INSTRUCTION MANUAL WITH PARTS LIST

MODELS B-99¢ and F-98¢

(B-99C, Spec. Nos. 2826G1, 2826G1-1 and 2826G1-2) (F-98C, Spec. Nos. 2826G2, 2826G2-1 and 2826G2-2)





Viaster Division of Koehring Company

SECTION I

INTRODUCTION

GENERAL

The purpose of this Instruction Manual is to give users of the Portable Heater a working knowledge of the unit, and to provide instructions for use when the heater requires service. A repair parts list is also included in the rear of this manual.

The Portable Heater is for use anywhere temporary portable heating is required, and adequate ventilation is available. The unit is designed for many hours of trouble-free operation under rugged conditions. The heater has been tested and fired at the factory before shipment.

SPECIFICATIONS

Rating 75,000 BTU
Heater air output 345 (approx.)
(cubic feet per minute)
Fuel Kerosene or No. 1 fuel oil
Motor (totally enclosed)3450 RPM, 115V, 60 cycle
Fan 170, Four-blade, 8 inch diameter
Pump Air pump, dry, four-vane
Amperage 4 amps (during normal run)
Duct Not recommended
Weight 68 lbs. (approx.)
Fuel tank capacity 9.0 U. S. gal.

SECTION II

-3-

CAUTION

The heater must be used in a well-ventilated area only, and must be at least four (4) feet from any combustible materials. A partly opened door or window near the heater level will provide enough ventilation.

GROUNDING OF HEATER

AAREA A1

The heater is equipped with an extension cord with a three-prong plug. An adapter must be used when only two-prong receptacles are available.

In most instances the receptacle box is grounded, as electrical codes require, and can be used for grounding the adapter. Loosen one of the metal screws that hold the receptacle in the box, and insert the green lead of the adapter between the box and metal arm of the receptacle. Retighten the screw.

This procedure grounds the frame of the heater.

STARTING

To start the portable heater, fill the fuel tank; then, ground the green lead on the adapter and plug into an electrical outlet which has the same voltage and cycle characteristics as those shown on the heater name plate. The heater will ignite immediately and provide instant heat.

CAUTION

If plugged into current other than that specified on the heater instruction plate, the transformer will burn up.

STOPPING

To stop the portable heater, unplug the electrical cord from the power supply. The heater will stop immediately, and with no harmful effects.

EXTENSION CORD WIRE SIZES

Length of Extens	sion Cord	Wire Size (AWG)
100 feet		. 14
200 feet		. 12
300 feet		. 10
400 feet		. 8
500 feet		. 6

SECTION III

MAINTENANCE INSTRUCTIONS

CLEANING

Fuel Tank

Drain and flush after every 150 hours of operation with clean fuel oil.

Filters

Clean the air and fuel filters twice a season, or as needed (every 500 hours of operation).

a. Remove the four screws (2), fig. 6, lockwashers (3), and cover (1). Take out the output filter (5), intake filter (4), and the lint filter (6). Wash filters with a mild detergent. Dry thoroughly and replace filters, cover and screws.

b. Loosen the 4 screws at the sides and lift off upper shell (1, fig. 4). Disconnect the fuel filter assembly (9) from the burner assembly (8) and withdraw filter assembly. Immerse in clean fuel and rinse several times. Blow out through fitting end. Replace securely in tank and connect to burner.

Fan

Fan blades must be cleaned twice a season or as needed (every 500 hours of operation). Accumulation of dust and dirt will reduce air supply.

Remove upper shell (1), and wipe blades with clean cloth. If deposits will not come off readily, use kerosene or solvent on tip of cloth. Dry blades thoroughly. Replace upper shell.

Burner

To remove burner assembly (8) for cleaning, remove upper shell. Disconnect fuel filter (9), air line (10) at both ends, and the two electrode leads (44) at the back of burner. Loosen screw (8A) (do not remove); then, twist burner clockwise, to release it from grooves in fins, and draw it straight back toward fan. Lift out burner.

Soak complete burner head in non-flammable liquid cleaning agent (do not use kerosene or fuel oil)

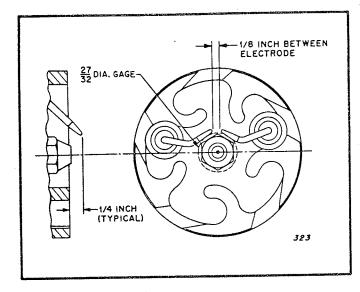


Figure 1. Electrode Settings

for one hour and blow out through both fittings in rear of head. Do not attempt to remove nozzle or open passage with a drill, as you will damage it beyond repair.

