

TO: ALL ELGIN DISTRIBUTORS SERVICE AND PARTS MANAGERS

SUBJECT: Recall for Repair of Road Wizard Hopper System (#06V-415)

Effectivity: Road Wizard Street Sweepers manufactured by Wittke and Elgin Sweeper from 1999 through September 2006. Wittke S/N WSW99073-WSW3097 and Elgin Sweeper S/N W1001D-W1062D

Purpose: A Recall Repair has been issued for Road Wizard Street Sweepers. There may be a defect in the hopper pivot hinges or hopper dump cylinder mounts that could result in a structural failure. Personnel near the machine could be injured if this failure occurs. All Road Wizard Sweepers manufactured from 1999 through September 2006 by Wittke and Elgin Sweeper must be repaired to eliminate these possible defects. This bulletin describes the procedure for installing FSO Kit 1086582. The kit will repair the welds of the hopper hinges and cylinder mounts on certain Road Wizard sweepers.

Preparation

Elgin dealers will perform the repair of affected sweepers located in their sales territory. Road Wizard customers must contact their Elgin dealer to arrange for the repair. Dealers will provide a qualified welder and the necessary labor to complete the repair. Dealer support functions may include providing suitable work platforms, removal of components, grinding or preparing surfaces, etc.

Repair Procedure

NOTE: *Welds must be made by a Certified Welder qualified to weld to AWS D1.1-2000 and AWS D1.3-89 standards. Certification must include out of position (overhead, vertical-up and vertical-down) for completion of these repairs*

Significant grinding, component removal, and preparation will be required to complete the installation of the FSO kit in addition to the weld repairs.

Weld repairs must be re-painted after any welding has been completed.

Detailed repair instructions and weld drawings will accompany the FSO Kit. Complete all repairs as instructed in the FSO drawings (copies are attached for reference only).

IMPORTANT: *Provide adequate protective covering (fire proof blankets, sheet metal, etc.) for the water tank, hopper, cab, and other sweeper components. Hot slag or grinding wheel discharge may damage surfaces.*

Equipment Required

- Overhead Hoist (Minimum 1,500 lbs. capacity and 22 foot clearance) to remove/re-install the hopper.
- Lifting Straps and Clamps (13" opening)
- Work platform suitable to provide access to the raised hoist
- 4 or more Weld Spatter Protection Blankets (Similar to Grainger P/N 6NE14)
- Cutting tools (acetylene, air arc, etc) suitable for weld bead removal
- 1" drill or hole-saw
- Side Grinder for clean-up and preparation of previously welded components.
- Welder capable of running E7018 rod in all positions
- Equipment for preparing repaired areas for re-painting.
- Paint application equipment for spot painting of the repaired areas
- Usual hand tools for component removal and re-installation

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Operating and Maintenance Precautions

Before operating this machine or performing any maintenance procedures, it is very important to read and understand the maintenance manual and to completely understand **the** safety precautions required to run this machine in a safe and efficient **manner**.

Safety

Before performing any maintenance procedures, it is very important to read and understand the safety information included with this bulletin (pages 4 through 7) before starting work.

SAFETY INFORMATION

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.

Follow recommended precautions and safe operating practices.

UNDERSTAND SIGNAL WORDS

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

This symbol and these signal words appear on the machine and in the operator's manual. Read and understand the following definitions of the signal words before operating or working on the machine.



DANGER

DANGER is used to indicate the presence of a hazard which will cause severe personal injury, death, if the warning is ignored.



WARNING

WARNING is used to indicate the presence of a hazard which can cause severe personal injury, death, if the warning is ignored.



CAUTION

CAUTION is used to indicate the presence of a hazard which will or can cause minor personal injury, if the warning is ignored.

An additional signal word – NOTICE – is used to alert the reader to information that does not deal with personal safety.

NOTICE

NOTICE is used to notify people of installation, operation, or maintenance information which is important but not hazard-related.

CALIFORNIA PROPOSITION 65 WARNING

CALIFORNIA

PROPOSITION 65 WARNING

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.

Please note this warning and remember --

Always start and operate the engine in a well-ventilated area;

If in an enclosed area, vent the exhaust to the outside;

Do not modify or tamper with the exhaust system.

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FOLLOW SAFETY INSTRUCTIONS



Carefully read all safety messages in this manual and on your machine safety signs. Keep safety signs in good condition. Replace missing or damaged safety signs. Be sure new equipment components and repair parts include the current safety signs. Replacement safety signs are available from your Elgin Sweeper dealer.

