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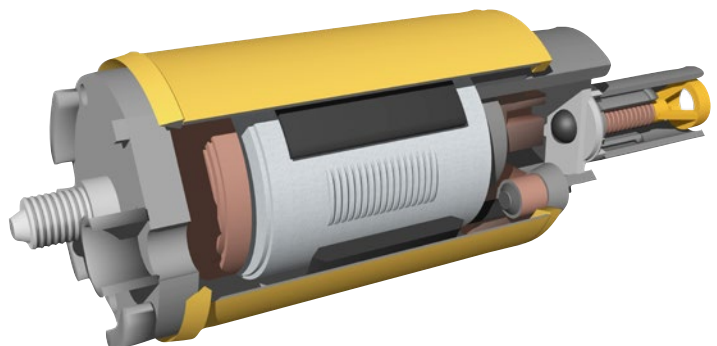
BRIEF INFORMATION

Fuel Feed Unit and component parts

- High quality standards
- Fits to a large scale of applications
- Designed to be easily mounted

FURTHER PRODUCT FEATURES AND FUNCTIONS

- The fuel pump is an integral part of the fuel delivery system of a vehicle
- Supplies the fuel from the fuel tank to the engine
- It is located inside the fuel tank or under the chassis, depending on the application
- Performance: operates at higher speeds and draws less current than older style pumps
- Advantage: each fuel feed unit comes together with the gasket



HELLA GLOSSARY

FULL ASSEMBLY



Fuel Feed Unit

When it comes to fuel pumps and feed modules, customers expect goods of the highest quality. With HELLA, workshops can rest assured that they will meet even the most discerning demands of their customers.



Sender Unit, Fuel tank

The three most important parts of the fuel supply unit are the fuel pump itself, the fuel filter and the flange with its appropriate connections. The supply unit often has a lever sensor or it operates in conjunction with an immersion tube sensor. The unit can be fitted with a swirl pot.



Swirl pot, fuel pump

In order to always ensure an optimum fuel supply, even on bends or on uneven roads, HELLA's fuel tanks are equipped with a swirl pot. Thanks to its opening at the bottom, this cup-shaped tank ensures an uninterrupted flow of fuel.

SUB-COMPONENTS



Fuel pump

An engine is only as reliable as the fuel pump that supplies it with gas. The HELLA fuel pump is part of the fuel supply unit which operates in the tank. It ensures an absolutely reliable fuel supply at all times – and this is the case in a great number of widely differing vehicle makes and models.

TECHNICAL DETAILS

Technical Data	
Operating voltage	12 V
Current I [A]	Between 5 A and 9 A
Delivery quantities (flow rate) Q [l / h]	Between 60 and 250 l / h
Fuel-system pressures P (bar or kPa)	Between 3 to 5 bars (300 to 500 kPa)

GENERAL INFORMATION

What are the most common causes of fuel pump failures?

One of the top causes for fuel pump failure is contamination. This can be caused by dirt and debris entering the system from re-fueling or the use of poor quality fuel. Fuel pump overheating and wear can also cause failure.

Driving frequently on a low fuel tank can accelerate wear on the fuel pump due to debris on the bottom of the fuel tank being disturbed and entering the pump. It is interesting to note that over half of all fuel pump replacements are the result of misdiagnosis.

The complexity of modern vehicles leads to several systems that can disable the vehicle's fuel pump. Systems that one would not normally associate with the fuel system now have the ability to render the fuel pump inactive (e.g. security, drive train, oil / fuel pressure switches, etc.), which can result in a misdiagnosis.

Vehicle symptoms that indicate the fuel pump may need to be replaced?

