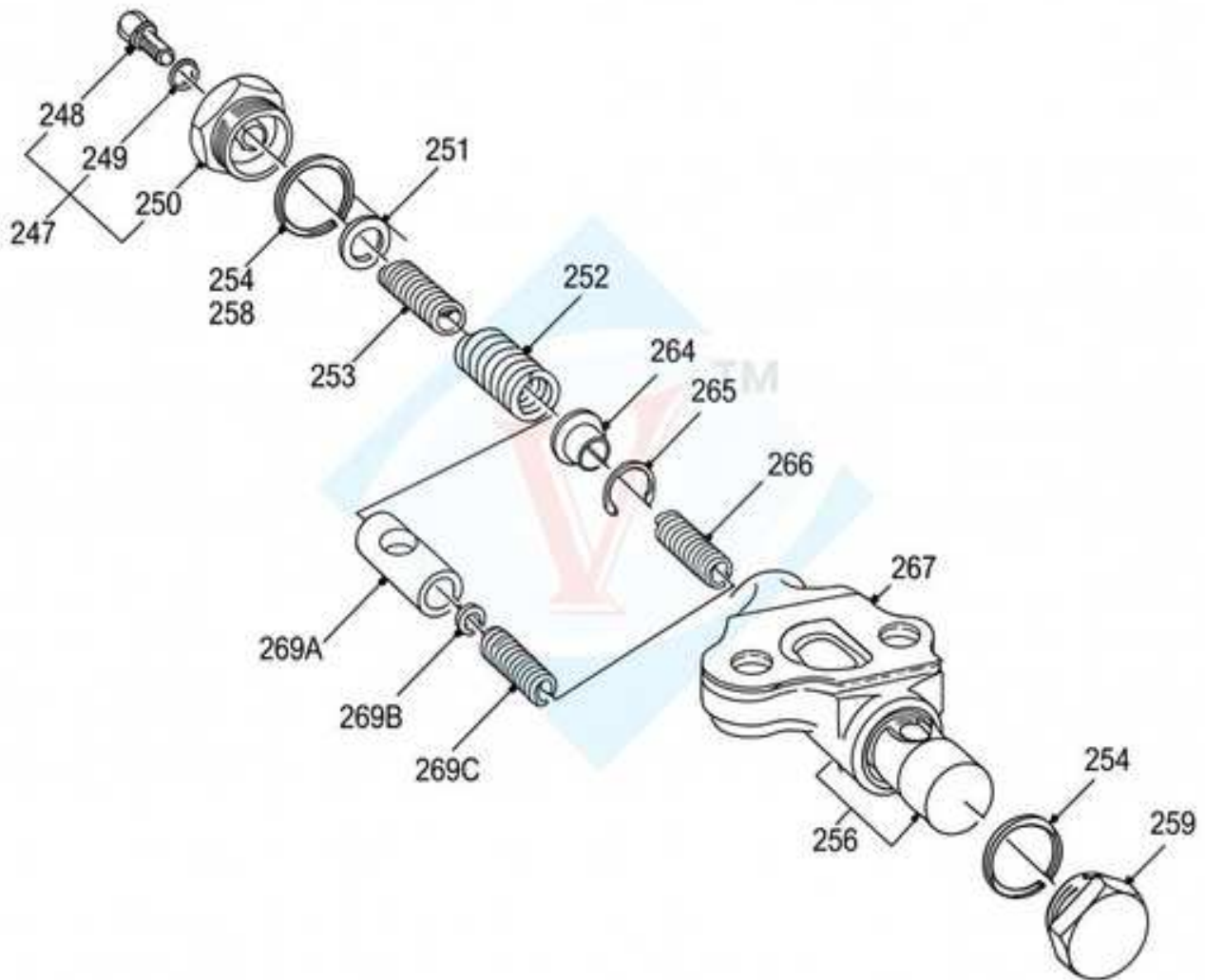
OEM REF **7139-2C**

Light-load retard device.

FITS DPA pumps

ADVANCE DEVICE ASSEMBLY

Exploded view of the automatic advance device on the DPA pump: the advance housing and piston, springs, spring seats, end plugs and sealing rings, shown in assembly order.



HOW IT WORKS

Transfer pressure acts on the advance piston against the advance springs. As engine speed rises, pressure moves the piston, which turns the cam ring and starts injection earlier.

SIGNS OF WEAR

A worn piston or bore, or a weak or broken spring, gives wrong timing: knocking, smoke, hard starting or loss of power.

WHEN REPLACING

Fit new sealing rings under both end plugs, use springs and shims of the same rating, and check that the piston slides freely in the housing.

SECTION N

BANJO BOLTS & SCREWS

Advance parts, banjos and fuel fittings.



FUEL PULSATION DAMPER

OEM REF **7139-159F**

Fuel pulsation damper with diaphragm plate and threaded connector, smooths pressure pulses in the advance circuit.

FITS DPA pumps



ADVANCE SPRING

OEM REF **7139-010B**

7139-010A

Compression spring for the automatic advance piston; sets how the injection timing advances with speed.

FITS DPA pumps with automatic advance



HEAD CAP SCREW

OEM REF **5334-280**

Hex head cap screw (also called hollow bolt), sold in packs of five.

FITS MF 385 4-cylinder & Perkins



INJECTOR LINE BANJO BOLT

OEM REF **7180-358**

7139-752

Banjo bolt with internal piston and spring (pressurising / overflow valve) connecting the high-pressure injector line to the pump.

