

CLARK
700
SERIES



bobcat

OWNER'S MANUAL

730



CLARK Melroe
Division

CLARK EQUIPMENT COMPANY, GWINNER, NORTH DAKOTA 58040

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WARNING

Do not start the engine unless you are in the seat and have the seat belt fastened.

Normal Starting Condition (Fig. 14)

1. Adjust the seat position for easy operation of the loader and fasten the seat belt. Check that the brake lever is engaged.
2. Make sure that all controls are in the neutral (center) position (A).
3. Put the throttle at 1/2 throttle position (B).
4. Turn the key switch to the "ON" position. Check that the engine and transmission warning lights are on (C).
5. Turn the key switch to "START" and hold it until the engine starts (D).

When the engine has started, the warning lights must go off (E). Stop the engine if the warning lights do not go off. Check for the cause of the problem (Make reference to the "Troubleshooting" section of this manual).

Cold Temperature Starting Condition

If starting temperatures are below 32°F (0°C), do the following procedures to make starting easier:

1. Replace the engine oil with the correct type and viscosity for the anticipated starting temperature (See "Oil Specifications", page 14).
2. Make sure the battery is at full charge.

NOTE: When temperatures below -20°F (-30°C) are anticipated, a way of keeping the hydrostatic oil warm must be used. A low temperature will cause not enough oil to the hydrostatic system and cause serious damage. Park the loader in an area where the temperature will be about 0°F (-18°C) if possible.

To start the engine in cold temperatures:

1. Follow steps 1 through 4 in "Normal Starting Conditions".
2. Pull the choke control out to choke the engine.
3. Turn the ignition key to "start" to engage the starter. Do not run the starter more than thirty seconds if the engine does not start. Let starter cool before engaging again.
4. When the engine is running reduce the choke control and increase throttle setting a small amount. Check that the warning indicator lights are out. When engine is running smoothly, push the choke fully in.
5. Let the engine run at least 5 minutes to warm-up. This is very important for the hydrostatic system. During cold temperature conditions (0°F and below) increase the warm-up time. To warm the fluid faster, tilt the Bob-Tach back and continue to hold the tilt pedal down to let oil go over relief valve pressure.

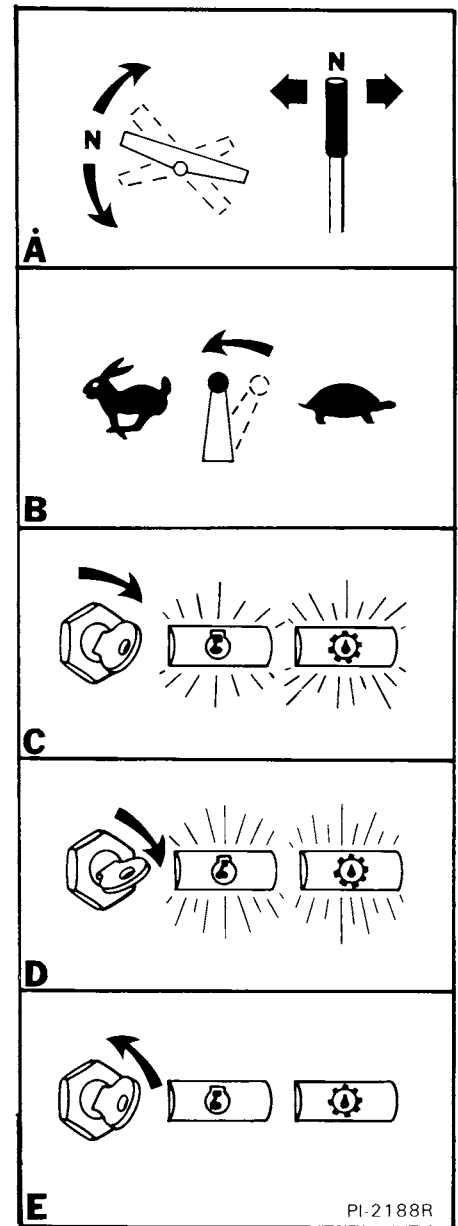
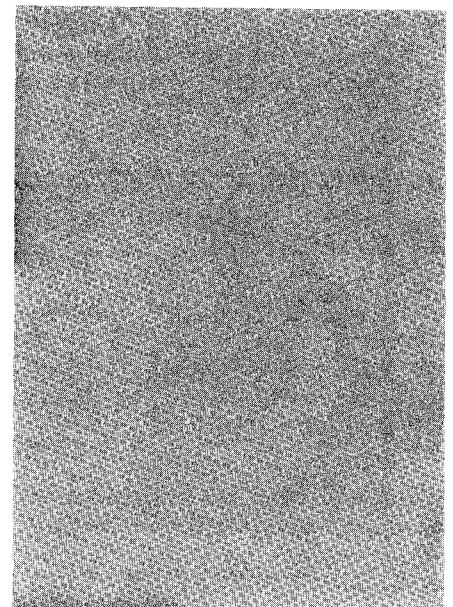