- Difficult or non-starting
- Extended cranking
- Immediate or intermittent stalling
- Rough idle
- Poor acceleration
- Severe engine lag

RANGE OVERVIEW*

Manufacturer	Product Description	Part Number
ABARTH	Fuel Feed Unit	8TF 358 146-271
		8TF 358 106-001
ALFA ROMEO	Fuel Feed Unit	8TF 358 146-261
		8TF 358 146-271
		8TF 358 305-051
		8TF 358 305-241
		8TF 358 146-201
	Fuel Pump	8TF 358 146-771
		8TF 358 106-041
		8TF 358 106-051
		8TF 358 106-101
		8TF 358 106-191
AUDI	Fuel Feed Unit	8TF 358 106-211
		8TF 358 106-261
		8TF 358 106-351
		8TF 358 106-391
		8TF 358 106-441
		8TF 358 106-451
		8TF 358 146-631
		8TF 358 146-801
		8TF 358 146-811
		8TF 358 303-141
		8TF 358 303-881
		8TF 358 304-911
		8TF 358 305-431
		8TF 358 305-441
		8TF 358 306-971

Manufacturer	Product Description	Part Number
AUDI	Fuel Pump	8TF 358 106-141
		8TF 358 146-191
		8TF 358 146-381
		8TF 358 302-861
		8TF 358 106-281
	Swirl Pot, fuel pump	8TF 358 106-421
		8TF 358 306-371
		8TF 358 106-031
		8TF 358 106-241
		8TF 358 146-441
BMW	Fuel Feed Unit	8TF 358 146-451
		8TF 358 146-461
		8TF 358 146-761
		8TF 358 146-821
		8TF 358 300-701
		8TF 358 302-891
		8TF 358 302-901
		8TF 358 302-911
		8TF 358 302-921
		8TF 358 302-931
	Fuel Pump	8TF 358 303-921
		8TF 358 304-951
		8TF 358 106-591
		8TF 358 106-651
		8TF 358 146-181

