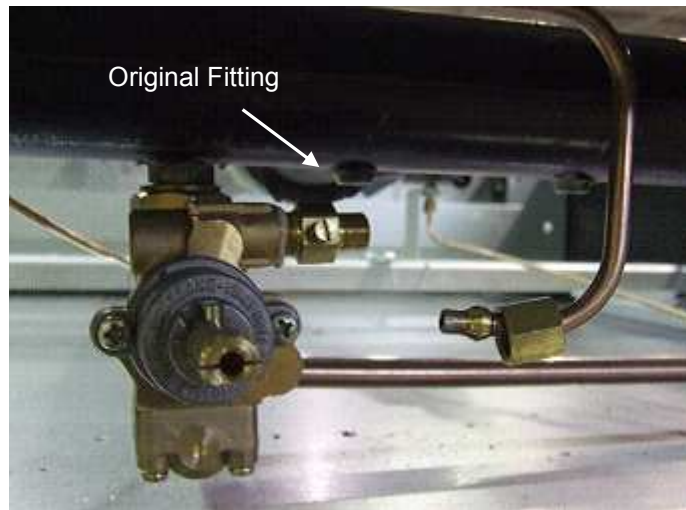


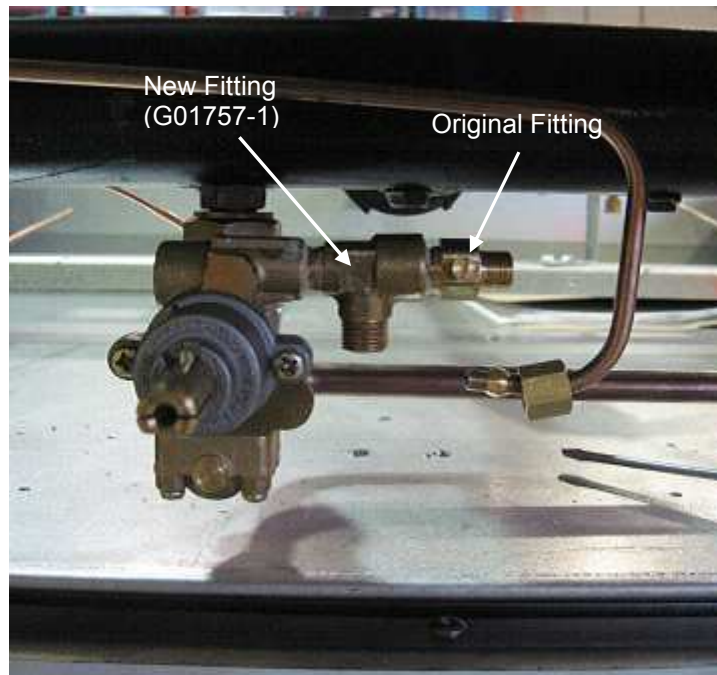
Installation Instructions for the NYC School Solenoid Valve Kit
(Solenoid Only Part Number – 1772001)

1) Attach new fitting to PEL Valve

- Parts needed:
 - 1 x G01757-1 – ¼" T-Fitting
- Remove ¼" fitting on PEL Valve. The fitting has a single inlet and single outlet
- Install new fitting (G01757-1) into PEL valve. This fitting has one inlet, two outlets. The outlet housing the nut and ferrule should point **downwards**.
- Reinstall the original fitting onto the remaining outlet on the right side. Reattach oven pilot connection.



