

# FJC

Air Conditioning Products  
Tools, Equipment & Refrigerant

## Part # 2750 Valve Core Remover/Installer Instructions



R134a High Side  
Service Port Adapter



R134a Low Side  
Service Port Adapter



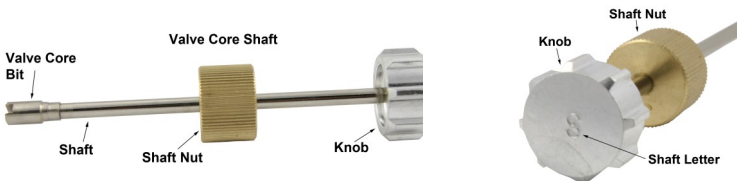
1/4 inch  
Service Port Adapter



3/16 inch  
Service Port Adapter



**WARNING: USE EXTREME CAUTION WHEN SERVICING AN AIR CONDITIONING SYSTEM UNDER PRESSURE. SYSTEMS UNDER PRESSURE MAY CAUSE SEVERE INJURY.**



**CAUTION: ALWAYS USE GOGGLES WHEN SERVICING AN AIR CONDITIONING SYSTEM.**

The valve core tool body of the valve core remover/installer tool will be used with a valve core shaft and an adapter to connect to a service port to remove and install a valve core.

1- Choose correct valve core shaft:

A. Select correct valve core shaft by matching the valve core in the service port to be serviced to the letter on the end of the valve core shaft.

Shaft Letter	Valve Core
<b>S</b>	<b>2672</b>
<b>G</b>	<b>2673</b>
<b>J</b>	<b>2674</b>
<b>V</b>	<b>2675</b>
<b>G</b>	<b>2676</b>
<b>H</b>	<b>2677</b>

Before attaching the valve core shaft to the body, check to make sure the valve core bit fits the valve core in the service port to be serviced.

Make sure the valve on the valve core body is in the off position. To close the valve turn the valve handle clockwise until it stops. The off position is when the valve handle is perpendicular to the flow through the valve core body.

Attach the valve core shaft to the valve core tool body. Screw it on hand tight. Do not over tighten.

2-Choose the correct adapter.

There are 4 different adapters to choose from. Each adapter is for a different service port.

R134a Red High Side Service Port Adapter: For use on vehicles with R134 service ports. This service port adapter fits the High Side service port only.

R134a Blue Low side Service Port Adapter: For use on vehicles with R134a service ports. This service port adapter fits the Low Side service port only.

1/4 Inch Service Port Adapter: For use on vehicles with 1/4 inch service ports and HVAC systems with 1/4 inch service ports.

3/16inch Service Port Adapter: For use on vehicles using 3/16 inch service ports. This service port is normally the high side service port. This service port adapter must be used in conjunction with the 1/4 inch service port adapter.

Connect the correct adapter for the service port being serviced to the valve core body.

Tighten the adapter snugly to the valve core body. Do not over tighten.

3-After connecting the correct valve core shaft and adapter to the valve core body and the valve on the valve core body is in the off position, connect the valve core assembly to the service port being serviced.

If connecting to an R134a service port, pull back on the outside sleeve of the R134a service port, push the adapter onto the service port and release the outside sleeve on the R134a service port locking the R134a service port adapter on the R134a service port.

If connecting to a 1/4 inch service port, screw the 1/4 inch service port adapter on the 1/4 inch service port.

If connecting to a 3/16 inch service port, connect the 1/4 inch service port adapter on the valve core body. Then connect the 3/16inch service port adapter to the 1/4 inch service port adapter. Then screw the 3/16inch service port adapter on the 3/16 inch service port.

#### 4-Removing the Valve Core:

After the valve core assembly is connected to the service port open the valve on the valve core body by turning the valve core handle 1/4 turn. To turn the valve on, turn the valve handle counterclockwise until it stops. In the on position the valve core handle is parallel to the valve core shaft.

Push the valve core shaft down so the valve core shaft bit contacts the top of the valve core. Gently turn the valve core shaft until the valve core shaft bit fits over the top of the valve core. (When the valve core shaft depresses the stem on the valve core, the pressure from the system will push the valve core shaft out. Continuous pressure will have to be placed on the end of the valve core shaft to keep it connected to the valve core.)

When the valve core shaft connects to the valve core, turn the valve core shaft counterclockwise until the valve core has been completely unthreaded. (When the valve core is completely unthreaded, there will be a slight bump as the valve core shaft is turned counterclockwise).

Pull the valve core shaft with the valve core completely back until it

stops.

Close the valve on the valve core body by turning the valve core handle clockwise 1/4 turn until it stops.

**DO NOT REMOVE THE VALVE CORE TOOL FROM THE SERVICE PORT.**

Unscrew the valve core shaft from the valve core body.

Make sure the valve core is on the end of the valve core shaft. If the valve core is not on the end of the valve core shaft start over at step A.

Remove valve core from end of valve core shaft.

Place new valve core on end of the valve core shaft.

Insert valve core shaft with new valve core into end of valve core body and screw valve core nut onto valve core body.

Open valve on valve core body by turning the valve handle counterclockwise until it stops.

Push valve core shaft down until valve core contacts bottom of service port. Turn valve core shaft clockwise until valve is tight.

**DO NOT OVER TIGHTEN.**

Pull valve core shaft completely out until it stops.

Close valve on valve core body by turning it clockwise 1/4 turn until it stops.

**DO NOT REMOVE VALVE CORE ASSEMBLY.**

Remove valve core shaft from valve core body.

Slightly open the valve on the valve core body by turning the valve handle counterclockwise to release pressure. If valve core is seated in service port correctly, a small amount of pressure will be released. If the valve core is not seated correctly, there will be a continuous pressure release.

If there is a continuous pressure release, the valve core shaft will have to be reconnected to the valve core body. The valve on the valve core body will have to be opened and the valve core shaft pushed down to contact the bit on the end of the valve core shaft to the top of the valve core. The valve core will need to be seated correctly or removed and replaced.

If there is a slight pressure release when opening the valve, the valve core assembly may be removed.

Use an electronic leak detector to verify that the service port is not leaking.

**DO NOT REMOVE VALVE CORE TOOL ASSEMBLY UNTIL YOU HAVE VERIFIED THAT THE VALVE CORE HAS BEEN CORRECTLY SEATED AND THERE IS NO PRESSURE IN THE VALVE CORE BODY.**

**WARNING: REMOVING THE VALVE CORE ASSEMBLY WITH THE VALVE CORE NOT INSTALLED CORRECTLY AND THE VALVE CORE ASSEMBLY UNDER PRESSURE MAY RESULT IN SEVERE INJURY.**

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