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RANGE OVERVIEW*

Manufacturer	Product Description	Part Number
BMW	Fuel Pump	8TF 358 306-391
	Sender Unit, fuel tank	8TF 358 306-651
	Swirl Pot, fuel pump	8TF 358 306-451
CHEVROLET	Fuel Feed Unit	8TF 358 106-731
		8TF 358 302-961
		8TF 358 304-141
		8TF 358 305-211
		8TF 358 306-531
	Fuel Pump	8TF 358 306-541
		8TF 358 106-761
		8TF 358 106-771
		8TF 358 146-201
		8TF 358 146-301
CITROEN	Fuel Feed Unit	8TF 358 106-021
		8TF 358 106-111
		8TF 358 106-151
		8TF 358 106-171
		8TF 358 106-181
		8TF 358 106-251
		8TF 358 106-901
		8TF 358 106-911
		8TF 358 106-941
		8TF 358 146-221
	Fuel Feed Unit	8TF 358 146-231
		8TF 358 146-401
		8TF 358 146-411
		8TF 358 146-491
		8TF 358 146-531
		8TF 358 146-541
		8TF 358 146-551
		8TF 358 146-891
		8TF 358 146-931
		8TF 358 146-941
	Fuel Pump	8TF 358 302-941
		8TF 358 303-111
		8TF 358 304-981
		8TF 358 305-021
		8TF 358 305-121
		8TF 358 305-301
		8TF 358 305-331
		8TF 358 305-361
		8TF 358 306-501
		8TF 358 306-511
DACIA	Fuel Feed Unit	8TF 358 106-531
		8TF 358 146-201
		8TF 358 146-521
		8TF 358 304-021
		8TF 358 106-471
	Fuel Feed Unit	8TF 358 106-481
		8TF 358 106-491
		8TF 358 106-611
		8TF 358 106-671
		8TF 358 303-011
DAEWOO	Fuel Feed Unit	8TF 358 303-831
		8TF 358 303-891
		8TF 358 305-251
		8TF 358 305-271
		8TF 358 106-731
DAIHATSU	Fuel Feed Unit	8TF 358 302-961
		8TF 358 306-291
		8TF 358 306-531
DODGE	Fuel Pump	8TF 358 106-771
		8TF 358 146-201
		8TF 358 106-001
FERRARI	Fuel Feed Unit	8TF 358 106-011
		8TF 358 106-161
		8TF 358 106-301
		8TF 358 146-221
		8TF 358 146-231
		8TF 358 146-251
		8TF 358 146-261
		8TF 358 146-271
		8TF 358 146-281
		8TF 358 146-401
FIAT	Fuel Feed Unit	8TF 358 146-551
		8TF 358 146-581
		8TF 358 146-861
		8TF 358 146-871
		8TF 358 146-881
		8TF 358 146-891
		8TF 358 106-001
		8TF 358 106-011
		8TF 358 106-161
		8TF 358 106-301
FORD	Fuel Feed Unit	8TF 358 146-221
		8TF 358 146-231
		8TF 358 146-401
		8TF 358 146-411
		8TF 358 146-491
		8TF 358 146-531
		8TF 358 146-541
		8TF 358 146-551
		8TF 358 146-891
		8TF 358 146-931
GM	Fuel Feed Unit	8TF 358 146-941
		8TF 358 302-941
		8TF 358 303-111
		8TF 358 304-981
		8TF 358 305-021
		8TF 358 305-121
		8TF 358 305-301
		8TF 358 305-331
		8TF 358 305-361
		8TF 358 306-501
HONDA	Fuel Pump	8TF 358 306-511
		8TF 358 106-531
		8TF 358 146-201
		8TF 358 146-521
		8TF 358 304-021
		8TF 358 106-471
		8TF 358 106-481
		8TF 358 106-491
		8TF 358 106-611
		8TF 358 106-671
HYUNDAI	Fuel Feed Unit	8TF 358 303-011
		8TF 358 303-831
		8TF 358 303-891
		8TF 358 305-251
		8TF 358 305-271
		8TF 358 106-731
		8TF 358 302-961
		8TF 358 306-291
		8TF 358 306-531
		8TF 358 106-771
ISUZU	Fuel Pump	8TF 358 146-201
		8TF 358 106-001
		8TF 358 106-011
		8TF 358 106-161
		8TF 358 106-301
		8TF 358 146-221
		8TF 358 146-231
		8TF 358 146-251
		8TF 358 146-261
		8TF 358 146-271
IVECO	Fuel Feed Unit	8TF 358 146-281
		8TF 358 146-401
		8TF 358 146-551
		8TF 358 146-581
		8TF 358 146-861
		8TF 358 146-871
		8TF 358 146-881
		8TF 358 146-891
		8TF 358 106-001
		8TF 358 106-011
JAGUAR	Fuel Pump	8TF 358 106-161
		8TF 358 106-301
		8TF 358 146-221
		8TF 358 146-231
		8TF 358 146-251
		8TF 358 146-261
		8TF 358 146-271
		8TF 358 146-281
		8TF 358 146-401
		8TF 358 146-551
KIA	Fuel Feed Unit	8TF 358 146-581
		8TF 358 146-861
		8TF 358 146-871
		8TF 358 146-881
		8TF 358 146-891
		8TF 358 106-001
		8TF 358 106-011
		8TF 358 106-161
		8TF 358 106-301
		8TF 358 146-221
LANCIA	Fuel Feed Unit	8TF 358 146-231
		8TF 358 146-251
		8TF 358 146-261
		8TF 358 146-271
		8TF 358 146-281
		8TF 358 146-401
		8TF 358 146-551
		8TF 358 146-581
		8TF 358 146-861
		8TF 358 146-871

