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ERV Trailer System

User's Manual



E.H. Wachs Part No. 79-MAN-20
Rev. 1-0911, September, 2011

Revision History:
Original: November, 2009
Revision 1: September, 2011

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Chapter 1

About This Manual

PURPOSE OF THIS MANUAL

This manual explains how to operate and maintain the ERV Trailer System and hydraulic power unit. It includes instructions for set-up, operation, and maintenance, in addition to parts lists, diagrams, and service information to be used when ordering replacement parts and performing user-serviceable repairs.

Before operating the ERV Trailer System, read through this manual and become familiar with all instructions. Also read the manual for the gas engine that powers the hydraulic power unit; this manual describes how to service and maintain the engine.

HOW TO USE THE MANUAL

This manual is organized so that information can be found quickly and easily. Each chapter describes a specific topic on using or maintaining your equipment.

Each page is designed with two columns. The large column on the inside of the page contains instructions and illustrations. Use these instructions to operate and maintain the equipment.

The narrower column on the outside contains additional information such as warnings, special notes, and defini-

In This Chapter

PURPOSE OF THIS MANUAL
HOW TO USE THE MANUAL
SYMBOLS AND WARNINGS
MANUAL UPDATES AND
REVISION TRACKING
COMPONENT MANUALS

Throughout this manual, refer to this column for warnings, cautions, and notices with supplementary information.

tions. Refer to the narrow column for safety notes and other information.

SYMBOLS AND WARNINGS

The following symbols are used throughout this manual to indicate special notes and warnings. They appear next to the section that they refer to, in the outside column of the page. It is important to understand what each symbol means, and follow all instructions for cautions and warnings.



WARNING

A WARNING alert with the safety alert symbol indicates a potentially hazardous situation that **could** result in **serious injury or death**.



CAUTION

A CAUTION alert with the safety alert symbol indicates a potentially hazardous situation that **could** result in **minor or moderate injury**.



CAUTION

A CAUTION alert with the damage alert symbol indicates a situation that **will** result in **damage to the equipment**.



This is the **safety alert symbol** and is used to notify the user of **potential personal injury hazards**. Obey all safety messages that follow this symbol to avoid possible injury or death.



This is the **equipment damage alert symbol** and is used to notify the user of **potential equipment damage situations**. Obey all messages that follow this symbol to avoid damaging the equipment or work piece on which it is operating.

NOTE

This symbol indicates a user note. **Notes** provide additional information to supplement the instructions, or tips for easier operation.



IMPORTANT

An IMPORTANT alert with the damage alert symbol indicates a situation that **may** result in **damage to the equipment**.



NOTE

A NOTE provides supplementary information or operating tips.

MANUAL UPDATES AND REVISION TRACKING

Occasionally, manuals will be updated with improved operation or maintenance procedures, or with corrections if necessary. Revised manuals will include an updated revision history on the title page.

If factory service or upgrades are performed on the equipment and that service changes any technical data or operation and maintenance procedures on the equipment, a revised manual will be returned with the equipment.

Current versions of E.H. Wachs manuals are also available in PDF format. You can request an electronic copy of this manual by emailing customer service at sales@ehwachs.com.

COMPONENT MANUALS

The following manufacturers' manuals are supplied for components of the ERV Trailer System:

- Engine *Owner's Manual* (for gas engine)
- Dexter *Hubs/Drums/Bearings* manual

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Chapter 2

Safety

E.H. Wachs takes great pride in designing and manufacturing safe, high-quality products. We make user safety a top priority in the design of all our products.

Read this chapter carefully before operating the ERV Trailer System. It contains important safety instructions and recommendations.

Also refer to safety information in the gas engine manual.

OPERATOR SAFETY

Follow these guidelines for safe operation of the equipment.

- **READ THE OPERATING MANUAL.** Make sure you understand all setup and operating instructions before you begin.
- **INSPECT MACHINE AND ACCESSORIES.** Before starting the machine, look for loose bolts or nuts, leaking lubricant, rusted components, and any other physical conditions that may affect operation. Properly maintaining the machine can greatly decrease the chance for injury.
- **ALWAYS READ PLACARDS AND LABELS.** Make sure all placards, labels, and stickers are clearly legible and in good condition. You can purchase replacement labels from E.H. Wachs.

In This Chapter

OPERATOR SAFETY

SAFETY LABELS



Look for this symbol throughout the manual. It indicates a personal injury hazard.

- **KEEP CLEAR OF MOVING PARTS.** Keep hands, arms, and fingers clear of all rotating or moving parts. Always turn machine off before doing any adjustments or service.
- **SECURE LOOSE CLOTHING AND JEWELRY.** Secure or remove loose-fitting clothing and jewelry, and securely bind long hair, to prevent them from getting caught in moving parts of the machine.
- **KEEP WORK AREA CLEAR.** Keep all clutter and nonessential materials out of the work area. Only personnel directly involved with the work being performed should have access to the area.

Safety Symbols



This icon is displayed with any safety alert that indicates a personal injury hazard.

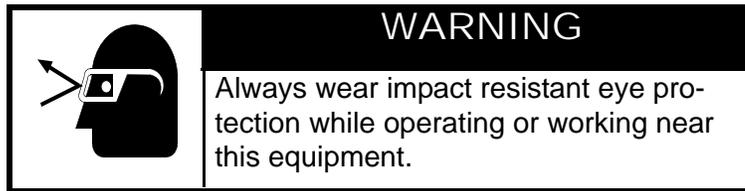
WARNING

This safety alert indicates a potentially hazardous situation that, if not avoided, **could** result in **death or serious injury**.

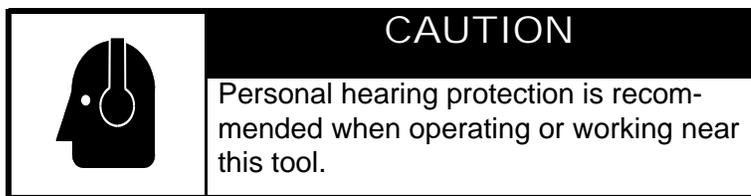
CAUTION

This safety alert, with the personal injury hazard symbol, indicates a potentially hazardous situation that, if not avoided, **could** result in **minor or moderate injury**.

Protective Equipment Requirements



For additional information on eye and face protection, refer to Federal OSHA regulations, 29 Code of Federal Regulations, Section 1910.133., Eye and Face Protection and American National Standards Institute, ANSI Z87.1, Occupational and Educational Eye and Face Protection. Z87.1 is available from the American National Standards Institute, Inc., 1430 Broadway, New York, NY 10018.



Hearing protectors are required in high noise areas, i.e. 85 dBA or greater. Noise level can be increased by the operation of other tools and equipment in the area, reflective surfaces, process noises, and resonant structures. For additional information on hearing protection, refer to Federal OSHA regulations, 29 Code of Federal Regulations, Section 1910.95, Occupational Noise Exposure and ANSI S12.6 Hearing Protectors.

SAFETY LABELS

The following safety labels are included on the ERV Trailer System. (Some labels are associated with optional equipment.) Ensure that all labels are in good condition and legible. Replace any damaged or missing labels. To order replacements, refer to the part numbers in this section and see the ordering instructions in Chapter 6.



Figure 2-1. This warning label is on the top of both trailer fenders. Do not step on the trailer fender to reach any part of the equipment. (Part no. 59-084-00)

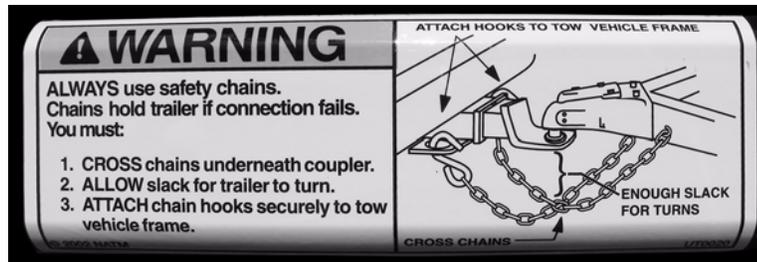


Figure 2-2. The safety chain warning label is on the tongue of the trailer. (Part no. 77-106-20)



Figure 2-3. This warning label is on the back of both trailer fenders. Prior to each use of the trailer, check tire condition and lug nut tightness. (Part no. 77-160-15)



Figure 2-4. This label is on the hydraulic hose reel. When retracting the hose, walk it back to the reel. Do not let the hose snap back into the reel. (Contact the manufacturer, Cox Reels, for replacement labels.)



Figure 2-5. This caution label is on the hydraulic hose reel. Do not disassemble the spring from the reel.



Figure 2-6. This warning label is on the ERV head. Before moving the ERV from the stow position, ensure that the trailer is connected to a tow vehicle (Part no. 79-020-00-01.)

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Chapter 3

Introduction to the Equipment

STANDARD EQUIPMENT

The following standard equipment is provided with the basic 79-000-20 (gas engine) configuration of the ERV Trailer System:

- trailer
- gas engine
- hydraulic system
- ERV-750 valve exerciser
- storage basket

Optional Equipment

The following optional equipment is available for the ERV Trailer System:

- hose reel with 45' of hydraulic hose
- direction control and worklight bar

These components are described in the following sections.