FITS DPA, DP200, DP210, DP310 · MF, Perkins, Belarus



RETURN VALVE BANJO SCREW

OEM REF **7139-177A**

7123-339D · 28238168

Banjo-style connection screw with built-in pressure / return valve. Also known as 339D.

FITS DPA & DPS pumps · Perkins, Fiat, Renault



BANJO BOLT

OEM REF **7185-177**

Long banjo bolt with sealing collar for fuel pipe connections.

FITS DPA pumps



FUEL OUTLET BANJO BOLT

OEM REF **7123-339D**

7139-177A

Fuel outlet banjo bolt for Lucas CAV DPA and DPS pumps.

FITS DPA & DPS pumps



FUEL OUTLET / LINE CONNECTOR

OEM REF **7123-499**

7180-829

Fuel outlet / line connector with square banjo eye and threaded stem.

FITS DPA pumps



BANJO

OEM REF **7139-354**

Long banjo eye bolt supplied with lock nut.

FITS DPA pumps



BANJO

OEM REF **7167-978**

Long banjo eye bolt supplied with lock nut, alternative pattern.

FITS DPA pumps



LEAK-OFF BOLT

OEM REF **7008-188**

Hollow bolt for injector leak-off pipes.

FITS DPA systems



BANJO BOLT

OEM REF **7008-188F**

Hollow banjo bolt with side port for fuel pipe connections.

FITS DPA pumps



BANJO BOLT CONNECTING SCREW

OEM REF **3911446 / 390586**

Banjo connecting screw fitted with a brass bleed screw.

FITS Cummins diesel engines



HEX-HEAD SCREW

OEM REF **7111-135A**

Hollow hex-head banjo screw with cross-drilled fuel port.

FITS DPA pumps



BANJO BOLT

OEM REF **7111-308**

9007-896

Hollow banjo bolt with side port for fuel pipe unions.

FITS DPA pumps and injector leak-off



CAM RING SCREW

OEM REF **7123-218**

Screw locating the cam ring in the pump body.

FITS Lucas CAV DPA pumps

SCREWS, VENT PLUGS & COVER PLATES



FUEL RAIL BANJO FITTING

OEM REF —

Double-threaded banjo fitting with central hex and side cross-drilling for the fuel rail / return line.

FITS Diesel injection pumps



FUEL RAIL BANJO FITTING

OEM REF —

Double-threaded banjo fitting with central hex and side cross-drilling, longer pattern.

FITS Diesel injection pumps



DRIVE HUB HEX BOLT

OEM REF —

Socket-head (Allen) bolt securing the drive hub.

FITS Hub-drive DPA pumps



HOUSING SCREW

OEM REF **7185-304A**

Socket-head (Allen) housing screw.

FITS DPA pumps



CONTROL BRACKET SCREW

OEM REF **5334-277**

7123-219 • 7123-463 • 9007-032

Small hex screw securing the control bracket / governor arm (used in kits 7135-76AC and 7123-100B).

FITS Mechanical-governor DPA



HEAD & ROTOR BOLT

OEM REF —

Hex bolt securing the hydraulic head and rotor into the pump body.

FITS DPA pumps



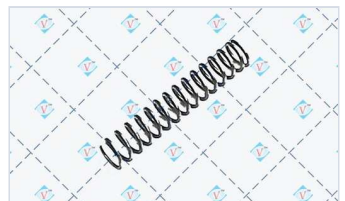
INJECTOR STUDS

OEM REF —

1" • 1.5" • 2" • 2.5" • 3"

Zinc-plated injector studs with nuts, available in 1", 1.5", 2", 2.5" and 3" lengths.

FITS Injector mounting • tractor engines



PRESSURE REGULATING SPRING

OEM REF **7139-449A**

9003-426

Fine compression spring for the regulating valve (priming / pressure spring).

FITS DPA pumps



VENT SCREW

OEM REF **7123-351B**

7240-20B

Vent / bleed screw assembly with lock nut, used for priming the pump.

FITS DPA pumps



VENT SCREW

OEM REF **7123-352B**

7240-20A

Vent / bleed screw assembly with lock nut, alternative length.

FITS DPA pumps



PRESSURE SPRING & GUIDE

OEM REF **7167-183A**

Heavy compression spring with closed, ground ends, supplied with its guide.

FITS DPA pumps



CONTROL COVER STUD

OEM REF **7123-527**

7123-103

Control cover stud with hex nut, lock tab and sealing washer.

FITS DPA pumps



COVER PLATE

OEM REF **7180-55A**

9045-063 • 7167-262A • 7167-913A

Blanking cover plate.

FITS DPA pumps



COVER PLATE

OEM REF **7180-57A**

7180-57 • 9045-296

Pump side cover plate with threaded boss and centre fitting, shown from both sides.

FITS Ford, Perkins and International Harvester DPA pumps



ADVANCE HOUSING HEAD SCREW

OEM REF **7123-183**

Hex-head screw securing the advance device housing to the pump head.

FITS DPA pumps



GOVERNOR SHAFT RUBBER

OEM REF **7123-691**

Rubber pads used in the governor shaft assembly.

FITS Mechanical-governor DPA pumps

PIPE NUTS, SPRINGS & SCREWS



INJECTOR PRESSURE PIN

OEM REF **2 433 124 379**

2 433 124 388 • 2 433 101 013

Pressure pin (push rod / pressure spindle) that passes the spring load to the nozzle needle inside the injector.

FITS Bosch-type injectors • commercial and industrial diesel engines



COVER PLATE LOCKING SCREW

OEM REF **5334-274**

Hollow hex locking screw with cross-drilled port, securing the cover plate.