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RANGE OVERVIEW*

Manufacturer	Product Description	Part Number	Manufacturer	Product Description	Part Number
LAND ROVER	Fuel Feed Unit	8TF 358 303-941	OPEL	Fuel Feed Unit	8TF 358 106-991
		8TF 358 306-281			8TF 358 146-901
		8TF 358 306-441			8TF 358 146-911
		8TF 358 306-661			8TF 358 304-041
		8TF 358 306-681			8TF 358 304-051
		8TF 358 306-691			8TF 358 304-141
		8TF 358 306-741			8TF 358 305-181
		8TF 358 306-751			8TF 358 305-211
		8TF 358 306-761			8TF 358 305-221
		8TF 358 146-181			8TF 358 305-231
		8TF 358 146-201			8TF 358 305-281
		8TF 358 304-071			8TF 358 306-861
MAZDA	Fuel Feed Unit	8TF 358 106-081	OPEL	Fuel Pump	8TF 358 306-931
		8TF 358 146-111			8TF 358 306-941
		8TF 358 303-211			8TF 358 106-561
		8TF 358 305-751			8TF 358 106-571
		8TF 358 305-801			8TF 358 106-641
		8TF 358 306-891			8TF 358 106-771
		8TF 358 106-761			8TF 358 106-781
		8TF 358 146-381			8TF 358 146-181
		8TF 358 146-771			8TF 358 302-991
		8TF 358 106-331			8TF 358 106-021
		8TF 358 106-341			8TF 358 106-111
		8TF 358 146-001			8TF 358 106-151
MERCEDES	Fuel Feed Unit	8TF 358 146-011	PEUGEOT	Fuel Feed Unit	8TF 358 106-171
		8TF 358 146-021			8TF 358 106-181
		8TF 358 146-031			8TF 358 106-201
		8TF 358 146-041			8TF 358 106-231
		8TF 358 146-051			8TF 358 106-311
		8TF 358 146-061			8TF 358 106-901
		8TF 358 146-081			8TF 358 106-911
		8TF 358 146-091			8TF 358 106-921
		8TF 358 146-101			8TF 358 106-941
		8TF 358 146-361			8TF 358 146-221
		8TF 358 302-981			8TF 358 146-231
		8TF 358 303-851			8TF 358 146-351
MINI	Fuel Pump	8TF 358 303-861	PORSCHE	Fuel Pump	8TF 358 146-401
		8TF 358 303-871			8TF 358 146-411
		8TF 358 303-971			8TF 358 146-491
		8TF 358 304-931			8TF 358 146-531
		8TF 358 304-941			8TF 358 146-541
		8TF 358 306-591			8TF 358 146-551
		8TF 358 306-841			8TF 358 146-891
		8TF 358 146-291			8TF 358 146-921
		8TF 358 146-301			8TF 358 146-931
		8TF 358 146-381			8TF 358 302-941
		8TF 358 146-391			8TF 358 303-091
		8TF 358 302-831			8TF 358 303-111
MITSUBISHI	Sender Unit, fuel tank	8TF 358 303-271	RENAULT	Fuel Feed Unit	8TF 358 304-981
		8TF 358 303-281			8TF 358 305-021
		8TF 358 304-921			8TF 358 305-121
		8TF 358 146-071			8TF 358 305-301
		8TF 358 146-421			8TF 358 305-331
		8TF 358 146-431			8TF 358 305-361
		8TF 358 146-711			8TF 358 306-501
		8TF 358 146-721			8TF 358 306-511
		8TF 358 146-731			8TF 358 306-901
		8TF 358 146-741			8TF 358 106-531
		8TF 358 303-261			8TF 358 146-521
		8TF 358 146-471			8TF 358 303-991
NISSAN	Fuel Feed Unit	8TF 358 146-481	OPEL	Fuel Feed Unit	8TF 358 302-821
		8TF 358 146-821			8TF 358 106-131
		8TF 358 303-961			8TF 358 106-481
		8TF 358 146-591			8TF 358 106-491
		8TF 358 106-761			8TF 358 106-611
		8TF 358 106-091			8TF 358 106-671
		8TF 358 303-951			8TF 358 106-791
		8TF 358 305-281			8TF 358 106-801
		8TF 358 305-831			8TF 358 106-831
		8TF 358 305-851			8TF 358 106-841
		8TF 358 305-881			8TF 358 106-851
		8TF 358 305-891			8TF 358 106-861
OPEL	Fuel Pump	8TF 358 306-621			8TF 358 106-871
		8TF 358 306-641			8TF 358 106-881
		8TF 358 146-771			8TF 358 106-891
		8TF 358 306-411			8TF 358 146-511
		8TF 358 106-821			8TF 358 146-671
		8TF 358 302-991			8TF 358 146-831
		8TF 358 106-721			8TF 358 146-841
		8TF 358 106-951			8TF 358 303-011
		8TF 358 106-961			8TF 358 303-021
		8TF 358 106-971			8TF 358 303-041
		8TF 358 106-981			8TF 358 303-051

