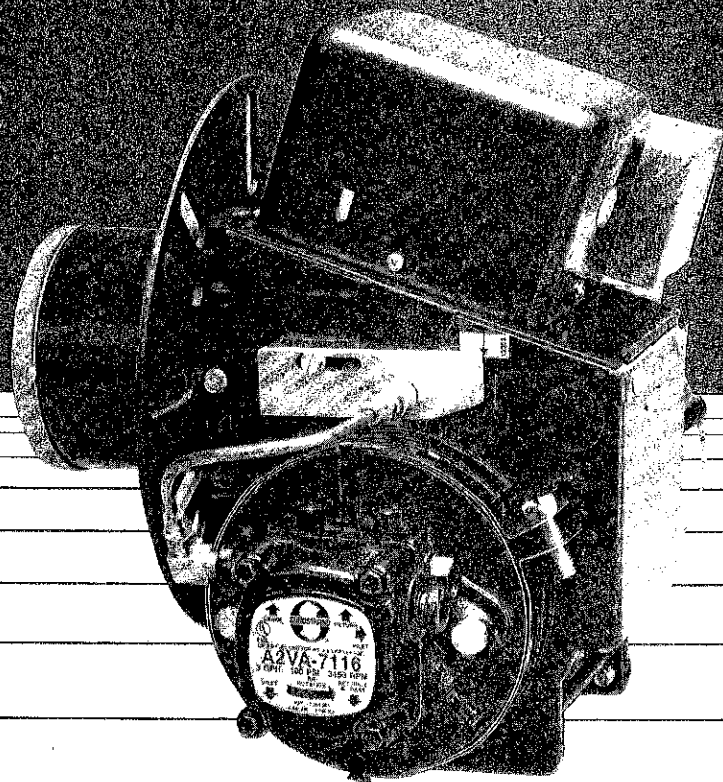
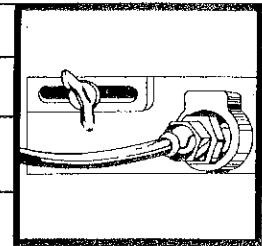


WAYNE

MODEL EG1 MOBILE HOME REPLACEMENT OIL BURNER



EAGLE ONE



Featuring Wayne's New "Track Adjustment" for instant gun adjustment and centering. No tools needed — adjusts with only one thumb screw.

Developed for mobile home replacement market, this Eagle One high speed flamelock oil burner allows quick, three step selection to meet the proper application requirements:

- 1) Order the standard housing package
- 2) Select Miller or Coleman furnace air tube combination
- 3) Select Miller or Coleman furnace mounting flange

These above combinations will fit Miller furnace models CMF80 or CRF80 or Coleman furnace models 8880B701 or 8866B701.

WAYNE HOME EQUIPMENT 801 GLASGOW AVE., FORT WAYNE, IND. 46803

a Scott Fetzer company



WAYNE HOME EQUIPMENT

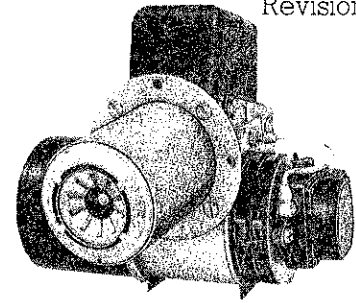
a Scott Fetzer company

801 Glasgow Avenue
Fort Wayne, Indiana 46803

**MODEL
EG-1
OIL
BURNER**

Manual 21755-001

PUBLICATION DATE 08-20-84
Revision 03



SPECIFICATIONS

FIRING CAPACITIES — Model EG-1

.50 to 2.75 GALLONS PER HOUR
70,000 to 350,000 BTU/HR INPUT

FUELS*

Use No. 1 or No. 2 Heating Oil (ASTM D-396) only.

*Never attempt to use gasoline as a fuel for your burner, as it is more combustible and could result in a serious explosion.

ELECTRICAL

Power Supply 115V/60HZ/1PH
Motor 3450 RPM N.E.M.A. Flange, Manual Reset Overload Protection
Ignition 10,000V/23MA Secondary, Continuous Duty-Shielded, Interrupted Duty-Shielded Transformer, or Solid-State Ignition System.

50 HERTZ BURNERS AVAILABLE ON SPECIAL ORDER

FUEL UNIT

Sundstrand or Webster

DIMENSIONS (Standard)

Height 11⁷/₈"
Width 13³/₈"
Depth 6³/₈"

MOUNTING

Rigid flange, Adjustable flange or Base mount.

TO THE HOMEOWNER

Since 1928, Wayne has supplied the Homeowners of the world with oil burners. You are obtaining quality and design unsurpassed with the engineering and product development. It will provide you with many years of efficient, trouble free operation, if properly installed and serviced. Please read this manual carefully.

Wayne warrants its burners specifically to those who have purchased it for resale, including your dealer. If in any case you have a problem with your burner, or its installation, you should contact your dealer for assistance.

Printed in U.S.A.



APPROVALS

The burner is U.L. listed for use with Group I or Group II primary safety controls. State and local approvals are shown on burner rating label. All burners should be installed in accordance with the National Fire Protection Association, and in complete accordance with all local codes and authorities having jurisdiction. Regulations of these authorities take precedence over the general instructions provided in this manual.

GENERAL INFORMATION

HEATING PLANT — Before installing this burner in a conversion installation, try to provide adequate space to service the burner properly when installing for easy maintenance. The heating system should be carefully inspected for defects and cleanliness, if proper performance is to be obtained. An oil burner is only a means of supplying heat for the firebox and from there the heating system must absorb and circulate the heat. The flue passages and heat absorbing surfaces must be clean to assure maximum heat transfer to the furnace or boiler. Soot and fly ash act as insulators, retarding the transfer of heat. All doors, openings, and cracks should be cemented air-tight to eliminate air infiltration into the heating plant, causing heat losses. Inspect smoke pipe and chimney for elimination of leaks and obstructions. Be sure of adequate chimney size and height. Install a mechanical draft adjuster, if need be, same size as smoke pipe (see column under "Draft Regulators").

Warning:

If this burner is equipped with a relight type control it shall not be used on appliances having brick, ceramic, or castable refractory liner for combustion chamber. Hazard may occur on flame failure because the flame detector may see the hot refractory liner and not respond to flame outage, permitting prolonged delivery of oil before ignition is returned for an attempt to relight the burner.

COMBUSTION CHAMBER

The purpose of a combustion chamber is to maintain a high flame temperature, by reflecting the heat back into the flame. A high temperature assures greater combustion efficiency and lower stack losses. An insulating refractory or a Fiber Fax type chamber can be used with this burner. It is important to select and install, if necessary, the correct size chamber on a conversion job (see chart). On the flamelock conversion burners the atomized oil burns just off the flamelock. On all oil burners the atomized oil must not touch the sides or bottom of chamber, or smoke will result. To eliminate the smoke, excess air will be required, resulting in high stack temperature and lower combustion efficiency. Install burner so the face of air cone of burner is set $\frac{1}{4}$ " behind the inside front wall of the chamber (see diagram). Caution on installing Flamelock burners in stainless steel chambers should be taken, because of the higher temperature levels produced by high performance flame retention burners. The temperature may exceed the temperature ratings of the stainless steel chamber, and can result in chamber burn outs. When you are replacing a standard burner with a flame retention burner, take the following precautions: (1) Use pliable combustion chamber to line the inside of chamber, (2) Adjust burner (See "Final Adjustments" Column).

