



**VS SERIES**  
**Portable Incandescent**  
**Hand Lamp**

**SAVE THESE INSTRUCTIONS**  
**FOR FUTURE REFERENCE**

**IF135**

**Installation &**  
**Maintenance Information**

**APPLICATION**

VS Series portable hand lamps are designed to be used in wet, dirty and corrosive locations. They are suitable for use with 120 volt incandescent lamps. The VS20 accepts 75watt and 100 watt A21 lamps.

The VS30 accepts 100 watt A23 lamps. Rough Service lamps are recommended. The VS20 and VS30 are supplied with plain clear globes. If the fixtures might be thermally shocked, heat resisting globes ( V183 and V63 respectively) should be used.

**INSTALLATION**

**WARNING**

Electrical power must be OFF before and during installation and maintenance.

1. Unpack hand lamp handle assembly and remove two screws which mount the lamp receptacle to the handle. Remove the cord gland bushings, metal gland washer and cable clamp which are stored inside handle.

2. Unthread and remove gland nut from handle body.

3. Select cable size large enough to carry the expected current. Three conductor cable with grounding conductor should be used.

4. Remove sufficient outer covering from cable to provide length of individual insulated conductors necessary to make the required connections.

**CAUTION**

Do not cut into the individual conductor insulation when removing the outer jacket.  
 Do not damage the conductor when removing its insulation.

5. Select cord gland bushing for the size of cable being used. See chart below.

<u>BUSHING #</u>	<u>CABLE DIAMETER</u>	
	<u>MINIMUM</u>	<u>MAXIMUM</u>
BUSH92	.125	.250
BUSH93	.250	.375
BUSH94	.375	.500
BUSH05	.500	.625

6. If cable selected has an outside diameter of .375" or larger use clamp assembly as shown in figure 1. If cable selected has an outside diameter less than .375", assemble parts as shown in figure 2.

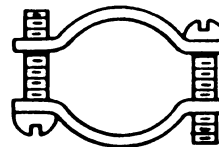


Figure 1

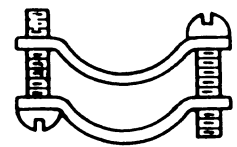


Figure 2

**CAUTION**

Do not use fixture on ungrounded circuits.

7. Slide gland nut, metal gland washer and proper size gland bushing, in that order, over cable. Install cable through handle and slide cable clamps over individual conductors and on to cable. The cable clamp should be positioned approximately 2" from end of lamp receptacle. Affix wires on lamp receptacle and tighten cable clamp. Wire using methods that comply with the NEC and any local standards.

8. Replace two screws in lamp receptacle (removed in Step 1) and tighten securely. Install bushing into handle, slide gland washer against bushing and thread gland nut onto handle body. Tighten gland nut to cause bushing to grip cable firmly and form a moisture seal.

9. Install lamp as noted in APPLICATION Section of the instruction sheet. Make sure correct wattage size and type of lamp is used.

10. Thread globe into handle body and hand tighten. Make sure globe is not scratched or damaged either before or during installation.

11. Install guard over globe and tighten clamp ring securely. Install suitable plug on other end of cable and apply power.

## RELAMPING

1. Shut off power to the fixture.
2. Remove globe and guard for access to the lamp.
3. Replace lamp with an identical type lamp as used previously. Consult Application Section for proper lamps to be used.
4. Replace globe and guard.

### WARNING

Always disconnect primary power source before opening fixture for inspection or service.

## MAINTENANCE

To insure continued lighting performance the globe should be cleaned periodically. The time period between cleanings will depend on local conditions. To clean, wipe globe with a clean damp, soft cloth. If this is not sufficient, use a mild soap or a liquid cleaner such as Collinite NCF or Duco #7.

During cleaning check lamps, screws and threaded parts to make certain they are properly tightened.

### CAUTION

Do not use abrasive, strong alkaline, or acid cleaners. Use only clean soft cloths. Damage to globe may result.

Note: If at any time during installation, use or maintenance a defect in this equipment is suspected discontinue use and contact a Crouse-Hinds representative. Any action to continue use, modify or correct such equipment prior to approval by Crouse-Hinds shall void all warranties, implied and expressed.

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