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RANGE OVERVIEW*

Manufacturer	Product Description	Part Number	Manufacturer	Product Description	Part Number		
RENAULT	Fuel Feed Unit	8TF 358 303-071	TOYOTA	Fuel Feed Unit	8TF 358 306-011		
		8TF 358 303-081			8TF 358 306-021		
		8TF 358 303-251			8TF 358 306-041		
		8TF 358 303-831			8TF 358 146-621		
		8TF 358 303-841			8TF 358 306-001		
		8TF 358 303-891		8TF 358 106-951			
		8TF 358 304-061		8TF 358 106-961			
		8TF 358 304-941		8TF 358 106-971			
		8TF 358 305-251		8TF 358 106-981			
		8TF 358 305-271		8TF 358 106-991			
		8TF 358 305-281		8TF 358 146-911			
		8TF 358 305-881		8TF 358 304-041			
		8TF 358 306-861		8TF 358 304-051			
		8TF 358 306-871		8TF 358 304-141			
		8TF 358 306-881		8TF 358 305-181			
	Fuel Pump	8TF 358 106-511	8TF 358 305-211				
		8TF 358 146-201	8TF 358 305-221				
		8TF 358 106-811	8TF 358 305-231				
		8TF 358 106-821	8TF 358 305-281				
		8TF 358 146-851	8TF 358 306-931				
	Sender Unit, fuel tank	8TF 358 302-991	8TF 358 306-941				
		8TF 358 303-001	8TF 358 106-561				
		8TF 358 303-241	8TF 358 106-571				
		8TF 358 304-001	8TF 358 302-991				
		8TF 358 146-371	8TF 358 146-501				
	SAAB	Fuel Feed Unit	8TF 358 106-541	VOLVO	Fuel Feed Unit	8TF 358 146-561	
		Fuel Pump	8TF 358 106-041			8TF 358 146-571	
	SEAT	Fuel Feed Unit	8TF 358 106-051	VW		Fuel Feed Unit	8TF 358 303-931
			8TF 358 106-101				8TF 358 106-041
			8TF 358 106-121				8TF 358 106-051
8TF 358 106-191			8TF 358 106-061				
8TF 358 106-211			8TF 358 106-071				
8TF 358 106-321			8TF 358 106-101				
8TF 358 106-351			8TF 358 106-121				
8TF 358 106-381			8TF 358 106-191				
8TF 358 106-391			8TF 358 106-211				
8TF 358 106-431			8TF 358 106-261				
8TF 358 146-631			8TF 358 106-291				
8TF 358 146-791			8TF 358 106-321				
8TF 358 146-801			8TF 358 106-351				
8TF 358 146-811			8TF 358 106-361				
8TF 358 303-141			8TF 358 106-371				
8TF 358 303-151		8TF 358 106-381					
Fuel Feed Unit		8TF 358 304-911	8TF 358 106-391				
		8TF 358 305-431	8TF 358 106-411				
		8TF 358 305-441	8TF 358 106-431				
		8TF 358 106-141	8TF 358 106-451				
		8TF 358 106-601	8TF 358 106-461				
		8TF 358 106-631	8TF 358 146-631				
		8TF 358 146-381	8TF 358 146-641				
		8TF 358 302-861	8TF 358 146-651				
		8TF 358 306-401	8TF 358 146-781				
		8TF 358 146-241	8TF 358 146-791				
		8TF 358 306-371	8TF 358 146-811				
		8TF 358 106-041	8TF 358 302-801				
		8TF 358 106-051	8TF 358 303-141				
		8TF 358 106-101	8TF 358 303-151				
	8TF 358 106-121	8TF 358 303-161					
8TF 358 106-191	8TF 358 303-171						
8TF 358 106-211	8TF 358 304-911						
Fuel Feed Unit	8TF 358 106-381	8TF 358 305-391					
	8TF 358 106-391	8TF 358 305-411					
	8TF 358 106-431	8TF 358 305-421					
	8TF 358 146-631	8TF 358 305-431					
	8TF 358 146-791	8TF 358 305-441					
	8TF 358 146-811	8TF 358 306-581					
	8TF 358 302-801	8TF 358 306-971					
	8TF 358 303-141	8TF 358 106-141					
	8TF 358 303-151	8TF 358 106-271					
	8TF 358 304-911	8TF 358 106-601					
	8TF 358 305-431	8TF 358 106-631					
	8TF 358 305-441	8TF 358 146-191					
	Fuel Pump	8TF 358 106-141	8TF 358 146-381				
		8TF 358 302-861	8TF 358 302-831				
		8TF 358 146-591	8TF 358 302-861				
SMART	Fuel Feed Unit	8TF 358 305-961	SUZUKI	Swirl Pot, fuel pump	8TF 358 303-181		
SUBARU	Fuel Feed Unit	8TF 358 305-971			8TF 358 306-401		
TOYOTA	Fuel Feed Unit	8TF 358 306-731			8TF 358 106-281		
		8TF 358 106-941			8TF 358 106-421		
		8TF 358 146-601			8TF 358 146-241		
		8TF 358 146-611			8TF 358 306-321		
		8TF 358 303-121	8TF 358 306-371				
8TF 358 303-131							