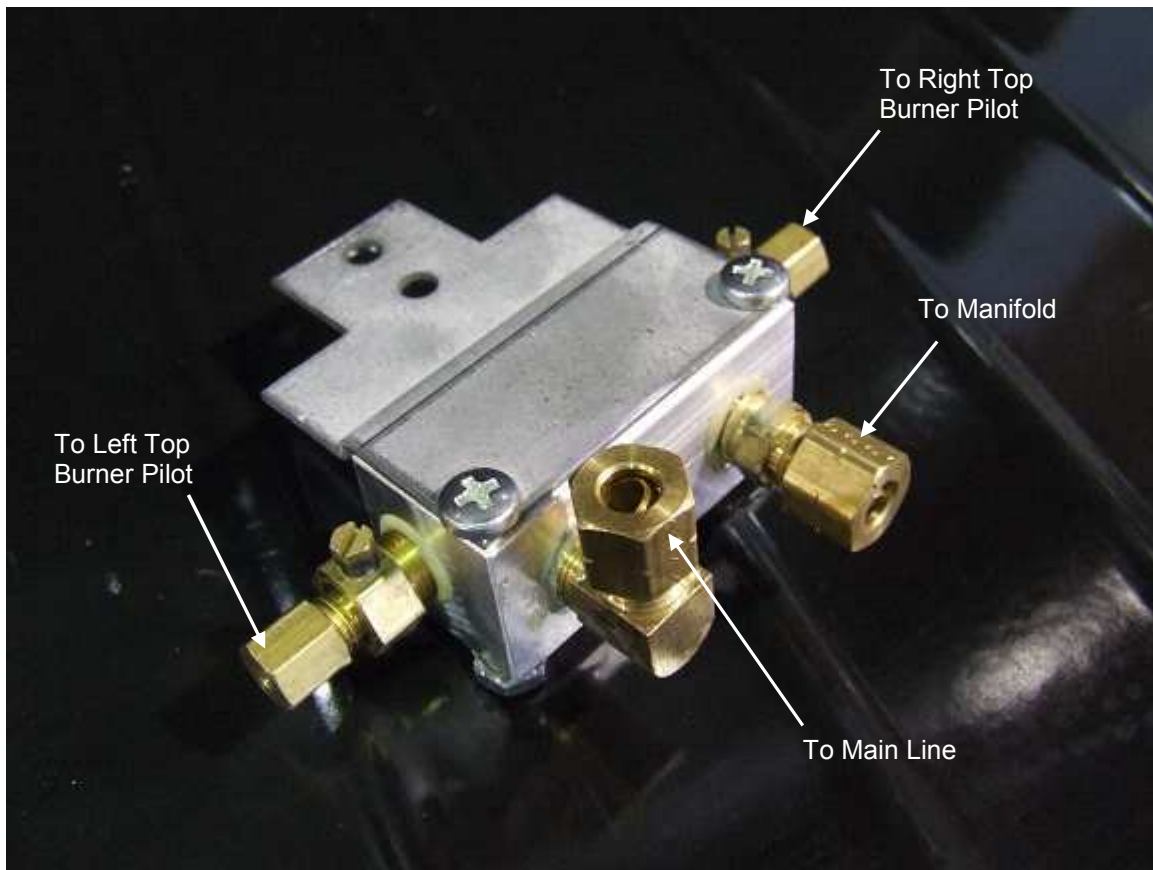
Before new fitting installed



After New fitting installed

2) Aluminum Pilot Block Assembly

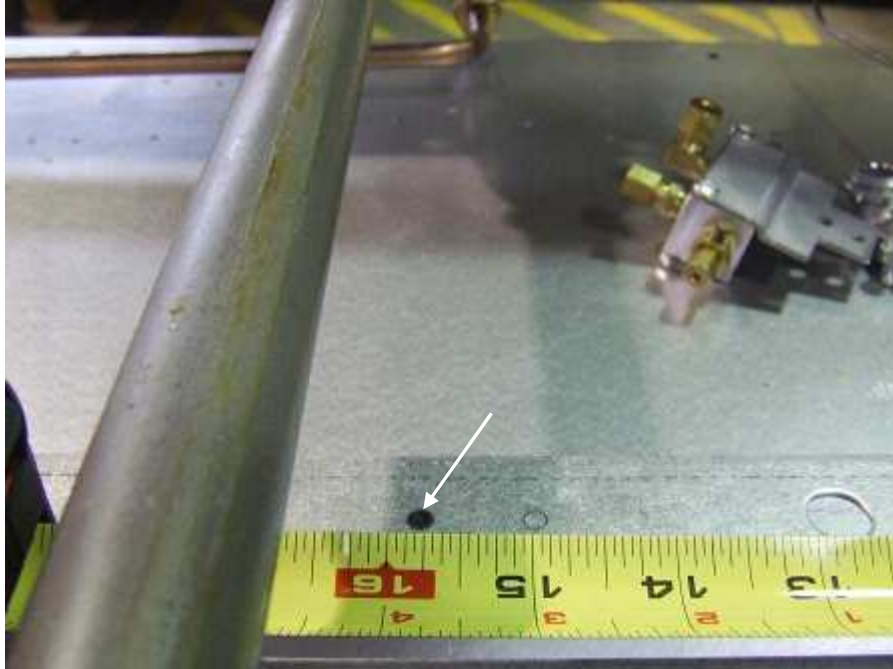
- Assemble the pilot block using the following list of components and the pictures below.
 - 1 x 2393600 – Aluminum Pilot Block
 - 1 x 2392500 – Pilot Block Bracket
 - 2 x M308 – Bolt
 - 2 x M312 – Nut
 - 2 x 1086199 – 1/8" Pilot Compression Fitting
 - 1 x 076050-80 – 1/4" Elbow Compression Fitting
 - 1 x 076050-14 – 1/4" Straight Compression Fitting
- Ensure that the elbow fitting is facing upwards and the pilot screws on the 1/8" fittings are also facing upwards.



Completed Pilot Block

3) Drill Hole in Grate Support

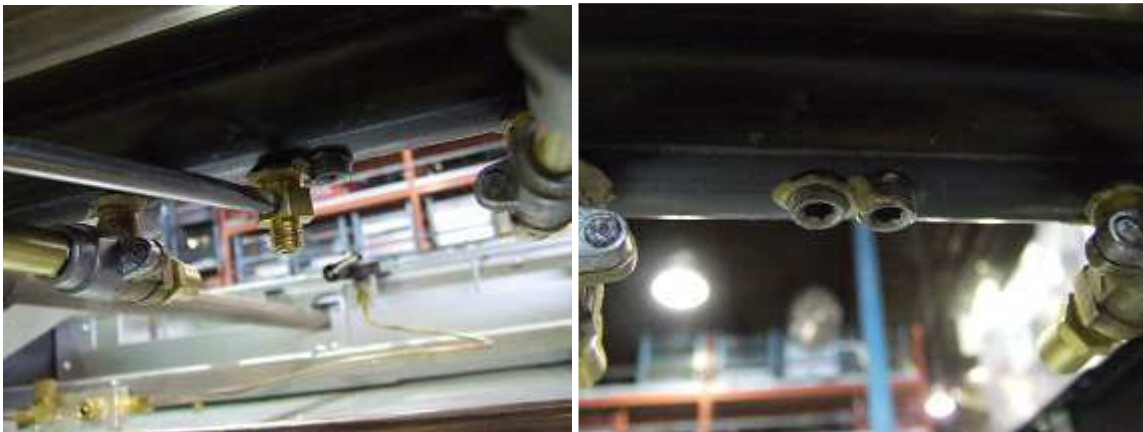
- Drill hole 15 ¾" from left edge of support. This hole will be used to mount the pilot block.



