

Manual for the injector shaft cleaning kit Toyota

p/n PZ 485 903 9010



No.	P/N	Description	- PZ 485 903 9010 -	- PZ 485 903 9015 -
1	PZ 485 603 9070	Sealing Ring Extractor (legally protected)	1	-
2	PZ 485 603 9071	Countersunk Allen Screw	1	-
3	PZ 485 603 9072	Claw	1	-
4	PZ 485 903 8440	Pivot Adapter	1	-
5	PZ 485 903 9033	Holder For Brass Wire Brushes	1	-
6	PZ 485 903 9132	Brass Wire Brush Ø18mm (1 pair)	½	1
7	PZ 485 903 9129	Brass Wire Brush Ø21mm (1 pair)	½	1
8	PZ 485 903 9131	Brass Wire Brush Ø19mm (1 pair)	½	1
9	PZ 485 903 9128	Brass Wire Brush Ø24mm (1 pair)	½	1
10	PZ 485 603 90750	Slide Hammer 1350 gr.	1	-
11	PZ 485 903 9034	Flexible Bit Holder ¼" (custom made)	1	-
12	PZ 485 903 8438	Handle With Internal Thread M12x1,5mm	1	-
13	PZ 485 903 8437	Handle With External Thread M12x1mm	1	-
14	PZ 485 904 9026	Brass Wire Brush 300x100mm Stepped 4/6/9mm (1 pair)	1	1
15	PZ 485 904 9025	Brass Wire Brush 300x100mm 7mm (1 pair)	1	1
16	PZ 485 903 9016	Guide For Brass Wire End Brush For The Injector Sealing Surface	1	-
17	PZ 485 903 9011	Brass Wire End Brush Ø17mm (1 pair)	1	1
18	PZ 485 603 90080	Set of 6 Sealing Plugs With Setting Tool	1	-

Removing the Injector:

Always refer to the OEM manufacturer's instructions and service manuals for the latest data and procedures.



If injector can not be removed easily, then it is possible with the handle p/n PZ 485 903 8438 for outer thread or handle p/n PZ 485 903 8437 for inner thread screwed onto the diesel connection, through turning and pulling to remove the injector from the shaft.

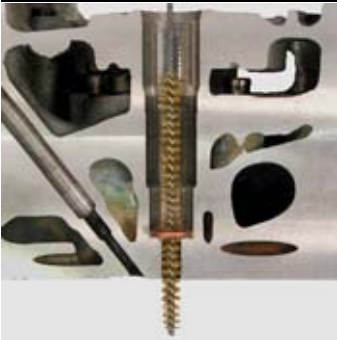


In very severe cases the injector can be removed with the pivot adapter p/n PZ 485 903 8440 and the slide hammer p/n PZ 485 603 90750. Remove the O-ring, slide the pivot adapter p/n PZ 485 903 8440 on the handle and return the O-ring in the groove on the handle. Screw the handle on the diesel connector and the slide hammer on the pivot adapter. Knock by simultaneously rotating and striking the injector from the shaft.

Remove the dirt from in and around the Injector shaft with compressed air or a vacuum cleaner.
Caution, wear safety goggles !

Tip: Good results can be obtained, by putting a funnel on the nozzle of the vacuum cleaner.

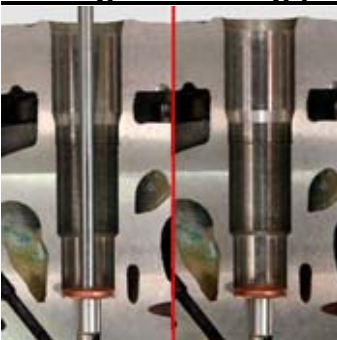
Cleaning the bore of the nozzle:



Remove the dirt and debris from bore of the nozzle with the brass wire brush p/n PZ 485 904 9025

Remove the dirt from in and around the Injector shaft with compressed air or a vacuum cleaner.
Caution, wear safety goggles !

Placing the sealing plugs:



Place the sealing plug by means of the setting tool in the injector shaft and remove the setting tool

Cleaning the injector shaft:



Measure the diameter of the removed injector and select the appropriate brass brush:

Ø18; p/n PZ 485 903 9132

Ø19; p/n PZ 485 903 9131

Ø21; p/n PZ 485 903 9129

Ø24; p/n PZ 485 903 9128

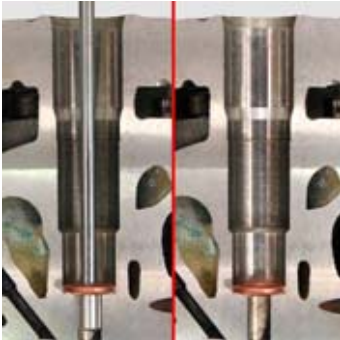
Clamp the brass brush in the brush holder p/n PZ 485 903 9033, put the holder on the flexible-shaft p/n PZ 485 903 9034 and place the shaft in the drill. Guide the brush into the injector shaft and clean the shaft with low speed.