Reassemble burner in heater, after checking electrode settings according to manual instructions, Figure 1, making sure burner is snug against combustion chamber backplate. Turn counterclockwise as far as possible and tighten screw (8A, figure 4). Tighten connections on air line and fuel filter securely and push electrode leads into burner head electrodes, until they snap into place. Replace upper shell.

SPECIAL TOOLS

The following special tools are required for servicing and maintaining the heaters:

Air Gage (Part No. M9148), 15 pound minimum pressure range, 1/4-pound divisions (must be able to read 4-pounds accurately).

TROUBLE-SHOOTING GUIDE

1. Heater will not start:

a. Check outlet for power. Supply must be same as specified on instruction plate.

WARNING

Motor has automatic thermal overload protector. It may stop due to low voltage or motor over-load. BE SURE to disconnect heater before inspecting. To reset, push red button on protector.

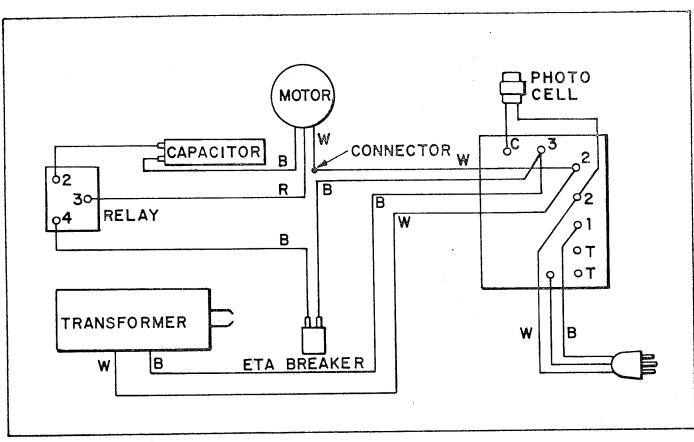


Figure 2. Wiring Diagram

TROUBLE-SHOOTING GUIDE (Continued).

- b. Push reset buttons on Penn control and overload protector.
- c. Checkthat fan rotates freely. If not, return heater to vendor for service.
- 2. Heater burns, but gives off fumes:
- a. Check fuel and air lines for tight connections.
- b. Clean all filters (see cleaning instructions).
- c. Clean burner assembly (see cleaning instructions).
- 3. Heater burns but licks of flame or puffs of smoke can be seen:
 - a. Check fuel filter for tight connection.
- b. Water condensation in fuel tank. Drain and flush with clean fuel. Refill tank.

- c. Heater running out of fuel. Refill tank.
- 4. Heater smokes continuously:
- a. Check fuel filter for tight connection.
- b. Excessive amount of water in fuel tank. Drain and flush with clean fuel. Refill tank.
- c. Checkfor foreign material around motor and fan. Clean if necessary.
- 5. Heater will not ignite:
- a. Electrodes cracked see field replacement parts.
- b. Electrodes out of position see Figure 1.
- c. Transformer burnt out see field replacement parts.
- d. Transformer electrode leads off remove upper shell and connect leads.