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Q&A



– Fuel Feed Unit and component parts –

1 Some HELLA fuel pumps come with strainers and some do not. What determines whether a fuel pump is supplied with a strainer?

Usually, the design of the fuel pump units includes the fitting of a strainer. The fuel pump itself, can serve both as a subcomponent for the fuel pump unit, all though in most cases, it comes as a standalone element with various strainers and accessories suitable for multiple applications.

2 What are the key design and performance features of HELLA fuel pumps?

HELLA fuel pumps are designed for high efficiency and reliability. They provide an optimal flow rate, stable fuel pressure, and low current consumption, ensuring smooth and consistent operation. HELLA fuel pumps meet rigorous performance standards, making them a dependable choice for the most demanding applications.

3 For those fuel pumps with strainers, will it be possible to use the same strainer in one country and a different one in another?

Yes, a fuel pump can be mounted on multiple applications / fuel feed units. Therefore, there are cases where one type of strainer is required for one country / market and a completely different strainer is required for another country / market.

4 What will be the main causes of fuel pump failure?

Contamination, dirt and debris caused by the use of poor quality fuel, as well as frequent driving with a low fuel tank.

5 Is a lower grade of fuel used in certain countries a concern when using a HELLA fuel pump? If so, what is the minimum fuel grade?

A lower fuel grade certainly has a direct negative effect on any fuel pump, including HELLA's. Experts recommend using the standard fuel grade as a reference:

- Minimum value for petrol is 95 MON (Motor Octane Number)
- Minimum value for diesel is 46 – 60 CN (Cetane Number)

6 Is there a recommended service life for fuel pumps?

The life of a pump depends on many external factors. If they are observed in time, the pump itself can work up to 150,000 km or more. It is recommended:

- Not to drive frequently with a low fuel tank.
- Replace the fuel filter regularly. In general, the external ones are replaced every 20,000 km. The internal one is replaced every 90,000 – 100,000 km.
- When replacing the fuel pump, it is best to replace both gaskets and the filter at the same time.
- Clean the fuel tank before replacing the fuel pump.