View from back of range, hole location labeled

4) Unscrew Top Burner Pilot Fittings on Manifold.

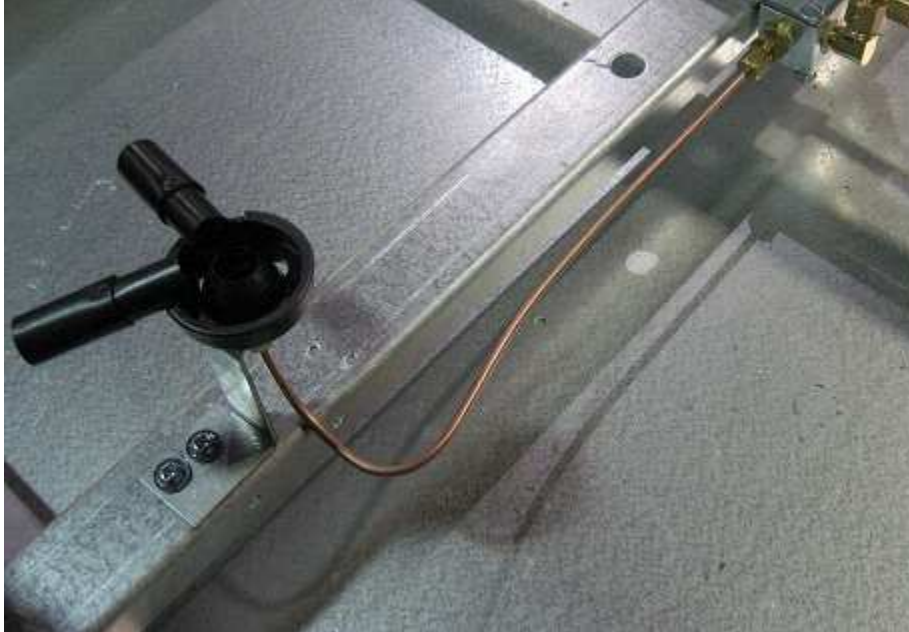
- Parts needed:
 - 2 x 2203400 – Manifold Plug
- The top burner pilots were originally connected to the manifold directly. Remove these fittings and install plugs.



Left: Pilot Fitting on Manifold
Right: Fitting Removed; Hole Plugged

5) Install New Top Burner Pilot Tubes

- Pilot tubes are shorter in length than current production ones.
 - Left side pilot tube length: 11 $\frac{3}{4}$ "
 - Right side pilot tube length: 8 $\frac{3}{4}$ "



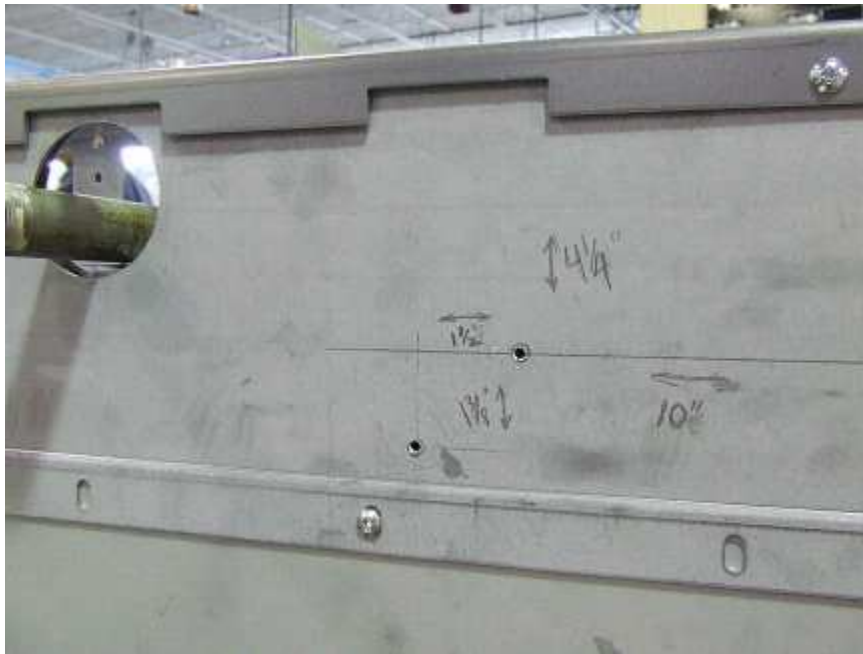
Left Side Pilot Tube



Right Side Pilot Tube

6) **Drill Holes for Electrical Box; Install Electrical Box**

- Parts needed:
 - 1 x Electrical Box (No part number available)
- Two new holes need to be added to the back panel to attach an electrical box.
- The first hole is to be drilled **10"** from the left edge of range and **4 $\frac{1}{4}$ "** from the top edge.
- The second hole is to be drilled **11 $\frac{3}{8}$ "** from the left edge of the range and **5 $\frac{3}{4}$ "** from the top edge.