In This Chapter

STANDARD EQUIPMENT

TRAILER

ENGINE

HYDRAULIC POWER UNIT

ERV-750 EXTENDED REACH
VALVE EXERCISER

STORAGE

OPTIONAL EQUIPMENT

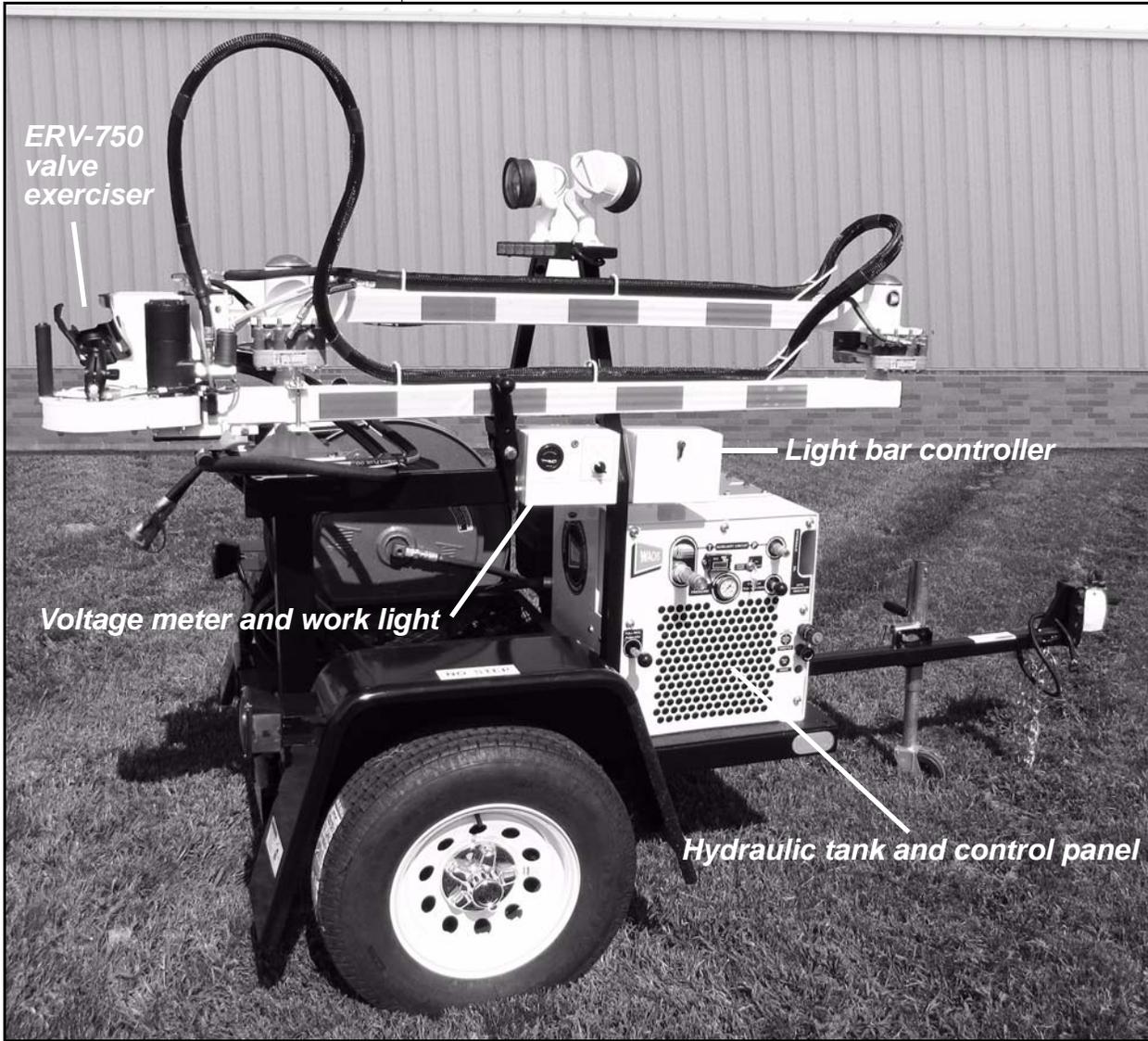


Figure 3-1. The right side of the ERV Trailer System.

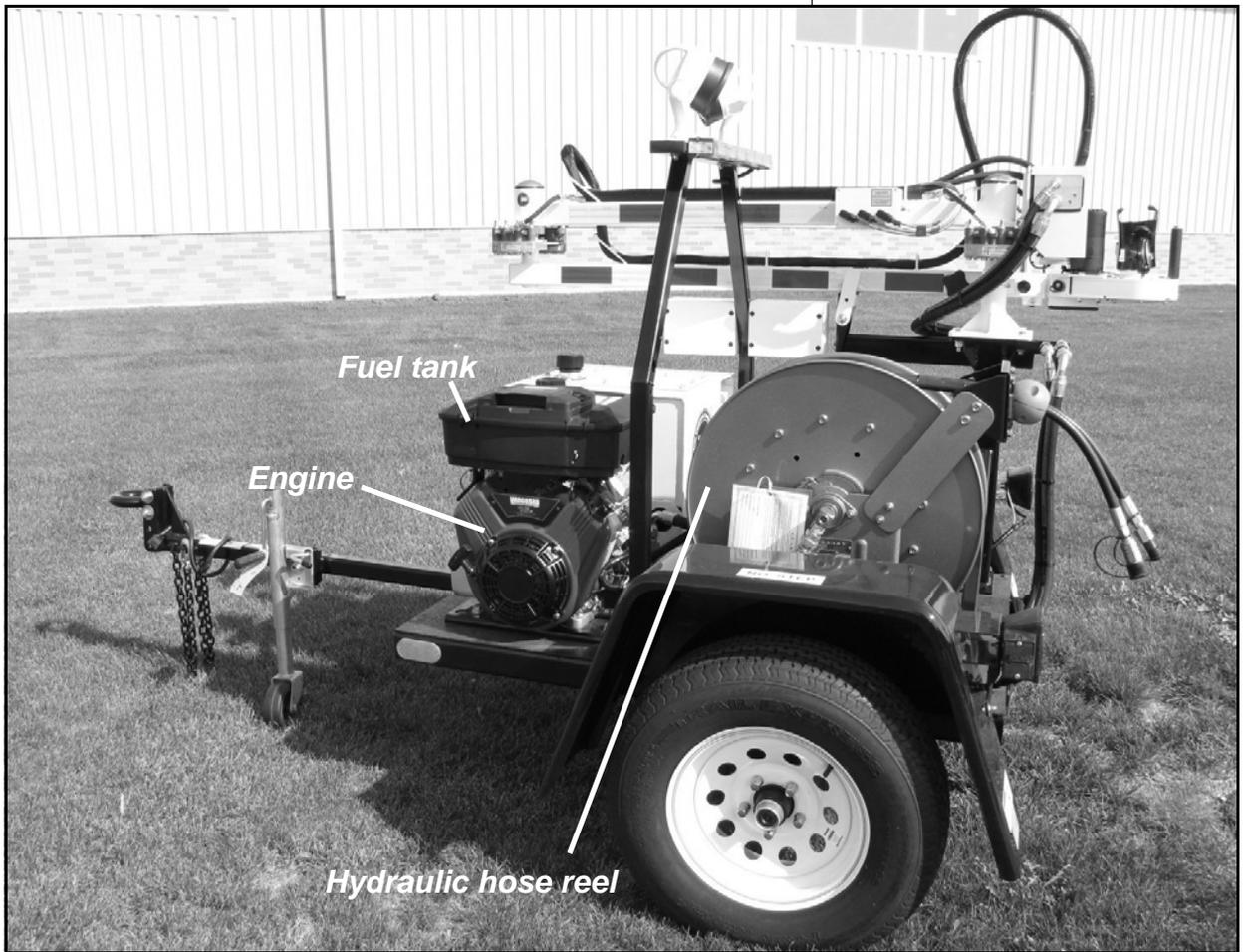


Figure 3-2. The left side of the ERV Trailer System.

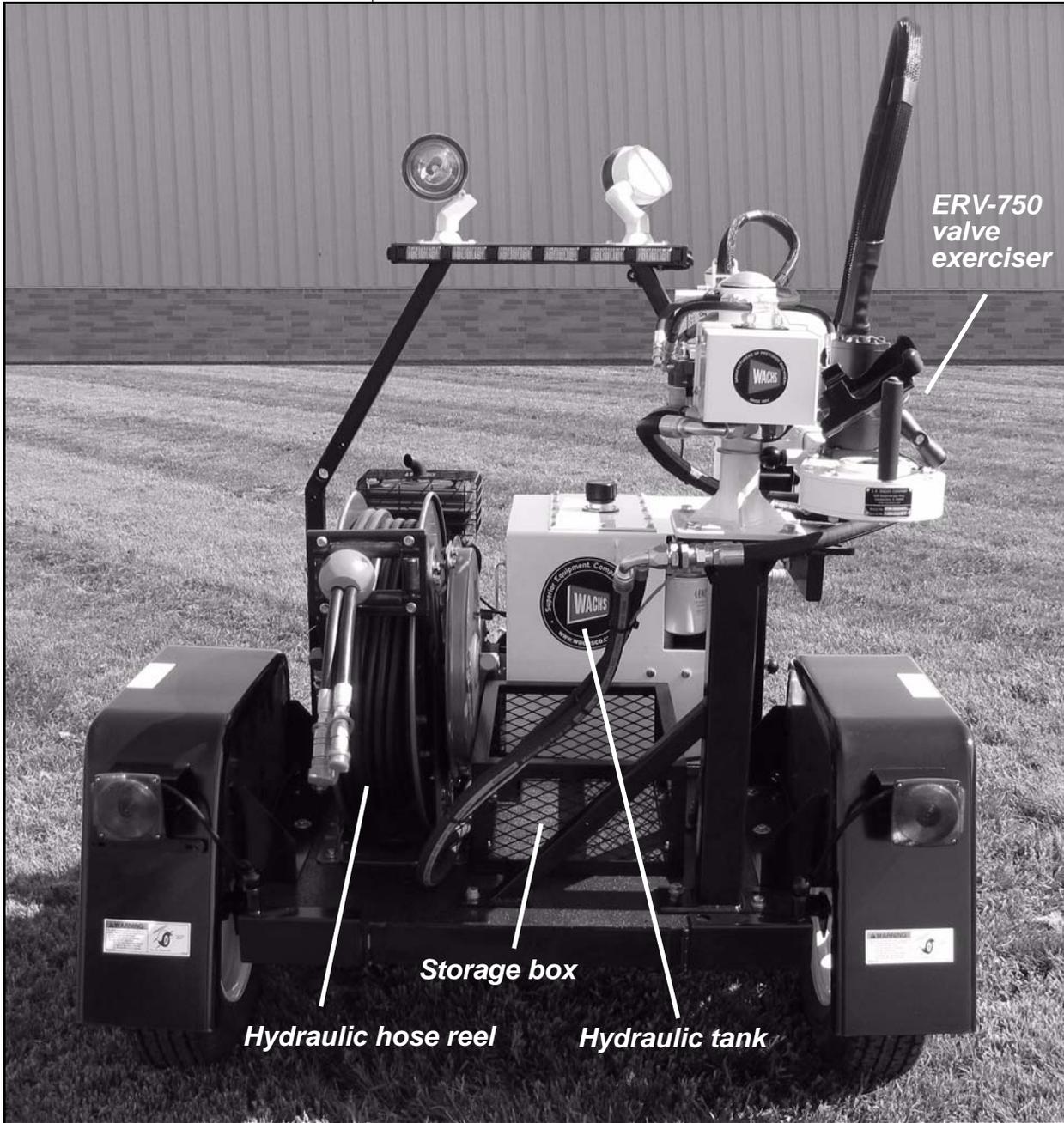


Figure 3-3. The rear view of the ERV Trailer System.