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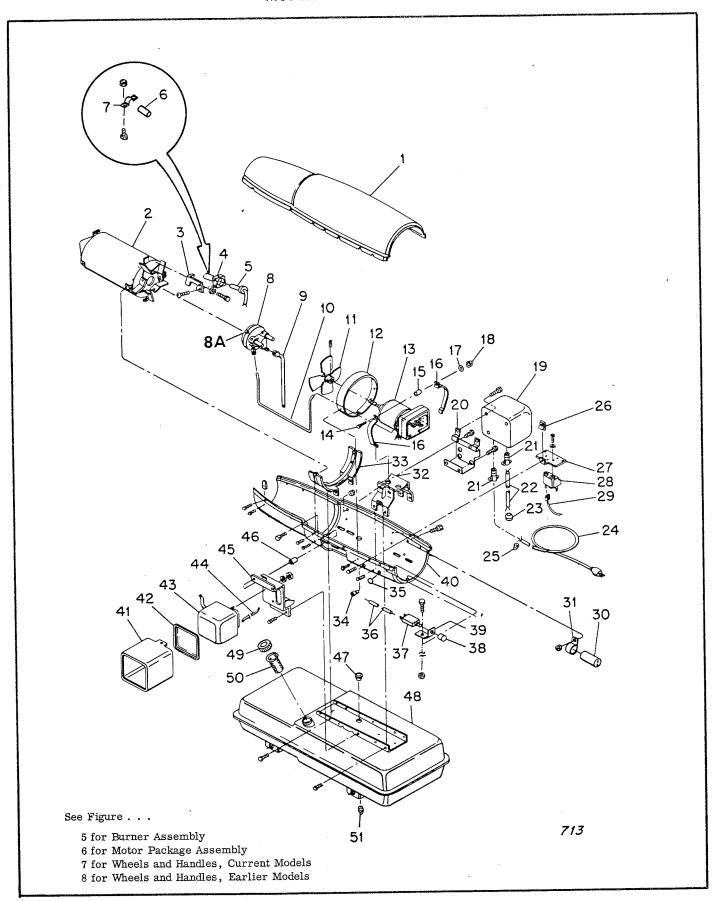


Figure 4. Portable Heater, Exploded View, General Assembly

SECTION VI ILLUSTRATED PARTS LIST

This section contains a list of all replaceable parts used in the heater covered by this manual. The only parts that are recommended for replacement by the heater's owner or user are indicated by the symbol (*). Parts indicated by the symbol (**) are standard hardware items, and may be obtained locally.

Major parts of the heaters are indexed on the exploded views. Usually parts (such as screws and nuts) that attach these major parts are shown on the illustration, but have no index numbers. In this case, the attaching parts are listed immediately following the parts they attach.

Most parts of the heaters are identical for each Specification Number. Wherever there is a difference, the usage

is coded by means of a note. The code is as follows:

- A Used on Spec. Nos. 2826G1 and 2826G2
- B Used on Spec. Nos. 2826G1-1 and 2826G2-1
- C Used on Spec. Nos. 2826G1-2 and 2826G2-2

To order parts, first check the nameplate decal for the correct model number and Spec. No. of the heater. INCLUDE THE MODEL AND SPEC. NUMBER WHEN ORDERING PARTS. Order parts by part name and part number only. Do not use the index numbers from the illustration when ordering parts.

MODELS B-99C AND F-98C PORTABLE HEATER, GENERAL ASSEMBLY

Index No.	Part Number		Usage Code	Quan.	Index No.	Part Number		sage Code	Quan.
1	M13134G2	Shell, Upper		1	6	M13962	Tubing, Photocell	вс	1
-	M12461-51	Screw (Upper shell to			7	M13963	Clamp, Photocell	BC	1
		lower shell)	A	6	-	NTC-1C	Nut, Torque Lock,		
-	M11084-27	Screw	BC	6			No. 6-32	BC	2
_	M11271-4	Nut, Tinnerman (Upper			-	M12461-2	Screw	BC	2
		shell to lower shell)	A	6	8	Ref.	Burner Assembly		
_	M11271-6	Nut, Tinnerman	BC	6			(See Figure 5)		1
2	M11920G2	Combustion Chamber Assy		1	8A	Ref.	Screw (Burner to		
_	M10908-51	Screw (Combustion		-			Combustion Chamber)		-
		chamber attaching, front) A	2	9	M11932G1	Fuel Filter Assembly		
	M11084-27	Screw (Combustion cham-			ł		(Superseded by M13846G	1.	
		ber attaching, front)	BC	2	İ		Part No. M11932G1		
-	M10908-52	Screw (Combustion cham-			l		requires use of M10990-	1	
		ber and support bracket					Bushing, Index No. 47,		
		attaching, rear)	A	4			having 19/32 in. dia.		
_	M11084-29	Screw (Combustion cham-			1		hole.)	Α	1
		ber and support bracket			9	M13846G1	Fuel Filter Assembly		
		attaching, rear)	BC	4			(Supersedes M11932G1.		
3	M12017	Bracket, Photo Cell					Part No. M13846G1		
		Mounting	Α	1	1		requires use of		
3	M13961	Bracket, Photo Cell					M10990-3 Bushing,		
		Mounting	BC	1			Index No. 47, having		
_	WLI-1	Lockwasher, No. 6	Α	2			3/8 in. dia. hole.)	BC	. 1
_	M10908-1	Screw (Photo Cell			10	M11943	Air Line	*	1
		mounting bracket to			11	M9726	Fan	*AB	1
		combustion chamber)		2	11	M12464	Fan	*C	1
4	M11856	Block, Photo Cell Mounting	g A	1	_	SF4-2-1/2K	Setscrew, Soc. hd,		
_	RC1-2C	Screw (Block to mounting	•		1	-	knurled cup pt., 1/4-28		2
		bracket)	Α	1	12	M12331	Fan Housing		1
5	M9211	Photo Cell	A	1	-	M11084-27	Screw		4
5	M9211-1	Photo Cell	BC	1	13	Ref.	Motor Package Assy (See F	ig.6)	1