Fig. 14 Starting Procedure



⚠ WARNING

When using air pressure, wear safety goggles to protect your eyes from foreign material. Do not use cold water on a hot engine.

If the engine overheats, make an inspection of the cooling system. Check for foreign material on the grill area and around the cooling fins of the cylinders.

Remove the cylinders covers and end covers (Fig. 30). Use air or water spray to remove the foreign material from the cylinder head area. Replace all engine covers — Do Not operate the engine with air covers removed.

ELECTRICAL SYSTEM

The Bobcat loader is equipped with a 12 volt, negative ground flywheel alternator charge system (Fig. 31 and 32).

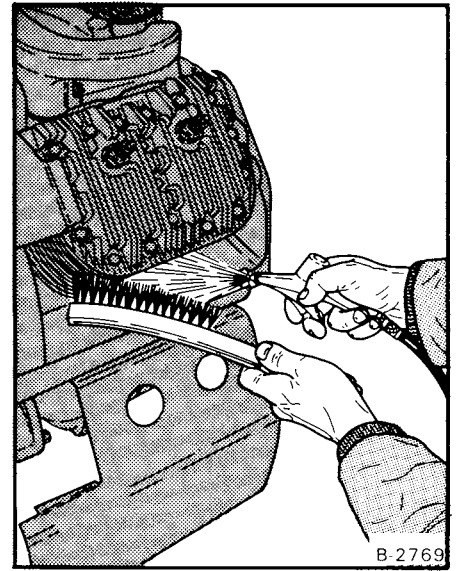


Fig. 30 Cleaning Cooling Fins

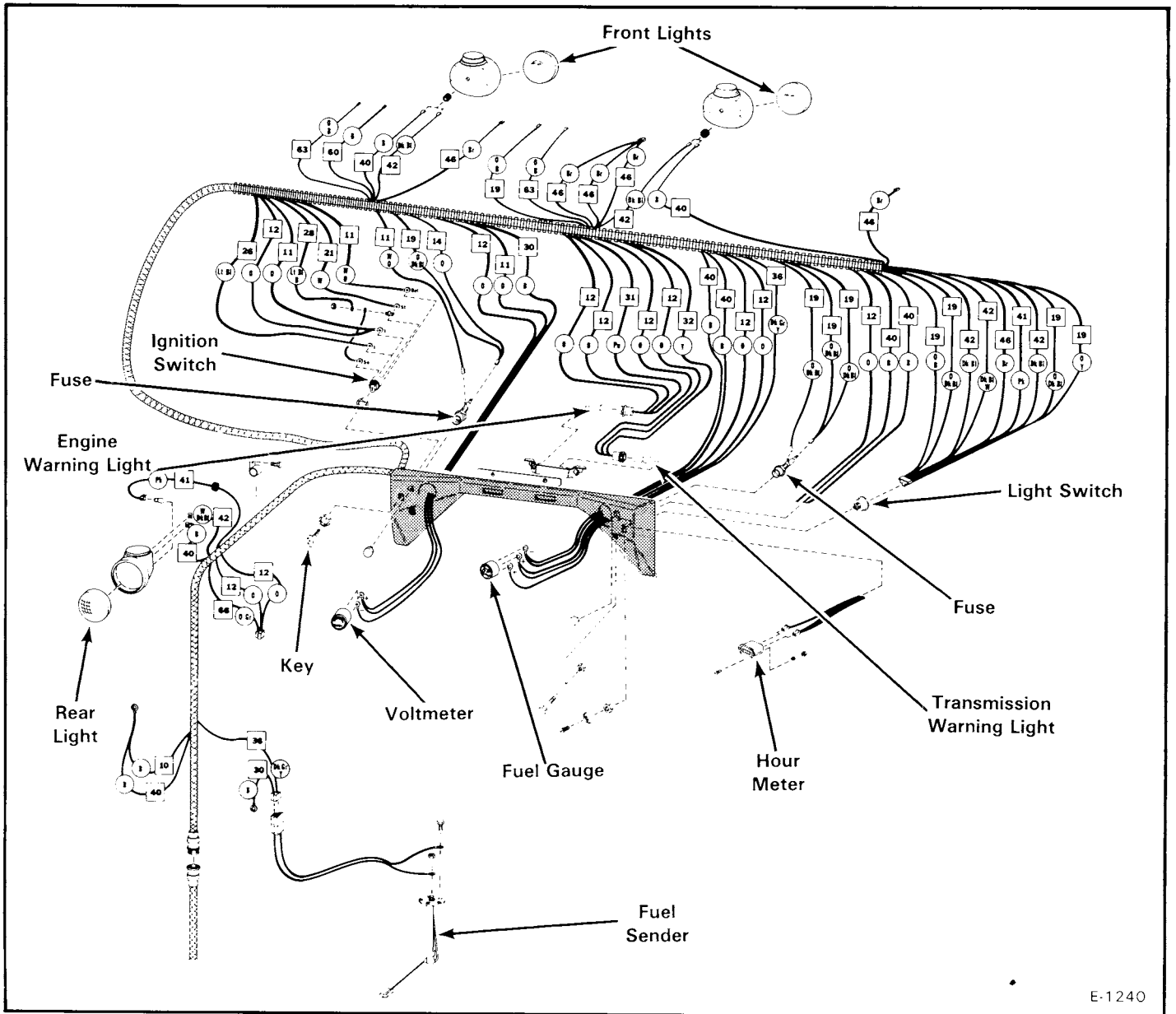


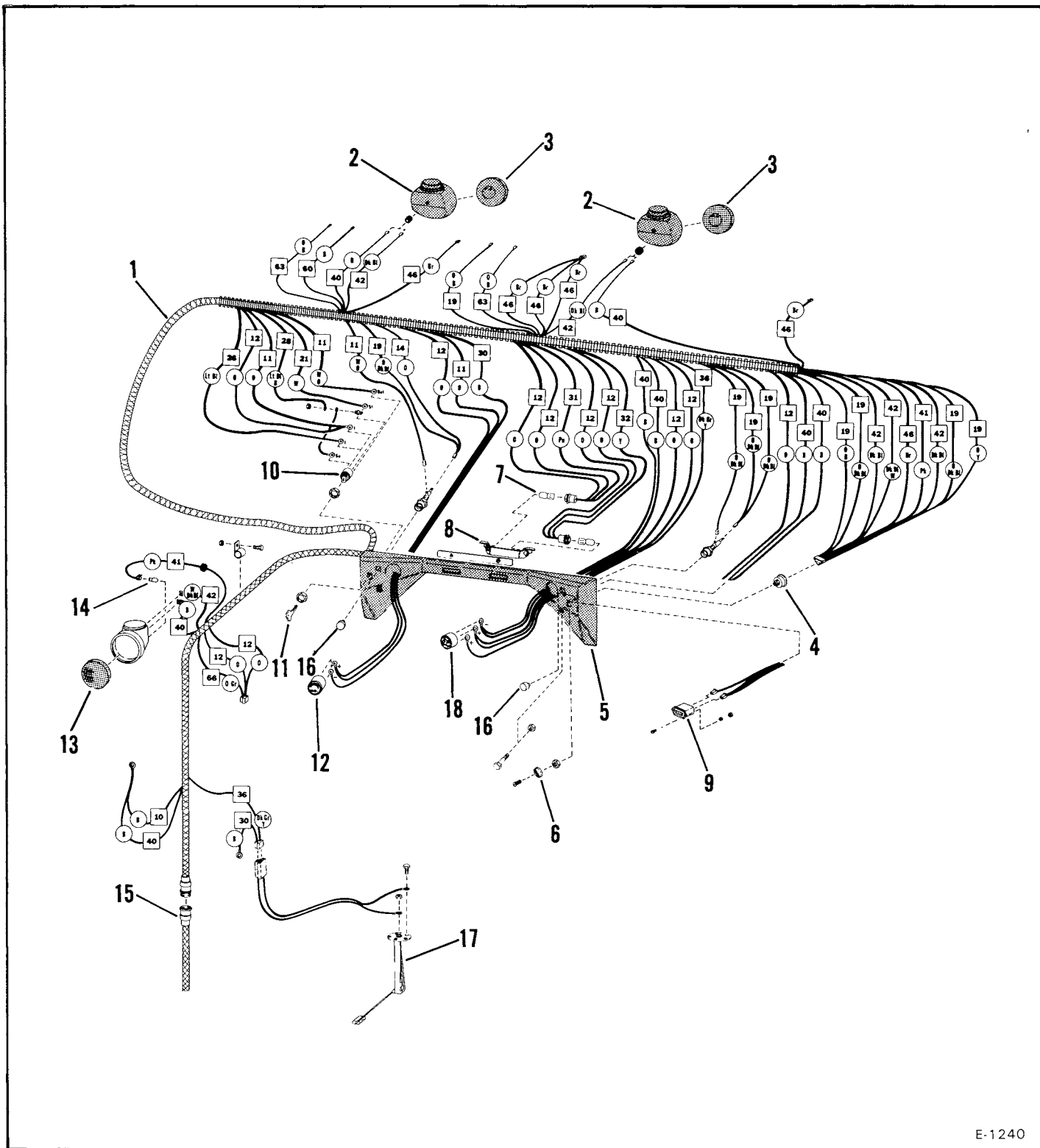
Fig. 31 ROPS Wiring Harness

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PROBLEM	CAUSE	CORRECTION	PAGE
Engine has little power or turns rough. (Cont'd)	Engine is hot.	Clean foreign material from rear door and engine cooling fins.	14