FITS DPA pumps



SPRING PEG

OEM REF **7123-093**

Governor spring peg with eye for the spring hook.

FITS DPA pumps



PIPE NUT

OEM REF **5/8"**

Hex pipe nut for 5/8 inch fuel pipe, zinc-plated.

FITS Fuel pipes • DPA pumps and injectors



PIPE NUT

OEM REF **3/4"**

Hex pipe nut for 3/4 inch fuel pipe.

FITS Fuel pipes • DPA pumps and injectors



PIPE NIPPLE

OEM REF **—**

Threaded pipe nipple (olive) for fuel pipe connections.

FITS Fuel pipes • DPA pumps and injectors



REAR TRAILING SHIM

OEM REF **—**

Slotted setting shim used in the advance device; shim thickness sets the advance spring preload and so the timing advance.

FITS DPA pumps



BLEED SCREW

OEM REF **5334-332**

7180-371

Small pointed-tip bleed screw for venting air from the pump.

FITS DPA pumps



END PLATE COVER SCREW

OEM REF **5334-315D**

5334-315E • 9045-076C

Hex-head screw securing the end plate cover.

FITS DPA pumps



DIESEL SCREW

OEM REF **5334-267J**

267B • 267A • 5334-274J

Long flanged hex-head diesel screw with pilot end.

FITS DPA pumps



NYLOC NUT

OEM REF **5330-406**

5330-406A • NU9-8Y1

Self-locking nut.

FITS DPA pumps



FILTER BODY BOLT

OEM REF **—**

Hex-head threaded bolt (plug) for the fuel filter body.

FITS Fuel filter housings • DPA fuel systems



PROTECTION CAP

OEM REF **7187-132**

7167-61 • 9007-598D • NX2-6 • 7167-60

Plastic transit plugs and caps that seal open ports.

FITS All pumps



PROTECTION CAP (12 MM)

OEM REF **7187-132**

Red plastic protection cap, 12 mm size.

Seals open ports during storage and transit.

FITS All pumps



PROTECTION CAP (CLEAR)

OEM REF **7187-132**

Clear domed plastic protection cap that seals open ports during storage and transit.

FITS All pumps



BLACK CAP (LONG)

OEM REF **—**

Long black protection cap.

FITS All pumps

SECTION O

NOZZLE & INJECTOR CAP NUTS

Cap nuts that hold the nozzle on the injector body. Length is given in mm.



NOZZLE CAP NUT

OEM REF **7008-187**

Injector nozzle cap nut. Length 43.65 mm.

FITS Massey Ferguson · Perkins



NOZZLE CAP NUT

OEM REF **9308-002E**

9308-002C

Nozzle cap nut for Delphi common rail injectors (Euro 3/4 and Euro 5). Length approx. 42.3 mm.

FITS Delphi common rail injectors



NOZZLE CAP NUT

OEM REF **7169-581**

2 433 314 044

Injector nozzle cap nut. Length 46.9 mm.

FITS Fiat



NOZZLE CAP NUT

OEM REF **7139-412**

Injector nozzle cap nut. Length 40 mm.

FITS Massey Ferguson



NOZZLE CAP NUT

OEM REF **7139-412N**

Injector nozzle cap nut. Length 33 mm.

FITS Stanadyn



NOZZLE CAP NUT (FULL & HALF)

OEM REF —

Nozzle cap nuts in full and half thread lengths, hex head with external thread. Shown as a pair.

FITS Hyundai · Mitsubishi



NOZZLE CAP NUT

OEM REF —

Silver nozzle cap nut with black hex top, shown with its matching sleeve (2 pcs).

FITS Mazda



NOZZLE CAP NUT

OEM REF —

All-silver nozzle cap nut with hex head and external thread (2 pcs). Length 34 mm, 35.9 mm and 36.10 mm.

FITS Toyota 3L · Hyundai · Nissan



INJECTOR CAP NUT

OEM REF **7008-902-12B1**

Injector cap nut; the 7008-188C banjo bolt screws into the top.

FITS DPA injector lines



INJECTOR CAP NUT

OEM REF **7008-925B**

Injector cap nut; takes the 7008-188C banjo bolt on top.

FITS DPA injector lines



INJECTOR CAP NUT

OEM REF —

Smaller injector cap nut; the 7008-188F banjo bolt screws into the top.

FITS DPA injector lines



INJECTOR CAP NUT & BANJO BOLT (PERKINS)

OEM REF —

Tall hex leak-off cap nut with matching banjo bolt for the injector leak-off pipe.

FITS Perkins engines · CAV injectors



INJECTOR CAP NUT & BANJO BOLT (FORD)

OEM REF —

Stepped hex leak-off cap nut with matching banjo bolt for the injector leak-off pipe.

FITS Ford tractors · CAV injectors



INJECTOR CAP NUT & BANJO BOLT (HINO)

OEM REF —

Model 1

Zinc-plated hex leak-off cap nut with flanged banjo bolt.

FITS Hino diesel engines



INJECTOR CAP NUT & BANJO BOLT (HINO)

OEM REF —

Model 2

Zinc-plated hex leak-off cap nut with flanged banjo bolt, second Hino model.

FITS Hino diesel engines



INJECTOR CAP NUT & BOLT (BELARUS)

OEM REF —

Black stepped cap nut with hex top and matching hex bolt for the injector.

FITS Belarus tractors (MTZ)

SECTION P

INJECTORS

The injector holds the nozzle in the cylinder head and delivers high-pressure fuel from the pump at exactly the right moment. A spring inside the holder sets the opening pressure, giving each cylinder a precise, repeatable spray. Quote the tractor model and injector number when ordering.



