

A50, A90, AND A150 PORTABLE SPACE HEATERS (SERIAL NO. 405201-)



JOHN DEERE

OPERATORS MANUAL A50, A90, AND A150 PORTABLE SPACE HEATERS (SERIAL NO. 405201-)

OMTY20647 G6 English

**JOHN DEERE MERCHANDISE DIVISION
OMTY20647 G6**

**LITHO IN THE U.S.A.
ENGLISH**



Introduction

Thank you for purchasing a John Deere product.

Read this manual carefully to learn how to operate and service your machine correctly. Failure to do so could result in personal injury or equipment damage.

This manual should be considered a permanent part of your machine and should remain with the machine when you sell it.

Measurements in this manual are U.S. customary units and their metric equivalents.

Right-hand and left-hand sides are determined by facing in the direction of forward travel.

Write product identification numbers in the space provided in the Specifications section. Accurately record all the numbers to help in tracing the machine should it be stolen. Your dealer also needs these numbers when you order parts. If this manual is kept on the machine, also file the identification numbers in a secure place off the machine.

Warranty is provided as part of John Deere's support program for customers who operate and maintain their equipment as described in this manual.

The warranty does not cover:

A—Products which have been altered or modified in ways not approved by John Deere, including setting fuel delivery above specifications or otherwise overpowering of products.

B—Depreciation or damage caused by normal wear, accident, lack of reasonable and necessary maintenance as specified in this manual, improper maintenance, improper protection in storage, or improper use or abuse.

C—Normal maintenance and replacement of service items such as filters, spark plugs, belts, brake linings, cutting blades and hoses unless such parts are defective.

D—Transportation, mailing and service call charges for warranty service.

All information, illustrations and specifications in this manual are based on the latest product information available at the time of publication. The right is reserved to make changes at any time without notice.

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Safety

RECOGNIZE SAFETY INFORMATION

This is the safety-alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.



AB6;T81389 053;ALERT 071085

UNDERSTAND SIGNAL WORDS

A signal word—DANGER, WARNING, or CAUTION—is used with the safety-alert symbol. DANGER identifies the most serious hazards.

Safety signs with signal word DANGER or WARNING are typically near specific hazards.

General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.

⚠ DANGER

⚠ WARNING

⚠ CAUTION

AB6;TS187 053;SIGNAL 071085

FOLLOW SAFETY INSTRUCTIONS

Carefully read all safety messages in this manual and on your machine safety signs. Follow recommended precautions and safe operating practices.

Keep safety signs in good condition. Replace missing or damaged safety signs.



AB6;TS188 053;SIGNS 071085

Warning Decal Located Next to Fuel Cap

⚠ WARNING

Avoid burns. Do not move, handle or service while heater is hot or burning.

IMPORTANT

Stop heater to fill. Use only kerosene or No. 1 fuel oil.

Patent No's. 3,101,193
3,256,003 3,291,184
Other U.S. and foreign
patents pending.

2A4;TYB235 Y05;;12SA A 160686

CAUTION

1. Read operator's manual carefully before operating heater.
 2. Do not operate heater on other than specified voltage.
 3. Do not operate heater on non-grounded electrical circuit.
 4. Do not use gasoline, naphtha, paint thinner, alcohol or other volatile fuel. Use kerosene or number 1 fuel oil only.
 5. Do not start heater if raw fuel has accumulated in the chamber.
 6. Do not use heater in sleeping quarters.
 7. Do not use heater in confined space without adequate ventilation. (Approximately three square feet of opening per 100,000 BTU rating).
 8. Do not use this heater within five feet of combustible material or in the presence of flammable vapors.
 9. Do not service or relocate heater while connected to electrical outlet.
- Safety requirements and model plate data comply with American National Standards Institute safety requirements. ANSI A10.10-1970

Caution Decal Located Next to Fuel Cap

2A4;TYB236 Y05;;12SA B 290786

LEARN MACHINE SAFETY

Carefully read this manual. Learn how to operate the machine and how to use the controls properly.

Do not let anyone operate this machine without proper instruction.

Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.



AB6;TS183 053;READ2 080785

SAFETY PRECAUTIONS

Do not use the heater in confined areas without providing adequate ventilation! Provide a minimum of at least 3 square feet (0.28 m²) of ventilating area per 100,000 BTU rating.

Do not use heater to warm sleeping quarters.

Do not place heater in or near a path where persons may walk nor closer than 5 feet (1.5 m) to any combustible material.

Do not duct heater.

When thermostat control-accessory is used with space heater, heater may start at anytime.

Do not handle or move heater while it is operating.

The safety requirements for all John Deere portable heaters comply with the American National Standards Institute Safety Requirements ANSI A10.10-1970. These requirements are in compliance with all OSHA Safety Standards.

Y05;;12SA C 220786

HANDLE FUEL SAFELY

The heater is designed to operate on kerosene or No. 1 fuel oil only. DO NOT use diesel fuel, No. 2 fuel oil, gasoline, naphtha, paint thinner, alcohol or other highly volatile fuels.

Toxic fumes could be created by using non-recommended fuels.

Do not add fuel to heater while it is operating. Use only recommended fuel.

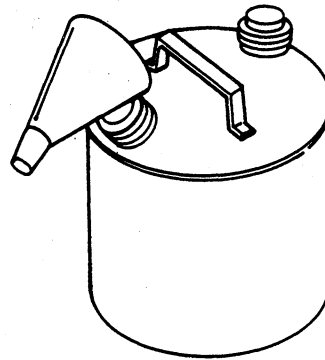
Do not smoke while refueling heater.

Avoid spilling fuel. Do not overfill fuel tank.

Wipe up any spilled fuel after refueling.

Move away from fueling area before operating heater.

Do not use heater in the presence of flammable vapors such as paint, fuel, or certain cleaning solvents.



2A4;TY3848 Y05;;12SA D 160686

PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

Keep a first aid kit and fire extinguishers handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.



AB6;TS186 053;FIRE2 080785

RESPECT ELECTRICITY

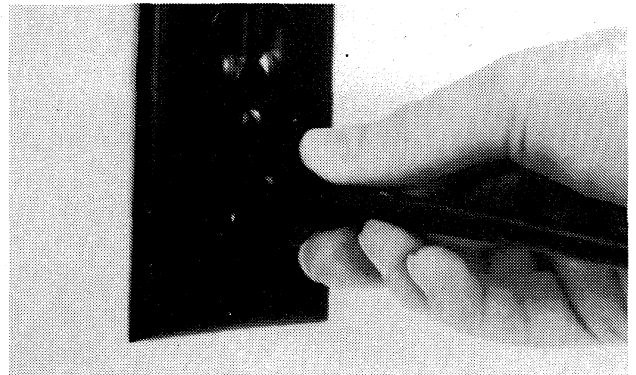
Make certain heater is properly grounded. If extension cord is used, make certain that it is a 3-wire cord and is of the proper wire size for the length.

Make certain the connection between the power cord and the extension cord is not exposed to water.

Disconnect electrical plug before servicing or relocating heater.

Use heater only with a 115-volt, AC, 60-hertz power source.

Use only on a fused circuit of proper voltage and frequency that is capable of handling the load.