Learn how to operate the machine and how to use controls properly. Do not let anyone operate the machine without instruction.

Keep your machine in proper working condition. Unauthorized modifications to the machine may impair function and/or safety and affect machine life.

If you do not understand any part of this manual and need assistance, contact your Elgin Sweeper dealer.

WEAR APPROPRIATE CLOTHING

Wear close fitting clothing and safety equipment appropriate to the job. Exercise caution with anything that could be caught in the machinery, such as jewelry and long hair.

Operating equipment safely requires the full attention of the operator. Do not wear radio or music headphones while operating the machine. Use caution while using a cellular telephone while operating the equipment.

HANDLE FUEL SAFELY — AVOID FIRES



Handle fuel with care. It is highly flammable. Do not refuel the machine while smoking or when near open flame or sparks.

Always stop the engine before refueling the machine. Fill the fuel tank outdoors.

Prevent fires by keeping the machine clean of trash, grease, and debris. Always clean up spilled fuel.

DRIVING THE SWEEPER

Operate the sweeper only when all guards are fitted and in their correct position.

Before moving the machine, check the immediate vicinity of the machine for bystanders. Use the horn as a warning immediately before moving the machine.

Operating the sweeper from the right hand position at speeds over 25 mph can result in severe injury or property damage.

AVOID CONTACT WITH MOVING PARTS

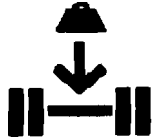


Everyone must be clear of the sweeper before the engine is started and before the brooms are started.

Many moving parts, such as the side brooms, cannot be completely shielded, due to their function. Stay clear of these moving elements during operation.

Keep hands, feet, and clothing away from power driven parts.

AVOID OVERLOADS



Observe the maximum permissible axle loads and total weights

AVOID ELECTRICAL POWER LINES



Do not raise the hopper while under power lines.

Do not raise the hopper while under trees, bridges, etc.

Lower the hopper to transport position before moving the machine.

AVOID MACHINE INSTABILITY

Parking brake must be set before raising the hopper.

Be sure the hopper door is open before the hopper is raised.

Raise the hopper only when the sweeper is parked on firm, level surfaces.

Lower the hopper to transport position before moving the machine.

PARK SWEEPER SAFELY

Set the parking brake, turn off the engine, and remove the keys.

Be sure the hopper is down and the hopper door locked before leaving the sweeper

PRACTICE SAFE MAINTENANCE

Keep the area clean and dry. Remove any build-up of grease, oil, or debris.

Never lubricate or service the machine while it is moving. Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts.

Make sure all maintenance and repairs are completed by qualified and authorized personnel. All applicable industry standards and practices and regulations must be followed during maintenance and repairs.

PREVENT BATTERY EXPLOSIONS



Battery gas can explode. Keep sparks and flames away from batteries. Use a flashlight to check battery electrolyte level.

Never check battery charge by placing a metal object across the posts. Use a voltmeter or hydrometer.

Always remove the grounded (-) battery cable first and replace it last.

Do not charge a frozen battery; it may explode. Warm the battery to 60° F (16 °C).

AVOID HIGH PRESSURE FLUIDS



CAUTION

Escaping fluid under pressure can penetrate the skin, causing serious injury. Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids. If accident occurs, seek immediate medical attention.

Keep hands and body away from pinholes and nozzles which eject fluids under high pressure.

USE PROPER TOOLS



Use tools appropriate to the work. Makeshift tools and procedures can create safety hazards.

Use power tools only to loosen threaded parts and fasteners.

For loosening and tightening hardware, use the correct size tools. DO NOT use U.S. measurement tools on metric fasteners, or vice versa. Avoid bodily injury caused by slipping wrenches.

Use only service parts meeting Elgin Sweeper specifications.

TIRES AND RIMS

An inflated tire and rim can be very dangerous if improperly used, serviced or maintained. To avoid serious injury, never attempt to re-inflate a tire which has been run flat or seriously underinflated without first breaking down the tire and wheel assembly for inspection. Do not attempt to add air to tires or replace tires or wheels without first taking precautions to protect persons and property. For details see the regulations of the Occupational Safety and Health Administration (OSHA).