FUEL UNITS AND OIL LINES

Conversion Burners are provided with a single stage 3450 RPM fuel units with the by-pass plug removed for single pipe installations. This is satisfactory where the fuel supply is on the same level, or above burner, permitting gravity flow of oil. Never exceed 3 PSI pressure to the suction side of fuel unit. A pressure over 8 PSI may cause damage to the shaft seal and allow it to leak oil. When it is necessary to lift the oil to the burner, a return line should be run between fuel unit and oil supply. (If lift exceeds 10 feet, a two stage fuel unit must be used with a return line.) When a two line is used, the by-pass plug must be installed. This is supplied along with the burner attached to fuel unit, along with an information pump data sheet in a plastic bag. When oil lines are installed, continuous runs of heavy wall copper tubing is recommended. Be sure that all connections are absolutely air-tight. Check all connections and joints. Flared fittings are recommended. Do not use compression fittings. See pump data sheet for sizing, lift and length for tubing recommendations. Use an oil filter of adequate size for all installations. Install inside the building between the tank shutoff valve and the burner. For ease of servicing, locate the shutoff valve and filter near the burner.

TANKS AND PIPING

Local codes and regulations must be adhered to regarding tank and burner installation.

WIRING

All wiring must comply with the National Electric Code and local ordinances. Refer to diagram supplied with burner or controls, making sure the burner and controls are wired correctly and that the line switch is properly fused to burner.

AIR SUPPLY FOR COMBUSTION

Do not install in rooms with insufficient air to support combustion. Occasionally it is necessary to install windows or cut holes in a door to these rooms, to obtain sufficient air and to prevent less than atmospheric air pressure in the room. If there is a lack of combustion air in the room, the burner flame will be yellow and formation of soot will occur in the heating unit. In buildings of conventional frame, brick or stone construction without utility rooms, basement windows, or stairs doors, infiltration is normally adequate to provide air for combustion and for operation of the barometric draft control. For installation in an enclosed utility room

without an outside wall, a fresh air opening to the outside with a free cross sectional area of 20 square inches per each gallon per hour firing rate is recommended. For each 1,000 feet above sea level, increase the fresh air opening by at least four (4) per cent. The room should be isolated from any area served by exhaust fans. Do not install an exhaust fan in this room.

CHIMNEY

Follow the recommendations of the heating unit manufacturer. It must be properly designed, of adequate size, and should be above the surrounding objects, tile-lined, with no obstructions, and be in good state of repair. The smoke pipe should set flush with the inside of tile and be cemented in place. All cleanout doors should be sealed.

DRAFT REGULATORS

The use of a draft regulator is recommended and should preferably be mounted in the smoke pipe. Use a draft gauge to adjust to proper opening. When the burner air supply and draft is properly adjusted, the combustion chamber draft will be approximately .01" to .02" WC and the stack draft will be .02" to .04" WC. The larger the installation, the greater the draft will be required at the stack to obtain the .01" to .02" WC at the combustion chamber.

NOZZLES

Use the proper size, type and spray pattern nozzle that heater manufacturers recommend. In some cases of upgrading or conversion installations, the use of 80° Hollow or Solid nozzle are the best to start with.

STARTING PROCEDURE

STARTING BURNER

Be sure main switch is in "off" position, and be sure the thermostat is substantially above room temperature, the oil tank is filled, all valves are open, and controls set for operation. Adjust air supply on burner by loosening lockscrew on outer band, and open partially. Open the inspection door and turn on switch. Prime pump according to the pump manufacturer's recommendations and check pressure. If safety lockout occurs, reset after 1 or 2 minutes. Do not run fuel unit dry for more than 5 minutes. When fire is established make a temporary air adjustment for clean combustion flame, reduce air supply until flame tips appear slightly smoky, then readjust so flame tips are clean looking. Leave inspection door open until chamber is dry. When normal temperatures are reached, close inspection door and adjust draft regulator. (See column under "Draft Regulators").

FINAL ADJUSTMENTS

At this point a final adjustment should be used by the use of a COMBUSTION TEST KIT. After operating 10 minutes to warm up unit, a smoke tester should be used to take a smoke reading. We are wanting no greater than #1 (Shell Bacarach scale), less than a #1 smoke is desired. Some times a new heating unit requires more time than this to burn clean due to the oil film on the new heater unit surfaces. Recheck draft and take a CO₂ reading over the fire and in the stack. If a large differential between CO₂ readings is noted, air leakage is the most common cause (see column under "Heating Plant"). CO₂ readings must all be taken ahead of draft control. The CO₂ measured in the stack should be at least 9% for oil rates 1.00 GPH or below, and be at least 10% for all rates over 1.00 GPH. Unit should be started and stopped several times to assure good operation. Open inspection door, turn off oil valve, and check out safety timing of combustion control. Check operation of limit controls and thermostat. Check for oil leaks. Note: All installations should be reinspected after 1 or 2 weeks of normal operation.

FINAL CHECKS

Be sure air shutter and draft control adjustments are locked, and the controls on heating unit are adjusted in accordance with the heater and Control Manufacturer's Instruction Sheets.

MAINTENANCE

OILING MOTOR — By proper oiling twice a year, the motor life will be increased; only a few drops of non-detergent type oil at both motor holes are needed.

FILTER — The oil filter cartridge should be replaced once a year so the fuel oil will not become contaminated and plug up fuel pump and nozzle of oil burner.

NOZZLE — The nozzle should be changed at least once each year before the start-up of the heating season. Replace with proper nozzle.

COMPONENTS — If for any reason any of the burner parts have to be replaced, always use parts recommended by the manufacturer. Specify part numbers and description when ordering. (IN ALL COMMUNICATIONS STATE BURNER MODEL AND SERIAL NUMBERS).

ELECTRODE SETTINGS — This is very important for reliable ignition of the oil; check these once a year in accordance with the instructions provided in this manual.

FAN & BLOWER HOUSING — This must be kept clean, free of dirt and lint; open transformer to check fan blades from above. Be sure the electric power is off on burner when the transformer is opened up for this inspection.