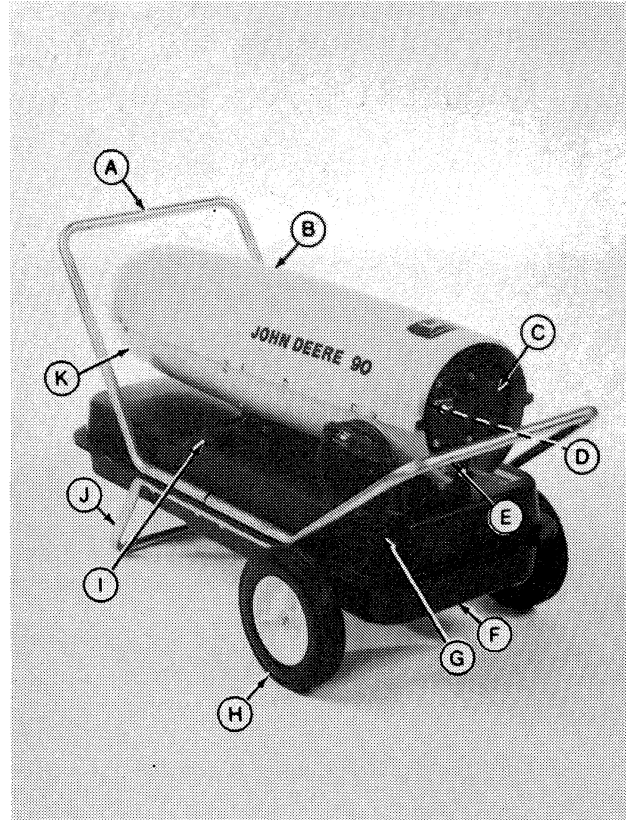


2A4;TY9798 Y05;;12SA E 160686

Identification

- | | |
|---------------------|-----------------|
| A—Handle | F—Fuel Tank |
| B—Upper Shell | G—Power Cord |
| C—Air Intake Filter | H—Wheel |
| D—Circuit Breaker | I—Fuel Tank Cap |
| Reset Button | J—Stand |
| E—Transformer | K—Lower Shell |

John Deere A90 Portable Space Heater Illustrated



2A4;TY9799 Y05;;12ID A 220786

Operation

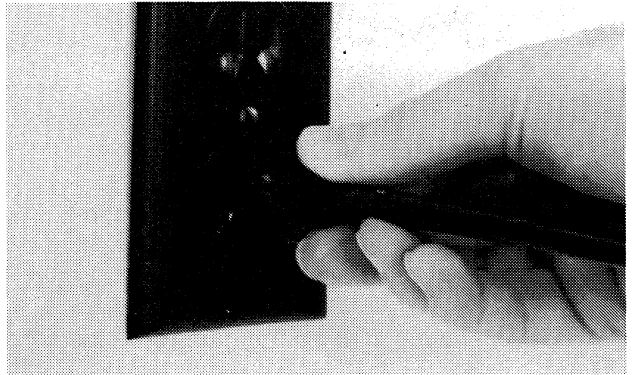
ELECTRICAL SUPPLY



CAUTION: If an additional electrical outlet is needed to operate your heater, it should be installed by a qualified electrician and the installation should conform to the latest edition of the National Electric Code (NF PA No. 70), the REA requirements, and to state and local Codes as may be applicable.

The heater requires a grounded 115-volt, 60-hertz receptacle for a power source. If necessary, use an appropriate grounding adapter to connect to a two-prong receptacle. Check heater amperage requirements in Specifications.

IMPORTANT: DO NOT overload circuit.



2A4;TY9798 Y05;;120P A 220786

EXTENSION CORDS

Use 3-wire (grounded) cord of proper wire size.

Cord Length	100 ft (30.5 m)	200 ft (61.0 m)	300 ft (91.4 m)
Min. Wire Size	14	12	10

Y05;120P B 230786

FILLING FUEL TANK



CAUTION: DO NOT add fuel while the heater is operating. **DO NOT** use diesel, No. 2 fuel oil, gasoline, naphtha, paint thinner, alcohol or other highly volatile fuels. Toxic fumes could be created by using non recommended fuels.

Remove cap from fuel tank and fill with kerosene or No. 1 fuel oil.



2A4;TY9800 Y05;;120P C 220786

STARTING AND STOPPING HEATER

NOTE: If space heater is equipped with a thermostat control-accessory, refer to *Starting Heater Using Thermostat*.

Do not use the heater in confined areas without providing adequate ventilation! Provide a minimum of 3 square feet (0.28 m²) of ventilating area per 100,000 BTU rating.

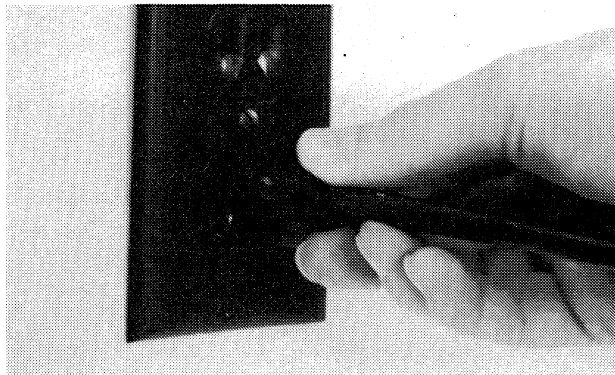
Do not place heater in or near a path where persons may walk.

Check to make sure there is no obstruction in the intake and output openings.

1. Insert plug into grounded receptacle. Heater will start instantly.

NOTE: If heater fails to start, refer to *Reset Button* in this section.

2. To stop heater, remove plug from receptacle.



2A4;TY9798 Y05;;120P D 220786

STARTING HEATER USING THERMOSTAT—ACCESSORY

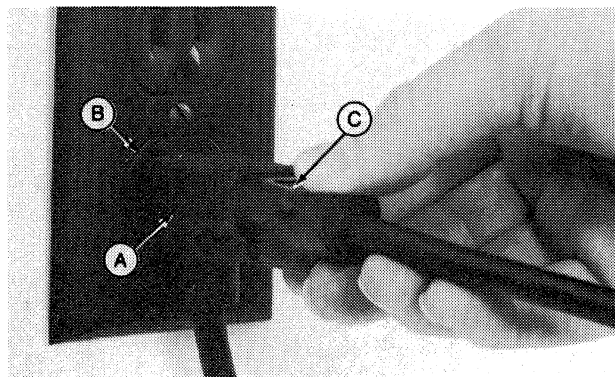
Do not use the heater in confined areas without providing ventilation! Provide a minimum of at least 3 square feet (0.28 m²) of ventilating area per 100,000 BTU rating.

Do not place heater in or near a path where persons may walk. When thermostatically controlled, unit may start at any time.

Check to make sure there is no obstruction in the intake and output openings.