Never use a ring or other rim parts of different manufacture or any different size or type than original rims

OBSERVE ENVIRONMENTAL PROTECTION REGULATIONS



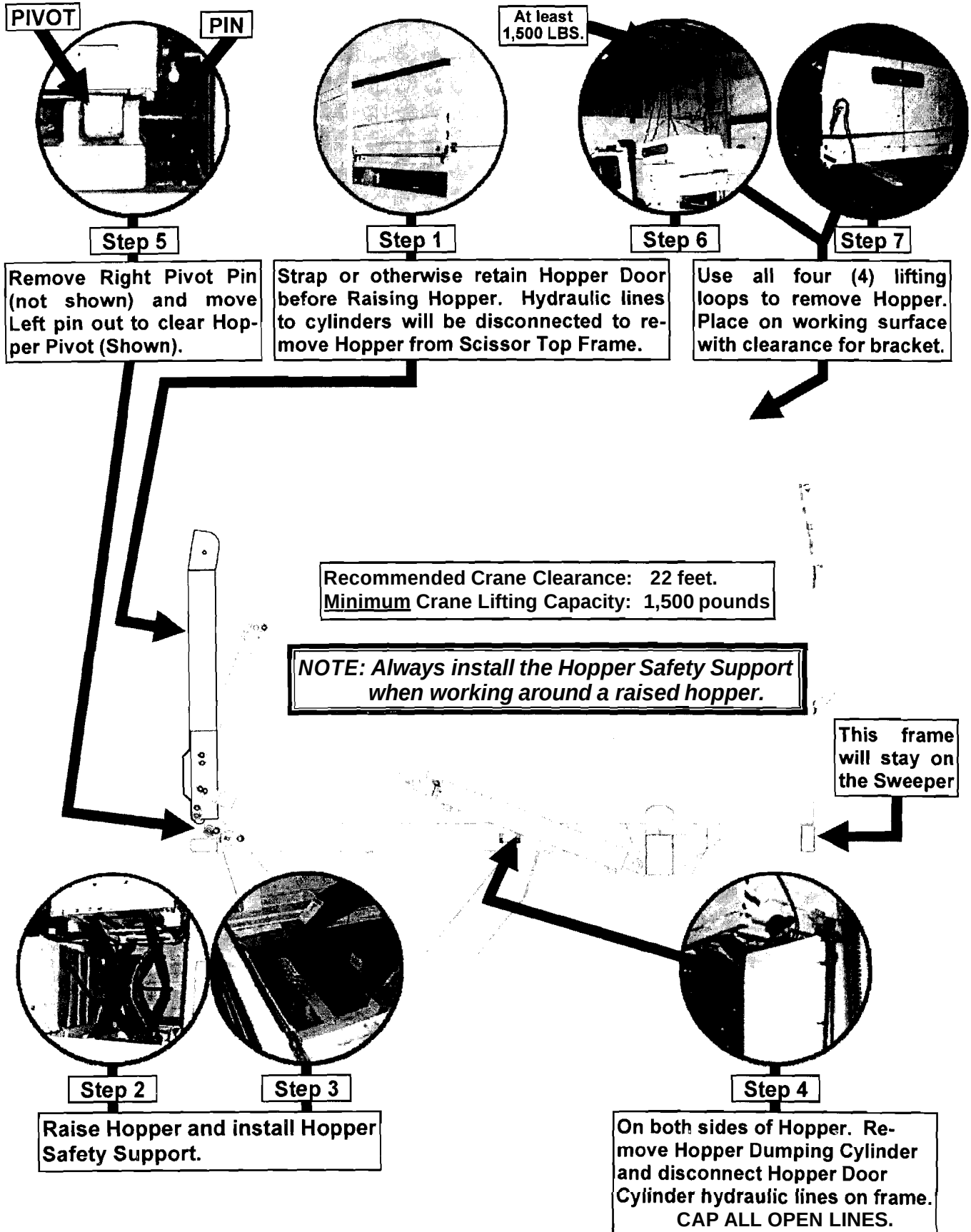
Be mindful of the environment and ecology.

Before draining any fluids, find out the correct way to dispose of them.