- Install Electrical Box using two short sheet metal screws.



7) Drill Hole in 8" long, 3/4" Pipe (G01738-22)

- A hole must be drilled along the length of this pipe to accommodate a 1/8" fitting in later steps.
- The hole is to be drilled 4" from one end of the pipe



Modified G01738-22 Pipe

8) Assemble / Install Solenoid Valve and Piping

- Parts Needed:
 - 1 x Solenoid Valve (no part number available)
 - 1 x G01475-2 – 90 degree Street Elbow , 3/4" NPT
 - 1 x Modified G01739-22 – See Step 7.
 - 1 x 076050-80 – 1/4" Elbow Compression Fitting
- Assemble the valve **exactly** as shown below:
 - Ensure that the elbow fitting is installed on the "OUT" end of the valve.
 - The hole in the pipe should face in the same direction as the outlet of the elbow pipe before the elbow fitting is installed.
- Install the elbow end of the assembly onto the main gas inlet at the back of the range, with the solenoid valve upwards.



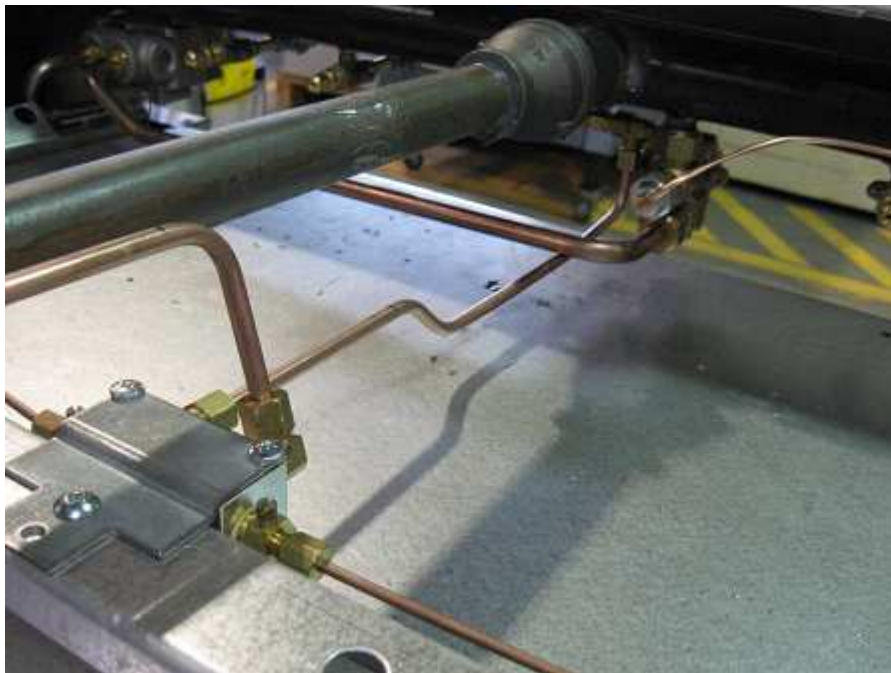
Installation of Solenoid Valve and Piping

9) Bend 2 Pieces of ¼" Tubing for Pilot Block Connections.

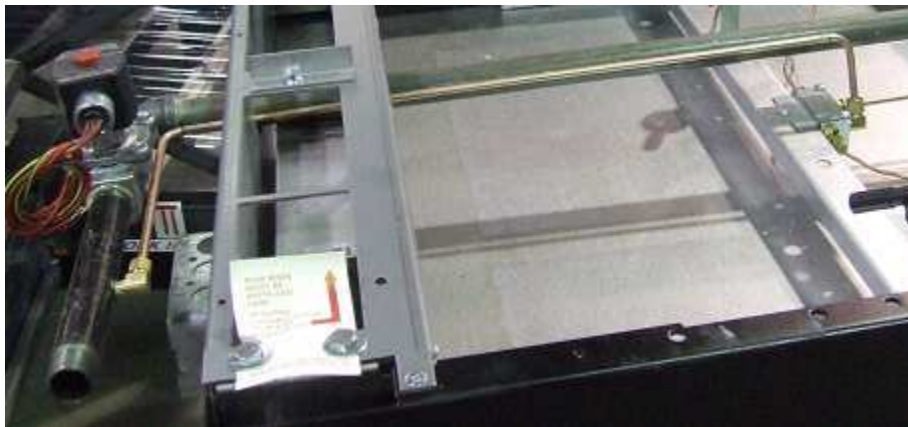
- Please see attached diagrams for dimensions of tubing

10) Attach Tubing to Pilot Block; Screw Down Pilot Block

- Parts needed:
 - 1 x ¼" Tubing, Manifold to Pilot Block
 - 1 x ¼" Tubing, Pilot Block to Solenoid Pipe
 - 1 x F60 – Sheet Metal Screw
- Proper connections to the pilot block can be referenced to the picture in Step 2 and to the following pictures.
- Ensure the proper fittings from the ferrules are attached to the tubing during installation.
 - The elbow fitting on the pilot block may be tilted to accommodate the ¼" tubing.
- Screw down pilot block to drilled hole (Step 3) using sheet metal screw.