MF / PERKINS 3-CYL

Complete injector · nozzle 6602, 6554, 6372, 6556, P760



MF / PERKINS 3-CYL

Injector parts · nozzle 6602 commonly



MF 385 · 4-CYL

Injector · nozzle 1022 / 1027 (new)



MF 260 · 3-CYL

Injector · nozzle 6801029



FIAT · 3 & 4-CYL

Injector · nozzle 1001 / 1000 / 6655

Every injector is supplied with its nozzle set to the correct opening pressure. Other compatible nozzles can also be fitted. Spacers, seats, springs and caps are listed by tractor below.



INTERMEDIATE DISC / SPACER (L-TYPE)

OEM REF **7169-408**

L-type injector spacer / adaptor plate that keeps nozzle and holder aligned. Perkins 4.236, 6.354, Phase 4; Ford, JCB.



ADAPTOR PLATE

OEM REF **7135-487**

Adaptor plate (spacer) with pressure pin, for Volvo EUI unit injectors (D12). Alt 7135-486.



ADAPTOR PLATE ASSEMBLY

OEM REF **7169-667**

Injector spacer plate, 14.3 mm bore, 3.5 mm thick. Perkins, JCB, Manitou, Linde, Deutz.

INJECTOR	NOZZLE FITTED	APPLICATION
BKBL67S5151	BDLL150S6602 · 6554 · 6372 · 6556 · 6705 · P760	MF / Perkins 3 & 4-cyl (MF 135, 240, 375)
6701503	6801029 (alt 6701415)	MF 260
LRB6701426GK	6801022 · 6801027 (new)	MF 385
Stanadyne	SDSLA150P46149	MF 260 (Stanadyne pump)
Stanadyne	SDSLA148P46147	MF 385 (Stanadyne pump)
KBEL83S35	BDLLA124S1001 · BDLLA136S1000 · BDLL140S6655	Fiat 480 / Fiat 640
BKBL97S5153	BDLL160S6703	Bedford truck

INJECTOR PARTS BY TRACTOR

TRACTOR	INJECTOR	NOZZLE	SPACER	SEAT	SPRING	NOZZLE CAP	INJECTOR CAP
MF 240 (new model)	BKBL67S5151	BDLL150S6602	—	—	—	Cup V600	V902
MF 260	6701503 / 6701415	6801029	MF260 1029	MF 1024	MF 1020	Cup V400	—
MF 385	LRB6701426GK	6801022 / 6801027 (new)	MF260 1029	MF 1024	MF 1020	Cup V400	—
MF 260 / 385 (Stanadyne)	Stanadyne	SDSLA150P46149 (MF 260) / SDSL148P46147 (MF 385)	46147 STN	4615 STN	4614 STN	Cup V900	—
Fiat 480 / 640	KBEL83S35	BDLLA124S1001 (480) / BDLLA136S1000 · BDLL140S6655 (640)	1002	1000	1001	Cup V700	—
Bedford	BKBL97S5153	BDLL160S6703	—	—	—	Cup V600	V902

OVERHAUL KITS

Complete kits and individual seals for leak repair and rebuilds.



OVERHAUL KIT

OEM REF **7135-110**

9059-041A · 7135-111

Complete reseal kit for a DPA pump overhaul.

- **Gaskets:** control (top) cover, flange (mounting) and inlet connection gaskets
- **Seals:** drive shaft oil seals, body O-rings and control cover seals
- **Washers:** copper and aluminium sealing washers, tab locking and serrated lock washers
- **Others:** blanking caps and locking wire.

FITS DPA pumps: MF, Ford, Perkins and more



OVERHAUL KIT

OEM REF **7135-112**

Complete reseal kit for a DPA pump overhaul.

- **Gaskets:** flange (mounting), cork inspection-cover, control cover and inlet gaskets
- **Seals:** drive shaft oil seals, body O-rings and sealing rings
- **Washers:** copper and aluminium sealing washers, tab locking and serrated lock washers
- **Others:** filter discs, blanking caps, nuts and locking wire.

FITS DPA pumps: Fiat and Perkins

OVERHAUL KITS, SEALS & O-RINGS



OVERHAUL KIT, MECH. GOVERNOR

OEM REF **Spaco 16448**

Equivalent to 7135-110Y • 7135-70

Spaco overhaul kit for mechanical-governor pumps. Made in Italy.

FITS Mechanical-governor DPA



OVERHAUL KIT, HYDRAULIC GOVERNOR (6-CYL)

OEM REF **7135-114Y**

7135-68

Spaco overhaul kit for DPA hydraulic-governor standard pumps.

FITS 6-cylinder DPA pumps

CROSS-REF Spaco 16576



OVERHAUL KIT, VE ROTARY PUMP

OEM REF **Spaco 09365**

Spaco overhaul kit for Bosch VE (FP/VE..F) type rotary pumps: O-rings, seals, copper washers and caps. Made in Italy.

FITS Bosch VE rotary pumps



RING SEAL

OEM REF **7139-043**

Liner ring • End plate ring

Rubber ring seal for the transfer pump liner and end plate. Renew it whenever the end plate is removed.

FITS DPA pumps



DRIVE SHAFT OIL SEAL

OEM REF **5393-252U**

Lip seal on the drive shaft, keeping engine oil and fuel apart.

FITS DPA pumps

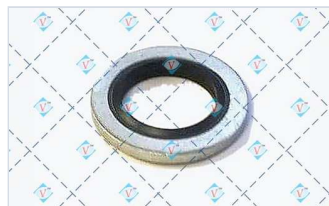


DRIVE SHAFT OIL SEAL

OEM REF **5393-252R**

Lip seal on the drive shaft, alternative lip pattern. Match the old seal.