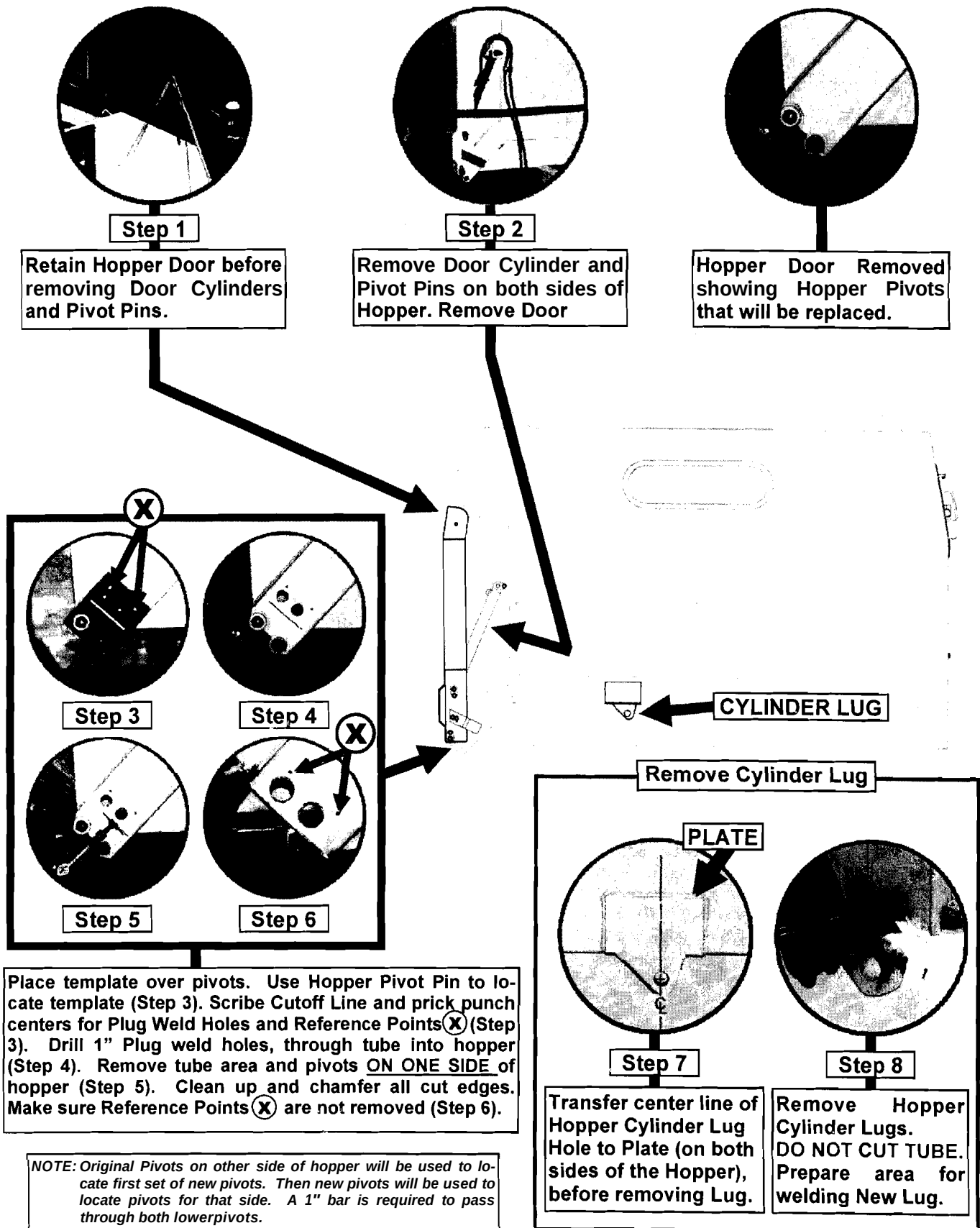
Observe the relevant environmental protection regulations when disposing of oil, fuel, coolant, brake fluid, filters, and batteries.

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Procedure for Removing Hopper from Sweeper

