



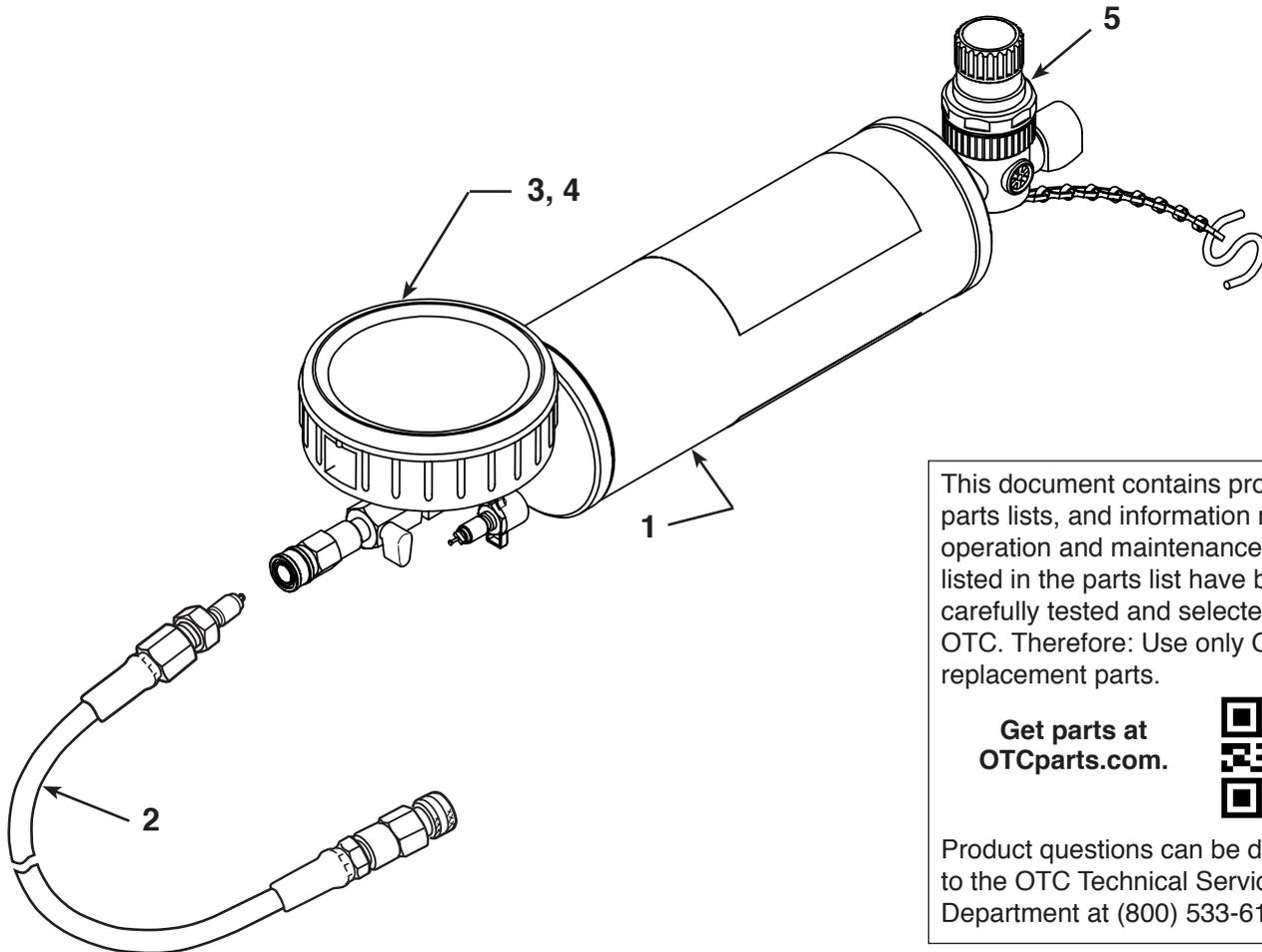
655 Eisenhower Drive
 Owatonna, MN 55060 USA
 Phone: (507) 455-7000
 Tech. Serv.: (800) 533-6127
 Fax: (800) 955-8329
 Order Entry: (800) 533-6127
 Fax: (800) 283-8665
 International Sales: (507) 455-7223
 Fax: (507) 455-7063

Form No. 107340

**Parts List &
 Operating Instructions**
 for:

7448A

Fuel Injector Cleaner



This document contains product parts lists, and information regarding operation and maintenance. Items listed in the parts list have been carefully tested and selected by OTC. Therefore: Use only OTC replacement parts.