**EFFICIENCY CHART FOR NO. 2 FUEL OIL
NET STACK TEMP. (degrees F°)**

| | 300° | 350° | 400° | 450° | 500° | 550° | 600° | 650° | 700° | 750° | 800° | 850° | 900° |
|----|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 15 | 87½ | 86½ | 85¼ | 84¼ | 83¼ | 82 | 81 | 79¾ | 78¾ | 77½ | 76½ | 75½ | 74¼ |
| | 87½ | 86¼ | 85 | 84 | 83 | 81¾ | 80¾ | 79¼ | 78½ | 77¼ | 76 | 75 | 73¾ |
| 14 | 87¼ | 86 | 84¾ | 82¾ | 82¾ | 81½ | 80¼ | 79 | 78 | 76¾ | 75½ | 74½ | 73 |
| | 87 | 85¾ | 84½ | 83½ | 82½ | 81¼ | 80 | 78¾ | 77½ | 76¼ | 75¼ | 74 | 72¼ |
| 13 | 86¾ | 85½ | 84¼ | 83¼ | 82 | 80¾ | 79½ | 78¼ | 77 | 75¾ | 74½ | 73½ | 71¾ |
| | 86½ | 85¼ | 84 | 83 | 81½ | 80¼ | 79 | 77¾ | 76½ | 75¼ | 73¾ | 72¾ | 71 |
| 12 | 86¼ | 85 | 83¾ | 82½ | 81¼ | 79¾ | 78½ | 77¼ | 75¾ | 74½ | 73 | 71½ | 70¼ |
| | 86 | 84¾ | 83½ | 82 | 80¾ | 79¼ | 78 | 76½ | 75¼ | 73¾ | 72¼ | 70¾ | 69½ |
| 11 | 85¾ | 84½ | 83 | 81½ | 80¼ | 78¾ | 77¼ | 75¾ | 74½ | 73 | 71½ | 70 | 68½ |
| | 85½ | 84 | 82½ | 81 | 79½ | 78 | 76½ | 75 | 73¾ | 72 | 70½ | 69 | 67½ |
| 10 | 85 | 83½ | 82 | 80½ | 78¾ | 77¼ | 75¾ | 74¼ | 72¾ | 71 | 69½ | 68 | 66¼ |
| | 84½ | 83 | 81½ | 79¾ | 78 | 76½ | 75 | 73¼ | 71¾ | 70 | 68¼ | 66¾ | 65 |
| 9 | 84 | 82¼ | 80¾ | 79 | 77¼ | 75¾ | 74 | 72¼ | 70¾ | 68¾ | 67 | 65¼ | 63½ |
| | 83½ | 81¾ | 80 | 78¼ | 76½ | 74¾ | 73 | 71¼ | 69½ | 67½ | 65½ | 63¾ | 62 |
| 8 | 83 | 81 | 79¼ | 77½ | 75½ | 73¾ | 71¾ | 70 | 68 | 66 | 64 | 62 | 60 |
| | 82¼ | 80¼ | 78½ | 76½ | 74½ | 72½ | 70½ | 68½ | 66½ | 64¼ | 62¼ | 60 | 58 |
| 7 | 81½ | 79½ | 77¼ | 75¼ | 73¼ | 71 | 69 | 67 | 64¾ | 62½ | 60¼ | 57¾ | 55½ |
| | 80¾ | 78½ | 76¼ | 74 | 71¾ | 69½ | 67¼ | 65 | 62¾ | 60¼ | 57¾ | 55½ | 53 |
| 6 | 79¾ | 77¼ | 75 | 72½ | 70 | 67¾ | 65¼ | 62¾ | 60¼ | 57½ | 55 | 52½ | 50 |
| | 78½ | 76 | 73½ | 71 | 68 | 65½ | 63 | 60¼ | 57½ | 54½ | 51¾ | 49 | 46½ |
| 5 | 77¼ | 74½ | 71¾ | 69 | 65¾ | 63 | 60 | 57 | 54 | 51 | 48 | 45½ | 42½ |
| | 75½ | 72½ | 69 | 66¼ | 63 | 60 | 56¾ | 53½ | 50¼ | 47 | 43½ | 40¼ | 36¾ |
| 4 | 73¼ | 69¾ | 66¼ | 62¾ | 59¼ | 55¾ | 52 | 48½ | 45 | 41¼ | 37½ | 33¾ | 30 |

TO CHANGE BURNER RATING

Completely assembled and chassis plan burners are supplied with 0.75-1.00 E8 rating as standard. To convert to other ratings, proceed as follows.

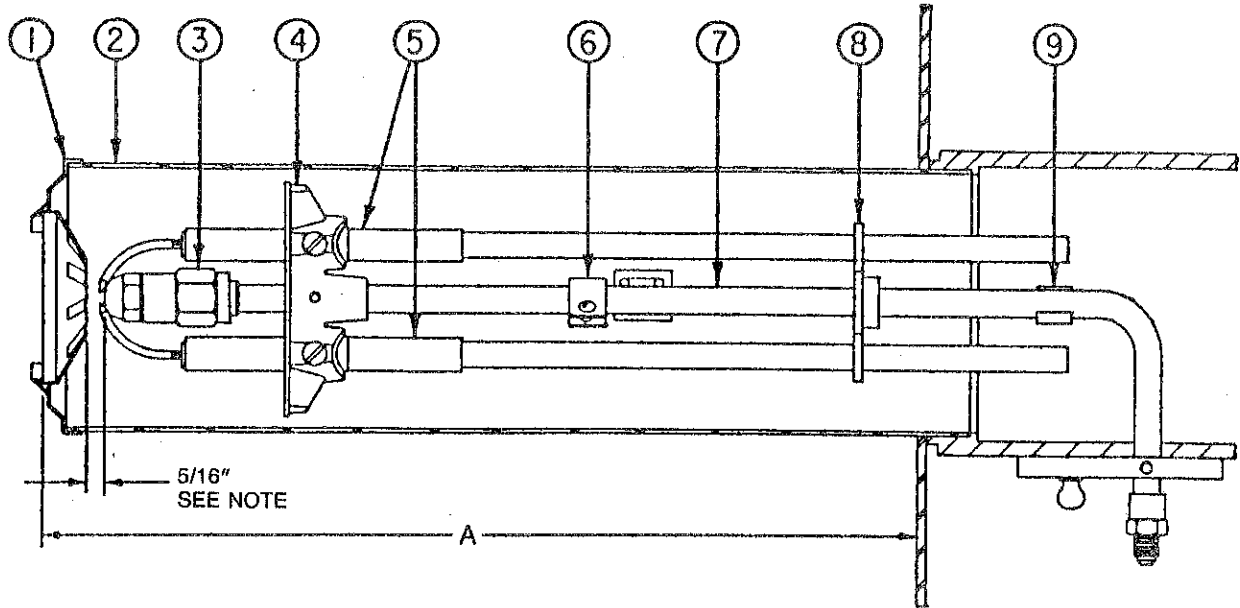
1. Determine input (gph) required and select appropriate rating. See page 7.
2. To change air cone, remove two screws securing existing air cone to air tube and remove air cone. Install desired air cone on air tube and secure with two screws.
3. Before installing gun assembly, check static disc size to determine if it is correct. Standard static disc is 3" O.D. with break away sections for 2½" and 2" O.D.

For E5 rating, use standard 3" O.D. static disc.

For E6 rating, use standard 3" O.D static disc.

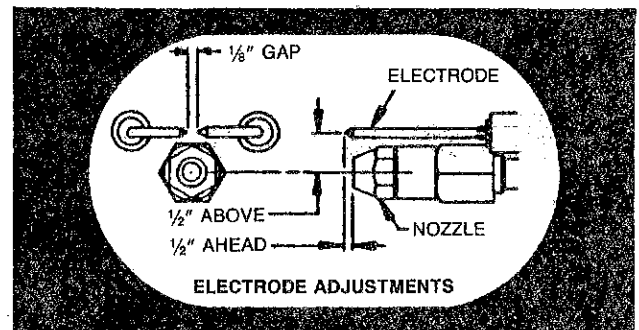
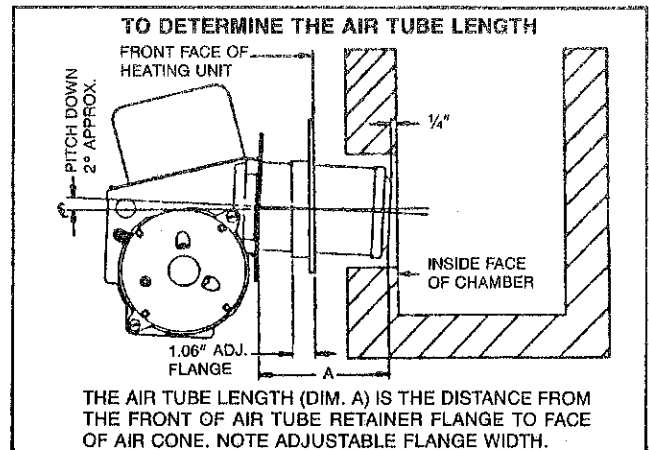
For E7 rating, break off both outer rings to obtain required 2" O.D static disc.