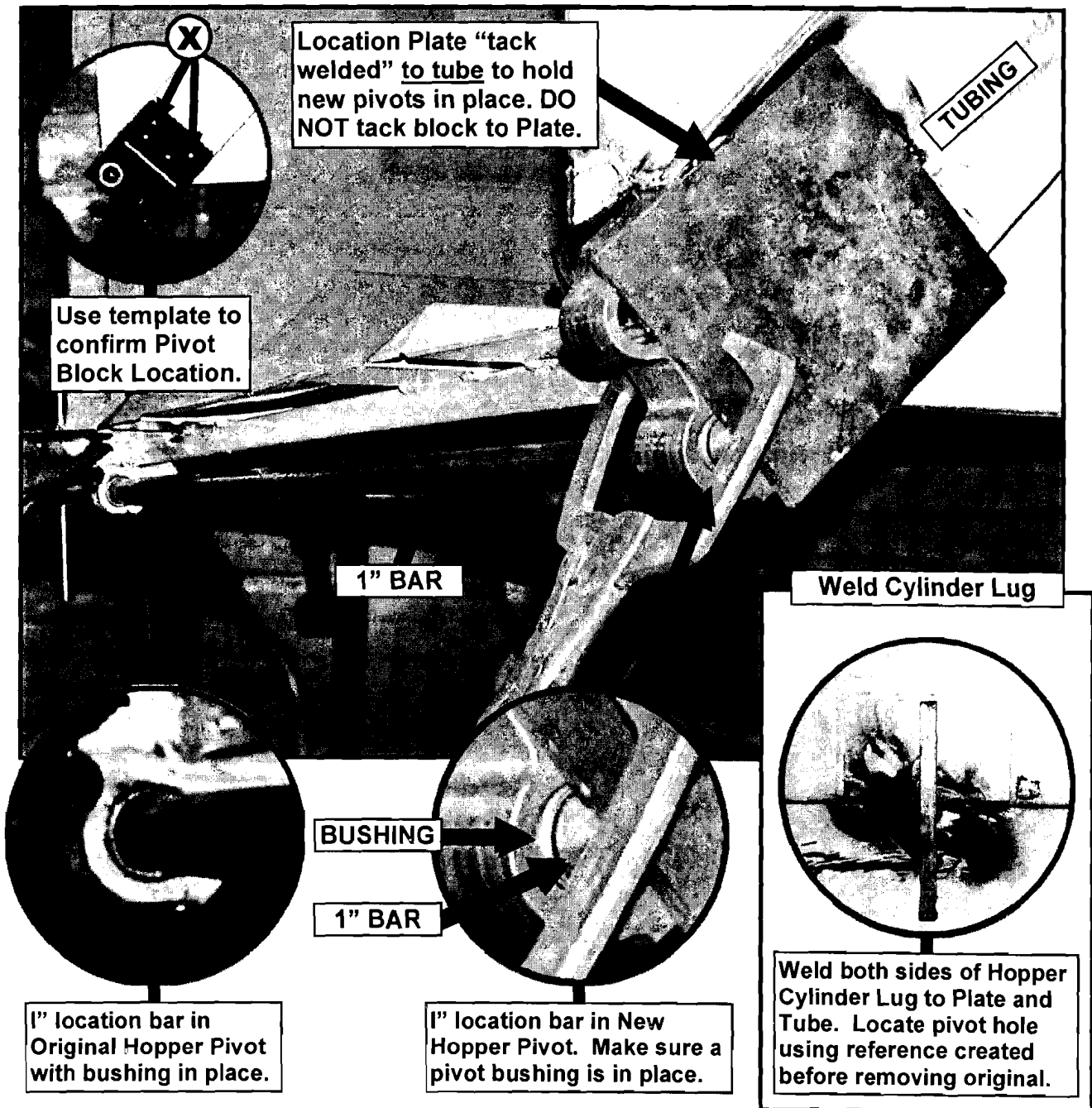


Procedure for Removing Hopper Pivots and Cylinder Lug



Location of New Pivots

1. Make sure the New Pivot Block fits into the Tubing and welding edges can make contact.
2. Confirm Pivot Block location with Template.
3. Tack weld Location Plate to Tubing to allow **clamping** of the Pivot Block (as shown). DO NOT TACK WELD the Pivot Block to the plate.
4. Pass the 1" Location Bar through the Original Pivot and into the Bushing mounted in the New Pivot.
5. Move the New Pivot until it does not bind on the 1" Location Bar.
6. Clamp Block to Plate and Tack weld Block to Tube Only, make sure 1" bar does not bind.
7. Remove Location Bar and Plate.
8. Using certified welding practices, weld New Pivots in place.
9. Repeat this procedure using the New Mounted Pivot to locate the New Pivot Block for the

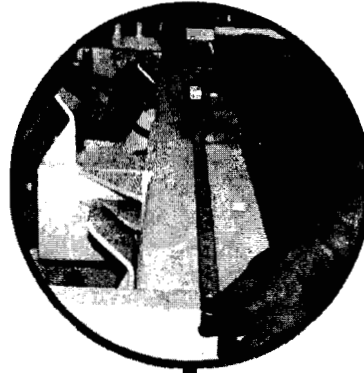


Procedure for Revising Hopper Lift Cylinder Mounts (Both Sides)