1. Insert thermostat plug (A) into grounded receptacle (B).

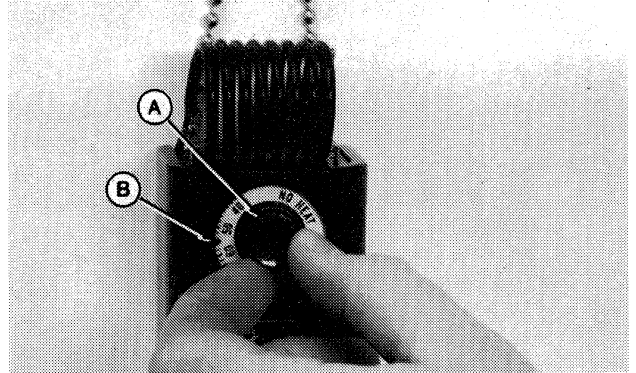
2. Insert heater plug (C) into thermostat plug.



2A4;TY9801 Y05;;120P E 220786

3. Turn control (A) to desired temperature setting at pointer (B). Heater will start instantly, if surrounding air temperature is cooler than thermostat setting.

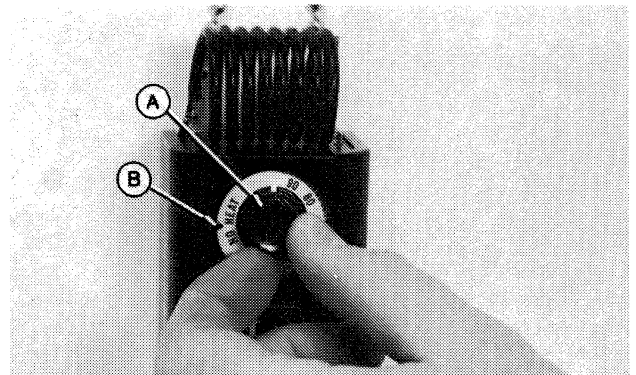
NOTE: If heater fails to start, refer to *Reset Button* in this section.



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STOPPING HEATER USING THERMOSTAT— ACCESSORY

1. Turn thermostat control (A) to “NO HEAT” position at pointer (B).
2. Remove plug from receptacle.



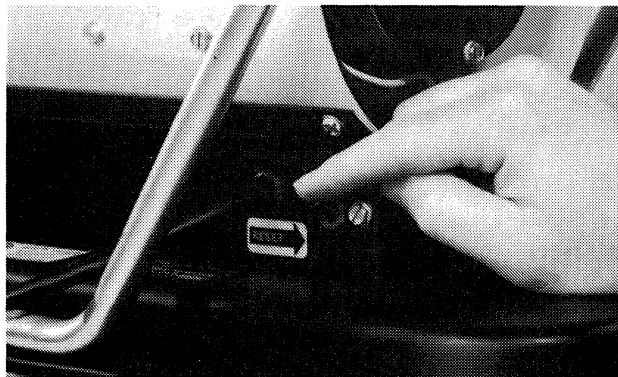
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RESET BUTTON

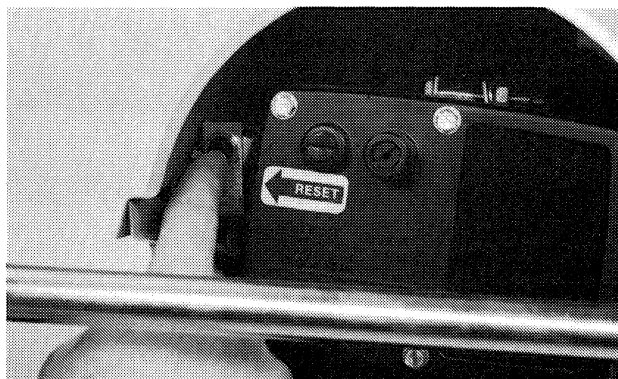
Press reset button if heater fails to start. Heater should start immediately.

NOTE: If button pops out within 15 to 25 seconds, disconnect heater from outlet and refer to Troubleshooting section.

Model A50



Model A90 (Illustrated) and Model A150



2A4;TY9804 TY9805 Y05;;120P H 220786

Troubleshooting

Symptom	Problem	Solution	Page
Motor does not start.	No power or low voltage at heater.	Be sure power is reaching heater; check condition of heater cord. Repair or replace as needed.	—
		Use extension cord with wires heavy enough to carry the electrical load of the heater.	6
		Be sure voltage at outlet is same as shown on heater instruction plate.	—
	Safety control not activated.	Push reset button.	8
	Defective safety control.	See your John Deere dealer.	—
	Damaged motor, motor starting relay, binding pump.	See your John Deere dealer.	—
	Thermostat (if used) damaged or incorrectly set.	Check setting. See your John Deere dealer.	—
	Pump rotor binding or carbon blades worn out.	See your John Deere dealer.	—
	Fan obstructed by mechanical damage or dirt.	Check for bent outer shell.	—
		Check for damaged fan; replace if defective.	18
		Check for damaged motor mount.	—

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Troubleshooting

Symptom	Problem	Solution	Page
Heater will not ignite, but motor runs for a short time.	Fuel tank empty.	Add fuel to tank.	6
	Water in fuel.	Check for water in tank; clean tank and fuel filter if water is found. (Water in the tank will form globules in the bottom, which you can see.)	—
	Wrong fuel.	Fill tank with fresh, clean fuel.	6
	Fuel filter clogged.	Remove and wash in clean fuel. Blow dry and replace.	—
	Nozzle plugged or defective.	Clean by blowing compressed air through nozzle from <i>outlet</i> end of nozzle.	19-20
		Replace nozzle if cleaning does not solve the problem.	19-20
	Low air pump pressure.	Clean air intake filter.	17
	Air leak at fuel line.	Check fuel line for air leaks and for tightness of fitting where line is connected to burner head.	—
	Defective spark plug. (Wrong gap, plug wet with fuel or electrodes carboned, or plug damaged.)	Measure gap between electrodes 0.045 to 0.055-inch (1.1 to 1.4 mm). Adjust electrode gap.	17
		Inspect plug for broken porcelain or electrodes. Replace a damaged spark plug.	17
	Spark plug wire disconnected.	Disconnect heater cord. Connect spark plug wire.	—
	Defective transformer.	See your John Deere dealer.	—
	Cold temperature causes fuel oil to gel.	Do Not use fuel oil at temperatures below 35°F. Use kerosene at temperatures below 35°F.	—

Troubleshooting

Symptom	Problem	Solution	Page
Heater burns, but puffs of smoke can be seen; heater will not burn steady; heater burns with odor; heater smokes continuously.	Heater running out of fuel; water condensation in fuel tank, wrong fuel.	Shut heater off; check fuel tank. If you can see globules of water in the bottom, drain and flush the tank and filter with clean fuel.	—
		Refill with fresh, clean fuel.	6
	Air leak in fuel system.	Tighten fuel line connections.	—
	Dirty air filters causing reduced air flow through nozzle, resulting in low fuel flow.	Remove and clean the air intake filter. To service other filters, see your John Deere dealer.	17
		Be sure air intake is not blocked.	—
	Fuel line/filter loose, dirty or loose connection.	Remove and wash fuel filter in clean fuel.	—
		Check condition of connection between fuel line and burner head.	—
		Replace with new fuel line/filter if problem persists.	—
	Dirty nozzle.	Remove and clean the burner head.	19
		Blow compressed air through nozzle from outlet end. Never use a drill, wire, or other tool to open a nozzle passage.	—
		Replace a defective nozzle.	—
	Low pump output pressure. (Low motor speed, worn pump, pump out of adjustment.)	See your John Deere dealer.	—

