

ASSORTED FUEL AND PIPE CONNECTOR KIT - 95pc

- An assortment of Fuel pipe connectors, nylon pipe and hose clips in a handy organiser.
- Kit includes:
 55 x Fuel Pipe Quick Connectors.
 9 x Straight Couplings
 Nylon pipe: 2 x 6mm ID x 340mm, 6 x 8mm ID x 340mm, 2 x 10mm ID x 340mm.
 Rubber Hose: 3 x 7.5mm ID x 200mm, 1 x 12mm ID x 200mm.
 Twin Ear Clips: 12 x 15-18mm, 4 x 17-20mm.
 Plus 1 x Stainless Steel Blade Pipe Cutter.



Guarantee

This item contains consumable elements that are **NOT** covered by the Tool Connection Guarantee. For spares contact our service department direct on: +44 (0) 1926 818186.



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Fuel Pipe & Connector Kit - 95pc

This kit has been developed to allow the replacement or repair of the most common sizes of hard plastic fuel pipe and connector found on modern vehicles. The kit enables the technician to produce an effective, professional repair that is in keeping with the OEM product.

The kit contains both male and female snap connectors in straight and angled formats as well as lengths of the relevant plastic pipe.

Also included in the kit are lengths of specially selected rubber fuel hose and relevant connectors to allow hard pipes to be connected using more flexible rubber pipe (clips included) while it is possible to insert the fuel connectors in to the relevant pipe size by hand, using hot water, to temporarily soften and expand the pipe, The Tool connection Ltd advise the use of appropriate insertion tools such as the Laser 6933. This unique tool was especially designed for this application and results in a professional and accurate fit of the connector to the hard pipe.

- Applications: Vehicle fuel/air and vacuum pipes fitted with snap type connectors.
- Snap Connector sizes covered: 6.30mm, 7.89mm, 9.49mm, 9.89mm, 11.80mm
- Hard pipe sizes covered: ID 6mm x 8mm, ID 8mm x OD 10mm, ID 10mm x OD 12mm.
- Always lubricate the connector with petroleum jelly or similar to assist assembly
- Connector and pipe top up kits available, see kits content list for Connect Part Numbers.
- See Figure 1 for example of snap connector and plastic pipe in use.

Examples of use



Vacuum Servo System

Fuel Filter
Connections

EVAP Control
Systems



Figure 1

**Tool Connection recommended
insertion tool:
Laser Part No. 6933**

2 NOTE: many manufacturers use several sizes of pipe and connector on the same vehicle. For this reason a full vehicle specific application list is not available.

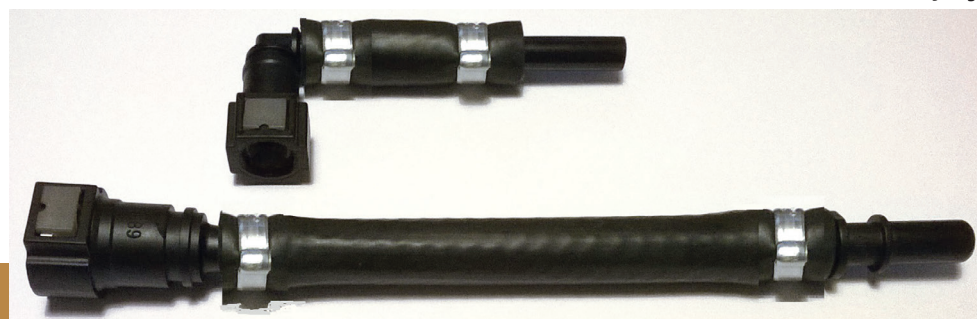
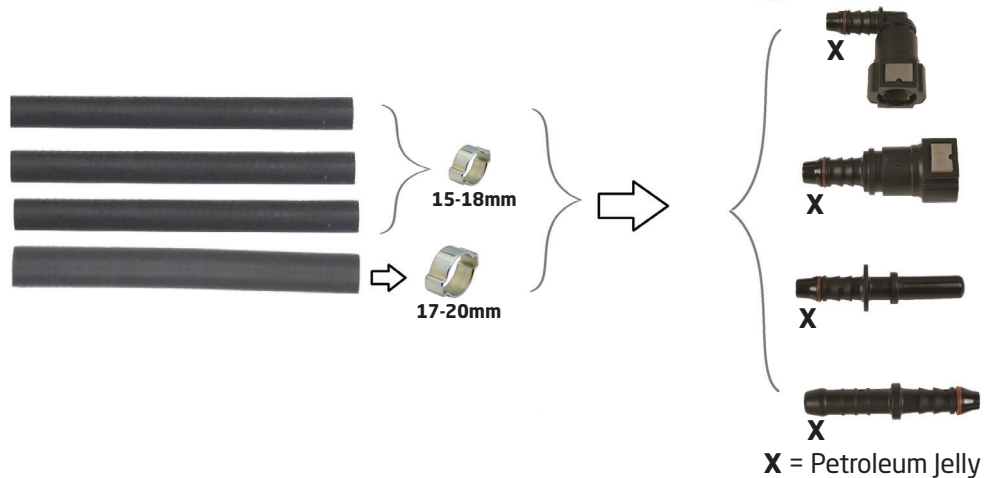
Fuel Connectors - Top Tray







