



**GAS LAMP RETROFIT
INSTALLATION INSTRUCTION**

Procedure: 1803-89INST

Revision:
D

Page 1 of 6

1. THIS KIT CONTAINS THE FOLLOWING PARTS AND QUANTITIES

<u>ITEM NO.</u>	<u>QTY.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
1	4	1364-101	WASHER FLAT, #10 S.S.
2	4	1364-102	SCR 10-32 x 3/4 PH PHILLIPS S.S.
3	4	1366-102	NUT 10-32 HEX S.S.
4	1	1470-23	CORDGRIP
5	1	1534-108	CASE ASSEMBLY, GAS LAMP
6	1	1638-94	GROUND WIRE ASSEMBLY
7	1	1809-102	HARNESS MICRO 50N-120 24" W/O LAMP
8	1	1823-108	DSI ELCTD. ASSY S-PROBE GAS LAMP
9	1	1825-07	GAS VALVE 1/8 NPT 2WAY N.C. 120VAC
10	4FT.	1831-03	BULK TRAY CABLE, TYPE TC (VNTC)
11	1	2021-78	MICRO 50N-120-3-5-7-5-5-P00062
12	1	1740-108	GROMMET, PUSH IN
13	1	1366-103	ELBOW 90 DEGREE BRASS 1/8 NPT
14	1	1366-104	NIPPLE 1/8 NPT BRASS 4" LONG
15	1	1366-105	NIPPLE 1/8 NPT BRASS 1/2" LONG
16	1	1364-105	BUSHING, ANTI- SHORT, 7/16", PLASTIC

Approved by & date: M.HARE 4/19/2013	Approved by & date: S.HUSSELL 4/19/2013	Approved by & date: N/A	Approved by & date: N/A
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Originated by: Robert Warrene	Original issue date: 4/1/2013
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Effective Date	Description of Change
5/8/2013	REVISED PER CP23627

GAS LAMP RETROFIT INSTALLATION INSTRUCTION		
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Procedure: 1803-89INST	Revision: D	Page 2 of 6
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2. PURPOSE

The purpose of this instruction is for customer use.

FOR OUTDOOR USE AND INSTALLATION ONLY

3. SCOPE

This instruction applies to 1803-89, KIT, GAS LAMP RETROFIT

4. INSTALLATION INSTRUCTION:

**ALL STEPS SHOULD BE PERFORMED BY A LICENSED PLUMBER.
PLUMBERS TAPE OR THREAD SEALANT SHOULD BE USED ON ALL
THREADED GAS FITTINGS.**

- 4.1. Make sure the gas supply line to the lamp is shut-off. Proceed to disconnect the gas line from the lamp and remove the 90° elbow from the valve. Now you are able to remove the lamp from its holder.
- 4.2. Remove one of the plastic nuts from the cord grip (#4) and insert the threaded end of the cord grip into the box securing it with the plastic nut you removed. Next, place the rubber grommet (#12) in the hole directly above the cord grip. Now attach the black box (#5) to the bottom of the lamp using the 10-32 screws(#2) provided. Make sure the holes on the side of the box face the back of the lamp. Insert the screws from inside the box going into the bottom of the lamp.
- 4.3. Secure the box to the bottom of the lamp with the washer (#1) and nut (#3) provided. Next using a 7/16" drill bit, locate the 1/2" hole inside the box and drill through the bottom of the lamp. After drilling your hole insert the anti-short bushing (#16) so you can feed your wires through at a later time.

Effective Date	Description of Change
5/8/2013	REVISED PER CP23627

GAS LAMP RETROFIT INSTALLATION INSTRUCTION		
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Procedure: 1803-89INST	Revision: D	Page 3 of 6
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- 4.4. First, remove the pedestal from the bottom of the manual valve. This will leave you a male thread to attach the solenoid valve. Now attach the solenoid valve to the manual valve, which will be placed back inside the lamp. (Note: On the solenoid valve the end with the #2 is the out flow and should be connected to the manual valve.)
- 4.5. Use the 1/2" long 1/8" threaded nipple (#15) and connect it to the solenoid valve (#9). You can now place the valve assembly back into the lamp with the nipple going into the box.
- 4.6. Using the brass washer and 90° elbow (#13), place the recessed side of the washer against the lamp, over the threaded nipple. Attach the 90° elbow to the nipple lining it up with the hole above the cord grip.
- 4.7. Using the 4" nipple (#14) provided insert the nipple through the hole above the cord grip and connect it to the 90° elbow. You should have approx. 1.5" of the nipple exposed outside the box. Now place the lamp back in its holder and reconnect the gas line to the rod.
- 4.8. Remove the orifice from the manual valve in the lamp. Align the mounting hole located on the electrode mounting plate (#8) with the hole of the manual valve and screw the orifice back onto the manual valve. (Note: Position the electrode so it is behind the orifice so it does not hang over the manual valve control.)
- 4.9. Using the green wire (#6), screw and nut provided, connect the green wire to the electrode plate inside the lamp. Then, feed the ground wire, solenoid wires, and the electrodes wire in to the box through the hole in the bottom of the lamp.
- 5. ELECTRICAL CONNECTIONS: ALL STEPS SHOULD BE PERFORMED BY A LICENSED ELECTRICIAN**
- 5.1. Refer to the Gas Lamp Retrofit Installation Instruction for the wiring diagram.