	Dirty air cleaner.	Clean or replace filter element.	12
	Engine has lost compression.	Check compression and repair, as needed.	D/S
Engine overheats.	Coling air flow restricted.	Clean foreign material from rear door and engine cooling fins.	15
	Engine air covers damaged or missing.	Cover or repair air covers.	15
	Engne is overloaded.	Run at full throttle.	—

TROUBLESHOOTING THE DRIVE SYSTEM

No drive on both sides.	Hydraulic oil is low.	Check fluid level and add as needed.	19
	40 Micron filter is plugged. (Note: "Trans" light will be on.)	Clean filter	D/S
	Defective vane pump.	Check condition of pump and replace as necessary.	D/S
	Hydrostatic system is damaged.	Check hydrostatic system.	D/S
No drive on one side.	Control linkage disconnected.	Repair linkage.	D/S
	Hydrostatic system is damaged.	Check hydrostatic system.	D/S
Loader pulls to one side.	Incorrect tire pressure.	Check all tires.	38
	Steering linkage interference.	Check steering linkage.	DS
	Damaged hydrostatic system.	Check system.	D/S
Loader moves when levers are in neutral.	Steering linkage out of adjustment.	Adjust steering linkage.	D/S
System is overheating.	Hydraulic fluid level is low.	Check and add fluid as needed.	19
	Cooling system air flow is restricted.	Clean cooling system. Check for foreign material at the oil cooler.	D/S
	Low charge pressure (transmission light on).	Check by-pass valve.	D/S
	Auxiliary control in detent.	Take out of detent.	21
	Bobcat is overloaded.	Use correct size attachment.	—
	Hydrostatic transmission damaged.	Check hydrostatic system.	D/S
	40 Micron filter is plugged.	Install new element.	D/S
Parking brake will not hold.	Out of adjustment.	Make adjustment.	D/S



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ROPS ELECTRICAL SYSTEM

Ref.	Item	Ref.	Item
1.	Harness, ROPS	10.	Switch, ignition
2.	Housing, light	11.	Key Set
3.	Light	12.	Gauge, voltmeter
4.	Switch, light	13.	Light, rear
5.	Panel, instrument	14.	Bulb, light
6.	Knob	15.	Harness, engine
7.	Bulb, light	16.	Fuses
8.	Bracket	17.	Fuel Sender
9.	Hour Meter	18.	Gauge, fuel

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