AIR TUBE & GUN ASSEMBLY DETAILS MODEL EG-1



NOTE: BACKSIDE OF FLAMELOCK TO NOZZLE FACE.

| AIR TUBE & GUN ASSY. PARTS | | |
|----------------------------|-------------------------|-----------|
| 1 | HEAD 1 | 14157-001 |
| | HEAD 2 | 14158-002 |
| | HEAD 3 | 14159-003 |
| | HEAD 4 | 14160-004 |
| 2 | AIR TUBE | SEE NOTE |
| 3 | NOZZLE ADAPTER | 12362 |
| 4 | ELECTRODE SUPPORT ASSY. | SEE NOTE |
| 5 | RIGHT ELECTRODE ASSY. | SEE NOTE |
| | LEFT ELECTRODE ASSY. | SEE NOTE |
| 6 | CAD CELL BRACKET | 13078 |
| 7 | OIL PIPE ASSY. | SEE NOTE |
| 8 | BUSS BAR SUPPORT | 13276 |
| 9 | CAD CELL WIRE CLIP | 13083 |



NOTE: WHEN ORDERING STATE BURNER MODEL EG-1, PART DESCRIPTION, AIR TUBE COMBINATION, WHAT USABLE AIR TUBE LENGTH, (DIMENSION A), AND FIRING RATE.

AIR TUBE AND GUN ASSEMBLY PACKAGES

| FIRING RATE | 6" | 9" | 12" | 15" | 18" | HEAD | STATIC DISC | RATING |
|----------------|---|-------|-------|-------|-------|------|-------------|--------|
| .75 thru 1.00 | 31300 | 31301 | 31302 | 31303 | 31304 | 1 | 3" | E8 |
| 1.00 thru 1.50 | Above air tube combinations come with 0.75- | | | | | 2 | 3" | E5 |
| 1.50 thru 2.00 | 1.00 E8 rating. To obtain other ratings, change | | | | | 3 | 3" | E6 |
| 2.00 thru 2.50 | static disc and head. See instructions on page 4. | | | | | 4 | 2" | E7 |

Suggested Nozzles - 80° Solid Cone

ATTACHING AIR TUBE COMBINATIONS FOR CHASSIS PLAN ONLY

When oil burner chassis and air tube combination are packed separately, the burner must be assembled as follows:

- 1— Lay burner chassis on its back as shown at right. Insert air tube into burner chassis lining up the 3 holes in the chassis with the 3 holes in the air tube. Install the 3 screws $\frac{1}{8}$ long and secure.
- 2— Install proper nozzle into gun assembly. Loosen and remove the two screws located on the transformer top plate at the front of the burner chassis and swing open. Slide drawer assembly into air tube (see Fig. 2).
- 3— Once installed, adjust gun assy., either back or forward to position nozzle from head. For correct positioning (see Fig. 3). Secure the slide plate by tightening thumb screw at side of housing. Attach flared nut of Oil Line Assy., (Copper Oil Line) to the end of this adapter fitting as shown.

Install arrow decal as shown so position of Drawer Assy. is always known (see Fig. 4).

Recheck for nozzle centering before burner is installed (see Fig. 1). Make sure electrode tips clear retention head.

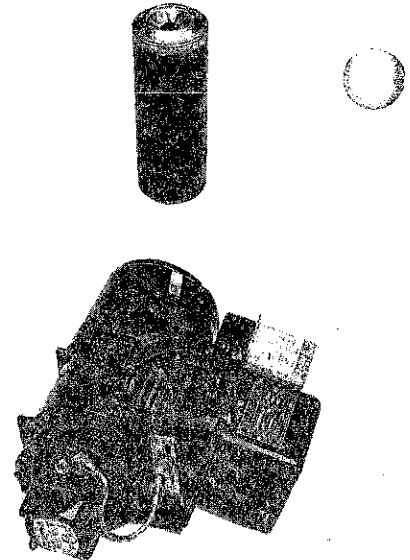
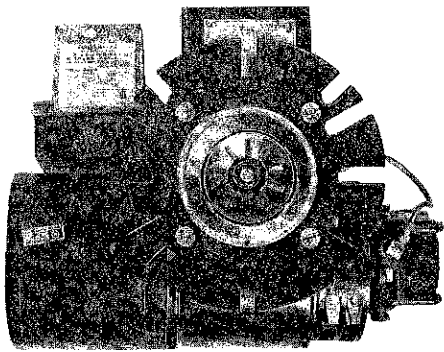
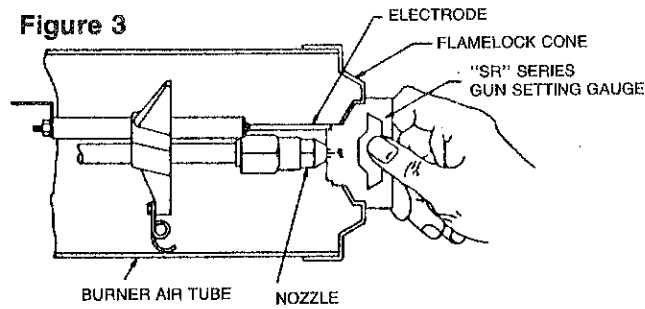


Figure 1



INSERT "SR" SERIES GUN SETTING GAUGE (AS SHOWN BELOW) TO CHECK NOZZLE POSITION AND ELECTRONIC SETTING.