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Troubleshooting

Symptom	Problem	Solution	Page
Heater burns, but puffs of smoke can be seen; heater will not burn steady; heater burns with odor; heater smokes continuously—continued.	Loose air output line connections between filter housing and burner.	Be sure connections are tight.	—
	(Remote possibility) Rubber sleeve on shank of nozzle is leaking.	If heater puffs intermittently, replace the rubber sleeve. (Handle parts carefully to prevent damage; assemble them carefully to preserve air tightness.)	—
Flames come out front of heater.	Dirty fan, or air passageway through heater blocked by dirt or trash.	Clean the fan. Be sure the air passageway through the heater is clean. Keep the heater clean.	18
	Pump output pressure is too high, causing too much fuel to be supplied.	See your John Deere dealer.	—
	Fan loose or improperly located on shaft.	Check fan; correct if not right.	18
	Bent or damaged fan.	Replace fan.	18

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Troubleshooting

Symptom	Problem	Solution	Page
Heater cycles intermittently.	Defective thermostat (if used).	Replace a defective thermostat attachment.	—
	Defective electrical supply or defective connections.	Be sure extension cord and heater service cord are in good condition, without intermittent open circuits.	—
		Check mechanical and electrical soundness of all wiring connections in the heater and service cord.	—
	Low voltage supply.	Check power line voltage.	—
Heater ignites, but reset button of circuit breaker pops out anyway.	Dirty sensor.	Clean face of sensor.	16
	Damaged sensor.	See your John Deere dealer.	—
	Damaged sensor control.	See your John Deere dealer.	—
Sensor control circuit breaker fails to trip when a no-flame condition exists.	Defective sensor.	See your John Deere dealer.	—
	Defective sensor control.	See your John Deere dealer.	—
Button on circuit breaker will not stay in when pressed.	Resetting is tried too soon after the breaker trips.	Wait 3 to 5 minutes and try again.	8
	Defective sensor control and circuit breaker.	See your John Deere dealer.	—

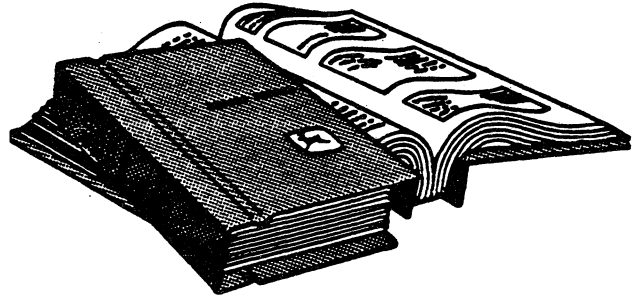
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Periodic Service

ADDITIONAL SERVICE INFORMATION

This manual is not a detailed service manual. It has only information you need for normal operation and maintenance.

If a technical manual is desired, see your John Deere dealer for the correct manual.



2A4;TY1299 9 Y05;;12SE A 160686

USING SERVICE RECORDS

1. Keep a record of the number of hours of operation.
2. Check your record regularly to learn when service is required.
3. Do all the services in the interval section. Then write the number of hours (from your service record) and the date in the spaces provided.

SAMPLE SERVICE RECORD CHART	
DATE	HOURS
1 JUN '85	3
6 JUN '85	2 - (5)
7 JUN '85	1 - (6)
11 JUN '85	4 - (10)
17 JUN '85	3 - (13)

2A4;TY1221 7 Y05;;12SE B 290786

150 HOURS

Drain fuel tank.

Hours				
Date				
Hours				
Date				
Hours				
Date				
Hours				
Date				
Hours				
Date				
Hours				
Date				

2A4;TY1289 2 Y05;;12SE D 290786

250 HOURS

Clean flame sensor.

Clean air intake filter.

Clean and gap spark plug.

Clean fan.

Hours				
Date				
Hours				
Date				
Hours				
Date				
Hours				
Date				
Hours				
Date				
Hours				
Date				

2A4;TY1289 2 Y05;;12SE C 290786

YEARLY

Clean fuel nozzle.
 Drain fuel tank.
 Clean flame sensor.
 Clean air intake filter.
 Clean and gap spark plug.
 Clean fan.

Hours				
Date				
Hours				
Date				
Hours				
Date				
Hours				
Date				
Hours				
Date				
Hours				
Date				

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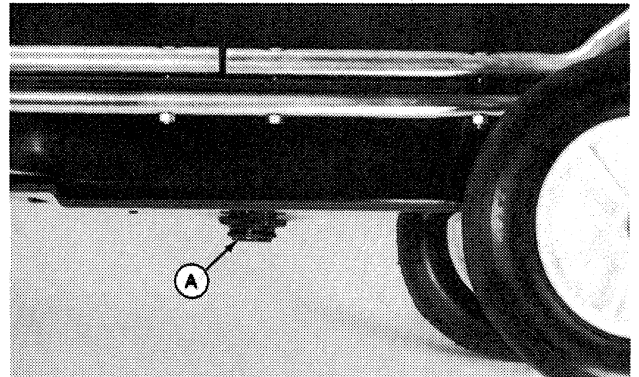


CAUTION: Before performing service, disconnect power cord from electrical outlet. Failure to unplug heater could cause serious injury.

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DRAINING FUEL TANK

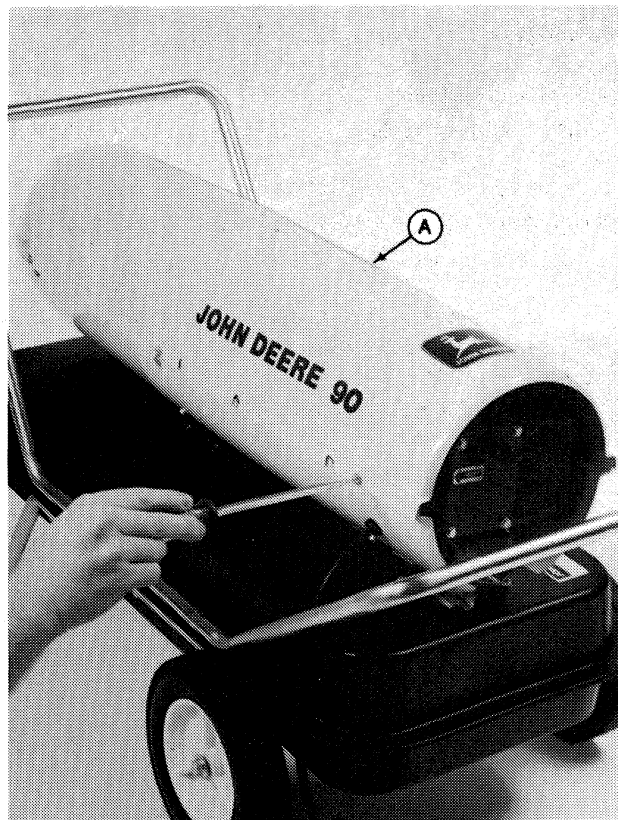
1. Remove drain plug (A).
2. Drain and flush tank with clean fuel.
3. Replace drain plug.