Step 1

Before welding on the sweeper, make sure the battery cables are disconnected. Not just Ground



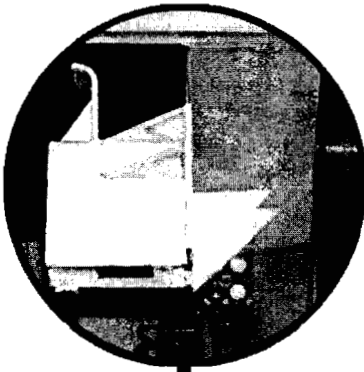
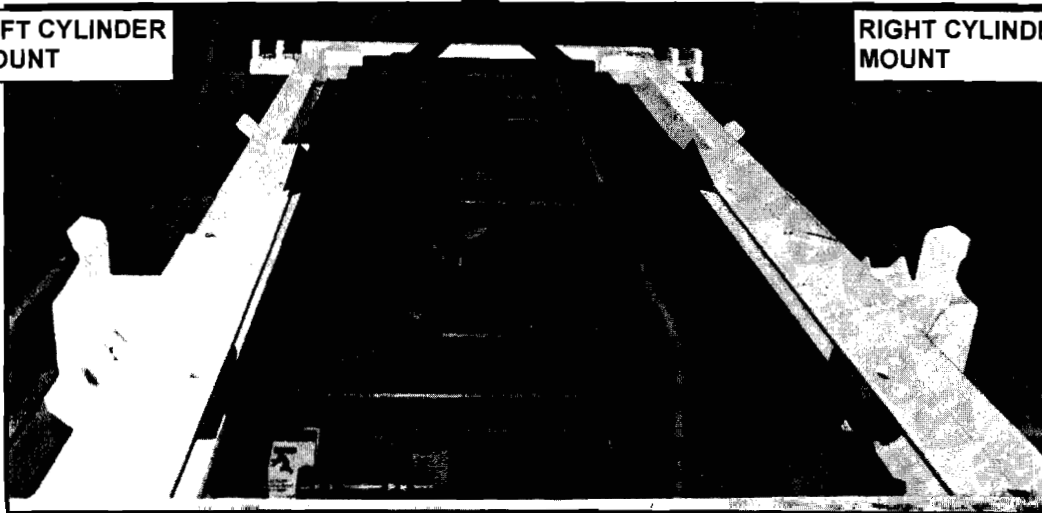
Step 2

Establish a reference point based on location of original cylinder mounts. Mark frame to locate new mounts. FSO Kit drawings are guidelines only.

SCISSOR TOP
ASSEMBLY
(Frame)

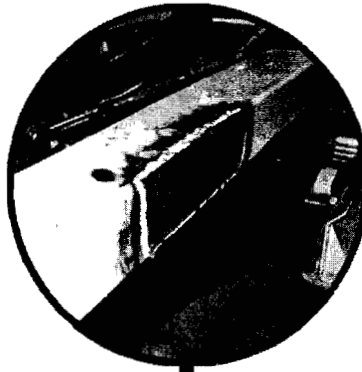
LEFT CYLINDER
MOUNT

RIGHT CYLINDER
MOUNT



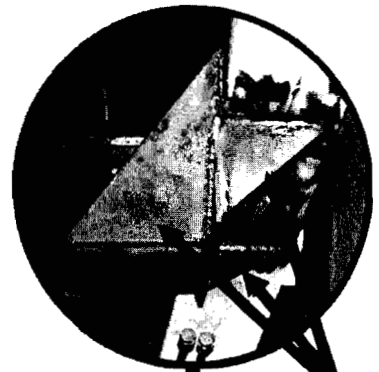
Step 3

Bottom view of Left mount. Cut out lower gussets (if present) first. Remove all frame to mount weld. DO NOT cut into frame.



Step 4

Left mount removed. Grind all surfaces smooth for mounting and welding of new mount (both sides).



Step 5

Gussets

Weld mount to frame and weld in three (3) gussets.

NOTE: Repeat Steps 3-5 for Right Mount.