Get parts at
OTCparts.com.



Product questions can be directed to the OTC Technical Service Department at (800) 533-6127.

Replacement Parts

Item No.	Part No.	Qty.	Description
1	567710	1	Fuel Injector Cleaner Canister
2	581340	1	Hose ($1/8$ NPTF x 6' Lg.) with connectors
3	517145	1	Rubber Gauge Cover
4	313575	1	Pressure Gauge (0-100 PSI / 0-7 BAR)
5	213299	1	Air Regulator

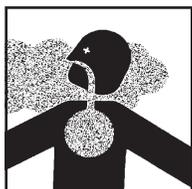
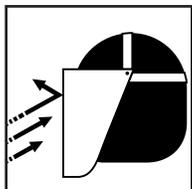
Sheet No. 1 of 3

Issue Date: Rev. F, June 22, 2017

Safety Precautions



WARNING: The following safety precautions must be carefully observed to reduce the risk of fire and personal injury.

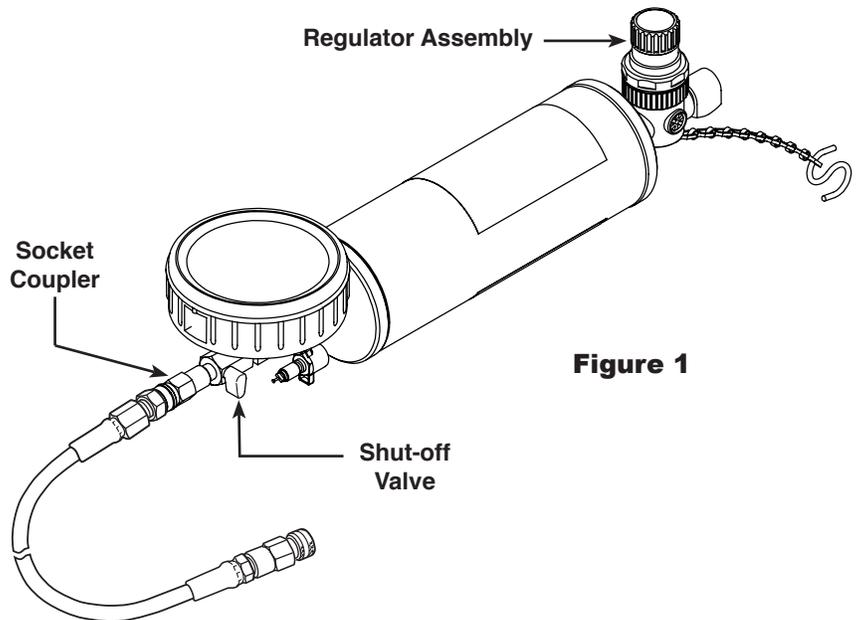


- Read, understand, and follow safety precautions and instructions. If the operator cannot read these instructions, operating instructions and safety precautions must be read and discussed in the operator's native language.
- Operator of the 7448A Fuel Injector Cleaner and bystanders must wear face shields.
- OTC 7448A and OTC 7000A are designed for use on gasoline engines ONLY. Do not use this tool for diesel applications.
- Observe normal precautions for working with flammable liquids: no smoking, open flames, electrical sparks, etc.
- Use the OTC 7448A in well ventilated areas.
- Pressurized liquid and accumulated fumes can ignite. Keep a Class B fire extinguisher nearby when working on fuel injection systems.
- Do not modify any components of the OTC 7448A.
- Do not replace any components of the OTC 7448A except those specified by OTC.
- Use the vehicle manufacturer's recommended procedures to service injectors. Never exceed the vehicle manufacturer's recommended pressures.
 - Release fuel system pressure before servicing fuel system components.
 - Wrap a shop towel around pressure tap fittings when connecting or disconnecting adapters to / from the vehicle and when disassembling the canister after use.
 - Tighten all connections; fuel leakage could cause a fire.
 - Do not exceed 100 psi maximum hose pressure.
 - Keep hose away from moving engine parts, hot engine components, and battery terminals.
 - Inspect the hose for damage before using the OTC 7448A. Check the inside of the hose to confirm there is no blockage. Replace the hose if needed.
 - Replace injector o-rings whenever injectors are removed.