TRAILER

The ERV Trailer System is a single-axle trailer featuring all-steel construction with a box-beam frame and steel deck.

Specifications

Curb Weight:	1200 lbs
Tongue Weight:	200 lbs
Length:	10 ft
Width:	5.5 ft
Height:	6 ft

Trailer Assembly

To reduce shipping volume when shipped via common carrier, the trailer package is typically delivered without the tongue installed. Unpack and inspect all components for damage. If any damage is found, immediately report the damage to the shipping company and your sales representative.

Do not use shipping material and/or shipping supports to support any part of the trailer during tongue installation or trailer service. Use **ONLY** purpose built jack stands and jacks. Use the following procedure to install the tongue and connect the wiring harness for the trailer lights.

1. Position tongue such that the jack is on the left side of the tongue with the safety chain label facing up.
2. Carefully insert the tongue into the receiver, wires first. Take care not to damage the wire and connectors.



WARNING

Use **ONLY** purpose built jacks and jack stands when assembling or servicing the trailer.



CAUTION

The tongue assembly weighs 65 lbs and should be installed using two people.

3. Line up the holes in the tongue with the holes in the receiver. Insert bolts and tighten supplied nuts to 80 lb*ft.



Figure 3-4. Tighten nuts to secure tongue to trailer.

4. Route tongue wires through frame hole as shown in Fig. 3-5. Fold ground wire (white) back and insert the four wire connector through the hole. Use care to avoid breaking the locking tab on the connector. Once the large connector is through, pull the wire harness through until the ground wire and connector clears the frame.



Figure 3-5. Route tongue connectors through frame.

5. Place the ground wire on the stud welded to the frame. Install and tighten the lock nut.



Figure 3-6. Attach ground wire to stud.

6. Connect the four wire connectors. A “click” should be heard indicating the connection is complete. The green weather seal should be fully encased in the mating connector, leaving only a thin ring visible.

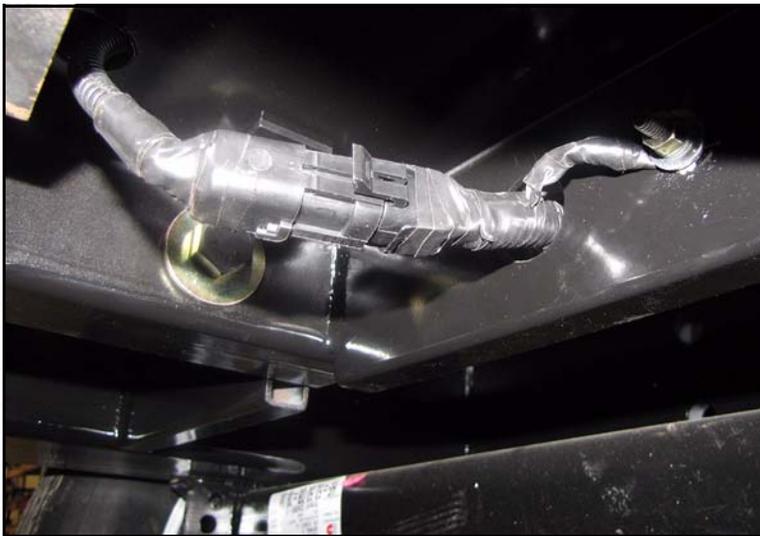


Figure 3-7. Connect four wire connectors.

7. Verify proper operation of the trailer lights.
8. Safely remove jack stands and lower the trailer.

ENGINE

The trailer's equipment is powered by a 16 HP Briggs & Stratton Vanguard V-Twin gasoline engine. This overhead cam, horizontal crankshaft engine is equipped with an electric starter. The engine operates the ERV-750 and hydraulic pump.

The engine operates on 87 octane unleaded gasoline or on 10% ethanol/90% gasoline "gasohol" blend. Use a winter blend fuel when running the engine in cold weather.

The engine is provided with an *Owner's Manual*. Refer to the manual for operating guidelines, maintenance, and service of the engine.



Figure 3-8. The gasoline engine for the ERV Trailer System.

HYDRAULIC POWER UNIT

The hydraulic power unit is designed to supply hydraulic power to the ERV-750 valve exerciser, other Wachs utility tools (except the Trav-L-Cutter), or any HTMA Class II hydraulic tool. It supplies 8 gallons per minute (gpm) flow at a pressure of 2000 psi. The 10 gallon hydraulic oil reservoir has a sight gauge for oil level and temperature. The system includes an auxiliary power port, relief valve, and an oil cooler with an electric fan.

Specifications

Hydraulic supply	8 gpm at 2000 psi
Engine performance	16 horsepower 4 hour fuel endurance
Hydraulic reservoir	10 gallons (37.8 l)
Filtration	10 micron canister filter
Finish	Powder coated white

The hydraulic power unit is shown in the following figures: Figure 3-9 (components of the hydraulic power unit), Figure 3-10 (front panel controls), and Figure 3-11 (engine controls).

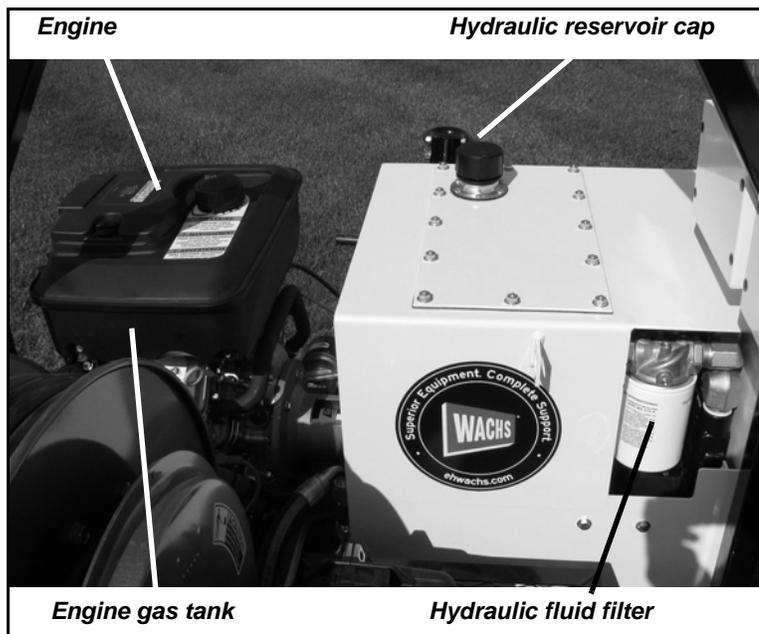


Figure 3-9. Components of the hydraulic power unit.

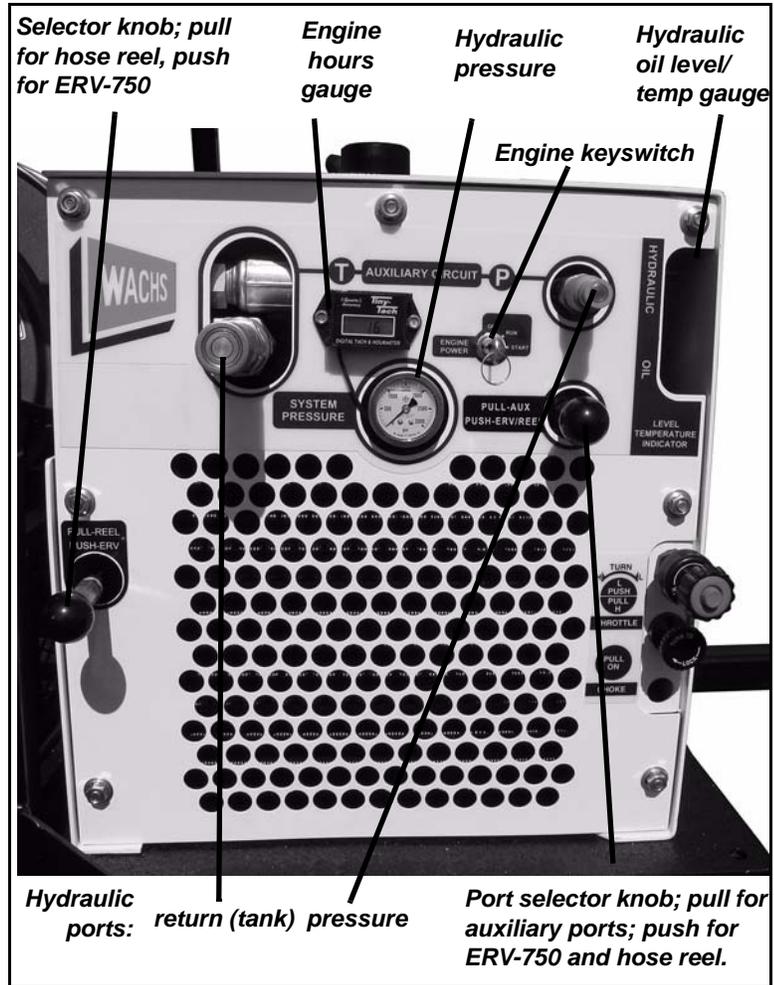


Figure 3-10. Front panel of the hydraulic power unit.

