



# Operational Instruction



**Benron equipment & Supply, Inc.**

**818-787-4455**

**[www.benron.com](http://www.benron.com)**

**[info@benron.com](mailto:info@benron.com)**

**1. Before attempting to use the R2, you must check the manufacturers directions recommendations for the material you plann to spray.**

**Warning:** Do not use solvent base materials.  
It will damage Stator and seals.

**2. Make sure you are completely safe area clear of any chemicals that can cause explosions or fire. Failure to inspect can cause serious injury or death.**

**3. You must use the R2 in a well ventilated area, using the R2 in non ventilated area can result in death.**

#### **4. Before starting engine you must:**

- A. Check fuel level. If refueling is required do not over fill, make sure cap is closed properly and securely.**
  
- B. Check engine oil level. If adding is required refer to Honda engine manual, and check for oil grade recommendations.**



**C. Check air compressor oil level. Oil must be at the top of fill hole, if adding is required use only air compressor synthetic oil.**

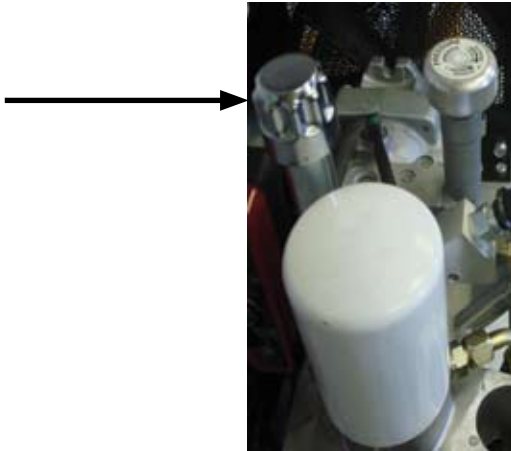
**Note: The upper plug is to add oil.  
The bottom plug is to drain oil.**



**D. Check hydraulic power system oil level.**

**Oil must be at the top line on dipstick,  
if adding is required you must use AW32  
or DTE24 hydraulic oil.**

**Note:** Any other oil type will damage the  
unit and void manufacturer is warranty.

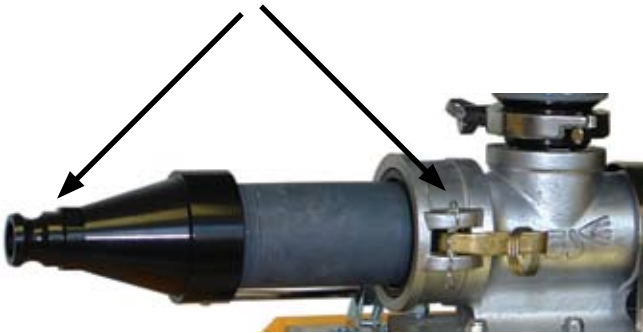


**5. In case you have more then one pump style,  
select the pump you prefer to use, and insert  
it to main block, makeing sure square drive  
inside main block is aligned with rotor  
square hole.**



**6. Lock and secure the stator's special fitting with the safety pins supplied.**

**It's recommended to keep the black fluid fitting only hand tight, it will be easy to remove when cleaning the pump after spraying cement products.**



**7. Mix ½ gallon water with dishwasher detergent like Cascade, making sure water feels a little oily and spill it into hopper.**



**8. Insert tool P/N 19-160 supplied with the R2 into the hole at the back chain cover, and rotate only **CLOCKWISE** until it turns very easy.**

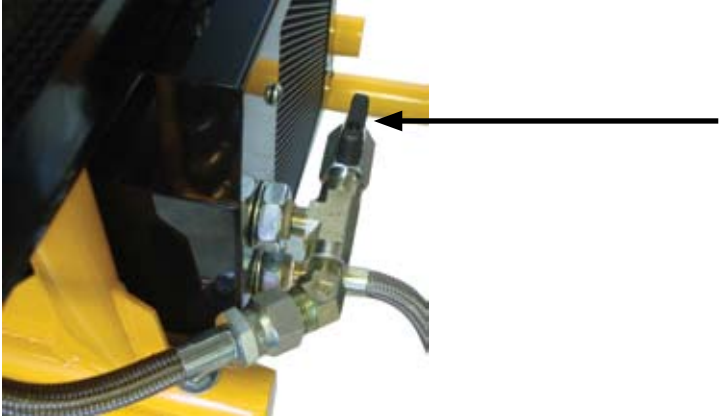
**NOTE: Do not turn COUNTERCLOCKWISE it will disengage the square drive from the rotor. When done remove and place it back.**



