



**Gas Appliance Service  
Training and Consulting**  
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**2007**

***Gas Appliance Service  
Training and Consulting***

**Quick Reference  
Troubleshooting Guides  
By Tim McElwain**

- 1 Suggested Truck Stock for Gas Equipment \$5.00
- 2 Procedures for Checking Gas Pressures \$6.00
- 3 Regulators \$5.00
- 4 Air for Combustion (revised 2004) \$10.00
- 5 Gas Vent Sizing \$10.00
- 6 Gas Pipe Sizing (revised 2004) \$6.00
- 7 Carbon Monoxide (revised 2004) \$10.00

- **8 Testing for Cracked Heat Exchangers** **\$10.00**
- **9 Setting up a Forced Warm Air Furnace** **\$5.00**
- **10 Zone Dampers** **\$12.00**
- **11 Thermostats (Operation & Calibration)** **\$6.00**
- **12 Setting & Adjusting Thermostat Anticipator** **\$5.00**
- **13 Troubleshooting Thermocouples (revised)** **\$10.00**
- **14 Procedure for Taking Millivolt Readings  
Powerpile System** **\$6.00**
- **15 Millivolt Charts** **\$5.00**
- **16 Draft Hoods & Barometric Control** **\$5.00**
- **17 Power Vented Equipment (Revised 2004)** **\$15.00**
- **18 Procedures for the Installation of Roof Top  
Equipment** **\$5.00**
- **19 Applied Electricity for Servicing Gas  
Equipment** **\$8.00**
- **20 Troubleshooting Series 80 Controls** **\$5.00**
- **21 Meters & Test Equipment for Servicing  
Gas Equipment** **\$5.00**
- **22 Procedure for Using a Multimeter to  
Checkout a 120 Volt Circuit** **\$5.00**

- **23 Procedure for Checking a 24 Volt System with a Multimeter** **\$5.00**
- **24 Procedure for Finding a Short Circuit** **\$5.00**
- **25 Capacitors** **\$5.00**
- **26 Transformers** **\$5.00**
- **27 Relays** **\$5.00**
- **28 Switching Relays** **\$6.00**
- **29 Aquastat Relays** **\$12.00**
- **30 Zone Valves** **\$12.00**
- **31 Troubleshooting Procedures for Gas Forced Hot Water Systems** **\$5.00**
- **32 Converting Gas Equipment** **\$6.00**
- **33 Gravity Warm Air Furnaces** **\$5.00**
- **34 Procedures for Pre-Heating Season Systems Tune Up** **\$5.00**
- **35 Procedure for Investigation of a High Bill Complaint** **\$6.00**
- **36 Fuel Consumption & Energy Costs** **\$5.00**
- **37 Procedure for Measuring Input to Gas Equipment** **\$6.00**
- **38 Flame Detection** **\$7.00**

- **39 Flame Rectification** **\$7.00**
- **40 Troubleshooting Checkout for all Electric Ignition Systems** **\$7.00**
- **41 Direct Spark Ignition** **\$15.00**
- **42 Universal Controls (revised 2004)** **\$5.00**
- **43 Hot Surface Ignition** **\$7.00**
- **44 White Rodgers Radiant Sense Ignition Controls** **\$8.00**
- **45 White Rodgers Silicon Nitride Igniter (Intel-Igniter)** **\$8.00**
- **46 Vent Dampers** **\$15.00**
- **47 Electronic Fan Timers** **\$8.00**
- **48 Integrated Furnace Controls** **\$15.00**
- **49 White Rodgers Integrated Furnace Controls** **\$8.00**
- **50 Integrated Boiler Controls** **\$7.00**
- **51 United Technology Integrated Boiler Control** **\$8.00**
- **52 SmartValve™ Operation Generation I, II & III** **\$10.00**
- **53 SmartValve™ Generation I & II T'Shtg** **\$10.00**
- **54 SmartValve™ Third Generation** **\$10.00**
- **55 SmartValve™ Generation III Two Stage** **\$10.00**

- **56 Texas Instruments System Integrated  
Furnace Control** **\$5.00**
- **57 Fuel Gases** **\$5.00**
- **58 Gas Valves (New)** **\$15.00**
- **59 Principles of Gas Fired Infrared Heating (New)** **\$5.00**
- **60 Dual Valve Negative Pressure Combination  
Gas Controls (NEW)** **\$10.00**
- **61 Gas Measurements/Energy Costs  
/Conversion Factors** **\$8.00**
- **62 Basic Mechanical and Electrical Controls** **\$10.00**

**BROCHURES** \_\_\_\_\_  
**SHIPPING & HANDLING** **\$10.00** \_\_\_\_\_

**TOTAL** \_\_\_\_\_

**Name** \_\_\_\_\_

**Company** \_\_\_\_\_

**Street** \_\_\_\_\_

**P.O. Box** \_\_\_\_\_

**City** \_\_\_\_\_ **State** \_\_\_\_\_ **Zip** \_\_\_\_\_

**Phone** \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

Area

**FAX Number** \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

**e-mail address** \_\_\_\_\_

**SEND CHECK OR MONEY ORDER TO:**  
**GAS APPLIANCE SERVICE TRAINING AND CONSULTING**  
**22 GRIFFITH DRIVE**  
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