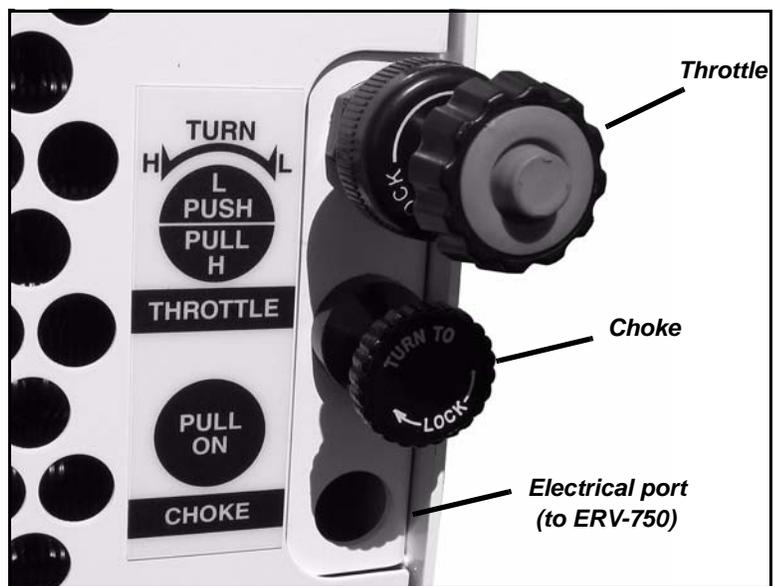


Figure 3-11. Front panel engine controls.

ERV-750 EXTENDED REACH VALVE EXERCISER

The ERV-750 is an extended-reach hydraulic valve exerciser mounted on a pivoting, telescoping arm. It can reach valves up to 13 ft from the curb side of the trailer, and provides up to 750 lb-ft of torque.

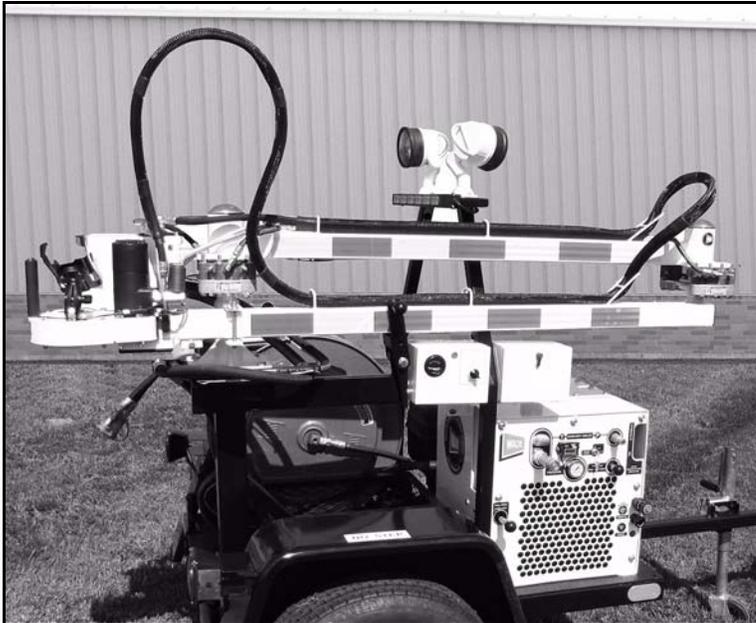


Figure 3-12. The ERV-750 valve exerciser extends on a pivoting, telescoping arm.

The ERV-750 includes a ruggedized handheld controller/data logger for operating the machine and collecting valve exercising data. The controller is available with optional GPS capability (either standard or submeter resolution) for automated valve locating and logging.

The controller is available separately (79-410-00) if a spare or replacement is needed.

The ERV-750 is supplied with a separate manual for operating instructions and parts/service information.



CAUTION

Do not move the ERV-750 from the stow position for operation or service without the trailer connected to a tow vehicle.

STORAGE

Key Storage

Additional storage for valve keys is located beneath the trailer decking on both the left and right sides of the trailer. Access the storage compartments by pulling the knob up and opening the cover toward the inside of the trailer.

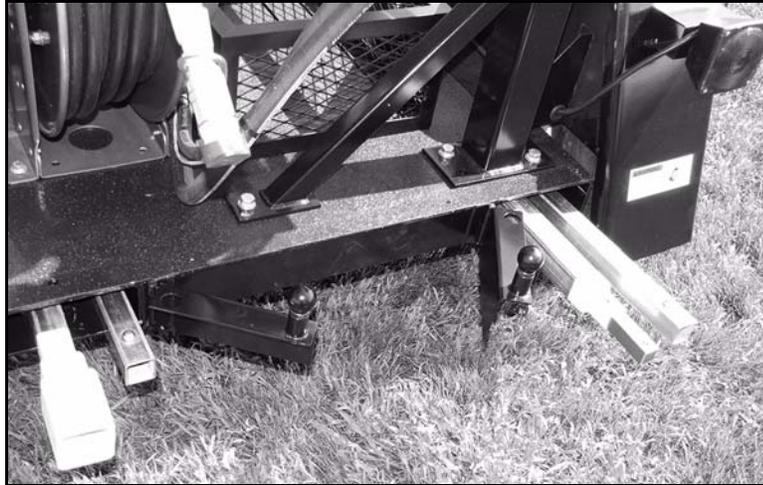


Figure 3-13. Additional key storage is located beneath the decking at the rear of the trailer.

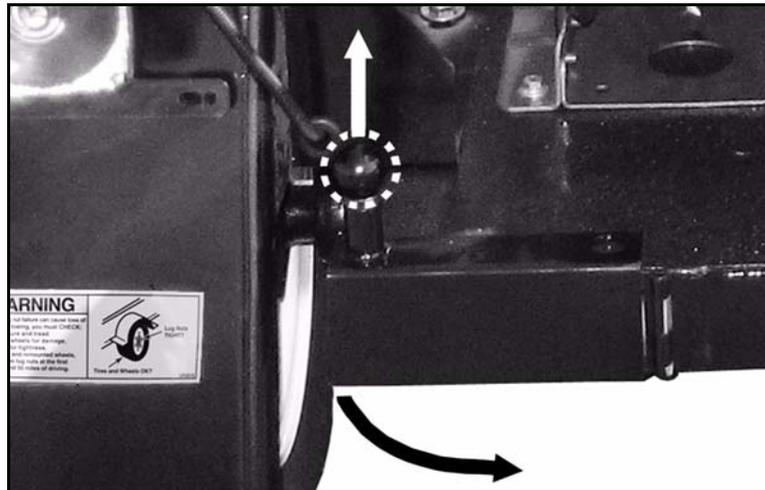


Figure 3-14. Access key storage by pulling the knob up and opening the cover toward the inside of the trailer.

Storage Basket

A storage basket for holding valve keys and other tools is mounted at the rear of the trailer frame.



Figure 3-15. The storage basket is mounted at the rear of the trailer.

OPTIONAL EQUIPMENT

The following equipment items are options available with the ERV Trailer System. The trailer can be equipped with any combination of these options.

Hydraulic Hose Reel

The hose reel supplies 45 ft of 1/2" hydraulic hose (rated 2000 psi) for operating auxiliary equipment. It is plumbed directly to the hydraulic tank and includes quick disconnect fittings to connect to auxiliary tools.



NOTE

The hydraulic hoses are 45 feet long. The hose reel has a ratchet lock; pull the desired length of hose, then stop when the ratchet clicks.

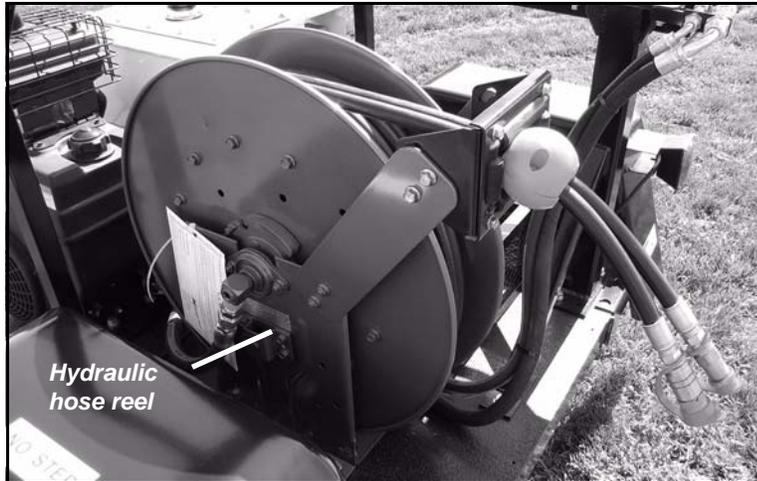


Figure 3-16. The hydraulic hose reel is mounted at the rear of the trailer.

Light Bar

An overhead light bar with work lights and a programmed arrow board is available. The light bar includes an electronic control panel in a watertight enclosure.

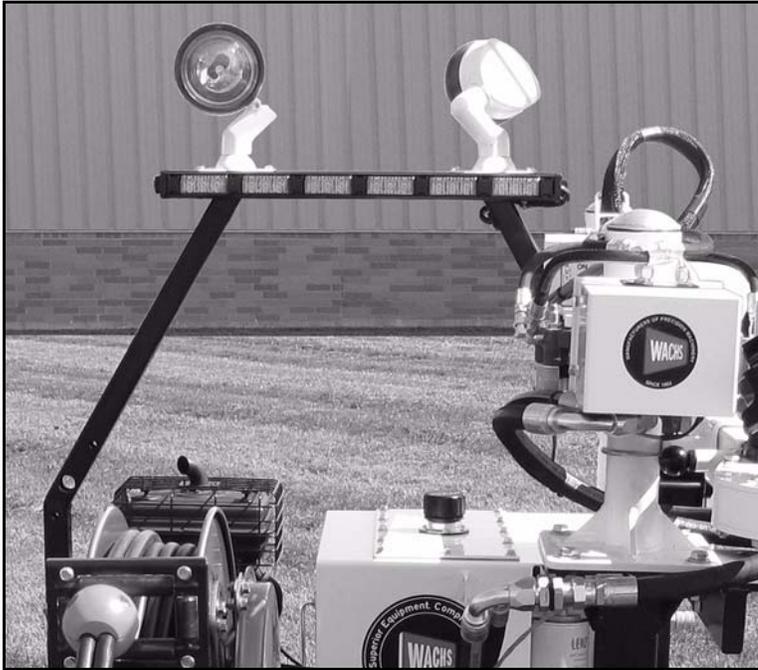


Figure 3-17. The optional direction control and work light.