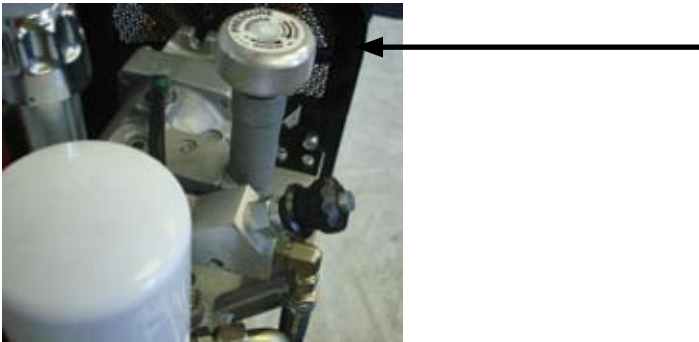
- 9. Connect control cable to unit and to 19-163 ON/OFF switch adapter.**  
**10. Make sure switch is in OFF position push down.**



**11. Open air valve at front of compressor cover, and make sure valve handle is parallel to valve body.**



**12. Turn hydraulic pressure control knob all the way counterclockwise.**



**13. Turn hydraulic speed valve all the way clockwise.**



**14. Start Honda engine referring to engine instruction book supplied with the R2.**

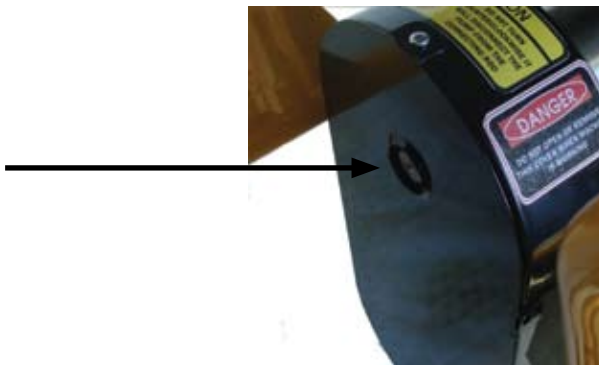
**15. Turn hydraulic pressure knob all the way clockwise.**



**16. Connect control cable and switch.**



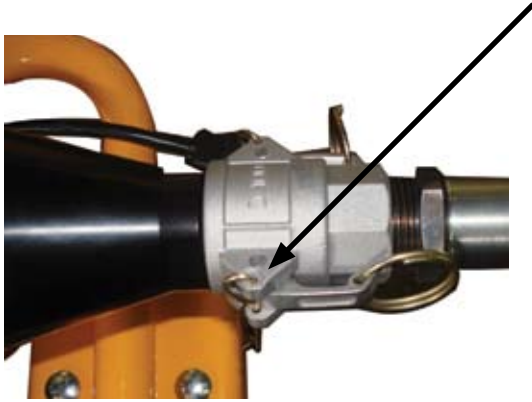
**17. Turn hydraulic speed valve counterclockwise, make sure pump is turning, looking at the back chain cover hole, and check for liquid coming at the front pump fitting.**



**18. Turn pump OFF by pushing the switch P/N 19-163 down.**



**19. Connect material hose to pump fitting, and secure with safety pins.**



**20. Connect air hose into quick air fitting.**



**21. After preparing material to manufacturer's recommendations fill hopper.**

**Note:** We recommend to use Slick-Tex for easy priming.

**If using stucco product, it is highly recommended to add slick-Tex to the material, it will help material to flow easily. Slick-Tex also will save you pump from wear.**

**Note:** We highly recommend that when using polymer-modified cement products, not to fill hopper more than 5 gallons at a time to keep material fresh, and to eliminate material drying in the system.

**22. Turn pump to ON, and while priming the material we recommend that you do it at a slow speed to eliminate material packing up in the material hose.**

**23. Circlet material in to the hopper, and adjust flow rate by turning the hydraulic speed control counterclockwise. When satisfied turn pump OFF.**

**24. Wash the hose quick fitting with water, and connect gun with proper tip to apply materials. ( see quick reference guide )**