2A4;TY9807 Y05;;12SE G 160686

CLEANING FLAME SENSOR

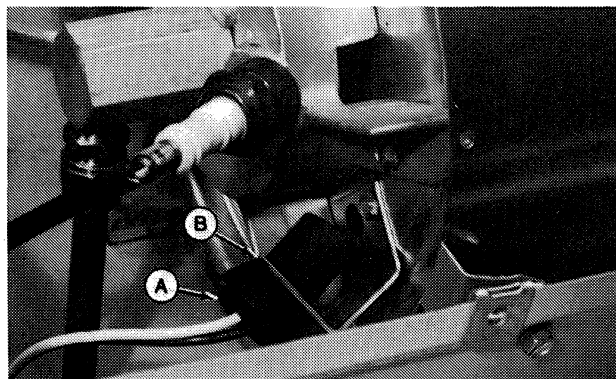
1. Remove upper shell (A) from heater by removing six self-tapping screws.



2A4;TY9806 Y05;;12SE H 160686

IMPORTANT: DO NOT bend flame sensor mounting bracket.

2. Remove sensor (A) from bracket (B) and clean face of photocell with a soft cloth.
3. Insert sensor into bracket.
4. Reinstall upper shell.



2A4;TY9809 Y05;;12SE I 160686

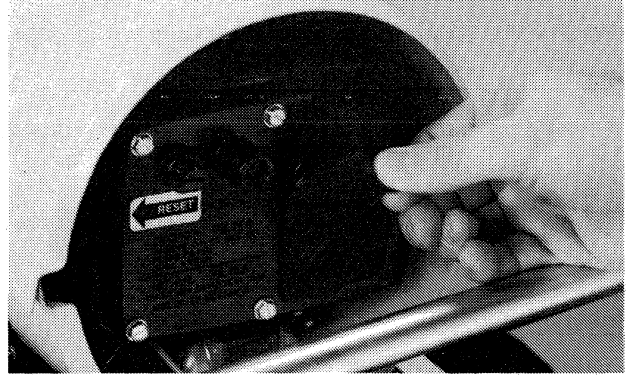
CLEANING AIR INTAKE FILTER

Remove filter and clean in mild detergent and warm water when accumulation of dust or film is evident. Dry thoroughly before reinstallation.

IMPORTANT: DO NOT oil filter or pump, damage could occur.

To service internal filters, see your John Deere dealer.

NOTE: Filter should be replaced once each season.



2A4;TY9810 Y05;;12SE J 160686

CLEANING AND GAPPING SPARK PLUG

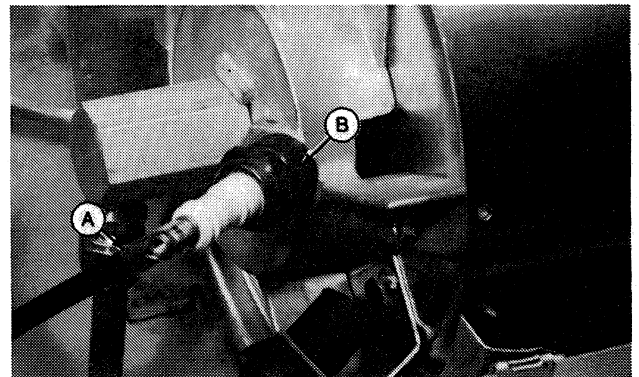


CAUTION: Disconnect power cord before removing spark plug. The spark plug wire carries high voltage during operation. Failure to unplug heater can cause serious shock.

1. Remove upper shell from heater.
2. Disconnect spark plug wire (A) and remove spark plug (B).

NOTE: The model A50 uses a lock nut to secure plug to mounting bracket.

3. Inspect plug for cracked porcelain or eroded electrode and replace if damaged. Refer to steps 5 and 6.



Model A90 Illustrated

2A4;TY9811 Y05;;12SE K 220786

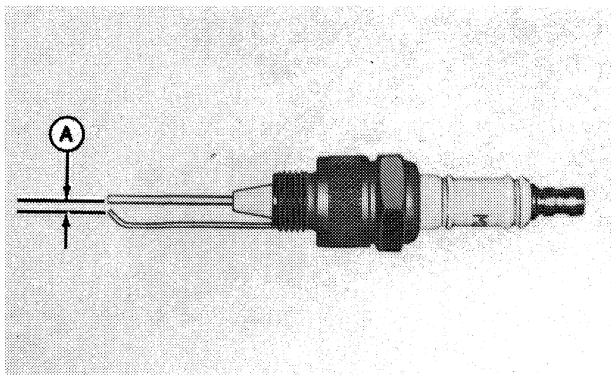
IMPORTANT: Bend outer electrode only when gapping plug.

4. Clean plug in nonflammable cleaning solvent and adjust plug gap (A) to 0.045 to 0.055 in. (1.1 to 1.4 mm).

5. (Models A90 and A150 only). Install plug and torque to 140 to 175 lb-in (16 to 20 N·m).

(Model A50) Tighten lock nut.

6. Connect spark plug wire to plug and install upper cover.



Model A90 Spark Plug Illustrated

2A4;TY9812 Y05;;12SE L 160686

CLEANING FAN

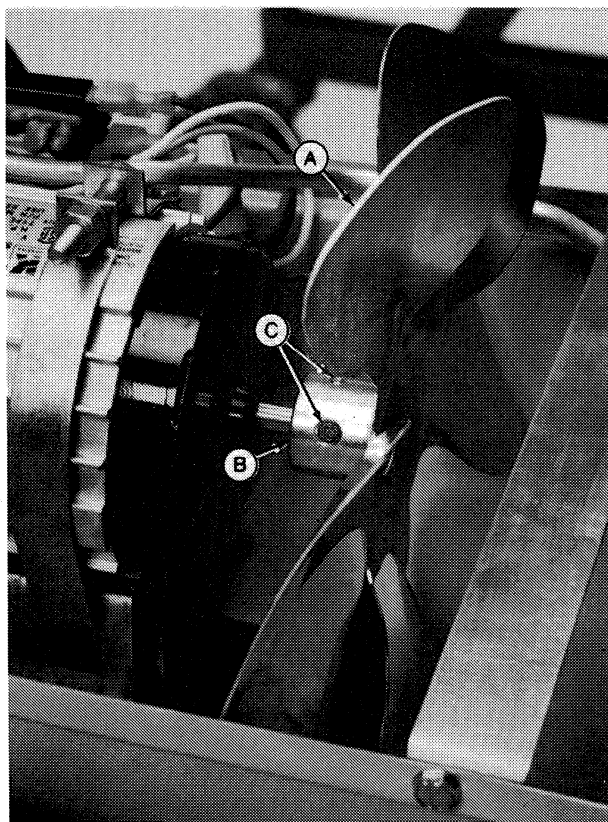
1. Remove upper shell.