Rubber Hose

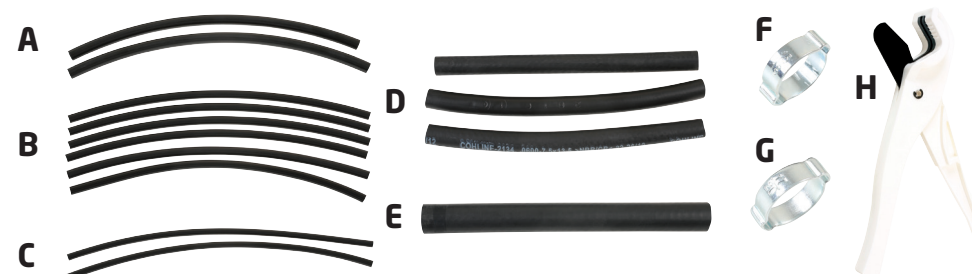
Fitting connector to rubber hose:

- Use petroleum jelly as shown on the connector barbs.
- Use appropriate clip as shown, 15-18mm for rubber hose with 7.5mm I.D. and 17-20mm for 12mm I.D. rubber hose.
- Tighten clips using the appropriate pliers to clamp the “ears” of the clips
- The Tool Connection Ltd recommends the use of Laser 3881 or similar pliers.



Contents

ID	Size x Pipe Size	Qty	Part No.	Image
AF1	6.3mm x 6mm	3	37207	 Angled Female Plastic Pipe
AF2	7.89mm x 8mm	3	37211	
AF3	9.49mm x 8mm	3	37208	
AF4	9.89mm x 8mm	3	37209	
AF5	11.8mm x 10mm	3	37210	
SF1	6.30mm x 6mm	3	37212	 Straight Female Plastic Pipe
SF2	7.89mm x 8mm	3	37213	
SF3	9.49mm x 8mm	3	37215	
SF4	9.89mm x 8mm	3	37214	
SF5	11.2mm x 10mm	3	37216	
SM1	6.30mm x 6mm	5	37200	 Straight Male Plastic Pipe
SM2	7.89mm x 8mm	5	37201	
SM3	9.49mm x 8mm	5	37202	
SM4	9.89mm x 8mm	5	37203	
SM5	11.8mm x 10mm	5	37204	
S1	8mm (6mm plastic < 7.5mm rubber)	3	37205	 Straight Plastic < Rubber
S2	8.3mm (8mm plastic < 7.5mm rubber)	6	37206	



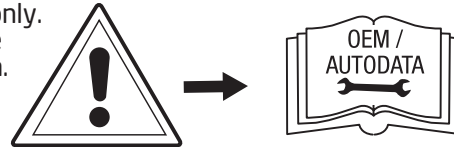
Connector to Adaptor Cross Reference

ID	Qty	Size : Description	Use with Connector Size from Top Tray	Connect No.
A	2	10mm x 340mm Nylon Pipe	AF5/SF5/SM5	37217
B	6	8mm x 340mm Nylon Pipe	AF2/AF3/AF4 SF2/SF3/SF4 SM2/SM3/SM4	37218
C	2	6mm x 340mm Nylon Pipe	AF1/SF1/SM1	37219
D	3	7.5mm x 200mm Rubber Hose	AF1/AF2/AF3/AF4 SF1/SF2/SF3/SF4 SM1/SM2/SM3/SM4	37220
E	1	12mm x 200mm Rubber Hose	AF5/SF5/SM5	37221
F	12	15-18mm Twin Ear Clips	7.5mm Rubber Hose	30818
G	4	17-20 Twin Ear Clips	12mm Rubber Hose	30819
H	1	Stainless Steel Pipe Cutter	Equivalent to Laser 2829	

Preparation

The following instructions are for guidance only. Please refer to OEM derived data such as the vehicles manufactures own data or Autodata.

The use of this connector fitting kit is purely down to the user's discretion and The Tool Connection Ltd cannot be held responsible for any damage caused whatsoever.



- Measure the pipe to be made
- Ensure all pipes are cut square and clean
- Use petroleum jelly or similar to ease insertion of the connectors in to the pipes
- Determine the size of connector required by measuring the diameter of the male connection on the vehicle

Instructions

Fitting Connector to Nylon Plastic Pipes:

For best results use the connector fitting tool Laser 6933.

- Choose appropriate pipe diameter to match the connector as dictated by the Connector to Pipe cross reference.

Fitting by hand:

WARNING:

- Hot water - wear gloves.
- Performing this task by hand requires speed, strength and accuracy. If the pipe cools down before being fully fitted it will not be possible to push the pipe on any further.

Do not use a flame or heat gun to warm the pipe as this method does not evenly heat the pipe. This may then cause the pipe to kink.

It is possible to fit the connectors by hand by heating the end of the pipe (25mm) using boiling water and pushing the pipe over the connectors' barbed end as shown. Push the pipe over the connector by holding the pipe with the connector against a hard surface.

Hard Plastic Pipes