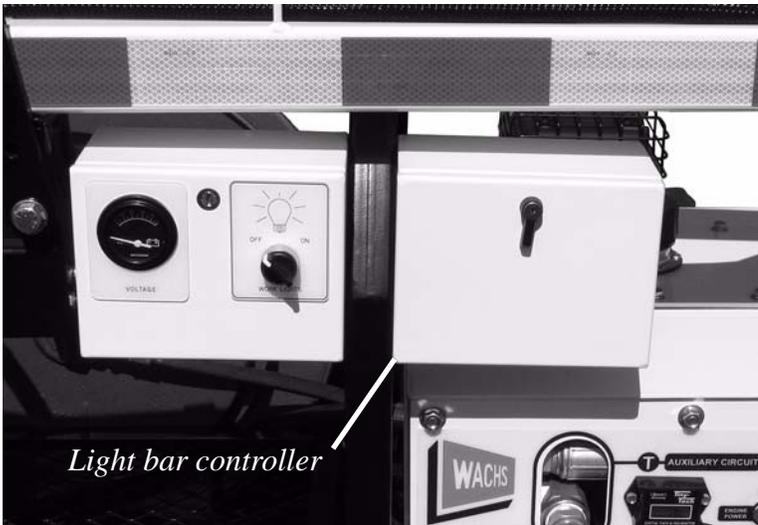


Figure 3-18. The light bar controller is housed in a water-tight enclosure above the hydraulic unit.

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Chapter 4

Operating Instructions

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This chapter provides instructions for towing the ERV Trailer System and starting the engine to power the trailer's equipment.

Specific sections of the chapter provide instructions for operating the following standard and optional components of the ERV Trailer System:

- gas engine
- valve exerciser
- hydraulic system
- light bar

TRAILER FEATURES

Towing the Trailer

Before towing the trailer:

- Remove the key from the engine keyswitch.
- Ensure that the:
 - hitch is properly attached and the safety chains are attached to the vehicle.
 - trailer tail lights, brake lights, and turn signals are functional.
 - jack stand on the trailer hitch is raised.
 - tires are properly inflated.
 - all hoses and attachments are securely stored on the trailer.
- the ERV-750 is secured to the trailer bed with the latches, remove the controller from its cradle and put it in its storage case. Store the case in the vehicle.

In This Chapter

TRAILER FEATURES

STARTING AND RUNNING THE ENGINE

USING THE HYDRAULIC SYSTEM

VALVE EXERCISER

LIGHT BAR OPERATION



NOTE

The engine **MUST** be running to operate the valve exerciser or auxiliary hydraulic equipment.



CAUTION

Use short starting cycles with the keyswitch. Prolonged cranking (more than 15 seconds) can damage the starter motor.

STARTING AND RUNNING THE ENGINE

1. Ensure that there is sufficient fuel in the gas tank.
2. Pull the throttle halfway out.
3. If the engine is cold, pull the choke out.

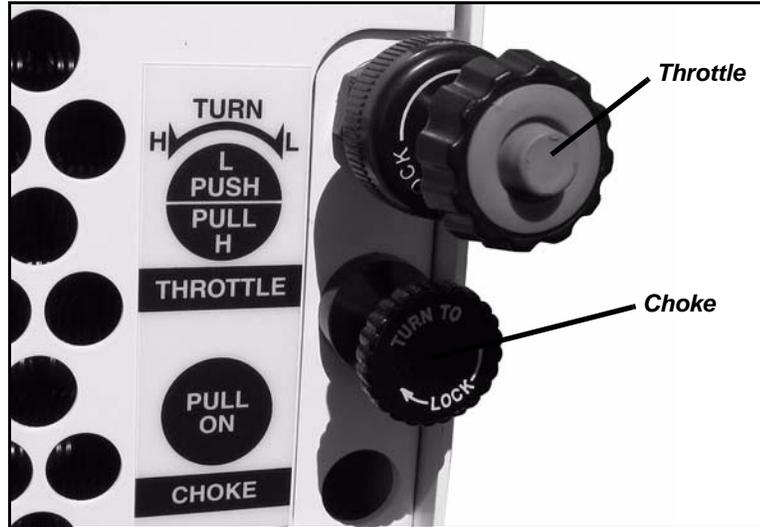


Figure 4-1. To start the engine, pull the throttle halfway out. If the engine is cold, also pull the choke out.

4. Turn the keyswitch on the front panel to **START**. When the engine starts, release the keyswitch back to the **RUN** position.



Figure 4-2. Turn the key to **START**, then release to **RUN** when the engine starts.

5. Allow the engine to run at least a minute to warm up. Push the choke back in.

USING THE HYDRAULIC SYSTEM

Only one hydraulic circuit operates at a time. The ERV-750 is connected directly to the power unit, no hose connections are required. When equipped with the optional hose reel, auxiliary tools may be connected to either the hose reel hose or the auxiliary ports located on the front panel.

To avoid damage to the equipment, ensure that:

- the hydraulic fluid is clean and that there is no air in the hydraulic system.
 - the engine has oil and is running properly. Follow the engine maintenance schedule in the engine manual.
 - all hydraulic connections are secure.
1. To use the ERV-750, push in the knob labeled **PULL-AUX PUSH-ERV/REEL** and push in the knob labeled **PULL-REEL PUSH-ERV**.
 2. To use the optional hose reel, push in the knob labeled **PULL-AUX PUSH-ERV/REEL** and pull out the knob labeled **PULL-REEL PUSH-ERV**.

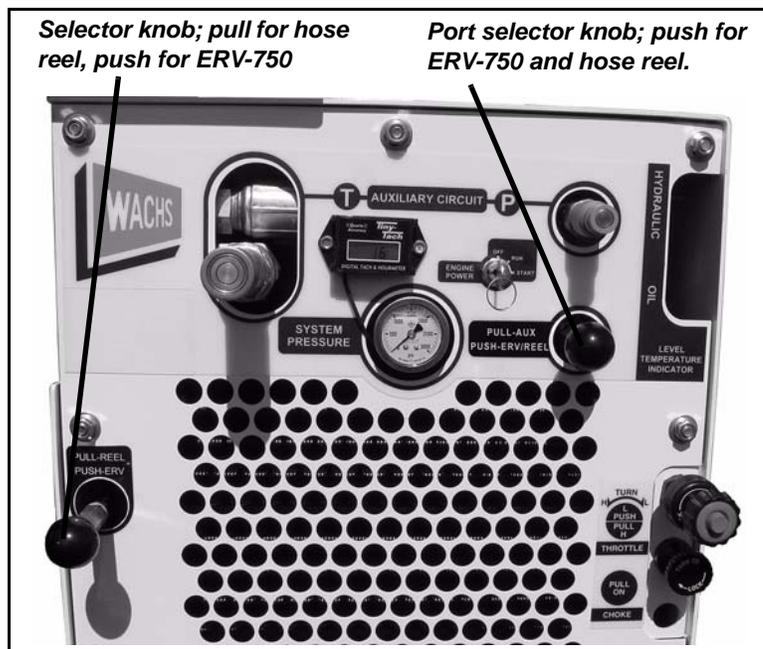


Figure 4-3. To use the ERV-750 or optional hose reel, first push in the port selector knob, then also either pull or push the selector knob labeled **PULL-REEL PUSH-ERV** as appropriate.

3. To use the auxiliary ports, connect the hoses to the hydraulic ports and pull out the port selector knob labeled **PUSH ERV/REEL PULL AUX.**

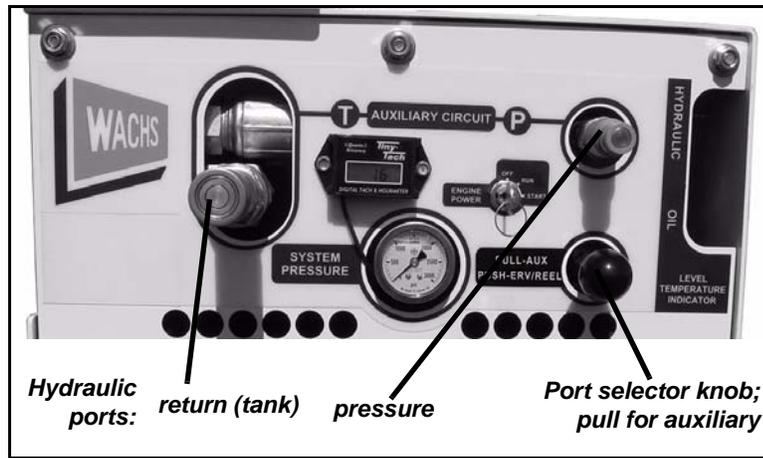


Figure 4-4. To use the auxiliary ports, connect hoses to the hydraulic ports and pull out the port selector knob.

VALVE EXERCISER

The engine must be running in order to operate the valve exerciser. This section describes how to set-up the ERV-750 for use. Detailed instructions on operating the ERV-750 are in the *ERV-750 Extended Reach Valve Exerciser User's Manual*, which is provided with the ERV-750.

The ERV-750 is plumbed directly to the hydraulic tank. The ERV-750 does not require any additional hoses or connectors.

1. To enable hydraulic flow through the valve exerciser ports, push in the knob labeled **PULL-AUX PUSH-ERV/REEL** and push in the knob labeled **PULL-REEL PUSH-ERV**.