FITS DPA pumps



BONDED WASHER

OEM REF **7022-180D**

Bonded seal washer: steel ring with vulcanised rubber sealing lip.

FITS DPA pumps



SEALING RING

OEM REF **7185-950HD**

5855-30HD • 7123-16

Large body O-ring (thick section).

FITS DPA pumps



SEALING RING

OEM REF **7185-950BC**

5855-30BC

Large thin-section body O-ring.

FITS DPA pumps



TOP COVER SEAL

OEM REF **7185-794**

Seal under the top (control) cover of the DP200 pump.

FITS Delphi DP200 pumps



PUMP O-RING 6-CYL

OEM REF **242**

Large pump body O-ring for 6-cylinder DPA pumps (pair shown).

FITS 6-cylinder DPA pumps



RUBBER WASHER

OEM REF —

Black rubber sealing washers.

FITS DPA pumps



RETARD DEVICE OIL SEAL

OEM REF **5950-34C**

Rubber oil seal for the manual timing retard device of the CAV DPA pump.

FITS Lucas CAV / Delphi DPA pumps



OIL SEAL

OEM REF **5950-35C**

Rubber oil seal with stepped lip, larger size.

FITS Lucas CAV / Delphi DPA pumps



NIPPLE RUBBER

OEM REF —

Black rubber sleeve for pipe nipples.

FITS DPA pumps



NIPPLE RUBBER (SMALL)

OEM REF —

Small black rubber sealing ring for pipe nipples.

FITS DPA pumps

PUMP GASKETS



DELPHI OVERHAUL KIT

OEM REF **7135-110**

9059-041A • 7135-111

All gaskets, seals, O-rings and washers to rebuild a DPA pump.

FITS DPA pumps: MF, Ford, Fiat, Perkins and more



DELPHI OVERHAUL KIT

OEM REF **7135-112**

All gaskets, seals, O-rings and washers to rebuild a DPA pump.

FITS DPA pumps



GASKET & SEAL SET

OEM REF **7135-110 / 112**

Mounting and cover gaskets, oil seal, O-rings and washers.

FITS DPA pumps



RUBBER COVER PLATE GASKET

OEM REF **9045-137A**

Rubber gasket for the cover plate.

FITS DPA pumps



PUMP TOP COVER GASKET

OEM REF **7180-451**

7180-521F • 7123-287

Gasket under the pump top (control) cover.

FITS DPA pumps



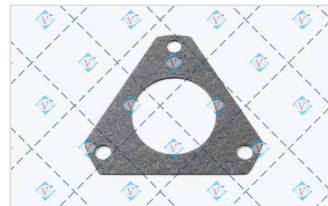
HOUSING GASKET

OEM REF **7123-937**

7180-450 • 7180-521B

Housing gasket.

FITS DPA pumps



FLANGE GASKET

OEM REF **7180-455**

Flange gasket for the pump mounting flange.

FITS DPA pumps



FLANGE GASKET

OEM REF **7180-455**

Flange gasket for the pump mounting flange, slotted-hole pattern.

FITS DPA pumps



HOUSING GASKET

OEM REF **7023-398**

Fibre housing gasket with two large ports and four bolt holes.

FITS DPA pumps



CORK SIDE COVER GASKET

OEM REF **7123-515**

7123-515A • 7123-515C

Cork gasket for the pump side cover.

FITS DPA pumps



SLEEVE GASKET

OEM REF —

Green fibre sleeve gasket (sealing ring).

FITS DPA pumps



FLANGE GASKET

OEM REF —

Two-hole flange gasket for the 7135-78D hydraulic-governor control cover.

FITS DPA hydraulic governor • Bedford



GOVERNOR COVER GASKET

OEM REF **22774-54270**

Moulded rubber gasket for the governor cover of the VE pump.

FITS Toyota 2L, 2LT, 3L & 1KZ engines



CORK PUMP GASKET

OEM REF **4600633**

CNH 4600633

Cork gasket with six bolt holes for the injection pump mounting.

FITS Case / New Holland (CNH) tractors



CORK PUMP GASKET

OEM REF **83959395**

A91172

Cork fuel injection pump gasket with seven bolt holes.

FITS Ford / New Holland tractors



WATER PUMP SEAL

OEM REF **1446130M1**

825374M1

Mechanical water pump seal with spring, rubber O-rings and ceramic-faced seat.

FITS Massey Ferguson water pumps

SECTION R

WASHERS

Hardware for reassembly. Always renew locking washers.



0 SIZE NOZZLE WASHER (SILVER)

OEM REF —

Conical 0-size nozzle sealing washer, silver finish.

FITS Injector nozzles



0 SIZE NOZZLE WASHER (COPPER)

OEM REF —

Conical 0-size copper nozzle sealing washer.

FITS Injector nozzles



8 MM WASHER (SILVER)

OEM REF —

8 mm flat sealing washer, silver finish.

FITS DPA pumps and injectors



8 MM WASHER (COPPER)

OEM REF —

8 mm flat copper sealing washer.

FITS DPA pumps and injectors



JACK PIPE WASHER

OEM REF —

Flat jack pipe sealing washer, silver finish.

FITS Tractor nozzles: Massey Ferguson, Fiat, New Holland, Perkins



NOZZLE HEAD WASHER (COPPER)

OEM REF —

Flat copper nozzle head sealing washer.

FITS Tractor nozzles: Massey Ferguson, Fiat, New Holland, Perkins



JACK WASHER (SILVER)

OEM REF —

Conical jack washer, silver finish.

