

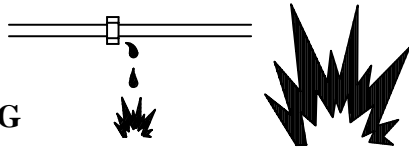
Fuel Solenoid Bypass Valve

Kits PA-255634 (23/30 kW), PA-255638 (33-45 kW), and PA-255639 (50/60 kW)

Standby Generator Sets

The fuel solenoid bypass valve kit provides a manually operated valve which redirects the fuel supply around the electric fuel solenoid valve. This allows emergency use of the generator set when the fuel solenoid is defective.

WARNING



All fuels are highly explosive in a vapor state. Use extreme care when handling, storing, and using fuels

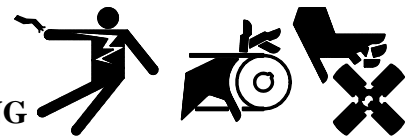
Store fuel in a well-ventilated area away from spark producing equipment and out of the reach of children. Never add fuel to the tank while the engine is running since spilled fuel may ignite on contact with hot parts or from ignition spark. Do not smoke or permit flame or spark to occur near potential sources of spilled fuel or fuel vapors. Keep fuel lines and connections tight and in good condition—don't replace flexible fuel lines with rigid lines. Flexible sections are used to avoid breakage due to vibration. Additional precautions must be taken when using the following fuels:

Gasoline – Store gasoline only in approved red containers clearly marked GASOLINE. Do not store gasoline in any occupied building.

Propane (LP) – Adequate ventilation is mandatory. Propane is heavier than air; install gas detectors low in room. Inspect detectors often.

Natural Gas – Adequate ventilation is mandatory. Natural gas rises; install gas detectors high in room. Inspect detectors often.

WARNING



Accidental starting can cause death or serious personal injury. Turn Generator Master Switch to OFF position, disconnect power to battery charger, and remove battery cables (remove negative lead first and reconnect it last) to disable generator set before working on any equipment connected to generator. The generator set can be started by automatic transfer switch or remote start/stop switch unless these precautions are followed.

CAUTION



Fuel leakage can cause an explosion. Check LP gas or Natural gas fuel system for leakage using a soap-water solution with fuel system test pressurized to 6-8 ounces per square inch (10-14 inches water column). Do not use test solutions that contain ammonia or chlorine, since the soap will not bubble for an accurate leakage test.

NOTE

Fuel leakage could cause an explosion. After all LP-gas or natural gas connections have been completed, the entire system must be test pressurized to 6-8 ounces per square inch (10-14 inches water column).

INSTALLATION

1. Move controller master switch to OFF position. Disconnect battery, negative lead first. Remove batteries from battery rack.
2. Close fuel supply valve at primary regulator or at a point upstream of fuel solenoid.
3. Assemble piping using Figure 1. In some cases it will be necessary to remove components from the engine. Use pipe sealant on all male threads of fittings.

NOTE

When installing fuel solenoid make note of direction of flow as indicated by the arrow.

4. With piping properly installed, drill two .344 in. (9 mm) dia. holes in skid using support

bracket as a template. Repeat procedure for the second support bracket. Use supplied hardware to mount bracket to skid.

5. Open fuel supply valve and check for fuel leakage. Open and close fuel solenoid bypass valve while checking for fuel leakage.

NOTE

Fuel leakage could cause an explosion. After all LP-gas and natural gas connections have been completed, the entire system must be test pressurized to 6–8 ounces per square inch (10–14 inches water column).

6. Reconnect battery, negative lead last. Test run generator set and check that fuel supply is not disrupted when fuel solenoid bypass valve is in either position. Check for fuel leakage while unit is running. STOP generator set.