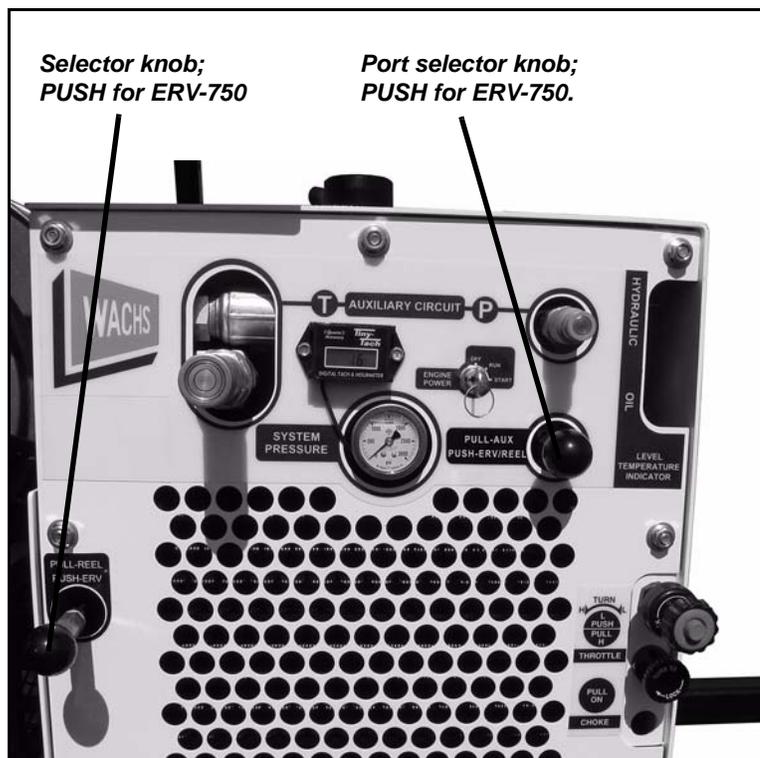


Figure 4-5. Push in both selector knobs to enable hydraulic flow to the ERV-750.



CAUTION

Do not move the ERV-750 from the stow position for operation or service without the trailer connected to a tow vehicle!

2. When not in use, the ERV arm is secured to the trailer with a latch and a quick pin.

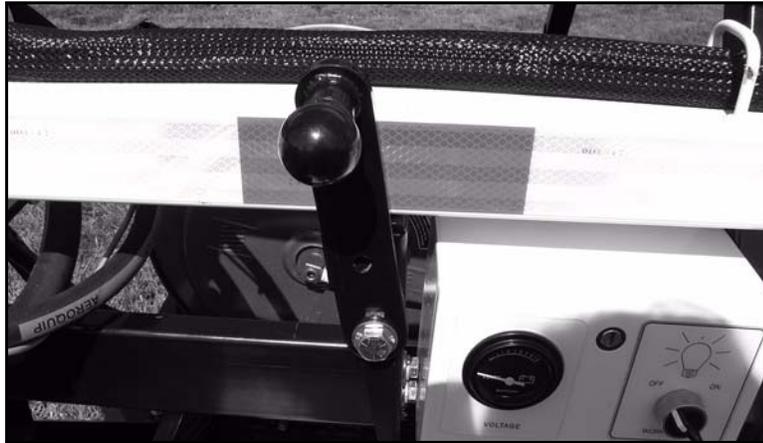


Figure 4-6. Release the latch by pulling the knob.



Figure 4-7. Move the latch down while pulling the knob out.



Figure 4-8. Secure the latch in the open position by releasing the knob under the lip of the arm.

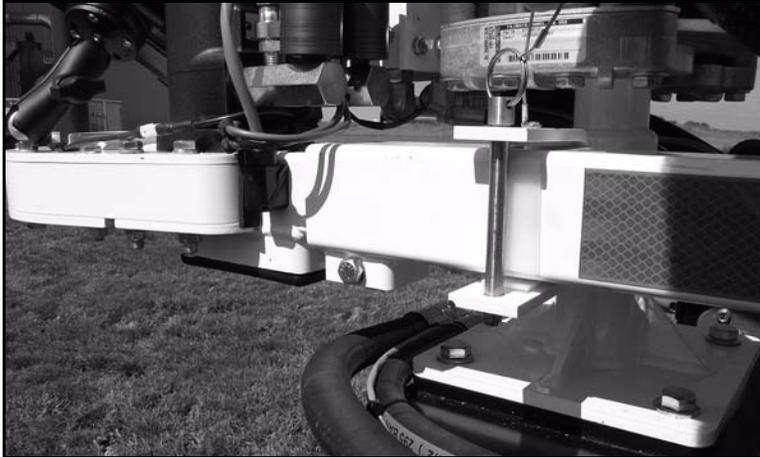


Figure 4-9. Quick pin in the secured position.

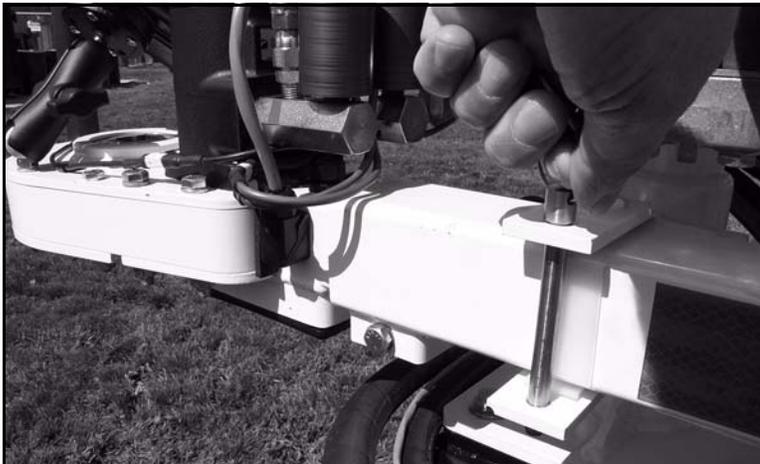


Figure 4-10. Pull the quick pin to release the ERV-750. Let the pin hang behind the arm when released to prevent entanglement of the lanyard.

3. Operate the ERV-750 according to the instructions in the *ERV-750 Extended Reach Valve Exerciser User's Manual*.
4. When finished using the ERV-750, return the arm to the storage position and fasten it with both the latch and the quick pin.

LIGHT BAR OPERATION

The light bar controller is mounted in a box on the right side of the trailer above the hydraulic unit.



Figure 4-11. The light bar controller is inside a box on the right side of the trailer.

1. To access the controller, turn the lock counterclockwise and pull the top of the front cover forward.

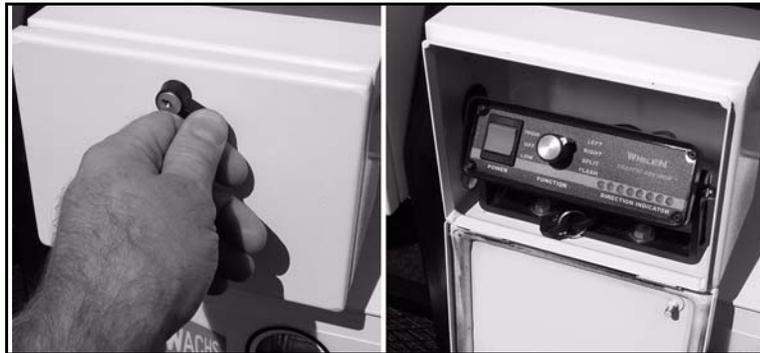


Figure 4-12. Turn the lock counterclockwise to open the controller box.

2. Use the POWER switch to turn on the light bar. Press the switch at the top to select high-intensity light mode, press at the bottom to select low-intensity light mode.

3. Set the function knob to select the light bar display.

LEFT	Left arrow
RIGHT	Right arrow
SPLIT	Alternating right and left arrows
FLASH	All lights alternate on and off in unison

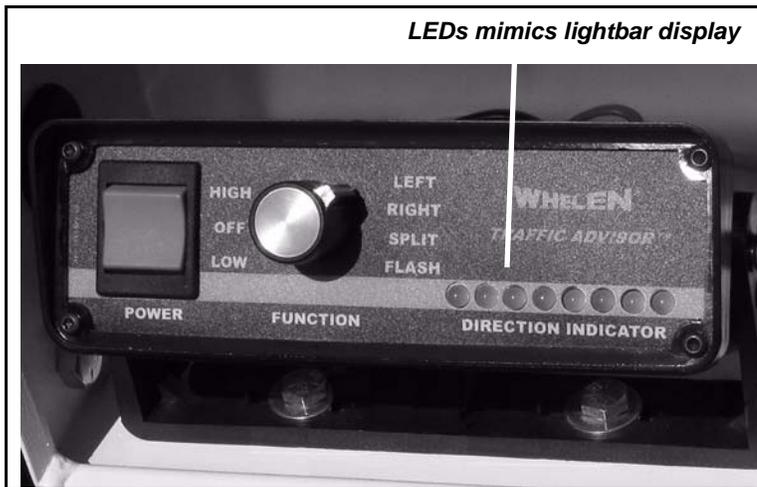


Figure 4-13. Turn the function knob on the lightbar controller to select the display.

4. Close the front cover after the controller is set. To turn off the light bar, toggle the POWER switch to the center position.

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Chapter 5

Routine Maintenance

HYDRAULIC SYSTEM

1. Check the hydraulic oil level prior to using the hydraulic power unit. Add oil if necessary. Keep the oil level at the full mark on the gauge.