FITS Injectors



DELIVERY VALVE WASHER (COPPER)

OEM REF —

Flat copper delivery valve sealing washer.

FITS Injection pump delivery valves



BRASS WASHER 1.C

OEM REF —

Brass sealing washer, size 1.C.

FITS Toyota



BRASS WASHER 2.C

OEM REF —

Brass sealing washer, size 2.C.

FITS Toyota



FIBRE WASHER

OEM REF 5339-970

Fibre sealing washer. Size: 9.5 x 5 x 2 mm.

FITS DPA pumps



STEEL WASHER

OEM REF 5936-332C

Steel sealing washer.

FITS DPA pumps



LOCKING WASHER

OEM REF 7123-600

Tab locking washer.

FITS DPA pumps



LOCKING TAB WASHER

OEM REF 7167-331

7139-701 · 7123-525 · 9003-393

Locking tab washer with bend-up tabs to secure the screw.

FITS DPA pumps



LOCKING WASHER

OEM REF NP1-5

9045-274 · 9080-84 · NP1-6

Serrated lock washer.

FITS DPA pumps



WIRE & LOCK

OEM REF —

Twisted sealing wire with two lock seals, used to seal the pump adjusting screws.

FITS DPA pumps

SECTION S

BEDFORD DPA PARTS

Parts for the hydraulic-governor DPA pump used on Bedford 6-cylinder engines.



CONTROL COVER ASSY

OEM REF **7135-78D**

Spaco 01467

Hydraulic-governor top control cover; the throttle and stop shafts work through it.

FITS DPA hydraulic governor · Bedford, Perkins, BMC, Leyland



DRIVE HUB

OEM REF —

Drive hub with steel bearing band and cross-drilled clamp hole, supplied with its clamp bolt and nut.

FITS Bedford 6-cylinder



METERING VALVE

OEM REF **7123-299P**

Metering valve for the hydraulic-governor DPA pump.

FITS DPA hydraulic governor · Bedford



METERING VALVE

OEM REF **7123-299A**

Metering valve for the hydraulic-governor DPA pump.

FITS DPA hydraulic governor · Bedford



METERING VALVE

OEM REF **7123-299S**

Metering valve, S pattern (marked S), for the hydraulic-governor DPA pump.

FITS DPA hydraulic governor · Bedford



ACCELERATOR BODY PISTON

OEM REF —

Slotted square piston for the accelerator (throttle) body of the hydraulic governor.

FITS DPA hydraulic governor · Bedford



PISTON (ROUND)

OEM REF —

Round piston for the hydraulic governor.

FITS DPA hydraulic governor · Bedford



DRIVE HUB (BMC)

OEM REF **6249240**

Splined drive hub with tapped clamp hole. Part number 6249240 stamped on the hub face (shown in the close-up).

FITS BMC diesel · DPA pumps



GUIDE DOG

OEM REF **7139-19S**

Forked guide dog for the hydraulic-governor linkage.

FITS DPA hydraulic governor · Bedford



TORSION BAR

OEM REF **7139-21S**

Torsion bar with toothed adjuster for the hydraulic governor.

FITS Lucas CAV DPA hydraulic governor · Bedford



ACCELERATOR LEVER

OEM REF —

Throttle (accelerator) lever; the ring of vernier holes sets the lever angle on the throttle shaft.

FITS DPA hydraulic governor · Bedford



STOP LEVER

OEM REF —

Stop / shut-off lever bracket; pulling it closes the fuel and stops the engine.

FITS DPA hydraulic governor · Bedford



THROTTLE SHAFT KIT

OEM REF **7123-660R**

7139-574B · 7180-23

Throttle shaft kit for hydraulically governed DPA pumps: shaft with lever and vernier plate.

FITS DPA hydraulic governor · Perkins, BMC 1.5 / 1.8, Leyland, Ford



VERNIER PLATE

OEM REF **7139-75A**

Vernier plate that sets the throttle lever position on the throttle shaft.

FITS CAV DPA hydraulic governor



BODY WASHER

OEM REF —

Black rubber body sealing washer.

FITS DPA hydraulic governor · Bedford



DRIVE SHAFT SEAL

OEM REF —

Black rubber drive shaft seal washers.

FITS DPA hydraulic governor · Bedford



SECTION T

FUEL LIFT PUMPS

Mechanical diaphragm lift (feed) pumps that draw diesel from the tank and push it through the filters to the injection pump. Driven by the engine camshaft through the rocker arm.



FUEL LIFT PUMP (4-BOLT, TWIN PORT)

OEM REF —

Square 4-bolt flange lift pump with priming lever and two side-by-side ports.

- **Flange:** 4-bolt square mounting flange
- **Priming:** hand priming lever for bleeding air after a filter change
- **Ports:** twin inlet / outlet ports, supplied with red caps
- **Drive:** roller-tipped rocker arm on the camshaft

FITS Perkins 3-cylinder (AD3.152) · Massey Ferguson 135, 150, 240



FUEL LIFT PUMP (4-BOLT, ROUND DOME)

OEM REF —

Lucas / Delphi pattern lift pump with round pressed-steel dome cover and hand primer.

- **Flange:** 4-bolt square mounting flange
- **Priming:** hand priming lever
- **Ports:** inlet and outlet on opposite sides, marked with flow arrows
- **Build:** diaphragm and check valves under a round dome cover

FITS Perkins 4.236 / 1004 series · JCB 3CX · tractors and backhoes



FUEL LIFT PUMP (2-BOLT)

OEM REF **504090936**

Compact 2-bolt lift pump with round cover and lever arm.