¼" Tubing Connecting Fitting on Valve to Pilot Block



¼" Tubing Connecting Elbow Fitting on Pipe to Pilot Block

11) Modify BX Connector (G01497-1)

- The tabs on the end of the BX connector must be filed off in order to install it into the solenoid valve.
- Two BX connectors are used in this unit. Only one of them needs to be modified.



Before / After Comparison of modified BX Connector

12) Install Wiring Protection / Connection to Electrical Box

- Parts needed:
 - 1 x Modified G01497-14 – BX Connector (See Step 11)
 - 1 x G01497-14 – BX Connector
 - 1 x 1029400 - 10" BX Cable
 - 2 x Antishorts
- Remove the ring on the threads of the modified BX connector. Thread the wires through the connector and screw the connector into the solenoid valve.



Modified BX Connector to Solenoid Valve

- Thread the wires through the BX cable and install antishorts on both ends.



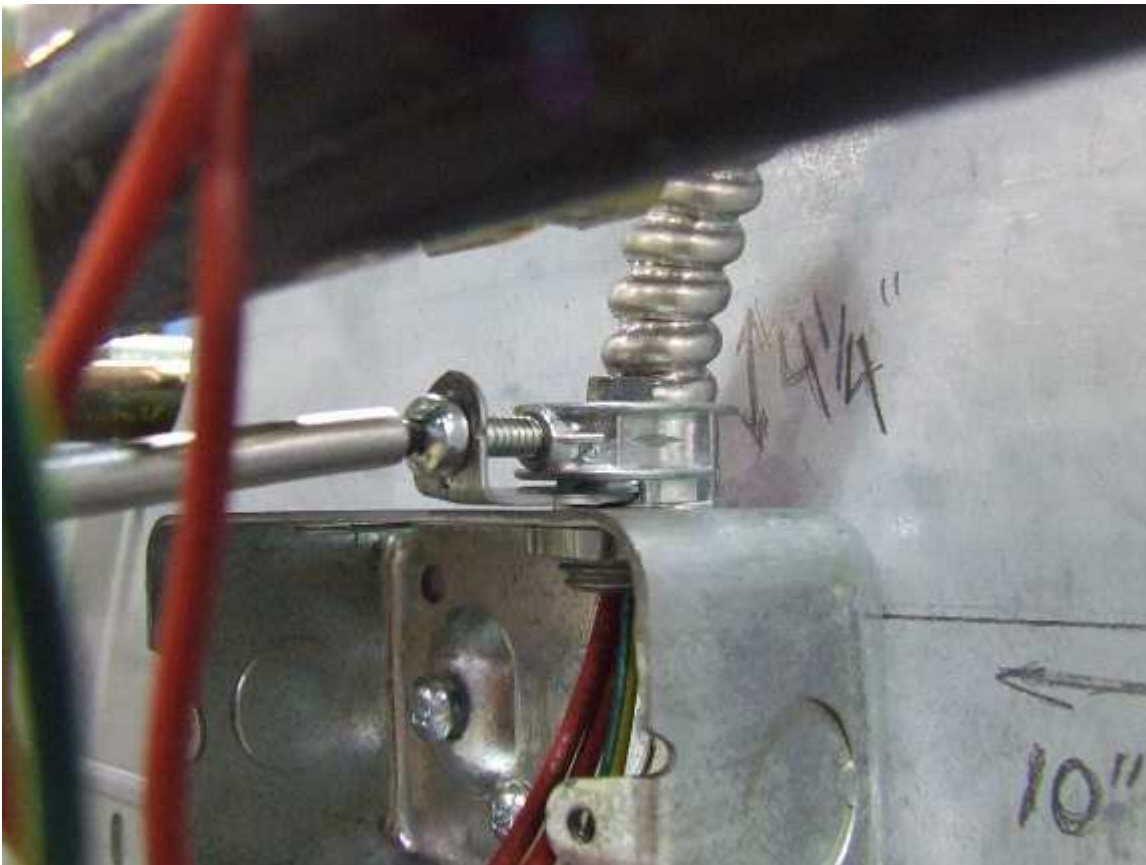
BX Cable with Antishort

- Insert the sheath along with the antishort into the Modified BX Connector and tighten the screw.
- Remove the circular tab on the electrical box closest to the elbow fitting. Install the unmodified BX Connector through this hole.