Cleaning Fuel Injectors

Note: The optional OTC Professional Fuel Injection Application Manual contains instructions and diagrams specific to each vehicle system.

1. Read, understand, and follow the *Safety Precautions* on the previous page before using the Fuel Injector Cleaner.
2. Run the engine until it reaches normal operating temperature.
3. Shut OFF the engine. Turn OFF all accessories.
4. Disable the fuel pump. *Note: It is best to unplug the fuel pump at the fuel tank. On some vehicles, pulling the fuel pump fuse also disables the ignition system or fuel injectors.*
5. Turn OFF the shut-off valve at the bottom of the Fuel Injector Cleaner container. See Figure 1. *Note: Valve is OFF if it is turned all the way clockwise.*
6. Install the hose assembly on the socket coupler as shown.
7. Remove the top and regulator assembly from the Fuel Injector Cleaner container. Pour fuel injector cleaner (one can of OTC No. 7000A - Pro Inject-R-Kleen®) into container. Install top and regulator assembly.
8. Use the chain and hook to hang the Fuel Injector Cleaner from the hood of the vehicle.
9. Refer to the vehicle service manual — or optional *OTC Professional Fuel Injection Application Manual* — to determine fuel pressure operating specifications. Connect the Fuel Injector Cleaner to the inlet of the fuel rail. *Note: To keep cleaner fluid from going back to tank, block the fuel return line or adjust the regulator to run vehicle at 5 PSI under fuel pressure specifications.*
10. Turn regulator on top of Fuel Injector Cleaner to full OPEN position (counterclockwise).
11. Attach a shop air hose to fitting on top of cleaner container.
12. Adjust regulator (by turning it clockwise) to vehicle manufacturer's fuel running specification, or 5 PSI under the manufacturer's specs. to prevent fuel return.
13. Open shut-off valve to full OPEN position (counterclockwise).
14. Start engine and let it run at 1,000 – 1,500 RPM. *Note: Adjust air pressure to obtain a smooth RPM, if necessary.*
15. Run engine until container is empty and engine stalls.
16. Turn OFF ignition.
17. Turn shut-off valve to full OFF (clockwise).
18. Disconnect air supply. Turn regulator to full OPEN (counterclockwise) to release pressure in container.
19. Remove cleaner. Remove fuel adapter fitting. Connect fuel line. Remove block on fuel return line and connect fuel return line, if applicable. Connect fuel pump power.
20. Start the engine and check for fuel leaks.



Decarbonizing the Engine

1. Read, understand, and follow *Safety Precautions* in this document before using the Fuel Injector Cleaner.
2. Run the vehicle until the engine reaches normal operating temperature. Shut OFF the engine.
3. Turn regulator on top of Fuel Injector Cleaner to full OPEN position (counterclockwise). Leave the fitting on the end of the regulator open— do NOT connect shop air.
4. Close the shut-off valve at the bottom of the Fuel Injector Cleaner. *Note: Valve is OFF if it is turned all the way clockwise.*
5. Remove top and regulator assembly from Fuel Injector Cleaner. Fill the container with up to 16 oz. of decarbonizing fluid. Install top and regulator assembly.
6. Connect the canister hose to a decarbonizing adapter such as OTC No. 7666.
7. Locate a manifold vacuum port (NOT ported vacuum) near the throttle body or carburetor. This will more evenly distribute the decarbonizing solution.
8. Connect the decarbonizer hose (with adapter) to the manifold vacuum port. See Figure 2.