- **Flange:** 2-bolt oval mounting flange
- **Priming:** external lever
- **Ports:** angled inlet and outlet with transit caps
- **Build:** six-screw diaphragm body with sealing gasket

FITS New Holland TK80A, TN95FA · Fiat · Case



FUEL LIFT PUMP (BEDFORD)

OEM REF —

Heavy-duty lift pump with domed steel cover and triangular 2-bolt flange.

- **Flange:** triangular 2-bolt mounting flange
- **Drive:** double-leaf rocker arm
- **Ports:** threaded outlet with transit cap
- **Build:** domed steel diaphragm cover held by a centre bolt

FITS Bedford 6-cylinder diesel engines

SECTION U

FLAG REPAIR & SEAL KITS

Flag fuel injection parts, made in Germany. Ask us on WhatsApp for the full range and availability.



FLAG VE PUMP REPAIR KIT

OEM REF **80 0636**

EP/VE · 20 × 30 × 7 · Zexel-VE

Gasket, O-ring and washer repair kit for Bosch EP/VE and Zexel VE distributor pumps, with 20 × 30 × 7 mm drive shaft oil seal. Made in Germany.

FITS Bosch EP/VE & Zexel VE distributor pumps



FLAG VE PUMP REPAIR KIT

OEM REF **80 0636**

EP/VE · 20 × 30 × 7 · Zexel-VE

Gasket, O-ring and washer repair kit for Bosch EP/VE and Zexel VE distributor pumps, with 20 × 30 × 7 mm drive shaft oil seal. Made in Germany.

FITS Bosch EP/VE & Zexel VE distributor pumps



FLAG VE PUMP REPAIR KIT

OEM REF **80 0637**

EP/VE · 20 × 31 × 7 · Zexel-VE

Gasket, O-ring and washer repair kit for Bosch EP/VE and Zexel VE distributor pumps, with 20 × 31 × 7 mm drive shaft oil seal. Made in Germany.

FITS Bosch EP/VE & Zexel VE distributor pumps



FLAG VE PUMP REPAIR KIT

OEM REF **80 0647**

EP/VE · 17 × 28 × 7 · Zexel-VE

Gasket, O-ring and washer repair kit for Bosch EP/VE and Zexel VE distributor pumps, with 17 × 28 × 7 mm drive shaft oil seal. Made in Germany.

FITS Bosch EP/VE & Zexel VE distributor pumps



FLAG FEED PUMP REPAIR KIT

OEM REF **80 0049**

FP/K · A + P

Repair kit for the FP/K feed (lift) pump used on A and P in-line pumps: gaskets, copper washers, seals and banjo fittings. Made in Germany.

FITS Bosch A & P in-line pumps (FP/K feed pump)



FLAG FEED PUMP VALVE KIT

OEM REF **80 0046**

Feed pump valve kit: 2 valves, 2 springs and 2 copper sealing washers. Made in Germany.

FITS In-line pump feed (lift) pumps

CROSS-REF Bosch 2 447 010 011



FLAG STANADYNE SEAL KIT

OEM REF **80 0999**

Stanadyne

Complete seal kit (O-rings, gasket, seals and washers) for Roosa Master / Stanadyne rotary injection pumps. Made in Germany.

FITS Roosa Master / Stanadyne DB, JDB & DC pumps

CROSS-REF Stanadyne 24371

SECTION V

BOSCH & VE PUMP PARTS

Bosch fuel injection parts. Ask us on WhatsApp for the full range and availability.



DIESEL FUEL FEED / VANE ASSEMBLY

OEM REF **1 467 030 308**

Rotary fuel transfer (feed) pump plate with rotor and vanes, fitted inside the injection pump.

FITS Bosch VE pumps · Mitsubishi L200, Chevrolet S10, Ford Ranger, D20

CROSS-REF Zexel 096140-0030



CROSS DISC

OEM REF **1 460 140 334**

Cross (coupling) disc that links the drive shaft to the cam plate inside the pump.

FITS Bosch VE distributor pumps (VE3, VE4, VE6)



OVERFLOW VALVE

OEM REF **131424-1520**

Marked A15

Overflow (return) valve banjo bolt with copper sealing washer for the fuel return line.

FITS Bosch / Zexel VE distributor pumps



CROSS DISC

OEM REF **146205-0000**

Cross (coupling) disc between the drive shaft and the cam plate.

FITS Zexel / Bosch VE distributor pumps



OVERFLOW VALVE

OEM REF **2 467 413 025**

Brass overflow valve with threaded ends on both sides for the fuel return line.

FITS Bosch fuel injection pumps



HOLLOW BOLT

OEM REF **1 463 456 344**

Hollow (banjo) bolt for fuel line connections, with hex head and threaded hollow shank.

FITS Bosch fuel injection pumps



BOLT

OEM REF **1 423 452 000**

Hex-head shoulder bolt with plain pin end and blue thread-lock patch on the threads.

FITS Bosch fuel injection pumps



TP BLADE KIT

OEM REF **—**

Set of 4

Feed (transfer) pump vane blades, set of four.

FITS Toyota diesel (VE-type pumps)



HAND PRIMER PUMP (STEEL)

OEM REF **2447222000**

2447222099 · 152200-1120 · febi 38095

Diesel fuel hand primer (feed) pump. Spring-loaded plunger: press and release to draw fuel and bleed air from the system...

FITS Diesel injection pumps on tractors and commercial vehicles: Mercedes-Benz, Fiat, Renault



HAND PRIMER PUMP (SILVER)

OEM REF **FA87017A**

Universal diesel hand primer pump with knurled grip and nylon base. Used to pump fuel by hand and remove air bubbles from...