^{*} Only these parts are recommended for replacement by the owner or user of the heater.

PORTABLE HEATER, GENERAL ASSEMBLY - Continued

Index	Part		Usage		Index	Part		Usage	_
No.	Number	Part Name	Code	Quan.	No.	Number	Part Name	Code	Quan.
L4	HC4-10C	Screw		2	_	M11084-27	Screw ·	ВС	6
L5	M13620	Spacer, Motor Clamp		2	33	M12330	Bracket, Shell Support		1
	M10964-1	Clamp, Motor	AΒ	4	-	M10908-51	Screw (Shell Support		
16		Clamp, Motor	C	4	1		Bracket to lower shell		
16	M16661	Lockwasher, 1/4 in.	Ü	2	1		and fuel tank)	Α	4
17	WLM-4			2		M11084-27	Screw	BC	4
18	NPC-4C	Nut, Hex Penn Control		1	34	M11954	Bushing, Strain Relief		1
19	M12013			-	35	M15995	Plug Button	BC	1
-	M10908-51	Screw (Penn Control to			36	M9900G33	Wire Assy (ETA Control		
		mounting bracket;			1 0	2.25 0 0 0 0 0 0	Circuit Breaker to Rela	y)	1
	•	mounting bracket to		5	37	M9232	Circuit Breaker (Control		
		fuel tank assembly)		1	"	1110-0-	ETA)		1
19	M12013	Penn Control		1	38	M9230	Guard, Reset Button		1
-	M10908-51	Screw, (Penn Control to			39	M12016	Bracket, Circuit breaker		
		mounting bracket; mount			55	14112010	mounting		1
		ing bracket to fuel tank		=	_	M12461-13	Screw (Bracket mounting)	1
		assembly)		5 1	_	NTC-2C	Nut, Hex, No. 8, Torque		
20	M13156G1	Mounting Bracket Assemb		1	-	MIC-20	lock		1
-	M12461-51	Screw (Mounting Bracket t	0	•	40	M12609	Shell, Lower		1
		Lower Shell)		2	40	M12510	Cover, Transformer	AB	1
-	NEC-3C	Nut, No. 10-24 (ESNA)		2	41		End Cover	AB	1
21	1001349	Connector, Straight, clam			42	M12511	Transformer	*AB	1
		type (Wire assemblies to)		43	M13170		*C	1
		Penn Control)		3	43	M13170	Transformer		2
22	M5845G21	Cable Assy		1	-	WLM-4	Lockwasher, 1/4 in.		2
	69321-40	Connector, Butt		1		NPC-4C	Nut, Hex, 1/4-20	* A D	2
23	M3530	Grommet		2	44	M10816G13			2
24	M10813G3	Extension Cord Assy	C	1	44	M10816G34		y *.C	4
24	M10813G2	Extension Cord Assy	$^{\mathrm{AB}}$		45	M12332G1	Transformer Mounting		1
25	M15714-1	Connector, Set Screw Typ	e	1	1	_	Bracket Assy		1
_	M11953G1	Relay and Bracket Assy	AB		-	M11084-27	Screw (Transformer		2
_	M18598G2	Relay and Bracket Assy	C	1			bracket attaching)		4
26	M11271-4	Nut, Tinnerman (Relay			-	M11084-29	Screw (Transformer		
		and Bracket Assy to					bracket attaching)		2
		Outer Shell)	Α	1	46	M13042	Spacer		2
26	M11271-6	Nut, Tinnerman	BC	1	47	M10990-1	Bushing (with 19/32 in.		
_	M12461-51	Screw (Relay and Bracket	;		İ		hole, for use with M19		_
		to Outer Shell)	A	1	ļ		Filter)	Α	1
_	M11084-27	Screw	BC	1	47	M10990-3	Bushing (with 3/8 in. dia	ł.	
27	M11952	. Bracket, Relay mountin	g	1			hole, for use with		_
28	M11951	. Relay, Motor starting (Used				M13846G1 Filter)	BC	1
	21222	with M11938-3 Motor)	*AE	3 1	48	M12377G2	Fuel Tank Assy (Uses		
28	M12462-5	. Relay, Motor starting (U	sed				M3353 Cap)	A	1
	2,2	with M17941-3 Motor		1	48	M12321G1	Fuel Tank Assy (Uses		
_	RC2-3C	. Screw, Rd.hd., (Relay					M3353 Cap)	В	1
	1102 00	to Bracket)		2	48	M12321G3	Fuel Tank Assy (with		
_	WLI-2	. Washer, Lock, Internal	l		l		large filler neck; uses		
	******	tooth, No. 2		2			M18051 Cap and		
29	M9900G32	Wire Assy, Capacitor			1		M18053 Filter screen)	C	1
20	1110000000	to Relay		1	49	M3353	Cap, Fuel Filler	ΑE	1
30	M12650-2	Capacitor		1	49	M18051	Cap, Fuel Filler (for		
31	M12651-1	Clamp, Capacitor (Tinner	rmanl	1			large filler neck openi	ing) C	1
υı	NEF-3C	Nut, No. 10-32 (ESNA)		1	50	M18053	Screen, Filter	C	1
-				1	51	M8257	Plug (Fuel Tank Drain)	Α	1
-	M12461-27		A.		51	M13990	Plug, Pipe, 1/4 in.,		
32	M11942	Bracket, Motor Support	C		"-		Sq. hd. (Fuel tank dr	ain) B	C 1
32	M16646	Bracket, Motor Support	C		1		, -	, -	
_	M10908-51	•					OPTIONAL EQUIPMENT		
		Bracket to lower Shell		^		M16141	Kit, Thermostat		
		and fuel tank)	A	. 6	l l	7477-07-47			