Effective Date	Description of Change
5/8/2013	REVISED PER CP23627

GAS LAMP RETROFIT INSTALLATION INSTRUCTION

Procedure: 1803-89INST

Revision:
D

Page 4 of 6

- 5.2. At this point you should have four wires fed into the black box. Grab the wire harness (#7) provided. There should be five wires to the harness: green, red, white, blue, and white. **(Note: The white wires on the harness are internally connected.)**
- 5.3. First, connect one of your solenoid leads to the red wire and the other lead to the white wire, directly next to the red wire.
- 5.4. The blue wire on the harness is for the 120V (black) line coming from the house. The house wires are to be connected to the tray cable (#10) provided. The black wire in the tray cable is connected to the black wire from the house and the other end of the black wire in the tray cable is connected to the blue wire of the harness.
- 5.5. You should now have only two (2) free wires left on the harness. The green wire and the remaining white wire. **(Both are located on the ends of the harness.)**
- 5.6. Take the green wire that you fed into the box earlier, the green wire from the harness, and the red wire from the tray cable and connect all together with a wire nut. The other end of the red wire will be connected to the ground coming from the house. Make sure to mark the red wire with green tape.
- 5.7. Take the remaining white wire from the harness and connect it to the blue wire in the tray cable. Make sure to mark the blue wire with white tape.
- 5.8. Now feed the tray cable through the cord grip back to the junction box.
- 5.9. Connect the black wire from the tray cable to the black wire (120V) in the junction box.
- 5.10. Connect the blue wire from the tray cable to the white wire (neutral) in the junction box.
- 5.11. Connect the red wire from the tray cable to the bare copper/green wire (ground) in the junction box.

Effective Date	Description of Change
5/8/2013	REVISED PER CP23627

GAS LAMP RETROFIT INSTALLATION INSTRUCTION

Procedure: 1803-89INST

Revision: D

Page 5 of 6

- 5.12. Connect the electrode wire (that you fed into the box) to the coil on the controller.
- 5.13. Connect the harness (#7) to the controller (#11). Press firmly.
- 5.14. When all wiring connections are complete, you will place the controller in to the black box and secure the lid with 10-32 screws provided.

IMPORTANT

The manual valve control should **not** be turned past the two o'clock position. Turn the manual valve control all the way to the right. Then, depress the valve control and turn to the left to the two o'clock position. (1/8 turn)

Effective Date	Description of Change
5/8/2013	REVISED PER CP23627

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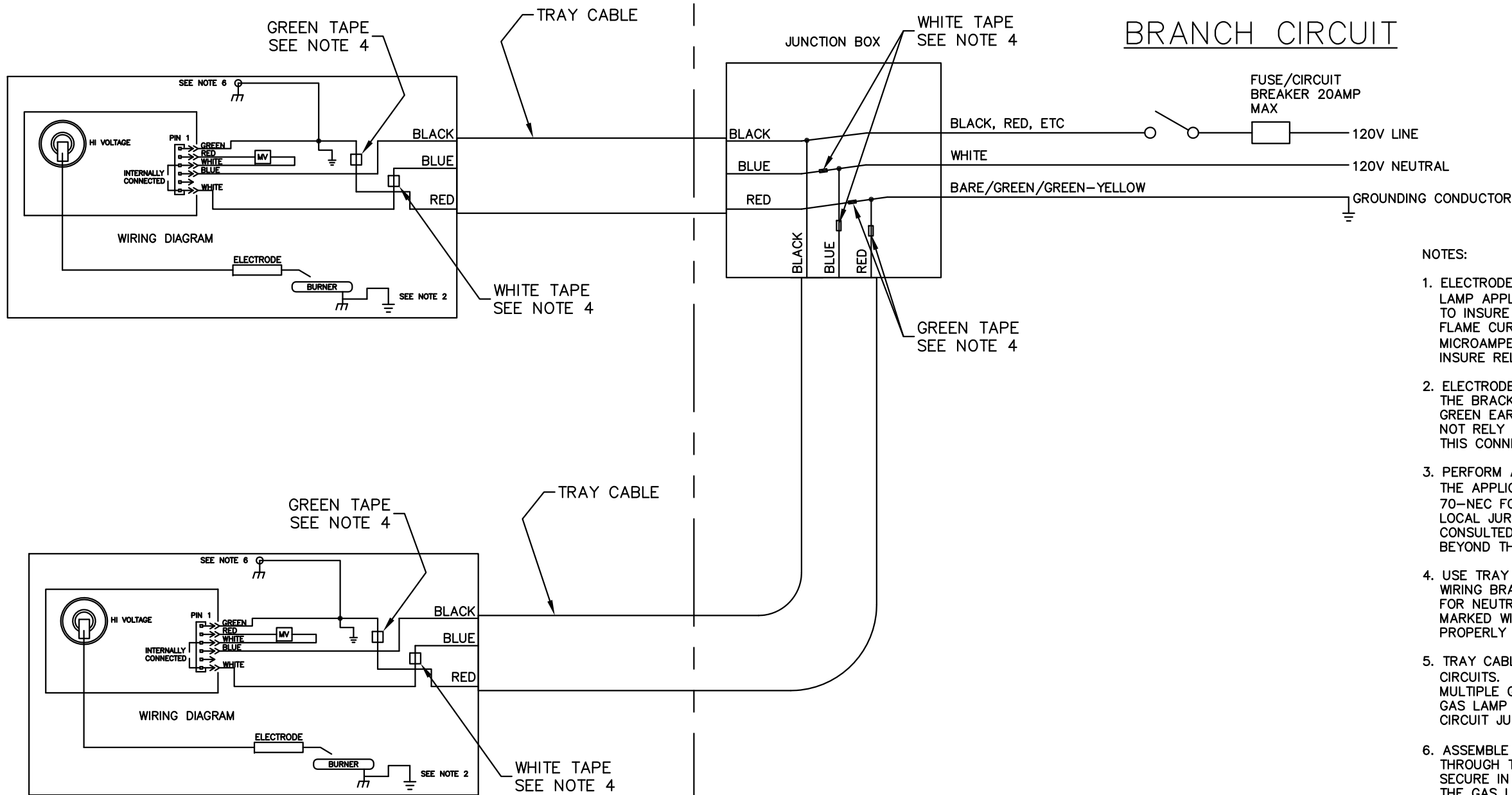
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REVISION			
REV	DESCRIPTION	DATE	APPROVED
C	CP23614, RENAMED TO SHT 5 OF 5, CORRECTED PG. 1-4.	5/1/13	MEH
D	CP23627, RENAMED, SHT 6 OF 6.	05/8/13	SMK