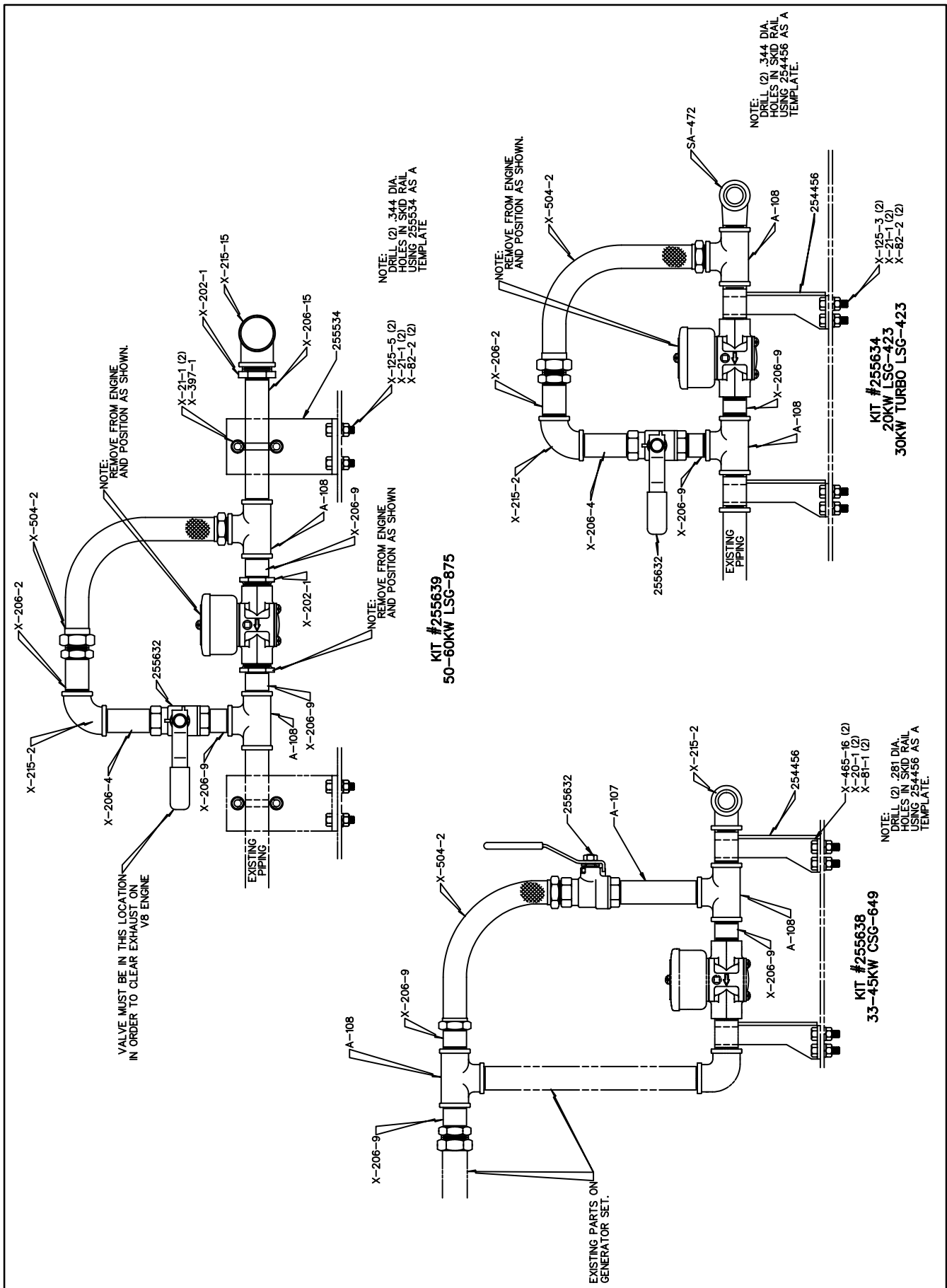


Figure 1. Installing Fuel Solenoid Bypass Valve

PARTS LISTING

Kit PA-255634

Description	Qty.	Part Number
Tee, 3/4 NPT pipe	2	A-108
Elbow, 3/4 NPT x 3/4 NPT	1	SA-472
Screw, 5/16-18 x 3/4	2	X-125-3
Nipple, pipe 3/4 NPT x 2 in.	1	X-206-2
Nipple, pipe 3/4 NPT x 2-1/2 in.	1	X-206-4
Nipple, pipe 3/4 NPT x 1-3/8 in.	2	X-206-9
Elbow, 3/4 NPT x 3/4 NPT	1	X-215-2
Washer, .344 x .687 x .065 plain	2	X-25-85
Line, fuel 3/4 NPT x 3/4 NPT x 12 in.	1	X-504-2
Nut, 5/16-18	2	X-82-2
Bracket, fuel valve	1	254456
Valve	1	255632

Kit PA-255638

Description	Qty.	Part Number
Nipple, pipe 3/4 NPT x 4 in.	1	A-107
Tee, 3/4 NPT pipe	2	A-108
Nipple, pipe 3/4 NPT x 1-3/8 in.	3	X-206-9
Elbow, pipe 3/4 NPT x 3/4 NPT	1	X-215-2
Washer, .281 x .625 x .060 plain	2	X-25-40
Screw, 1/4-20 x 3/4	2	X-465-16
Line, fuel 3/4 NPT x 3/4 NPT x 12 in.	1	X-504-2
Nut, 1/4-20	2	X-81-1
Bracket, fuel valve	1	254456
Valve	1	255632

Kit PA-255639

Description	Qty.	Part Number
Tee, 3/4 NPT pipe	2	A-108
Screw, 5/16-18 x 1	2	X-125-5
Bushing, reducer 3/4 NPT x 1 NPT	2	X-202-1
Nipple, pipe 3/4 NPT x 6 in.	1	X-206-15
Nipple, pipe 3/4 NPT x 2 in.	1	X-206-2
Nipple, pipe 3/4 NPT x 2-1/2 in.	1	X-206-4
Nipple, pipe 3/4 NPT x 1-3/8 in.	3	X-206-9
Elbow, 3/4 NPT x 3/4 NPT	1	X-215-2
Elbow, 1 NPT x 1 NPT	1	X-215-15
Washer, .344 x .687 x .065 plain	4	X-25-85
Bolt, U	1	X-397-1
Line, fuel 3/4 NPT x 3/4 NPT x 12 in.	1	X-504-2
Nut, 5/16-18	2	X-82-2
Bracket, support	1	255534
Valve	1	255632