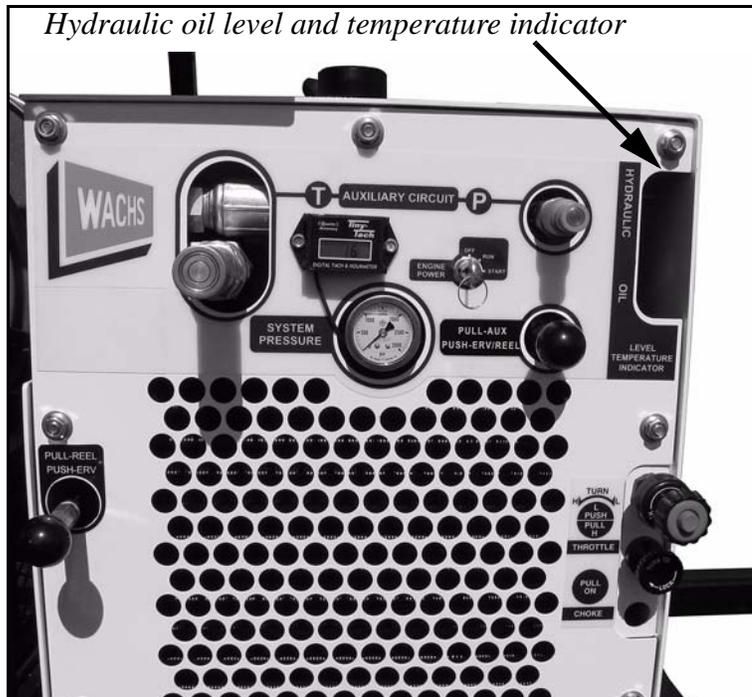


Figure 5-1. Use the sight gauge to check oil level and temperature.

2. Change the hydraulic oil filter once per year.

In This Chapter

HYDRAULIC SYSTEM

ENGINE

REPLACING SWITCHES AND FUSES

REPLACING LIGHT BAR AND WORK LIGHT BULBS

3. Change the hydraulic oil (Mobil, DTE Light, or equivalent) every two years.
4. Check the oil temperature as the pump is operating. If the temperature exceeds 180° F, the oil will break down, and continued operation will damage the pump. Replace the oil if it exceeds 180° F, and check to make sure that the cooler is working.

ENGINE

Check the engine oil level prior to using the ERV Trailer System and add oil if necessary.

*Engine oil
dipstick*

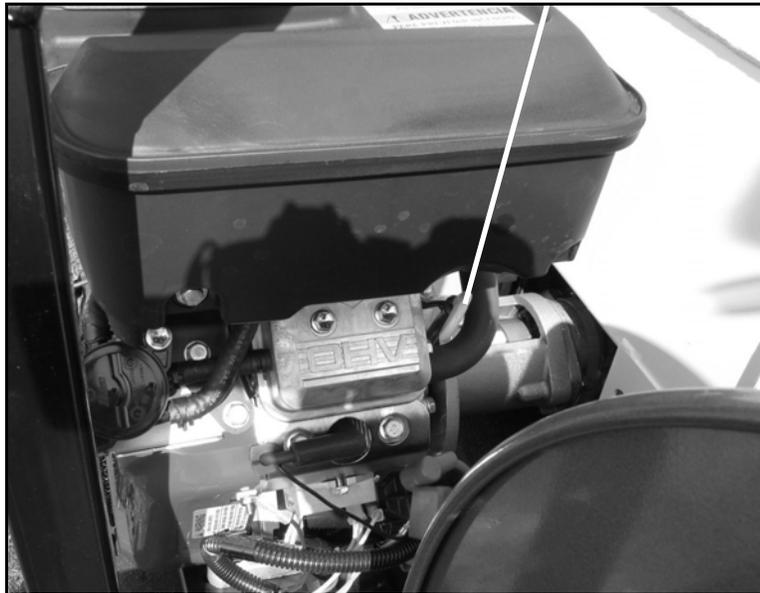


Figure 5-2. Use the dipstick to check engine oil level.

Change the oil every 100 hours of operation. Change the oil filter every 200 hours of operation. Refer to the manufacturer's manual supplied with the engine for maintenance schedules and instructions.

REPLACING SWITCHES AND FUSES

Open the cover for the voltage and work light controls to replace damaged switches and fuses.

1. Turn off power at the engine keyswitch.
2. Use a flathead screwdriver to open the cover.

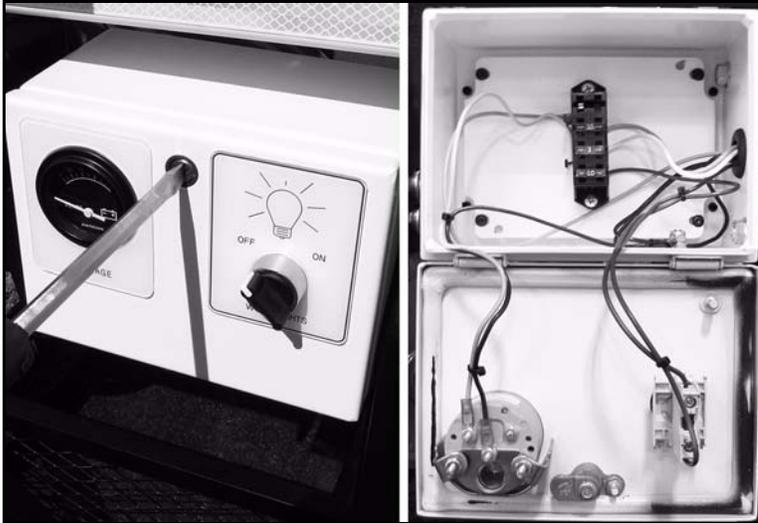


Figure 5-3. Insert a screwdriver to open the cover.

3. Open the cover; switches are on the bottom (cover), the fuse block is on the top.

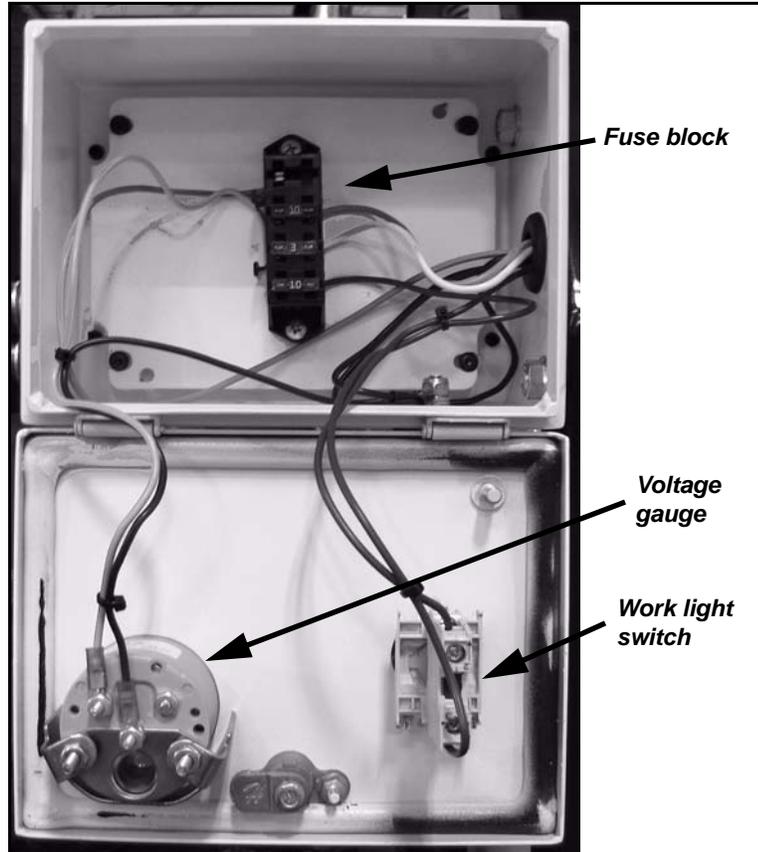


Figure 5-4. Voltage meter and work light switch components and fuse block.

4. To remove a switch or gauge, first disconnect the wires. Use a screwdriver if necessary to loosen the junction screws.
5. To replace a fuse, identify the blown fuse in the fuse block. Pull out the blown fuse and press in a new fuse. Ensure that the new fuse is the correct amperage rating.

REPLACING LIGHT BAR AND WORK LIGHT BULBS

The light bar uses eight individual bulbs that are easy to replace.

Light Bar Flashers

1. Using a Phillips screwdriver, remove the screws holding the cover on the burned-out bulb. Pull the cover off.

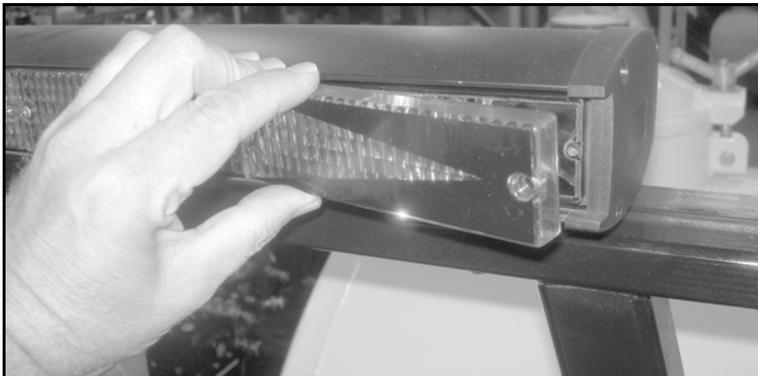


Figure 5-5. Remove the two screws and pull the cover off the burned-out bulb.

2. Twist the bulb in the socket and pull it out.



Figure 5-6. Remove the light bulb from the socket.

3. Insert a new bulb and twist it into the socket.
4. Replace the cover. Do not overtighten the screws.



NOTE

The light bar uses ECCO model R3000BH 35 W halogen bulbs, available from most industrial lighting suppliers.

Work Lights

1. Remove the cover by pulling back the rubber seal around the lamp housing.
2. Pull the bulb out of the rubber seal.



Figure 5-7. Pull the cover and bulb out of the rubber seal around the lamp housing.

3. Remove the wire leads from the bulb.
4. Connect the leads to the new bulb and press it back into the rubber seal.

Chapter 6

Parts List and Ordering Information

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To place an order, request service, or get more detailed information on any E.H. Wachs product, please contact us at one of the following numbers:

U.S. 800-323-8185
International: 847-537-8800

Or visit our Web site at:

www.ehwachs.com

ORDERING REPLACEMENT PARTS

When ordering parts, please provide the part description and part number for all parts to be ordered.