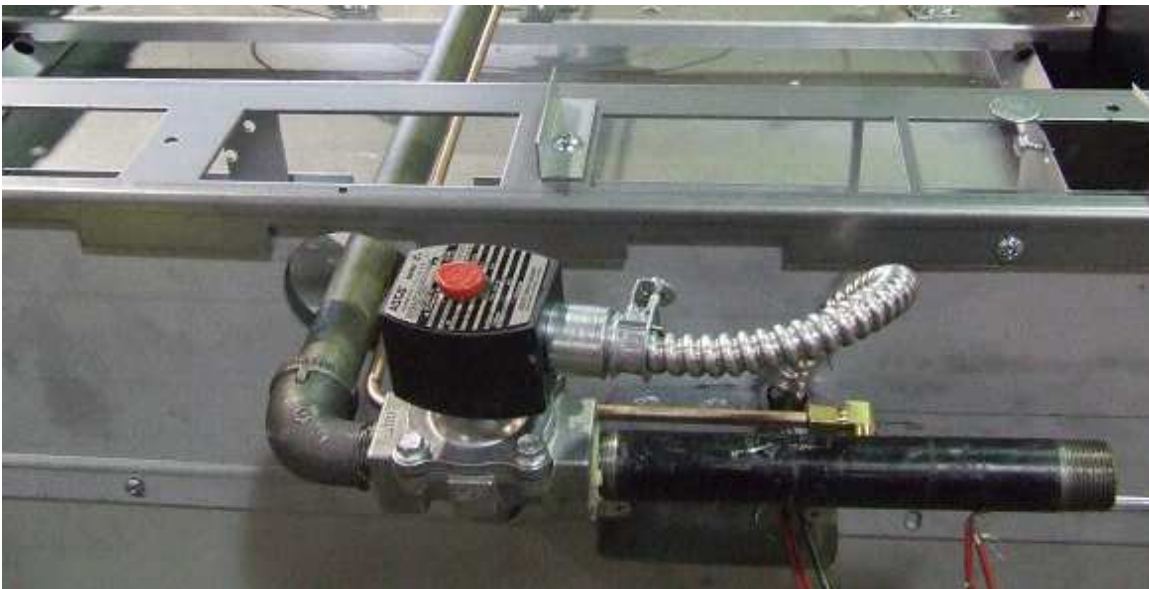
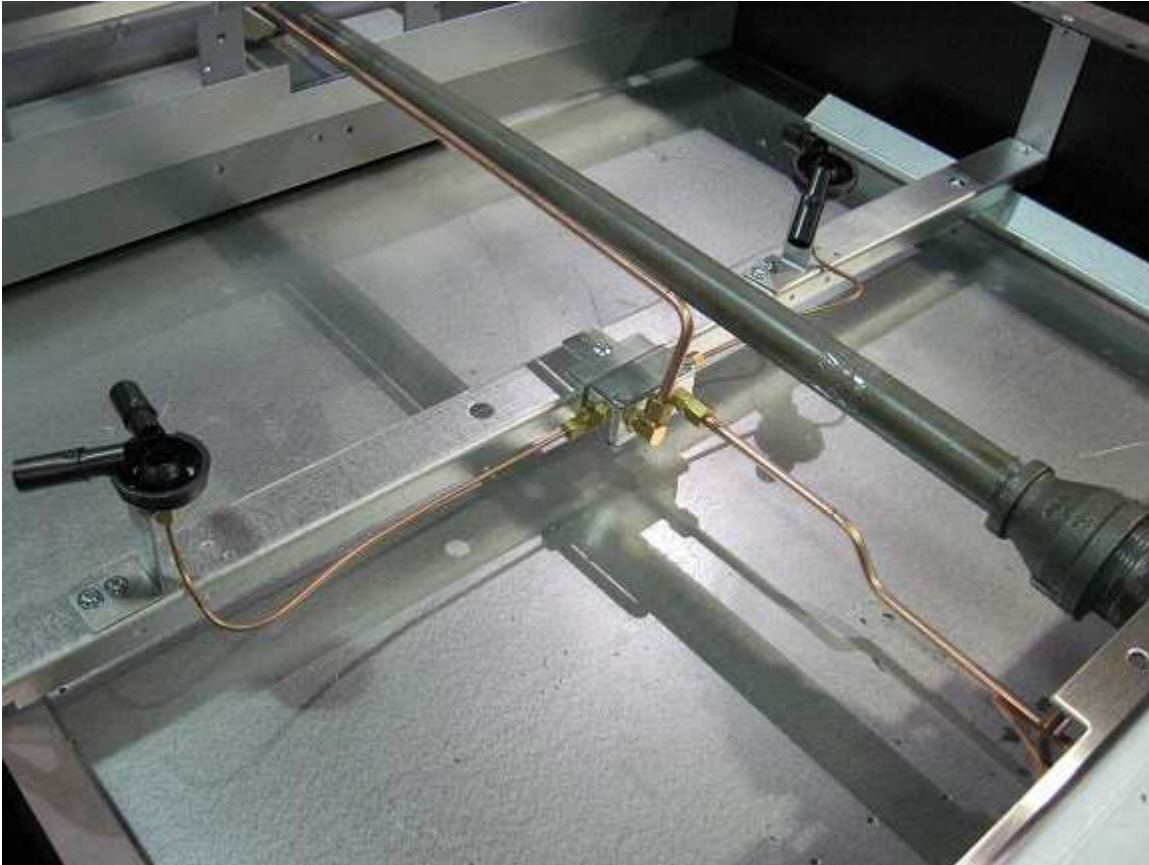
Left: Removal of Circular Tab
Right: Installation of Unmodified BX Connector

- Ensuring that the antishort is still in place on the free end of the wire, thread the wire and the BX Cable through the BX connector and tighten the screw.