Figure 3



ALL DIM'S AS SHOWN UNLESS OTHERWISE SPECIFIED

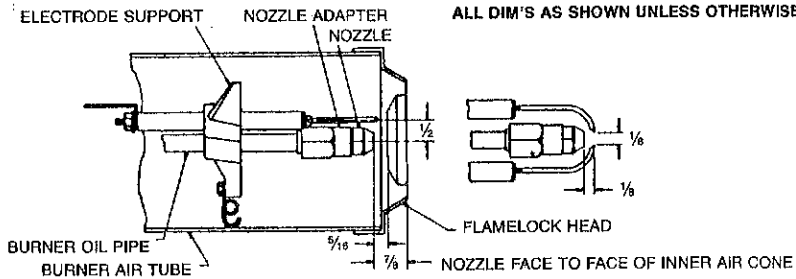


Figure 2

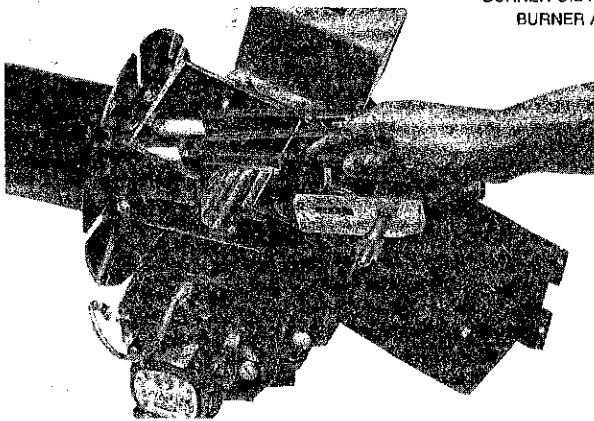
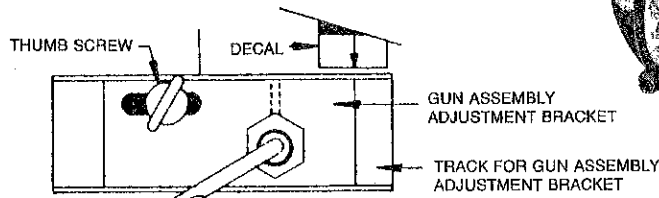
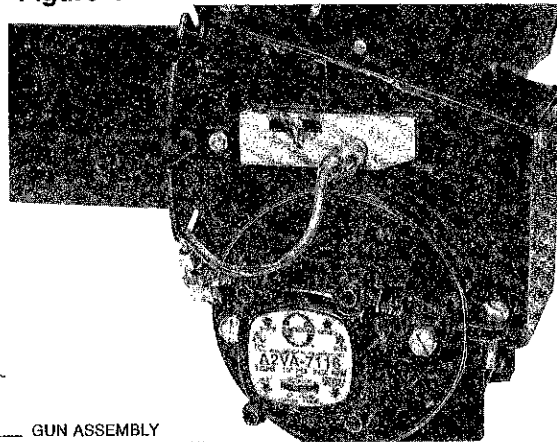
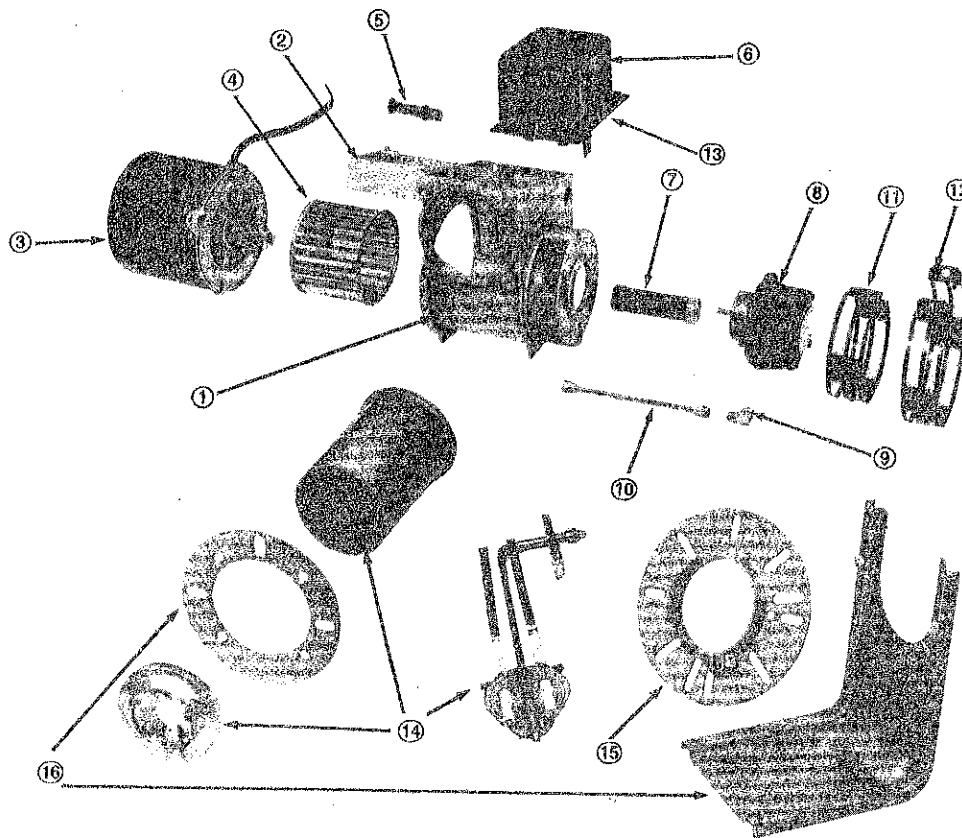


Figure 4



BURNER COMPONENTS MODEL EG-1



STATE BURNER MODEL, PART DESCRIPTION AND PART NUMBER WHEN ORDERING PARTS

| NO. | DESCRIPTION | PART NO. |
|-----|-----------------------|-----------|
| 1 | BURNER HOUSING | |
| | MOUNTING FLANGE | |
| 2 | JUNCTION BOX | 21419 |
| 3 | MOTOR 1/8 H.P. | 20627 |
| 4 | BLOWER WHEEL | 21427 |
| 5 | MOTOR CORD COVER | 13029 |
| 6 | TRANSFORMER | 21659 |
| 7 | COUPLING-SMALL PUMP | 13424 |
| 8 | FUEL UNIT MODEL-A | 13495 |
| | FUEL UNIT MODEL-B | 13634 |
| 9 | OUTLET FITTING | 13494 |
| 10 | OIL LINE ASSEMBLY | 14451 |
| 11 | INNER AIR BAND | 20601 |
| 12 | OUTER AIR BAND-8 HOLE | 20602 |
| 12A | OUTER AIR BAND-4 HOLE | 20622 |
| 13 | HOUSING COVER ASSY. | 21723-001 |

| NO. | DESCRIPTION | PART NO. |
|-----|----------------------------------|-----------|
| 14 | AIR TUBE & GUN ASSY. COMBINATION | * |
| 15 | ADJUSTABLE FLANGE | 21724-011 |
| 16 | PEDESTAL MOUNT | 21685 |

*SPECIFY AIR TUBE & GUN ASSY. COMBINATION PART NUMBER SEE PAGE 8

| Suggested Combustion Chamber Dimensions Conversion or Upgrading Chamber Dimensions (in Inches) | | | | | |
|--|--------|--------|--------|--------|-----------------|
| Firing Rate (G.P.H.) | Square | | Round | Height | Floor to Nozzle |
| | Width | Length | | | |
| .50 | 7 | 7 | 8 | 11 | 5-6 |
| .75 | 8 | 8 | 9 | 12 | 5-6 |
| .85 | 8.5 | 8.5 | 9 | 12 | 5-6 |
| 1.00 | 9 | 9 | 10 1/8 | 12 1/2 | 5-6 |
| 1.25 | 10 | 10 | 11 1/4 | 12 1/2 | 5-6 |
| 1.35 | 10 1/2 | 10 1/2 | 11 3/4 | 12 3/4 | 5-6 |
| 1.50 | 11 | 11 | 12 3/8 | 13 | 5-6 |
| 1.65 | 11 1/2 | 11 1/2 | 13 | 13 1/4 | 5-6 |
| 2.00 | 12 5/8 | 12 5/8 | 14 1/4 | 13 1/2 | 6-7 |
| 2.50 | 14 1/4 | 14 1/4 | 16 | 14 | 7-8 |



**WAYNE HOME EQUIPMENT
A SCOTT FETZER COMPANY**

801 Glasgow Avenue
Fort Wayne, Indiana 46803

OIL BURNER CERTIFICATE

The _____ Oil Burner Model No. _____, Serial No. _____,
(MAKE)

installed at _____, bears a label evidencing compliance with commercial Standard
(ADDRESS OF INSTALLATION)
CS75-56, and has been installed in accordance with the instructions in the manufacturer's installation manual and in conformity with local regulations, codes, and ordinances.