In This Chapter

ORDERING REPLACEMENT
PARTS

REPAIR INFORMATION

WARRANTY INFORMATION

RETURN GOODS ADDRESS

PARTS LISTS AND DRAWINGS

REPAIR INFORMATION

Please call for an authorization number before returning any equipment for repair or factory service. We will advise you of shipping and handling. Include the following information when returning equipment:

- Your name/company name
- Your address
- Your phone number
- A description of the problem or the work to be done.

An estimate of the work to be performed and the associated cost will be provided prior to commencement of service or repairs.

WARRANTY INFORMATION

Enclosed with the manual is a warranty card. Please complete the registration card and return it to E.H. Wachs. Retain the owner's registration record and warranty card for your information.

RETURN GOODS ADDRESS

Use the following address to return equipment for repair:

E.H. Wachs
600 Knightsbridge Parkway
Lincolnshire, Illinois 60069 USA

PARTS LISTS AND DRAWINGS

The following pages illustrate components of the ERV Trailer System. Refer to the figures to identify parts for ordering.

Table 1: ERV Trailer System Parts List

Part No.	Description
59-080-00	Tire/Wheel Assembly
59-097-00	Reflector, Amber
77-213-20	Hub Cover
79-020-01-00	Weldment, Tongue, Straight
77-520-01-03	Tail Light, RH
77-520-01-04	Tail Light, LH
79-020-03-00	Weldment, Fender RH
79-020-04-00	Weldment, Fender LH
79-020-05-00	Hose Assembly, ERV Return
79-020-06-00	Hose Assembly, ERV Pressure
79-120-04-00	Basket
79-120-05-01	Hose Assembly, Return
79-120-05-02	Hose Assembly, Pressure
79-120-05-03	Machine Return
79-220-01-00	Hose Assembly, Reel Return
79-220-02-00	Hose Assembly, Reel Pressure
68-177-21	Volt Meter
68-179-02	Switch, Work Light

Table 2: Optional Equipment List

Part No.	Description
79-220-00	Hose Reel Kit
79-420-00	Light Bar Kit
11-408-00	Telescoping Key
11-409-00	Telescoping Key, Short

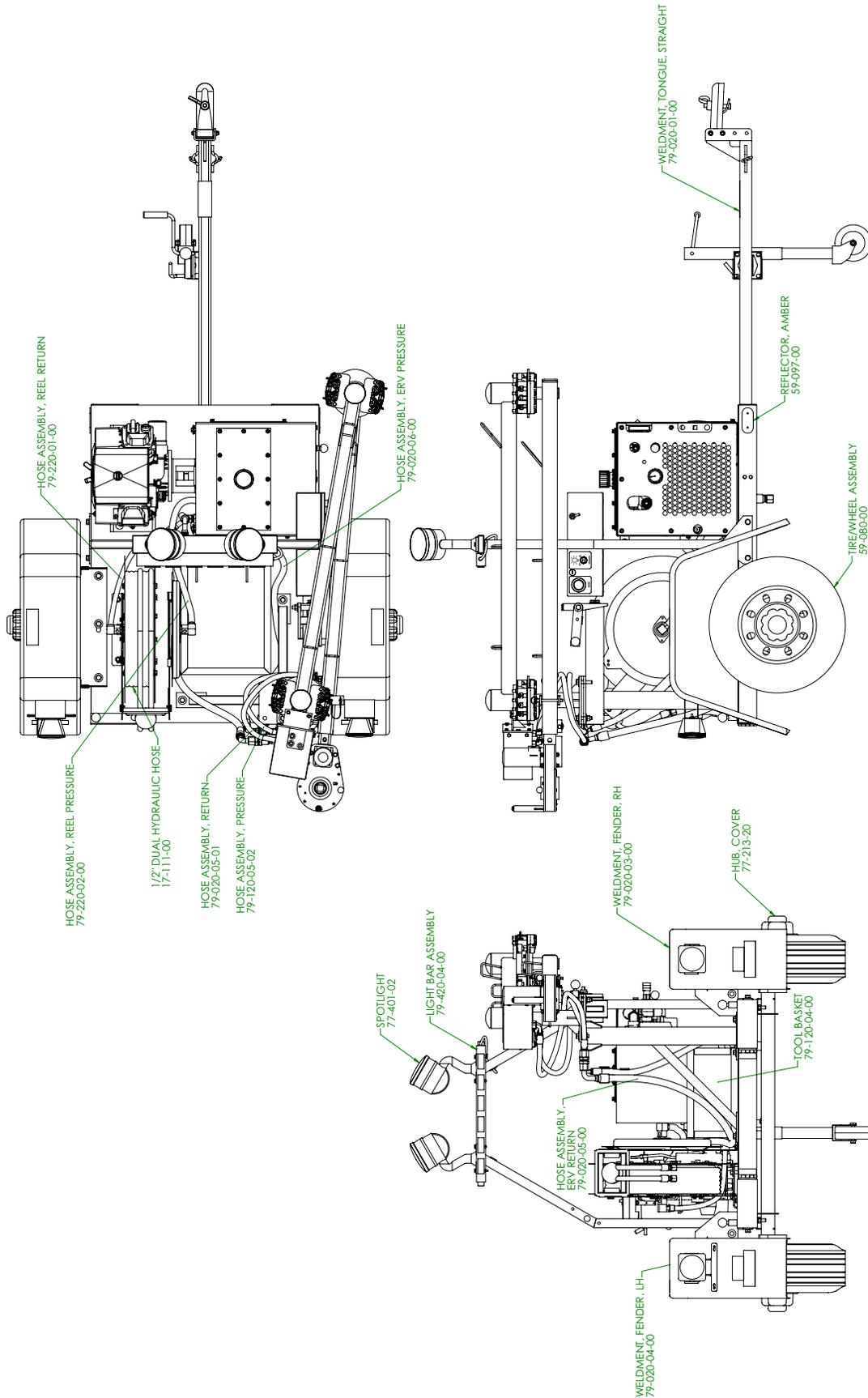


Figure 6-1. Parts Drawing

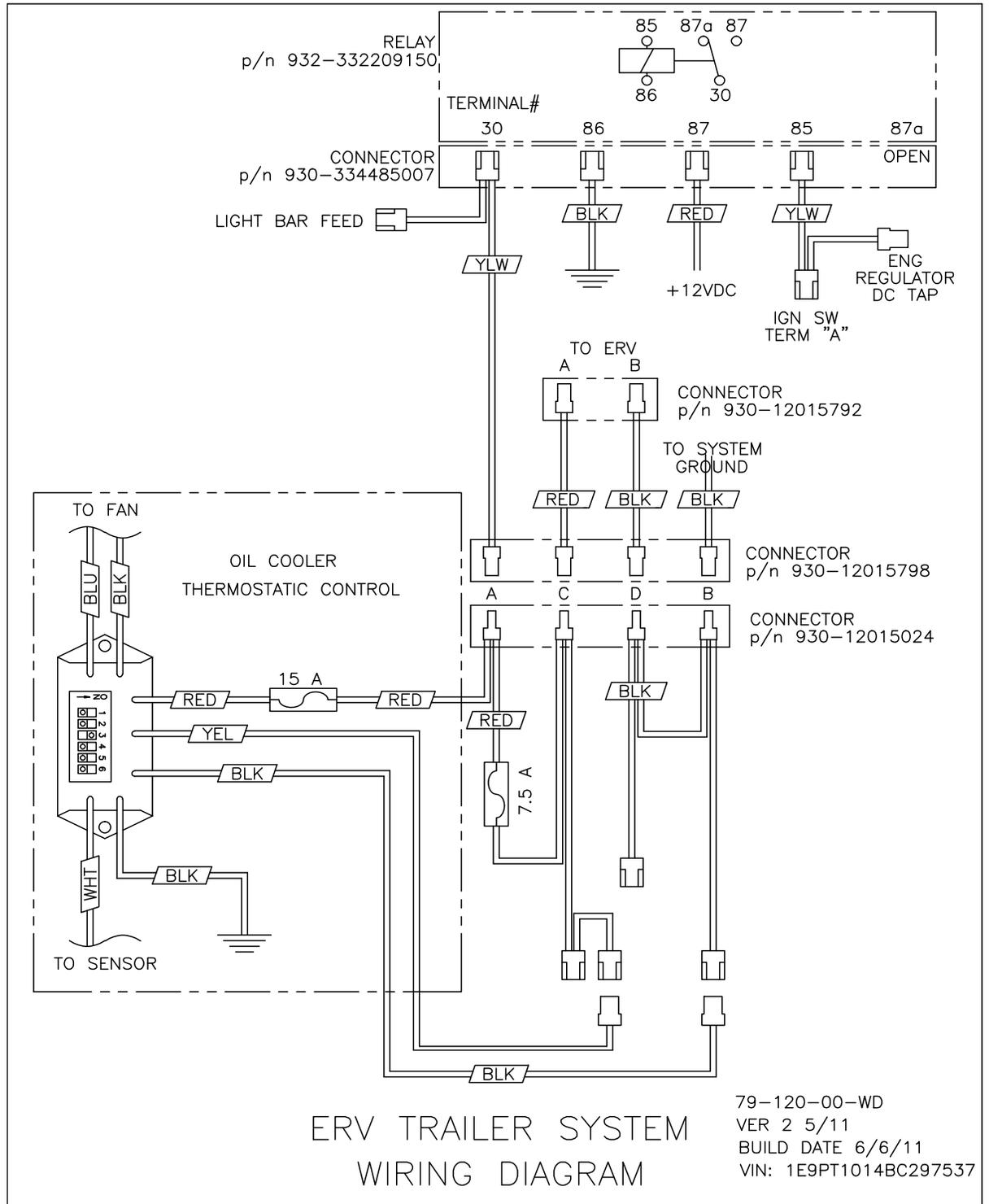


Figure 6-2. Wiring Diagram

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