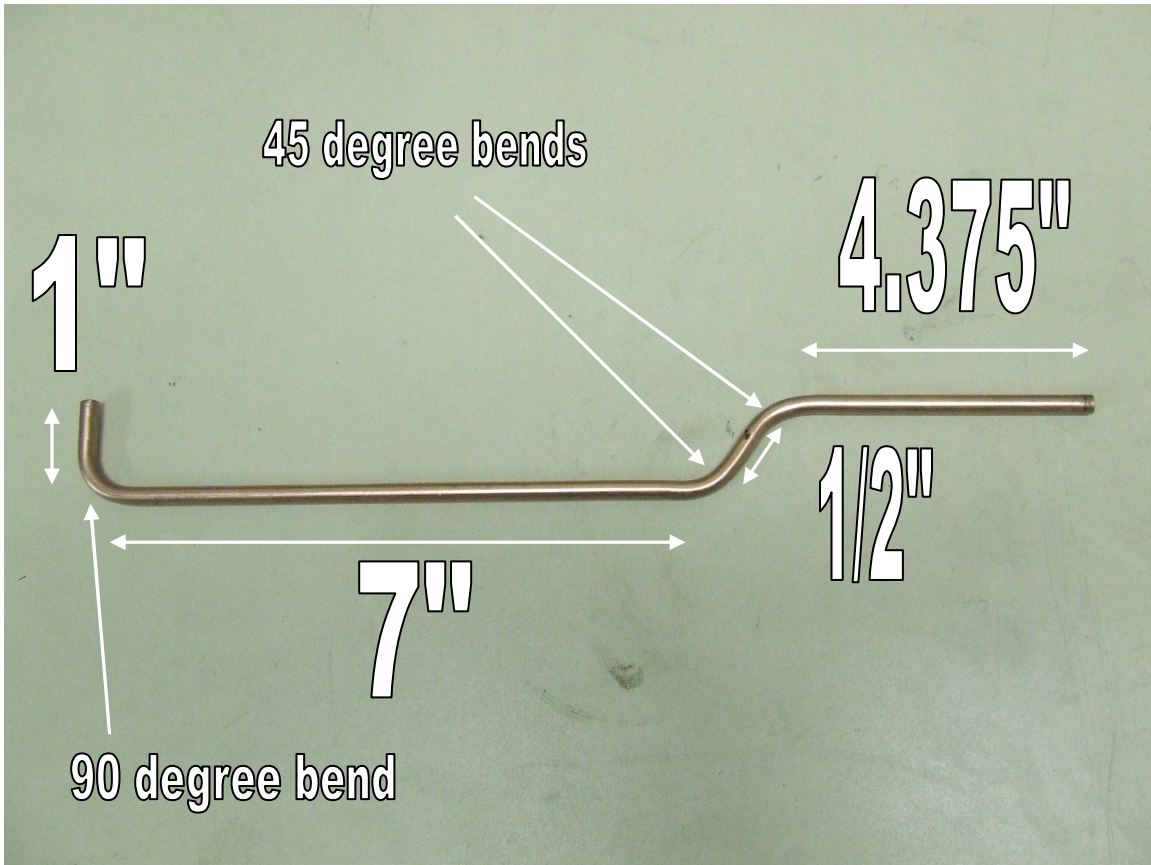
Tightening screw on unmodified BX Connector