^{*} Only these parts are recommended for replacement by the owner or user of the heater.

BURNER ASSEMBLY

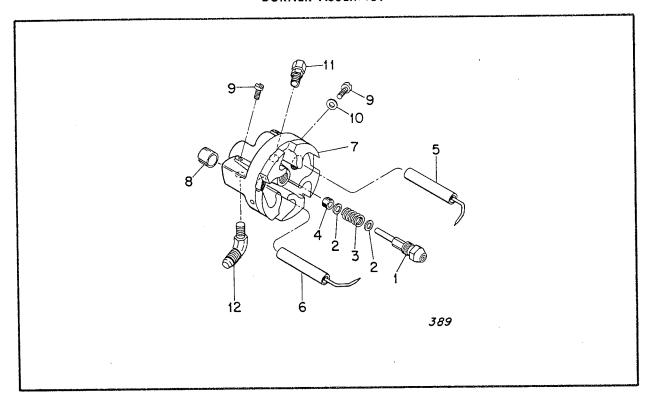


Figure 5. Burner Assembly

Index No.	Part Number	Part Name	Usage Code	Quan.
	M11929G1	Burner Assembly	*	1
-1	M8667	. Nozzle, Siphon		1
-2	M10659-1	. Washer, Nozzle seal		2
-3	M10809-1	. Spring, Nozzle seal		1
-4	M8882	. Sleeve		1
-5	M8989	. Electrode, L.H.	*	1
-6	M8990	. Electrode, R. H.	*	1
-7	M8716G2	. Burner Head Assembly (Includes roll pins, bushings	,	
		and burner head casting)		1
-8	M16712	Bushing, Electrode		1
-9	HF3-3C	. Screw, Hex hd.		3
-10	WP-3C	. Washer, Flat		1
-11	M5976	. Connector, Male		1
-12	M11931	. Elbow, Male, 45 ⁰		1

When ordering parts, please state Heater Model, Specification, and Serial Number

^{*} Only these parts are recommended for replacement by the owner or user of the heater.