2. Clean blades (A) and hub (B) using cloth moistened in nonflammable solvent.

3. If blade edges are worn, feathered, bent or cracked, remove fan by loosening set screws (C) on fan hub.

4. Install fan and tighten set screws.

5. Install upper shell.



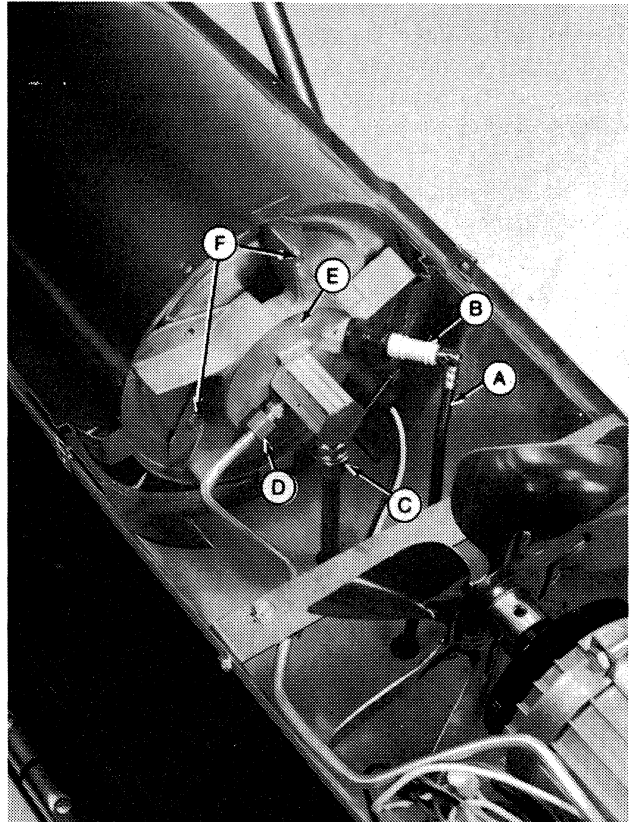
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CLEANING FUEL NOZZLE

1. Remove upper shell.
2. Disconnect spark plug wire (A) and remove spark plug (B).
3. Disconnect fuel line (C) from bottom of nozzle housing.
4. Detach air line (D) from side of nozzle housing.
5. (Model A50). (Not Illustrated) Remove nozzle bracket by removing two self-tapping screws.
6. (Models A90 and A150). Remove burner head (E) by removing three self-tapping screws (F).

A—Spark Plug Wire
B—Spark Plug
C—Fuel Line
D—Air Line
E—Burner Head
F—Self-Tapping Screws

Model A90 Illustrated



2A4;TY9814 Y05;;12SE N 160686

7. (Model A50)(Not Illustrated) Remove nozzle assembly from bracket. (Models A90 and A150) Remove nozzle assembly (B) from burner head (A) using a socket wrench while supporting housing (C).

8. Inspect seal sleeve (D) and spring (E) for damage or deterioration.

9. Use compressed air to clean nozzle tip (F).

IMPORTANT: DO NOT attempt to clean nozzle passage with a wire or any other tool, or damage could result.

10. (Model A50) (Not Illustrated) Install nozzle assembly into bracket. Torque nozzle to 45 to 50 lb-in (6.2 to 6.9 N·m). (Models A90 and A150) Install nozzle assembly into burner head. Torque nozzle to 75 to 110 lb-in (8.5 to 11.3 N·m).

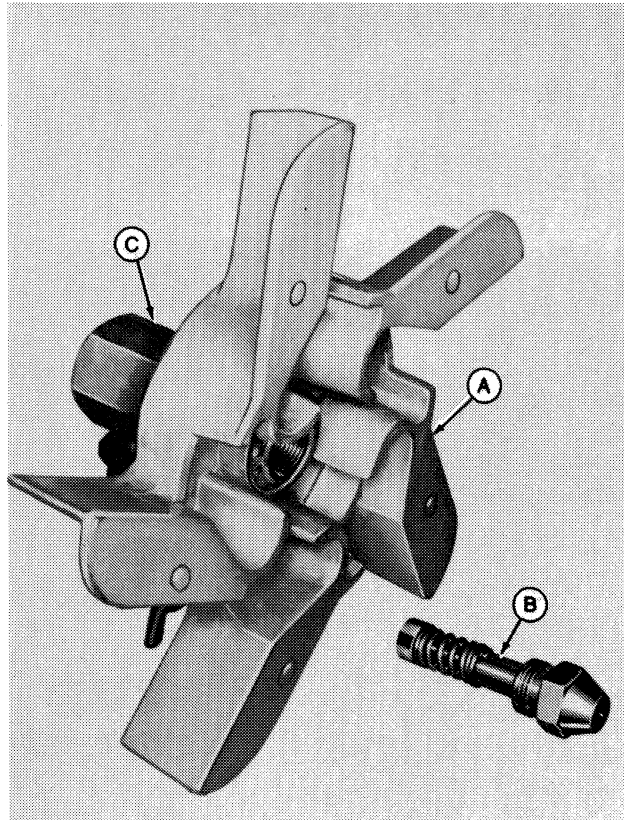


CAUTION: If nozzle is not tightened, fuel will leak into lower shell causing a potential fire hazard.

11. Attach bracket (Model A50) or burner head (Models A90 and A150) into heater.

A—Burner Head
B—Nozzle Assembly
C—Housing
D—Seal Sleeve
E—Spring
F—Nozzle Tip

Model A90 Illustrated



2A4;TY3290 Y05;;12SE 0 160686

Storage

STORAGE LOCATION AND MAINTENANCE

When not in use, store heater in a dry location free of corrosive fumes and dust.

Drain fuel tank and cover the heater to keep out dirt.

When taking heater out of storage, perform the following maintenance procedures. Refer to Service section.



CAUTION: Check for bird, wasp, and rodent nests and other foreign matter. Check for leaks. Inspect the electrical cord for deterioration and damage.

Clean fan.

Clean flame sensor.

Check spark plug gap.

Clean exterior of unit.

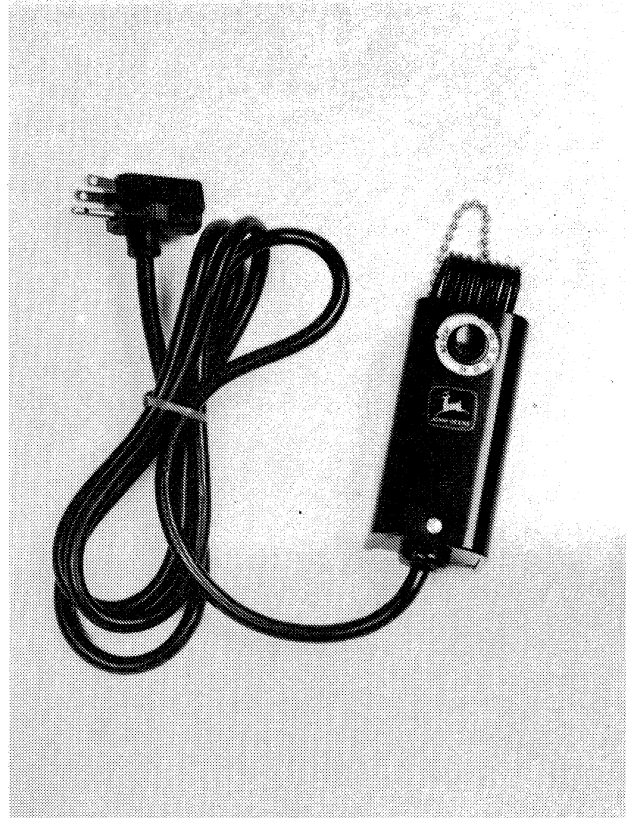
Fill with proper fuel.