FIXTURES

PREMISE WIRING

BRANCH CIRCUIT



- NOTES:
- ELECTRODE MUST BE IMMERSED IN FLAME. LOW BTU GAS LAMP APPLIANCE FLAMES SHOULD BE 1.5" HIGH MINIMUM TO INSURE CONTROL CAN RELIABLY SENSE THE FLAME. FLAME CURRENT SHOULD BE VERIFIED TO BE 0.7 MICROAMPERES (uA) OR GREATER IN THE APPLIANCE TO INSURE RELIABLE FLAME DETECTION.
 - ELECTRODE GROUND RODS ARE WELDED TO THE BRACKET. THE BRACKET MUST BE ELECTRICALLY CONNECTED TO THE GREEN EARTH GROUND WIRE HARNESS CONNECTION. DO NOT RELY ON APPLIANCE GAS PLUMBING TO MAINTAIN THIS CONNECTION.
 - PERFORM ALL APPLIANCE WIRING IN ACCORDANCE WITH THE APPLICABLE NATIONAL ELECTRIC CODES (NFPA 70-NEC FOR US AND CSA C22.1-CE FOR CANADA). LOCAL JURISDICTION BUILDING CODES SHOULD ALSO BE CONSULTED FOR ADDITIONAL OR VARIED REQUIREMENTS BEYOND THE APPLICABLE NATIONAL ELECTRIC CODE.
 - USE TRAY CABLE TO CONNECT GAS LAMP TO PREMISE WIRING BRANCH CIRCUIT. TRAY CABLE WIRE TERMINATIONS FOR NEUTRAL AND GROUNDING CONDUCTOR MUST BE MARKED WITH WHITE & GREEN ELECTRICAL TAPE TO PROPERLY IDENTIFY CONNECTIONS.
 - TRAY CABLE IS NOT A WIRING METHOD FOR BRANCH CIRCUITS. IT IS NOT APPROVED TO "DAISY CHAIN" MULTIPLE GAS LAMPS BACK TO THE JUNCTION BOX. EACH GAS LAMP TRAY CABLE MUST CONNECT TO THE BRANCH CIRCUIT JUNCTION BOX.
 - ASSEMBLE (1) OF THE 10-32 MOUNTING SCREWS THROUGH THE GREEN GROUNDING WIRE RING TERMINAL. SECURE IN PLACE WHEN ATTACHING THE PLASTIC CASE TO THE GAS LAMP FIXTURE. INSURE A SOLID ELECTRICAL BOND EXISTS. CONNECT OTHER END OF GREEN GROUNDING WIRE TO INCOMING TRAY CABLE GROUNDING WIRE AND GREEN WIRE FROM CONTROL HARNESS.

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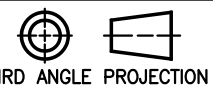
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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

TOLERANCES ARE:
 DECIMALS ANGLES FINISH
 .XX= 32 ✓
 .XXX=

REMOVE ALL BURRS & BREAK SHARP EDGES .005 TO .015

1803-89	
NEXT ASSY USED ON:	
DWN BY/DATE:	M. HARE 01/11/2012
MATERIAL	
FINISH	

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DWG TITLE
GAS LAMP RETROFIT INSTALLATION INSTRUCTIONS

SIZE B	DWG NO. 1803-89INST	REV D
SCALE NONE	Shop Applied Practice 1824008	SHEET 6 OF 6

4

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1