The Boiler Furnace _____ No. _____, and the
(MAKE)

Input of unit consists of _____ G.P.H., or _____ BTUH

| | |
|------------------------------------|--|
| CO ₂ Over Fire _____ | Flue Gas Temperature at Breeching _____ °F |
| CO ₂ At Breeching _____ | Ambient Temperature _____ °F |
| Draft Over Fire _____ | Net Flue Gas Temperature _____ °F |
| Draft At Breeching _____ | Firing Rate _____ gals/hrs. |
| (inches H ₂ O) | Oil Pressure _____ PSIG |

All controls and limiting devices have been checked for proper operation _____.

Fuel used, Grade No. _____ of Commercial Standard CS 12-48. Field services equipment smoke scale reading _____.

The above test results are certified to be true: _____
(NAME OF COMPANY MAKING INSTALLATION)

Per: _____ Address: _____ Phone: _____
(SIGNATURE)

FOR SERVICE CALL:

Name: _____ Phone: _____

Address: _____ Date: _____

LIMITED WARRANTY

Wayne Home Equipment (Wayne) warrants its products and components to be free from defects due to faulty workmanship or defective materials at time of shipment and under normal use and service for twelve (12) months from the date of installation by a qualified installer. This LIMITED WARRANTY does not extend or apply to Wayne's products, or any component thereof, which have been misused, neglected, improperly installed or otherwise abused. Equipment which is defective in material or workmanship and which is removed within the specified time period will be repaired or replaced as follows:

- (1) Fuel units, controls, motors and transformers should be returned to an authorized service point or distributor of Wayne for determination of applicability of this LIMITED WARRANTY as to repair or replacement where said service point or distributor is reasonably available in customer's locality.
- (2) Where such local service is not available for components involving said fuel units, controls, motors, and transformers, or where other components are involved, such products should be returned, freight prepaid, to Wayne's home office.
- (3) Products determined to be covered under this LIMITED WARRANTY by Wayne shall be either repaired or replaced at Wayne's sole option.
- (4) Wayne is not responsible for any labor cost for removal and replacement of said products and equipment associated therewith.
- (5) Fuel units, controls, motors and transformers, or other components which are so repaired or replaced will carry this LIMITED WARRANTY equal to the unexpired portion of the original product LIMITED WARRANTY.
- (6) If inspection by Wayne does not disclose any defect covered by this LIMITED WARRANTY, the product will be repaired or replaced at the expense of the customer and Wayne's regular charges will apply.

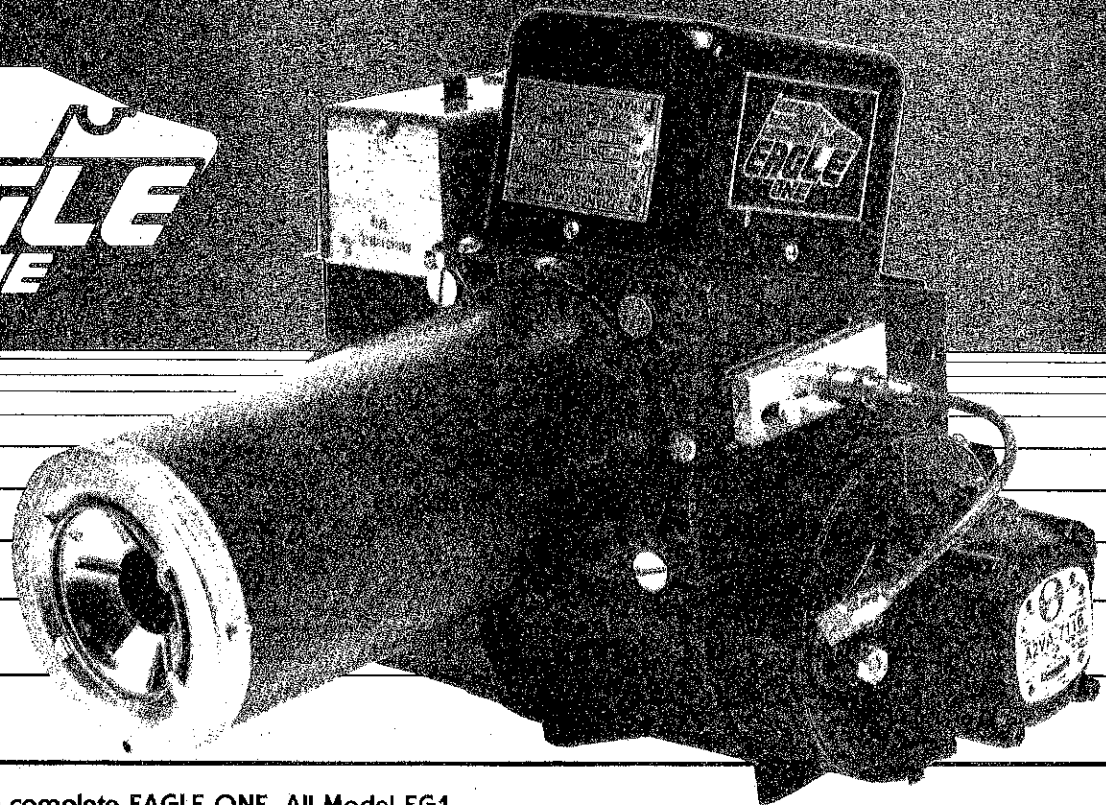
THE FOREGOING STATES THE SOLE AND EXCLUSIVE REMEDY FOR ANY BREACH OF WARRANTY OR FOR ANY OTHER CLAIM BASED ON ANY DEFECT IN, OR NON-PERFORMANCE OF, THE PRODUCTS, WHETHER SOUNDING IN CONTRACT, WARRANTY, OR NEGLIGENCE. NO OTHER WARRANTY, WHETHER EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL EXIST IN CONNECTION WITH THE SALE OR USE OF SUCH PRODUCTS, AND IN NO EVENT WILL WAYNE BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY NATURE. Wayne neither assumes nor authorizes any person to assume for Wayne any other liability or obligation in connection with the sale of these products.

WAYNE

MODEL EG1 HIGH SPEED FLAMELOCK OIL BURNER

EAGLE ONE offers you 2 options to meet every replacement application.

EAGLE ONE

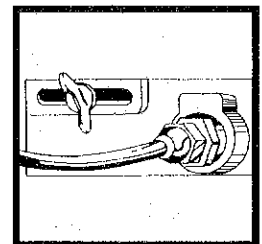


1 Order a complete EAGLE ONE. All Model EG1 flame retention burners are available completely assembled and test-fired with nozzle and primary control package installed. Tube lengths from 3" to 18" with single or two stage fuel units are available for immediate shipment.

2 Lower your inventory costs with the "Mod-Pak" plan. This modular concept allows you to reduce inventory costs with a small variety of housings, gun assemblies, and air tubes to meet all your installation requirements. Available in 3 easy steps.