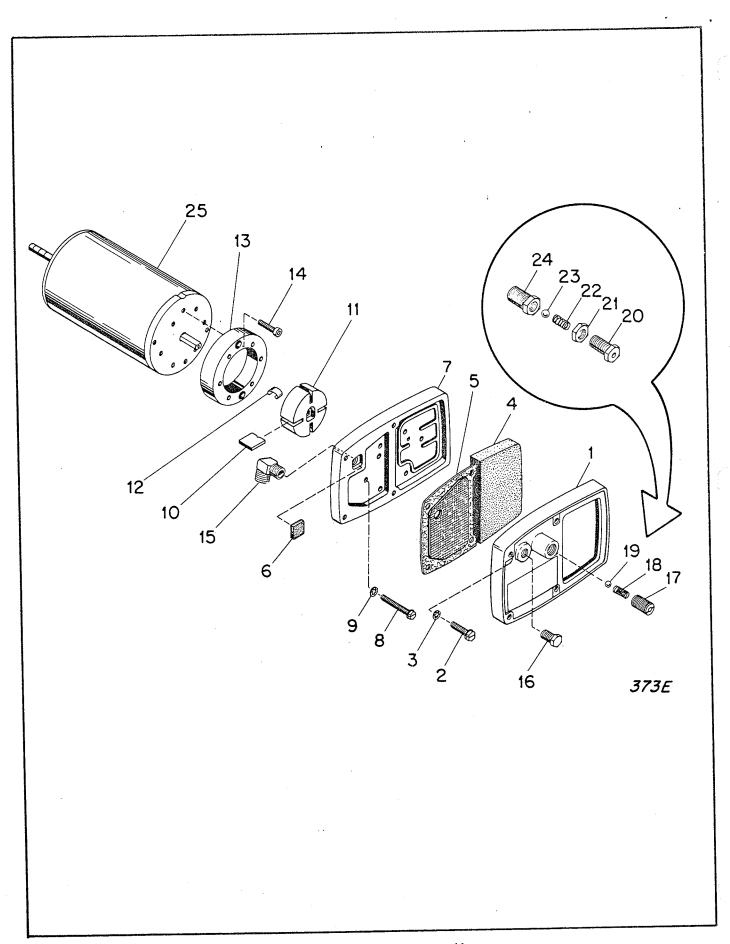


Figure 6. Motor Package Assembly

MOTOR PACKAGE ASSEMBLY

Index No.	Part Number	Part Name	Usage Code	Quan.	Index No.	Part Number	Part Name	Usage Code	Quan.
_	M11937G3	Motor Package Assembly	AB		-22	M8941	Spring Compression	AB	1
_	M18146G5	Motor Package Assembly	С	1	-23	M8940	Ball, 1/4 in. Dia.		1
-1	M12234	. End Cover	AB	1	-24	M10362	Connector	AB	1
-1	M16545	. End Cover	С	1	-25	M17941-3	. Motor (Supersedes Part		
-2	M12461-31	. Screw	C	4			No. M11938-3;		
-3	WLI-3	. Lockwasher, Internal					Requires use of Part		
J		tooth, No. 10		4			No. M12462-5 Relay)	С	1
-4	M12179	. Filter, Intake	*	1	-25	M11938-3	. Motor (Superseded by		
-5	M12244G1	. Filter Assy	*	1			Part No. M17941-3.		
-6	M11637	. Filter, Lint	*	1	ł		Part No. M11938-3		
-7	M12233	. End Cover, Pump		1			requires use of part		
-8	M12461-32	. Screw		6	ļ		No. M11951 Relay)	AB	1
-9	WLI-3	. Lockwasher, Internal			-	M19579	Kit, Motor and Relay Re-		
		tooth, No. 10		4	ļ		placement (Consists of		
-10	M8643	. Blade		4	1		M17941-3 Motor and		
-11	M11959	. Rotor	¢	1	İ		M12462-5 Relay, to		
-12	M11966-5	. Spring	¢	1			replace M11938-3		
-13	M8645	. Body, Pump		1			motor and/or M11938-3		
-14	FHPF3-4C	. Screw		2	1		motor with M11951		
-15	69248	. Elbow, Compression		1			Relay on heaters built		
-16	M10837	. Pipe Plug		1			to Specification Nos.		
-17	M10992-1	. Screw, Pressure adjusti	ng C	1			2826G1.		
-18	M10993-1	. Spring, Pressure relief	C	1	-	M13614G1	Kit, Pump and Filter Part	s	
-19	M8940	. Ball, 1/4 in. Dia.		1			(Same as M11937G3 ex-		
-	M8943G2	. Pressure Relief Valve					cept without motor)	AB	1
		Assembly	AB	1	-	M16886G2	Kit, Pump and Filter Part	S	
-20	M11941	Bushing, Adjusting	AB	1			(Same as M18146G5	_	
-21	M8993	Nut, Hex, 3/8-24	AB	1			except without motor)	C,	1