INSTALLATION COMPLETE

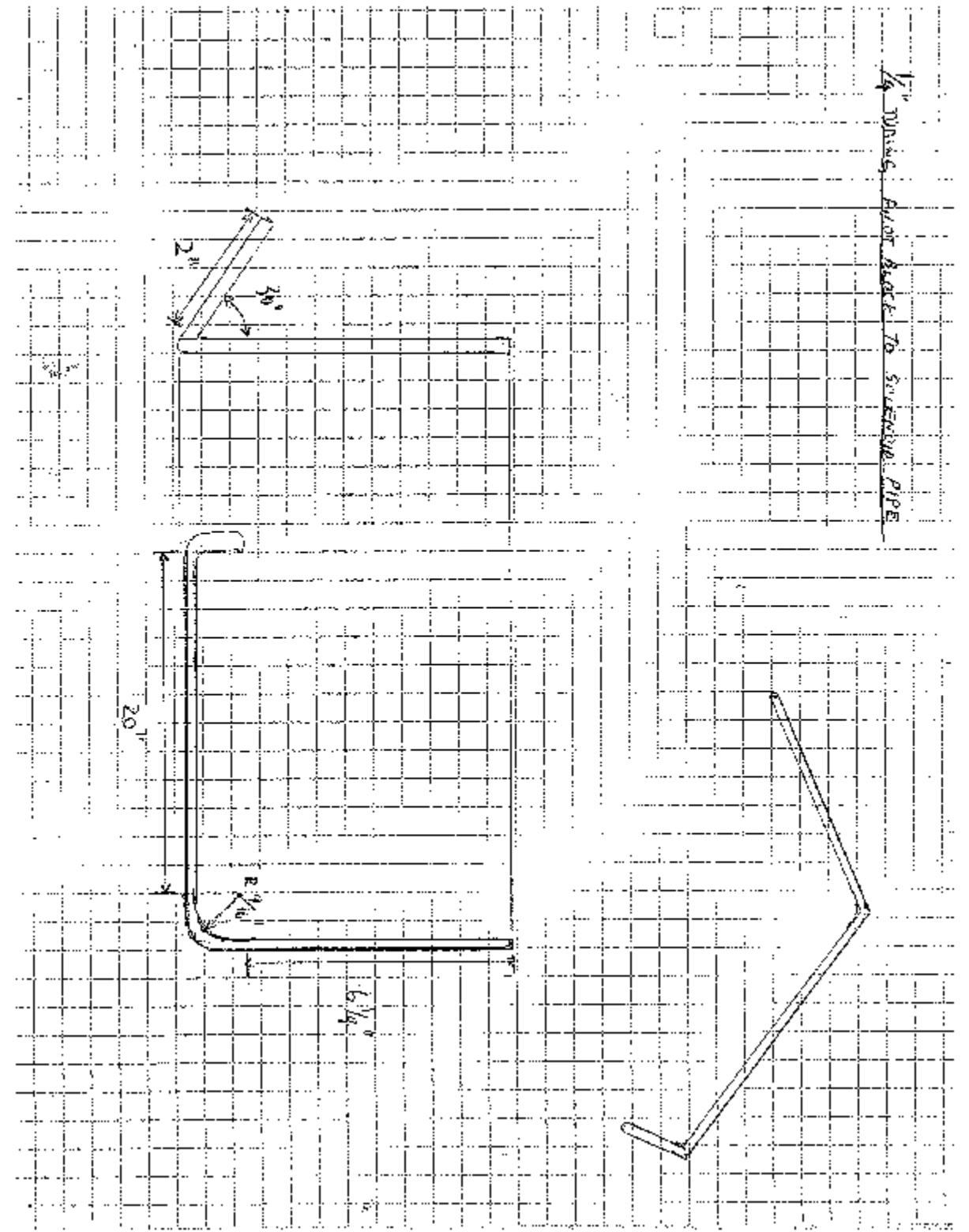


Step 9: Tubing Dimensions

1/4" Tubing, Manifold to Pilot Block



1/4" Tubing, Pilot Block to Solenoid Pipe



Parent Item/BOM Code: 4502853

NEW YORK SCHOOLS

EA

As Of: 09/04/08 Levels: 3

Rev:

PCO Number:

ID:

Database:

Output: gcisvcpl

Level	Component Item	Description	UM	Qty	Per	Ph	T	Iss
Parent	4502853	NEW YORK SCHOOLS	EA					
1	076050-14	1/4T X 1/8M COMP. FIT. #D68-4A	EA		1.0			
1	076050-80	ELBOW COMP. 1/4T X 1/8P #69-4A	EA		2.0			
1	1029400	BX CABLE 3/8IN	MT		0.212			
1	1029600	ANTISHORTS #1	EA		2.0			
1	1772001	SOLENOID VALVE FOR NYC SCHOOLS	EA		1.0			
1	2203400	CNT.SUNK STL.HEX PLUG 1/8INNPT	EA		2.0			
1	2392500	PILOT BLOCK BRACKET	EA		1.0			
.2	GS4692	14 GA. GALVANIZED	SF	0.0406	333			
1	2393600	PILOT BLOCK	EA		1.0			
1	4522878	TUBE 1/4 - MANIFOLD-TO- PILOT BLOCK - M44 NY	EA		1.0			
.2	GM320	1/4IN OD .028W CEW STEEL TUBE	FT		1.137			
1	4522879	TUBE 1/4 - PILOT BLOCK - TO - PIPE w VALVE M44 NY	EA		1.0			
.2	GM320	1/4IN OD .028W CEW STEEL TUBE	FT		2.502			
1	4522912	ELECTRIC BOX AND SOLID COVER	EA		1.0			
1	4522913	INSTALLATION INSTRUCTION	EA		1.0	yes		no
1	4522915	BX Connector Tabs removed	EA		1.0	yes		no
.2	G01497-1	BX CONNECTOR STRAIGHT 3/8IN.	EA		1.0			
1	F308	10-24 x 1.250in.RD HD. ROBINSON SCR.ZINC PLATED	EA		2.0			no
1	F312	LOCK NUT-10-24 K-LOCK STEEL	EA		2.0			no
1	G01497-1	BX CONNECTOR STRAIGHT 3/8IN.	EA		1.0			
1	G01738-24	NIPPLE 3/4NPT x 8IN LONG WITH 1/4 NPT HOLE	EA		1.0			
.2	G01738-22	NIPPLE 3/4 X 8.000 (BLACK)	EA		1.0			
1	G01757-1	LIGHTER TUBE TEE 76-4A	EA		1.0			
.2	1050100	LIGHTER TUBE TEE	EA		1.0			