- A) Order Housing Package
- B) Order Air Tube & Gun Assembly Package
- C) Order Mounting Package

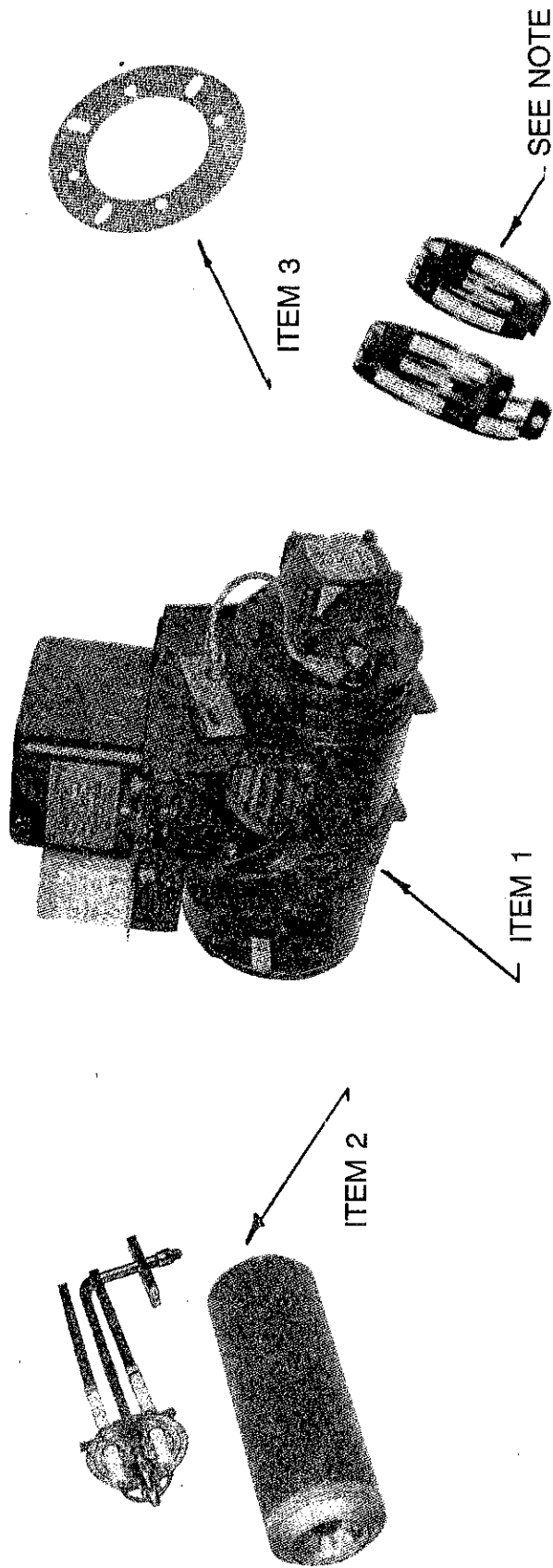
Featuring Wayne's New "Track Adjustment" for instant gun adjustment and centering. No tools needed — adjusts with only one thumb screw.



WAYNE HOME EQUIPMENT 601 GLASGOW AVE., FORT WAYNE, IND. 46803

a Scott Fetzer company

MODEL EG-1 MOBILE HOME REPLACEMENT OIL BURNER MOD-PACK PLAN



MILLER FURNACE

| ITEM | DESCRIPTION | PART NO. |
|------|--------------------|-----------|
| 1 | BURNER CHASSIS | 400-131 |
| 2 | AIR TUBE, GUN ASM. | 31336 |
| 3 | MOUNTING FLANGE | 31328-030 |

COLEMAN FURNACE

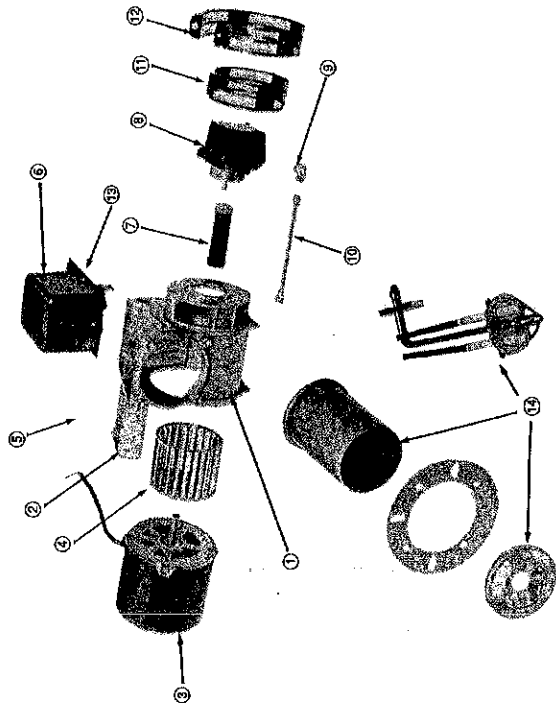
| ITEM | DESCRIPTION | PART NO. |
|------|--------------------|-----------|
| 1 | BURNER CHASSIS | 400-131 |
| 2 | AIR TUBE, GUN ASM. | 31337 |
| 3 | MOUNTING FLANGE | 31329-030 |

ASSEMBLY INSTRUCTIONS

1. Attach Air Tube and Gun Assy. to Burner Chassis as described in page 6 of the EG-1 Burner Manual.
2. Slide Mounting Flange over Air Tube with countersunk holes located on the opposite side of the Burner Chassis. Secure Flange with four screws provided. Push Gasket over Air Tube and against the Flange.
3. For Miller Furnace, be sure that the proper Air Cone is installed at the end of the Air Tube. The Air Cone for .75 G.P.H. is stamped SD2. The Air Cone for .60 G.P.H. is stamped SE2.
4. For Coleman Furnace, the furnace may be equipped with an Air Supply Duct. If the Air Duct is present it will be necessary to remove the Air Bands from the Burner Chassis as shown above.
5. Install Burner into Furnace and follow instructions on pages 2 and 3 of the EG-1 manual for start up.

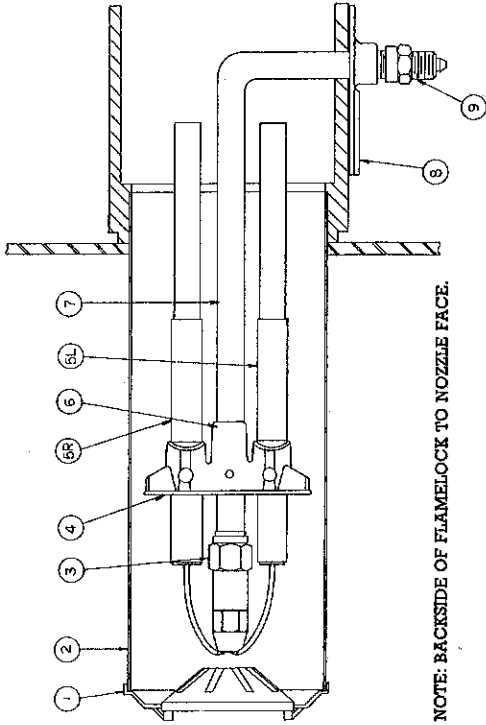
SEE REVERSE SIDE FOR REPLACEMENT PARTS INFORMATION

**BURNER COMPONENTS MODEL EG-1
MOBILE HOME REPLACEMENT BURNER**



| ITEM | DESCRIPTION | PART NO. |
|------|------------------------------|-----------|
| 1 | BURNER HOUSING | 31330-030 |
| 2 | CONTROL PACKAGE | 30332 |
| 3 | MOTOR 1/8 H.P. | 20627 |
| 4 | BLOWER WHEEL | 21427 |
| 5 | MOTOR CORD COVER | 13029 |
| 6 | TRANSFORMER | 21659 |
| 7 | COUPLING (SMALL PUMP) | 13424 |
| 8 | FUEL UNIT MODEL A | 13495 |
| | FUEL UNIT MODEL B | 13634 |
| 9 | OUTLET FITTING | 13494 |
| 10 | OIL LINE ASSEMBLY | 14451 |
| 11 | INNER AIR BAND | 20601 |
| 12 | OUTER AIR BAND | 20622 |
| 13 | HOUSING COVER ASSEMBLY | 31217-030 |
| 14 | MILLER AIR TUBE & GUN ASSY. | 31336 |
| | COLEMAN AIR TUBE & GUN ASSY. | 31337 |
| 15 | MILLER FLANGE | 31328-030 |
| | COLEMAN FLANGE | 31329-030 |