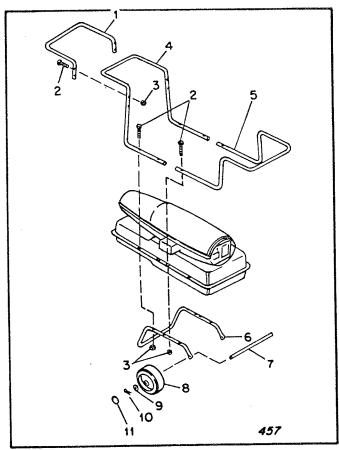
[¢] Up to and including heater serial No. 660375, a Pin M8877 and Rotor M8644 were used. Parts shown as items 11 and 12 in the above list are used in heaters with Serial No. 660376 and up.

When ordering parts, please state Heater Model, Specification, and Serial Number

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^{*} Only these parts are recommended for replacement by the owner or user of the heater.

WHEELS AND HANDLES



Index No.	Part Number	Part Name	Usage Code	Quan.
		,		
1	M17306	Guard, Nose cone	BC	1
2	M12345-34	Screw	BC	12
3	NTC-3C	Nut, No. 10-24	BC	12
4	M17305	Handle, Front	BC	1
	M13830	Handle, Rear	BC	1
6	M12342	Frame, Wheel Support	BC	1
7	M11957	Axle	В	1
7	M16801	Axle	C	1
8	M14261-2	Wheel	В	2
8	M16896	Wheel	C	2
9	WP-8C	Washer	В	2
10	C4-7	Cotter Pin	В	2
11	M14262	Hub Cap	В	2
11	M16802	Hub Cap	C	2
_	M16741-15	Ring, Retaining (for		
		wheels)	C	2

Figure 7. Wheels and Handles (Current)

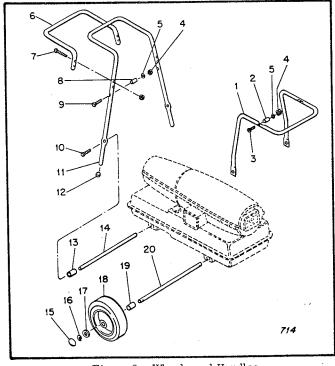


Figure 8. Wheels and Handles (Spec. Nos. 2826G1 and 2826G2)

Index No.	Part Number	Part Name	Usage Code	Quan.
1	M13131G1	Leg, Rear	A	1
2	M12508-2	Spacer, Leg	A	2
3	M12345-51	Screw	A	2
4	NEC-3C	Nut, Hex, No. 10-24	A	8
5	WP-3C	Washer, No. 10	A	4
6	M12607	Guard, Nose Cone	A	1
7	M12345-32	Screw	A	4
8	M12508-1	Spacer, Leg	A	2
9	M12345-50	Screw	A	2
10	M12619-23	Screw	· A	2
11	M13130G2	Leg, Front	A	1
12	M8704	Plug Button	A	2
13	M12387	Spacer, Front	A	2
14	M12386	Rod, Tie	A	1
15		Hub Cap	A	2
16	M12665	Retainer	A	2
17	WP-8C	Washer	A	2
18	M12664	Wheel	A	2
19	M12391	Spacer, Rear	A	2
20	M12930-3	Axle	A	1

DECALS, NAMEPLATES, TOUCH-UP PAINT

M12019 Decal, Wiring Diagram M12802 Decal, Trade Name B-99C M12645 Decal, Trade Name F-98C		
M13140 Decal, Operating Instructions M12810 Decal, Air Filter M8603 Decal, Filter M8987 Decal, Fuel Tank Drain M13279 Decal, Caution	AB	1 2 2 1 1 1 1

Part	Part Name or	Model	Usage	Quan.
Number	Description	Nos.	Code	
M4119 M13141 M15943 M18196 M13386-8 M13386-4 M13386-4	C.S.A. Approval Label Decal, Cover Removal Decal, Cover Removal Decal, Manufactured by Touch-Up Paint, Aerosol can, Black Touch-Up Paint, Aerosol can, Yellow Touch-Up Paint, Aerosol can, Green	F-98C	AB C BC	1 1 1

Note: If no Model Number is shown, the part is used on both B-99C and F-98C.