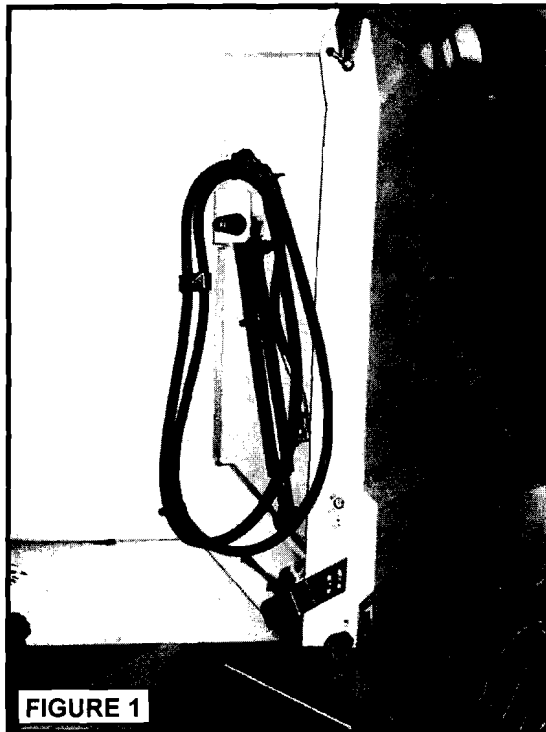
Re-Assembly Requirements

HOPPER DOOR ASSEMBLY (Fig. 1)

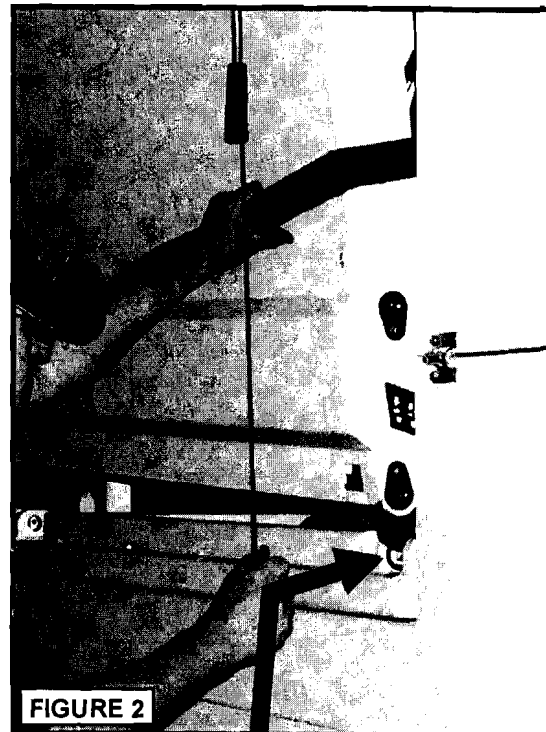
1. Position Hopper Door for re-assembly (Fig. 1).
2. Make sure Pivot Spacers are inserted as shown below on each side of Door

HOPPER TO FRAME ASSEMBLY (Fig. 2)

1. Return Hopper to sweeper.
2. Position Hopper for re-assembly (Fig. 2).
3. Make sure Pivot Spacers are inserted as shown below on each side of Hopper.



Hopper Door Pivot Spacer



Hopper Pivot Spacer (s).

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USE DRAWINGS SUPPLIED WITH FSO KIT.

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DETAIL A
SEE FIG. 1

DETAIL B
SEE FIG. 1

DETAIL C
SEE FIG. 1

ITEM	QTY	DESCRIPTION
1	1	HOOPER
2	1	HOOPER DOOR
3	1	HOOPER PIVOT PIN
4	1	HOOPER PIVOT PIN
5	1	HOOPER PIVOT PIN
6	1	HOOPER PIVOT PIN
7	1	HOOPER PIVOT PIN
8	1	HOOPER PIVOT PIN
9	1	HOOPER PIVOT PIN
10	1	HOOPER PIVOT PIN
11	1	HOOPER PIVOT PIN
12	1	HOOPER PIVOT PIN
13	1	HOOPER PIVOT PIN
14	1	HOOPER PIVOT PIN
15	1	HOOPER PIVOT PIN
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18	1	HOOPER PIVOT PIN
19	1	HOOPER PIVOT PIN
20	1	HOOPER PIVOT PIN

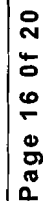
INSTALLATION INSTRUCTIONS:

- INSTALL A STRAP AND COIL AROUND HOOPER DOOR.
- RAISE HOOPER AND LOWER SAFETY BAR AND INSURE SAFETY BAR IS IN PLACE.
- REMOVE HYDRAULIC LINES FROM HYDRAULIC CYLINDERS ON EACH SIDE OF HOOPER AND USE ITEMS 18 AND 19 TO PLUG HYDRAULIC LINES. DO NOT ATTEMPT TO OPERATE HOOPER TILLY OR DOOR WHILE HYDRAULIC HOSES ARE PLUGGED.
- LOWER HOOPER LIFT AND REMOVE HOOPER PIVOT PIN.
- REMOVE HOOPER AND SUPPORT HOOPER PROPER LIFT OF HOOPER FOR COMPLETING THE REPAIR.
- REMOVE HYDRAULIC LUBRICATION FITTINGS AND HOOPER DOOR PIVOT PIN ON THE HOOPER DOOR.
- REMOVE HOOPER DOOR.
- USING ITEM 20 (TEMPLATE) LOCATE SCRIBE LINE AND CENTER PUNCH HOLES AS SHOWN IN DETAIL "A" & "B" (BOTH SIDES OF HOOPER).
- DRILL TUBE ON PIVOT PIN SIDE OF HOOPER ON LINE AND DRILL TUBE END EACH TO LINE. GRIND 1/8" CHAMFER ON TUBE ENDS FOR WELD PROOF. DO ONE SIDE AT A TIME TO MAINTAIN ALIGNMENT.
- DRILL 1/2" DIAMETER HOLES AS SHOWN IN DETAIL "B".
- PREPARE WELD JOINTS TO 180° F BEFORE WELDING ITEM 1 AS SHOWN.
- ALL WELDS MUST BE APPLIED BY A CERTIFIED WELDER TO AWS D11.1. ALL WELDS APPLIED WITH EVIDENT MOD.
- USE TEMPLATES OR SIMILAR MEASUREMENT INDICATORS AS REQUIRED.
- WELD ITEM 1 (DETAIL "C") INTO THE PREPARED TUBE (BOTH SIDES).
- NOTE: USE A 1" DIAMETER COLD DRAWN SHORT TUBE (ITEM 1) (BOTH SIDES) ON DETAIL "C" ON HOOPER 2 & 3 TO INSURE BORES ARE IN LINE.
- WELD ITEM 18 AT LOCATION SHOWN ON DETAIL "C" AT BOTH SIDES OF HOOPER.

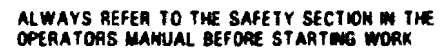
ALWAYS REFER TO THE SAFETY SECTION IN THE OPERATORS MANUAL BEFORE STARTING WORK

REV	DATE	DESCRIPTION
1	11-12-03	INITIAL RELEASE
2	11-12-03	INITIAL RELEASE
3	11-12-03	INITIAL RELEASE

USE DRAWINGS SUPPLIED WITH FSO KIT.



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ROAD WIZARD HOPPER RECALL WARRANTY CLAIM SUBMISSION PROCEDURE

PARTS REQUIRED:

KIT P/N 1086582. Dealer must order this Kit from **Elgin** Parts

WARRANTY CLAIM PROCEDURES:

Parts Expense – Dealer should claim invoice charges at Dealer Net price.

Freight Expense - Freight expenses for KIT should be listed on the claim. Any express or special freight charges must be approved by the **Elgin** Service Manager in advance.

Labor

Dealer Labor Allowance – The flat rate time for the assembly and disassembly work is 10 hours. Any additional labor exceeding this flat rate must be approved by the **Elgin** Service Manager.

Welding Procedures – The welding procedures performed by a Certified Welder should take approximately 8 hours. Use this as a guide for determining whether the estimate of the certified welder is reasonable. Retain the invoice from the Certified Welder as per the EPG Warranty Policy Manual standards. This invoice should include repair time, reasonable travel allowance, and any required materials.

Repaint/Refinishing – A repaint allowance of \$200 may be claimed for the refinishing of the repaired areas. Dealers must have and retain an invoice for sublet paint repairs.

Authorization - The **Elgin** Service Manager must **pre-authorize** any additional labor, sublet costs other than the certified welder, or other costs outside of the guidelines stated **above**. You will be given a CASE # for reference which must be placed on the Warranty Claim.

Warranty Claim Submittal – The Warranty Claim for repairs per this Service Bulletin must be received within 30 days of the repair date. Reference "Recall Campaign 06V-415" in the Symptom field in the EDDE claim request.

Causal Part – Utilize this Service Bulletin number 0703119 as the Causal Part for Warranty **Claim** submission.

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