Y05;;12ST A 160686

Accessories

THERMOSTAT CONTROL

The TY4207 Thermostat Control is used for controlling room temperature and is available for A50, A90 and A150 Portable Space Heaters.



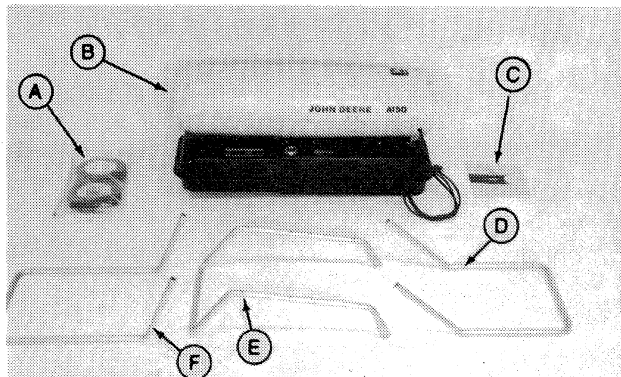
2A4;TY9816 Y05;;12AC A 160686

Assembly

UNPACK COMPONENTS

Remove components from shipping carton and check for damaged or missing parts.

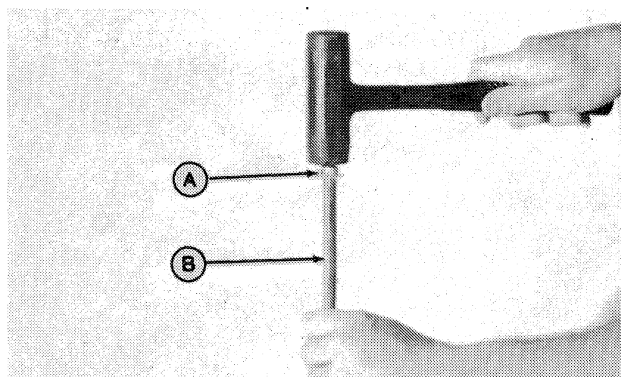
- A—Axle, Wheels, and Hardware
- B—Heater
- C—Operator's Manual
- D—Front Handle
- E—Wheel Support Frame
- F—Rear Handle



2A4;TYB237 Y05;;12AS A 160686

ATTACHING WHEELS AND AXLE

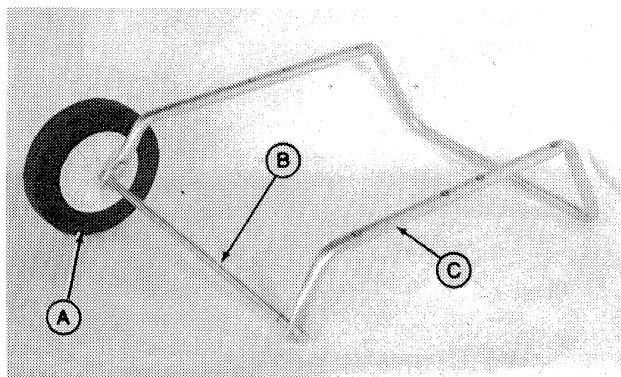
1. Install cap nut (A) onto end of axle (B).



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2. Slide wheel (A) onto axle (B) with extended side of wheel hub away from cap nut.

3. Install axle on wheel support frame (C).

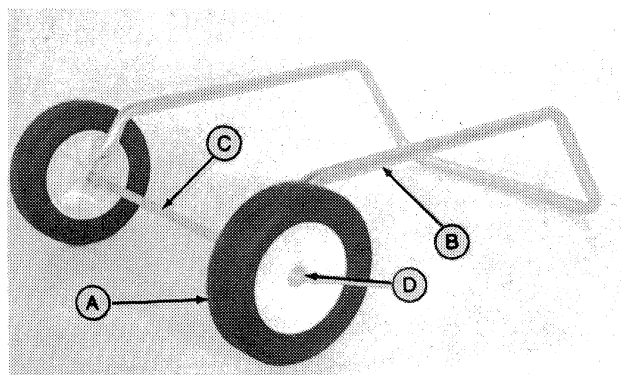


2A4;TYB239 Y05;;12AS C 160686

4. Install wheel (A), with extended side of wheel hub toward wheel support frame (B) onto axle (C).

5. Install cap nut (D) onto axle.

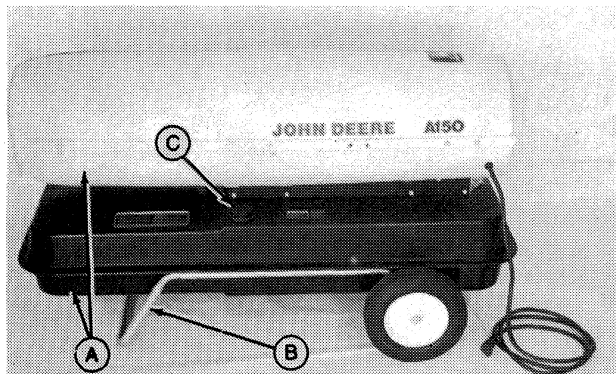
- A—Wheel
- B—Wheel Support Frame
- C—Axle
- D—Cap Nut



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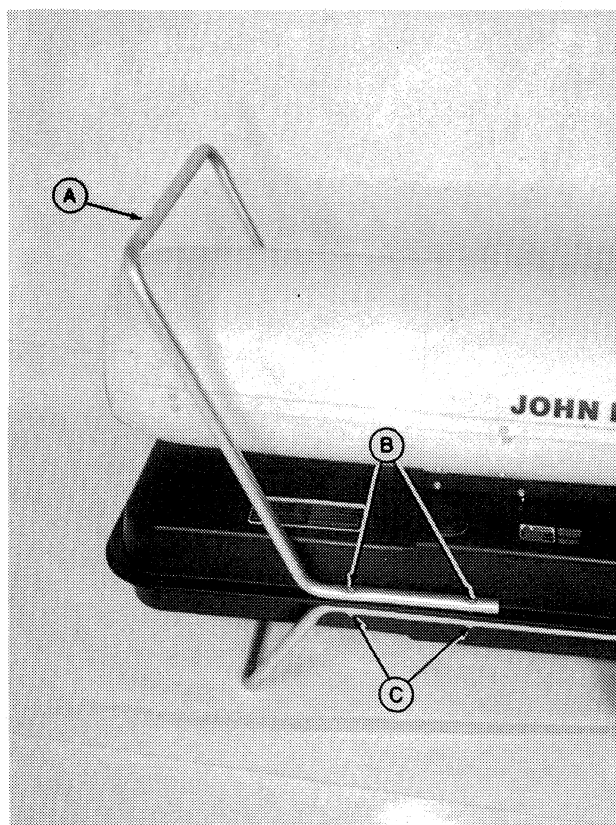
ATTACHING HEATER AND HANDLES

1. Put heater assembly (A) onto wheel support frame (B). Align holes in heater assembly and wheel support frame.
2. Install fuel tank cap (C).