STANDARD SCREWS

Part Number	Part Name or Description
FHPF3-4C	Screw, Fillister hd, No. 10-32 x 1/2 in.
FHPF3-7C	
HC4-10C	Screw, Hex hd. machine, 1/4-20 x
	1-1/4 in.
HF3-3C	Screw, Hex hd, No. 10-32 x 3/8 in.
RC1-2C	Screw, Rd hd., No. $6-32 \times 1/4$ in.
RC2-2C	Screw, Rd hd., No. $8-32 \times 1/4$ in.
RC2-3C	Screw, Rd hd., No. 8-32 x 3/8 in.
ST2-2AC	
M10908-1	Screw, Self-tapping, hex hd, No. 6-32
	x 1/4 in., Type "S"
M10908-51	Screw, Self-tapping, hex hd, No. 10-24
	x 1/2 in., Type "S"
M10908-52	Screw, Self-tapping, hex hd, No. 10-24
	x 5/8 in., Type "S"
M11084-27	Screw, Self-tapping, hex hd, No. 10-12
	x 1/2 in., Type "A"
M11084-29	,
	x 3/4 in., Type "A"
M12345-31	Screw, Oval hd machine, No. 10-24 x
	1-1/4 in.

Part Number	Part Name or Description
M12345-32	Screw, Oval hd, machine, No. 10-24 x 1-1/2 in.
M12345-34	Screw, Oval hd machine, No. 10-24 x 2 in.
M12345-50	Screw, Oval hd machine, No. 10-24 x 2-1/2 in.
M12345-51	Screw, Oval hd machine, No. 10-24 x 2-3/4 in.
M12461-2	Screw, Hex hd, No. 6-32 x 3/8 in.
M12461-13	Screw, Hex hd, No. 8-32 x 1/4 in.
M12461-27	Screw, Hex hd, No. 10-32 x
•	1/2 in.
M12461-31	Screw, Hex hd, No. 10-32 x 1 in.
M12461-32	Screw, Hex hd, No. $10-32 \times 1-1/8$ in.
M12461-34	Screw, Hex hd, No. $10-32 \times 1-1/2$ in.
M12461-51	Screw, Hex hd, No. $10-24 \times 1/2$ in.
M12619-23	Screw, Self-tapping, Oval hd, No. 10-24 x 1 in., Type "S"
M15823-26	Screw, Self-tapping, hex hd, No. 10-12 x 3/8 in., Type "B"

When ordering parts, please state Heater Model, Specification, and Serial Number

WARRANTY

Manufacturer warrants each new Product made by Manufacturer to be free from defects in material and workmanship, its obligation and liability under this Warranty being expressly limited to repairing or, at Manufacturer's option, replacing free of charge at its factory any part proving defective under normal use and service within one year of operation after date of delivery to a customer as attested by Distributor. Parts claimed to be defective and for which repair or replacement is desired shall be, if requested by Manufacturer, returned transportation prepaid to Manufacturer's factory for inspection. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTA-BILITY AND FITNESS FOR ANY PARTICULAR PURPOSE, AND THE OBLIGATION AND LIABILITY OF MANU-FACTURER UNDER THIS WARRANTY SHALL NOT INCLUDE ANY TRANSPORTATION OR OTHER CHARGES OR THE COST OF INSTALLATION OR ANY LIABILITY FOR DIRECT, INDIRECT OR CONSEQUENTIAL DAMAGES OR DELAY RESULTING FROM THE DEFECT. Any operation beyond rated capacity or the improper use or application of Product or the substitution upon it of parts not approved by Manufacturer or any alteration or repair by others in such manner as, in Manufacturer's judgment, to affect the Product materially and adversely shall void this Warranty. No representative of Manufacturer is authorized to change this Warranty in any way, and no attempt, effort or promise to repair Products of Manufacturer either by Manufacturer or by any representative of Manufacturer at any time shall change or extend this Warranty in any way. This Warranty covers only new and unused Products Manufactured by Manufacturer. Products manufactured by others are covered only by such warranties as are extended to Manufacturer by its suppliers.

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