If the shaft is very strongly polluted it is advisable to occasionally clean the shaft, between brushing, with compressed air or a vacuum cleaner. Caution, wear safety goggles! Repeat the operation until the injector shaft is shiny clean.

Remove the dirt from in and around the injector shaft with compressed air or a vacuum cleaner.
Caution, wear safety goggles !

If the copper seal still sticks in the injector shaft:



Remove the sealing plugs by means of the setting tool.



The knurled actuator of the sealing ring extractor must be freely movable and should have some play from the knurled pipe.



Get a new sealing ring and place it on the extraction claw in order to adjust the grip depth. The length of the claw can be changed by turning. The claw is optimally adjusted when the collar protrudes minimally over the sealing ring. If the collar protrudes too much, the extractor will jam in the bore of the nozzle and can not grip the sealing ring. Also is there a risk of damaging the cylinder head. If the claw is not adjusted enough, then the extractor will not grip the sealing ring.



After being used several times it can happen that the four claw elements get overstretched and do not fit in the sealing ring anymore. This can be corrected by squeezing them together with a pair of long-nosed pliers.



Place the sealing ring extractor p/n PZ471 6039070 in the shaft with the slide hammer p/n PZ 485 903 90750 screwed on and knock, with feeling, the claw into the hole of the sealing ring. Remove the slide hammer.

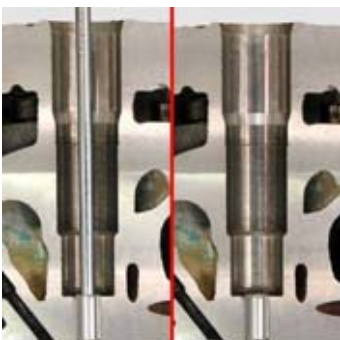


Grip the sealing ring by turning the knurled actuator and holding the knurled pipe.



Screw the slide hammer on the sealing ring extractor and knock with feeling the copper seal out of the injector shaft .

Remove the dirt from in and around the Injector shaft with compressed air or a vacuum cleaner.
Caution, wear safety goggles !



Place the sealing plug by means of the setting tool in the injector shaft and remove the setting tool.

Cleaning the seat of the injector:

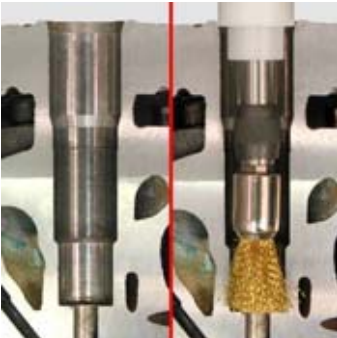


Plug the brass end brush p/n PZ 485 903 9011 onto the flexible shaft. Slide the plastic guide p/n PZ 485 903 9016 on the flexible shaft and end brush.



Clamp the flexible-shaft in the drill and place the guide in the injector shaft. Guide the brush in the injector shaft and clean the sealing seat at low speed. When cleaning the injection shaft, do not use too much force when scrubbing or spin the brush at high speeds as this may damage the sealing surface where the nozzle seat is installed. If the sealing surface is damaged, a sealing problem may occur. Repeat the operation until the injector shaft is shiny clean.

Remove the dirt from in and around the Injector shaft with compressed air or a vacuum cleaner.
Caution, wear safety goggles !



Remove the sealing plugs by means of the setting tool. Guide the brush again in the injector shaft and repeat shortly the cleaning of the sealing seats.

Remove the dirt from in and around the Injector shaft with compressed air or a vacuum cleaner.
Caution, wear safety goggles !

Cleaning the glow plug shaft:



Remove the glow plugs. Clean the glow plug shafts with stepped brass wire brush p/n PZ 485 904 9026.

Remove the dirt from in and around the glow plug shaft with compressed air or a vacuum cleaner. Caution, wear safety goggles !

Warranty Request Form (please fill out this form in English)	
Company	
First Name	
Last Name	
Email	
Phone (incl. country prefix)	
Fax (incl. country prefix)	
Address	
Zip	
City	
Country	
Part number set	
Part number part	
Description of the malfunction	
	(Please include one or more pictures)
Postal restrictions for sending parts to your country.	