**AIR TUBE & GUN ASSEMBLY DETAILS
MODEL EG-1
MOBILE HOME REPLACEMENT BURNER**



NOTE: BACKSIDE OF FLAMELOCK TO NOZZLE FACE.

| ITEM | DESCRIPTION | PART NO. |
|------|--------------------------------|------------|
| 1 | MILLER .60 G.P.H. AIR CONE SE2 | 100333-002 |
| | MILLER .75 G.P.H. AIR CONE SD2 | 100328-002 |
| | COLEMAN AIR CONE #5 | 14302-005 |
| 2 | MILLER AIR TUBE | 21749-003 |
| | COLEMAN AIR TUBE | 21749-004 |
| 3 | NOZZLE ADAPTER | 12362 |
| 4 | MILLER STATIC DISC | 14941 |
| | COLEMAN STATIC DISC | 13410 |
| 5R | ELECTRODE ASSY. RIGHT HAND | 100331 |
| 5L | ELECTRODE ASSY. LEFT HAND | 100330 |
| 6 | TRIPOD SUPPORT | 21731-001 |
| 7 | MILLER OIL PIPE | 21726-004 |
| | COLEMAN OIL PIPE | 21726-006 |
| 8 | ADJUSTING BRACKET | 100518-001 |
| 9 | OIL PIPE FITTING | 100382 |

RECOMMENDED NOZZLES

| MILLER | COLEMAN |
|---------------|---------------|
| CMF-80 | 8880 |
| CRF-80 | 8866 |
| .60 80° Solid | .75 80° Solid |
| .75 80° Solid | .60 80° Solid |



MODEL EG1 "Mod-Pak" Oil Burner

The Modular approach to lowering your inventory cost with a small variety of housings, gun assemblies and air tubes to meet all requirements.

THE WAYNE MODULAR PLAN IN THREE EASY STEPS . . .

•Modular Package

1. Order Housing Package

Specify: Quantity, Specification Number

2. Order Air Tube and Gun

Assembly Package

Specify: Quantity, Part Number

3. Order Mounting Package

Specify: Quantity, Part Number
Pedestal (21760-011)
or Adjustable Flange
(21724-011)

STANDARD MODEL EG1 HOUSING PACK

| | | |
|---------|-----|---|
| 400-001 | EG1 | Single Stage Fuel Unit with R8184K-1006 Relay and Cell Installed. |
| 400-003 | EG1 | Single Stage Fuel Unit with Junction Box. |
| 400-002 | EG1 | Two Stage Fuel Unit with R8184K-1006 Relay and Cell Installed. |
| 400-004 | EG1 | Two Stage Fuel Unit with Junction Box. |

AIR TUBE AND GUN ASSEMBLY PACKAGES

| FIRING RATE | 3" | 6" | 9" | 12" | 15" | 18" | HEAD | STATIC DISC | RATING |
|----------------|-------|-------|-------|-------|-------|-------|------|-------------|--------|
| 0.50 thru .75 | 31161 | 31162 | 31163 | 31164 | 31165 | 31166 | SC | 3½" | E4 |
| 0.75 thru 1.00 | 31167 | 31168 | 31169 | 31170 | 31171 | 31172 | 2 | 3" | E8 |
| 1.00 thru 1.50 | 31173 | 31174 | 31175 | 31176 | 31177 | 31178 | 2 | 3" | E5 |
| 1.50 thru 2.00 | 31179 | 31180 | 31181 | 31182 | 31183 | 31184 | 3 | 3" | E6 |
| 2.00 thru 2.50 | 31185 | 31186 | 31187 | 31188 | 31189 | 31190 | 4 | 2" | E7 |

Suggested Nozzles - 80° Solid Cone

COMPLETE BURNER ORDERING INFORMATION

(When Ordering Completely Assembled Burners — Input Firing Rate Must Be Specified)

| Part No. | | Description | |
|--------------|-----------|-------------------|-------------|
| Single Stage | Two Stage | Model No. | Tube Length |
| 400-011 | 400-012 | EG1 with J-Box | 3" |
| 400-071 | 400-072 | EG1 with R8184 | 3" |
| 400-013 | 400-014 | EG1 with J-Box | 6" |
| 400-073 | 400-074 | EG1 with R8184 | 6" |
| 400-015 | 400-016 | EG1 with J-Box | 9" |
| 400-075 | 400-076 | EG1 with R8184 | 9" |
| 400-017 | 400-018 | EG1 with J-Box | 12" |
| 400-077 | 400-078 | EG1 with R8184 | 12" |
| 400-019 | 400-020 | EG1 with J-Box | 15" |
| 400-079 | 400-030 | EG1 with R8184 | 15" |
| 400-021 | 400-022 | EG1 with J-Box | 18" |
| 400-081 | 400-082 | EG1 with R8184 | 18" |
| 21724-011 | | Adjustable Flange | |
| 21760-011 | | Pedestal Assembly | |

Shipping Information

Individually Cartoned • Weight - 35 lbs.
27 Burners Per Pallet



Model EG1 Mobile Home Replacement Oil Burner

SPECIFICATIONS

FUEL PUMP: Standard 3450 R.P.M. fuel pump — serviceable anywhere. One or two stage.

CONTROLS: Cadmium sulphide cell and relay installed.

IGNITION: 10,000 V. constant duty transformer. TV-Radio interference proof. Positive make or break contact with electrodes. Swing-away design swings open for easy access to gun assembly.

MOTOR: NEMA Standard, $\frac{1}{8}$ H.P. Split Phase 3450 R.P.M. 115V, 60HZ.

FAN HOUSING: One piece, die cast fan housing. High-strength aluminum alloy maintains lifetime alignment of moving parts. No vibration. Less wear. Insures whisper-quiet operation.

NOZZLE ADAPTER: Patented no drip brass adapter insures sharp oil cutoff when fuel pump shuts off. Bleeds air from line, prevents afterdrip, eliminating smoke, soot and carbon formation.

AIR ADJUSTMENT: Patented multiple air adjusting bands interlock for positive air adjustment.

FLAME RETENTION HEAD: High Temperature Stainless Steel for longer life. Head sized to accept standard nozzle wrench.

SERVICEABLE: Easy access to all parts permits quick inspection and cleaning. Entire burner is disassembled in a few seconds without the need of special tools.

SHIPPING WEIGHT: 35 lbs. Up.

ORDERING INFORMATION

- A) Order oil burner housing package (400-131)
- B) Order air tube combination:
 - 31336 - Miller Air Tube Combination
 - 31337 - Coleman Air Tube Combination
- C) Order mounting flange:
 - 31328-030 - Miller
 - 31329-030 - Coleman