FITS Trucks, machinery and industrial engines: Mitsubishi, Isuzu, Komatsu, Hino



HAND PRIMER PUMP (BLACK)

OEM REF **2447010038**

2447010033

Diesel hand primer pump with black rubber cover, aluminium hex body and copper sealing washer. Used to pump fuel by hand...

FITS Bosch fuel filter housings · diesel engines



PISTON (VE PUMP)

OEM REF **—**

Hardened steel pistons for Bosch and Zexel VE distributor pumps, precision ground for a close fit in the pump body.

FITS Bosch / Zexel VE distributor pumps



PRESSURE PIPE CONNECTOR (INJECTOR)

OEM REF **—**

Injector pressure pipe connector with central hex and threaded ends.

FITS Diesel injectors · Bosch type



PRESSURE PIPE CONNECTOR (INJECTOR)

OEM REF **—**

Injector pressure pipe connector with central hex, long shoulder and threaded ends.

FITS Diesel injectors · Bosch type



PRESSURE GAUGE (TESTER GAUGE)

OEM REF **—**

0-400 bar / 0-6000 psi

Stainless steel dual-scale pressure gauge for nozzle testers, reading bar and psi. Bottom connection.

FITS Nozzle testers · injector test benches



PRESSURE GAUGE (OIL FILLED)

OEM REF **—**

0-400 bar / 0-6000 psi

Black-case, oil-filled dual-scale pressure gauge for nozzle testers. The oil damps needle vibration for a steady reading. Bras...

FITS Nozzle testers · injector test benches

VE PUMP DRIVE SHAFTS

Drive shafts for Bosch and Zexel VE distributor pumps. We produce these shafts ourselves, machined to the original dimensions with a threaded drive end, flanged hub and forked drive dogs.



INTERCHANGEABLE PART NUMBERS

BOSCH

1 466 100 305	1 466 100 325
1 466 100 391	1 466 100 395
1 466 100 401	1 466 100 405

ZEXEL

096120-0070	096121-0070
096121-0090	096121-0110
096121-0111	146200-0000
146200-0300	146200-1900

OTHER

D401

APPLICATIONS

PART NUMBER	APPLICATION
1 466 100 395	Nissan diesel engines (VE pump)
096121-0070	Nissan Almera (VE pump)
146200-0300	Mitsubishi diesel • 20 mm shaft
All numbers	Bosch / Zexel VE distributor pumps • ask us to confirm your engine

More part numbers we produce will be added. Send us the number on your old shaft on WhatsApp to confirm the match.

NOZZLE TESTERS

Hand-operated nozzle testers for checking injectors on the bench. Set the opening pressure, check the spray and find leaks before the injector goes back on the engine.



WORKSHOP TESTER

NOZZLE TESTER • HEAVY DUTY

Heavy-duty nozzle tester for busy fuel injection workshops. The large steel reservoir holds plenty of test oil, so you can test injector after injector without refilling. The big 6-inch dial reads clearly from a distance, and the handwheel valve isolates the gauge so it is protected during fast chatter tests. Its solid flanged base keeps the tester steady when the lever is worked hard. Supplied with a high-pressure test pipe set.

GAUGE	Large dial, 0–400 bar / 0–6000 psi
VALVE	Handwheel shut-off to the gauge
RESERVOIR	Large-capacity steel tank
OPERATION	Hand lever on a pivot base
SUPPLIED WITH	High-pressure test pipe set
MOUNTING	Round flanged bench base



BENCH TESTER

NOZZLE TESTER • SILVER

Compact hand-lever nozzle tester with a light alloy body that resists rust. The clear dual-scale gauge shows bar and psi, the knurled-cap tank is easy to fill, and the shut-off valve protects the gauge. Ideal for checking opening pressure and spray on tractor and car injectors. Supplied with a high-pressure test pipe set.

GAUGE	0–400 bar / 0–6000 psi, dual scale
OPERATION	Hand lever with shut-off valve to the gauge
FUEL TANK	Built-in tank with screw cap
SUPPLIED WITH	High-pressure test pipe set
MOUNTING	Four-hole bench base



BENCH TESTER WITH ACCESSORIES

NOZZLE TESTER • BLACK

Strong cast-iron nozzle tester with a black enamel finish for long life in the workshop. The dual-scale gauge and shut-off valve make setting opening pressure quick and accurate. Comes complete with a high-pressure test pipe set and a steel operating lever, ready to use.

GAUGE	Dual-scale pressure gauge
OPERATION	Hand lever with shut-off valve to the gauge
SUPPLIED WITH	Test pipes and operating lever
MOUNTING	Four-hole bench base

WHAT YOU CAN CHECK

OPENING PRESSURE

Read the pressure at which the needle lifts and set it to the engine maker's figure.

SPRAY PATTERN

Check that every hole sprays a fine, even mist with no streaks.

LEAKS & DRIBBLE

Hold pressure just below opening and make sure the tip stays dry.

CHATTER

A sharp chatter on quick strokes shows the needle is moving freely.



VICKY BROTHERS · LAHORE

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*Send the part number or a clear photo of the old part on WhatsApp. We confirm the right part, price and stock before dispatch.



VICKY BROTHERS

Diesel Fuel Injection Parts



VICKY BROTHERS

88-AL Mubarak Market, Badami Bagh, Lahore

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Thank you!

Thank you for choosing Vicky Brothers. We look forward to supplying the right part for every pump, across Pakistan and the Middle East.