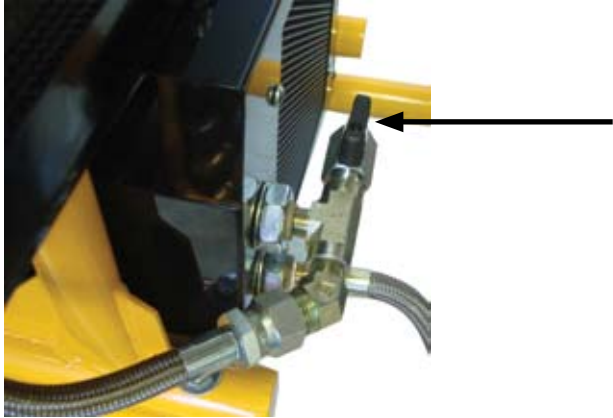
**Note: This is only a start up setting. You may change this setting at any time.**

Tip	Use	Air Flow	Fluid Speed Delivery Setting
1/8î	Fog Finishes Fine Orangepeel	High	Low
3/16î	Orangepeel and Light Splatter Coat	High Low To High	Low To Medium
1/4î	Heavy Splatter Coat Knockdown	Low Low	Low To Medium
5/16î	Heavy Splatter Coat Heavy Knockdown	Low Low	Low To Medium
Pole Gun 3/8î	Heavy Splatter Coat Heavy Knockdown For Applying Stucco Finishes	High	Medium To High

**25. Close air valve at front of compressor cover, and make sure valve handle is perpendicular to valve body.**

**Note:**

**you will hear popping sound from the air safety valve. (It is normal)**



**26. Open air valve P/N 10-110, and turn valve P/N 10-111 on the gun. You must feel air coming out from gun needle at the front of the gun. Trigger gun, and turn switch to ON. If using pole gun, pull air stem about 1.1/2” before applying material to allows flow.**



**27. Spray some material into hopper, and make final adjustments before applying to surfaces.**

### **Adjusting Gun**

**Start spraying with the gun air valve at it's maximum setting.**

**Decrease air flow through gun if necessary, until a good spray pattern is obtained.**

**Opening the air valve to maximum increases air flow through gun and decreases material output.**

**Closing air valve decreases air flow through gun and increases material output.**

**The material (fluid) volume can be decreased by turning the fluid volume regulator knob clockwise or by using a smaller tip.**

**The material (fluid) volume can be increased by turning the fluid volume regulator knob counter-clockwise or by using a larger tip.**

**28. Turn switch OFF, keep triggering the gun for few second to release pressure from hose, to eliminate gun tip from packing up with materials.**

**29. Release trigger or if you use the pole gun's close ball valve, keep steady air flow to make sure no material will back flow into air stem.**

**30. Close air valve at the gun.**

**31. Open the valve next to the cooling radiator.**



**32. Remove gun or pole gun from hose.**

**33. Go to step 22, turn machine ON, and drain all access of material from hopper.**

**When empty turn pump OFF and make sure not to run pump dry, as it may damage the stator.**

**34. Add water with dishwasher detergent to hopper, clean hopper and pump.**

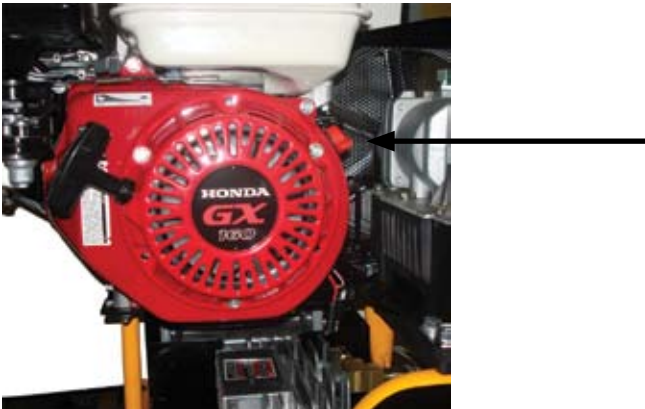
**35. Turn hydraulic pressure control valve counterclockwise.**



**36. Let engine idle for 1 minute allowing the engine to cool off.**



**37. Turn engine OFF, and remove pump from main block.**



**38. Wash hopper and main block with garden hose. Make sure to keep water away from engine and hydraulic power pack.**

- 39. Insert one cleaning ball P/N 15-020 into material hose. Connect garden hose flashing kit P/N 15-078 to water hose, and then connect to quick fitting.**



- 40. Open water and clear material from hose until ball goes through other end of hose.**
- 41. We recommend that you do not install pump until the next job. This will prevent foreign debris from getting into pump and damage pump.**



## **Engine Oil Change Record:**

**Date:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Date:** \_\_\_\_\_

## **Hydraulic Oil Change Record:**

**Date:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Date:** \_\_\_\_\_

## **Air Compressor Oil Change Record:**

**Date:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Date:** \_\_\_\_\_



**3ES** 