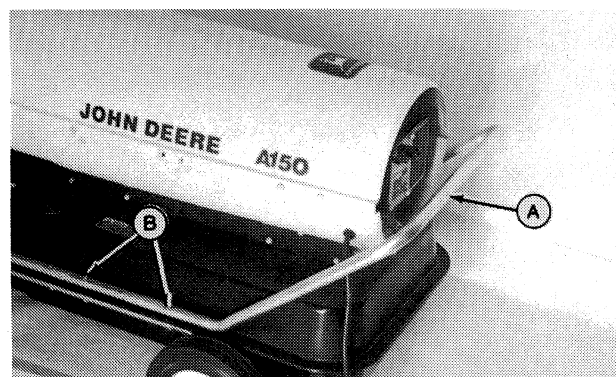
2A4;TYB241 Y05;;12AS E 160686

3. Loosely install rear handle (A) (longer handle) using screws (B) and lock nuts. (C).



2A4;TYB242 Y05;;12AS F 160686

4. Loosely install front handle (A) using screws and lock nuts (B).
5. Securely tighten all screws and nuts.



2A4;TYB243 Y05;;12AS G 160686

Specifications

	Model A50	Model A90	Model A150
Output rating	50,000 BTUH (52.8 MJ)	90,000 BTUH (95.8 MJ)	150,000 BTUH (158.3 MJ)
Air output (approximate)	100 cubic feet per minute (170 m ³ /HR)	250 cubic feet per minute (425 m ³ /HR)	350 cubic feet per minute (595 m ³ /HR)
Fuel	Kerosene or No. 1 Fuel Oil	Kerosene or No. 1 Fuel Oil	Kerosene or No. 1 Fuel Oil
Voltage	115 AC	115 AC	115 AC
Cycle	60 Hz.	60 Hz.	60 Hz.
Amperage (normal operation)	2.9	5.0	5.0
Motor Speed	1,730 rpm	3,450 rpm	3,450 rpm
Weight (empty) (approximate)	40 lbs. (18 kg)	62 lbs. (28 kg)	85 lbs. (38 kg)
Length	30 in. (760 mm)	35 in. (890 mm)	43 in. (1090 mm)
Width	15 in. (380 mm)	19 in. (480 mm)	22 in. (560 mm)
Height	20 in. (510 mm)	21 in. (535 mm)	25 in. (635 mm)
Fuel tank capacity	3.5 U.S. gal. (13.3L)	9.0 U.S. gal. (34.1L)	13.5 U.S. gal. (51.1L)
Fuel consumption	0.36 gal. (1.4L) per hr.	0.66 gal. (2.5L) per hr.	1 gal. (3.8L) per hr.
Motor	1/30 hp (24.9 W)	1/6 hp (124.3 W)	1/4 hp (186.4 W)

(Specifications and design subject to change without notice.)

Y05;;12SP A 220786

SERIAL NUMBER PLATE LOCATION

The space heater serial number is located on corner of fuel tank.

When ordering parts, always give your dealer the model and serial number. For your convenience, record this information below.

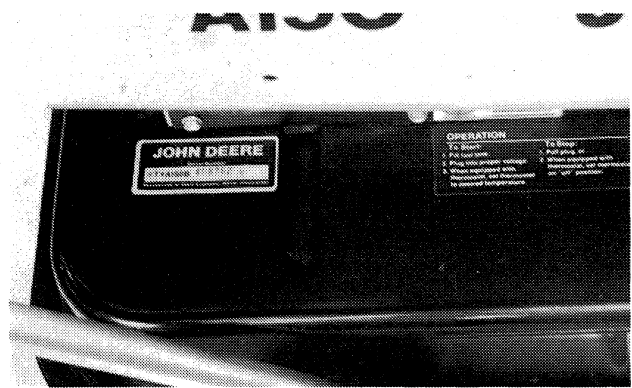
JOHN DEERE PORTABLE SPACE HEATER

Model No. _____

Serial No. _____

Date of Purchase _____

(To be filled in by purchaser)



2A4;TYB244 Y05;;12SP B 220786

THIS SPACE RESERVED FOR OFFICE USE ONLY

John Deere Distribution Service Center
Department S/P
P.O. Box 186, Moline, IL 61266-0186

Please send to . . .

Name _____

Address _____

Town _____ State _____

Zip _____ Phone (____) _____

To order these publications fill out this form and the payment information and mail it to the address above. Make checks payable to Deere & Co. Service Publications. Please allow three weeks for delivery. No COD orders, please. Do not send cash or stamps. To place credit card orders, call 1-800-522-7448. If you want manuals or catalogs for equipment not shown on this list, provide the model number, serial number, and name of the product.

Title	Order Number	Price Each	x Quantity	= Total
A50, A90 & A150 Portable Space Heaters				
Parts Catalog	PC-1358		x	=
Operator's Manual	OM-TY20647		x	=
Service or Technical Manual	TM-1077		x	=
FOS Manual—Engines	FCP-80101B		x	=
FOS Manual—Electrical Systems	FCP-83101B		x	=
FOS Manual—Hydraulics	FCP-82101B		x	=
FOS Manual—Power Trains	FCP-81101B		x	=
Catalogs of Available Service Publications:				
Consumer Product Publications	CPC-1704			
Agricultural Product Publications	CPC-1703			
Industrial Product Publications	CPC-1852			

Subtotal

NOTE: If you want manuals or catalogs not shown on this list, list the model number, serial number and name of the product.

For current prices of John Deere Service Literature, please call 1-800-522-7448

Illinois State Residents add 6%
for Retail Occupation Tax or
show tax exemption number

Check or money order in U.S.
Dollars enclosed Total
(Do not send cash or stamps)

Prices listed effective until 31 December 1986



John Deere is at your service when you need it

It is John Deere's objective to train all of their authorized dealer service personnel effectively so they can handle your service needs. Your dealer therefore has service technicians who are trained to give your machine the best of care. We would encourage you to use the service provided by your dealer whenever possible.

If for some reason you are unable to locate a dealer in your area, our sales branches are available to provide you with such information. The location and listing of such sales branches are shown below. Check the listing for the location of the area in which you reside.

Sales Branch

- | | | |
|--|--|--|
| 1. JOHN DEERE COMPANY
2001 Deere Dr.
Conyers, GA 30208
404-922-7040 | 4. JOHN DEERE COMPANY
1400 - 13th Street
East Moline, IL 61244
309-752-6175 | 7. JOHN DEERE COMPANY
P.O. Box 855
Minneapolis, MN 55440
612-887-6200 |
| 2. JOHN DEERE COMPANY
701 Georgesville Road
Columbus, OH 43228
614-275-1500 | 5. JOHN DEERE LIMITED
P.O. Box 1000
South Service Road at Hunter
Grimsby, Ontario, Canada L3M 4H5
416-945-9281 | 8. JOHN DEERE COMPANY
P.O. Box 20098
Portland, OR 97220
503-667-1191 |
| 3. JOHN DEERE COMPANY
P.O. Box 20598
Dallas, TX 75220
214-352-1701 | 6. JOHN DEERE COMPANY
3210 East 85th Street
Southeast Station
Kansas City, MO 64132
816-361-4000 | 9. JOHN DEERE COMPANY
P.O. Box 4949
Syracuse, NY 13221
315-432-9300 |