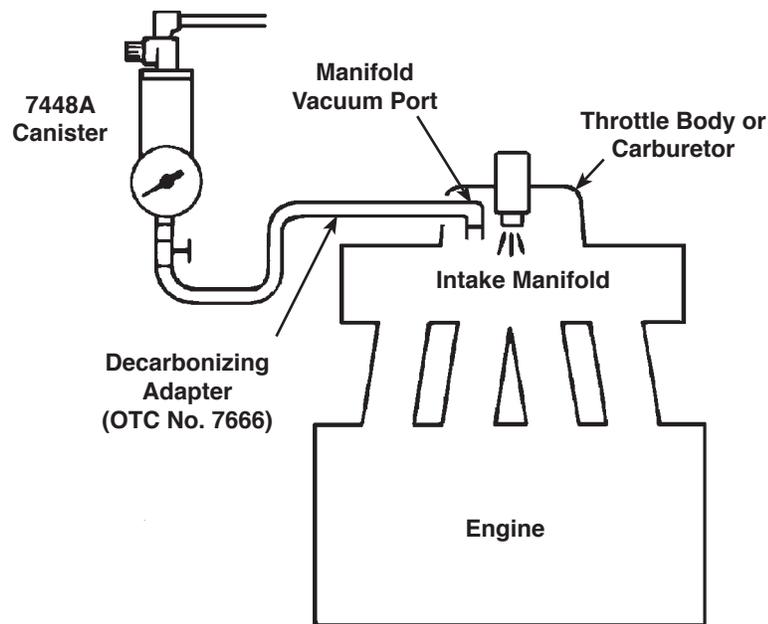


Figure 2

9. Start the engine. Manually increase throttle to 1,500 RPM while slowly opening the shut-off valve. The engine will run rough and RPM will decrease. Do NOT manually increase RPM.
10. When the container is empty, turn OFF the engine.
11. Remove the adapter fitting from the engine. Connect the vacuum hose.
12. Let the vehicle sit for at least 30 minutes to allow the solution to work on soft carbon deposits.
13. Test drive the vehicle for at least 15 miles to flush loosened carbon deposits out of the system.
Note: Until the system is cleaned out, the vehicle may start hard, run rough, and there may be heavy white smoke from the tailpipe.

Cleaning the Fuel Injector Cleaner

1. Install the quick coupler onto the end of the hose assembly.
2. Turn OFF the shut-valve at the bottom of the fuel injector cleaner. *Note: Valve is OFF if it is turned all the way clockwise.*
3. Turn regulator on top of Fuel Injector Cleaner to full OPEN position (counterclockwise).
4. Attach a shop air hose to the fitting on top of the cleaner container.
5. Insert the hose into a suitable container.
6. Adjust the air regulator to 50 PSI.
7. Turn the valve on the bottom the fuel injector cleaner to the OPEN position.
8. Let the cleaner flow into the container until the hose is empty.

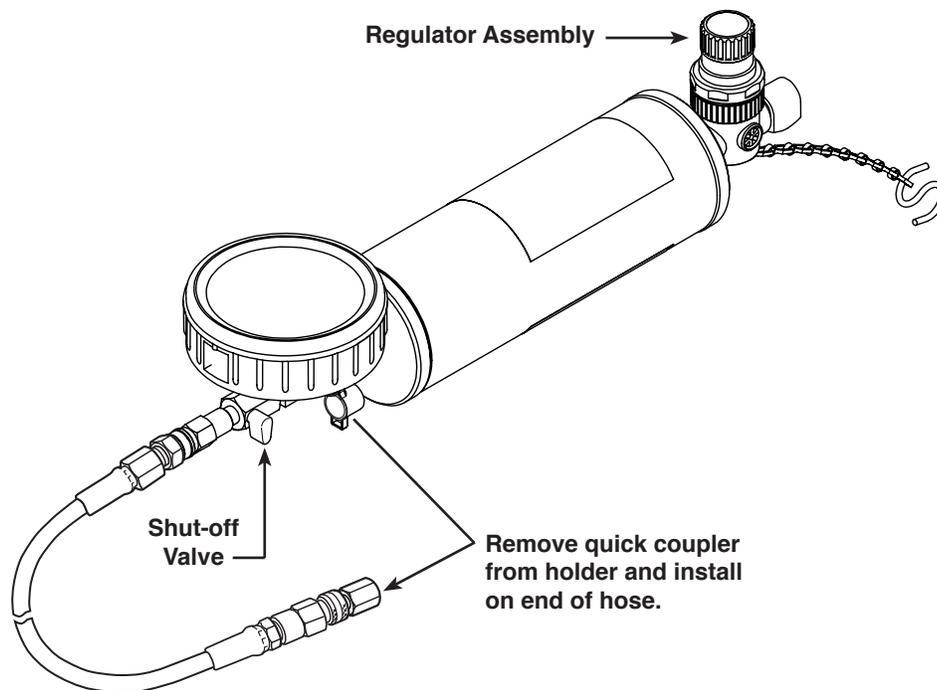


Figure 3