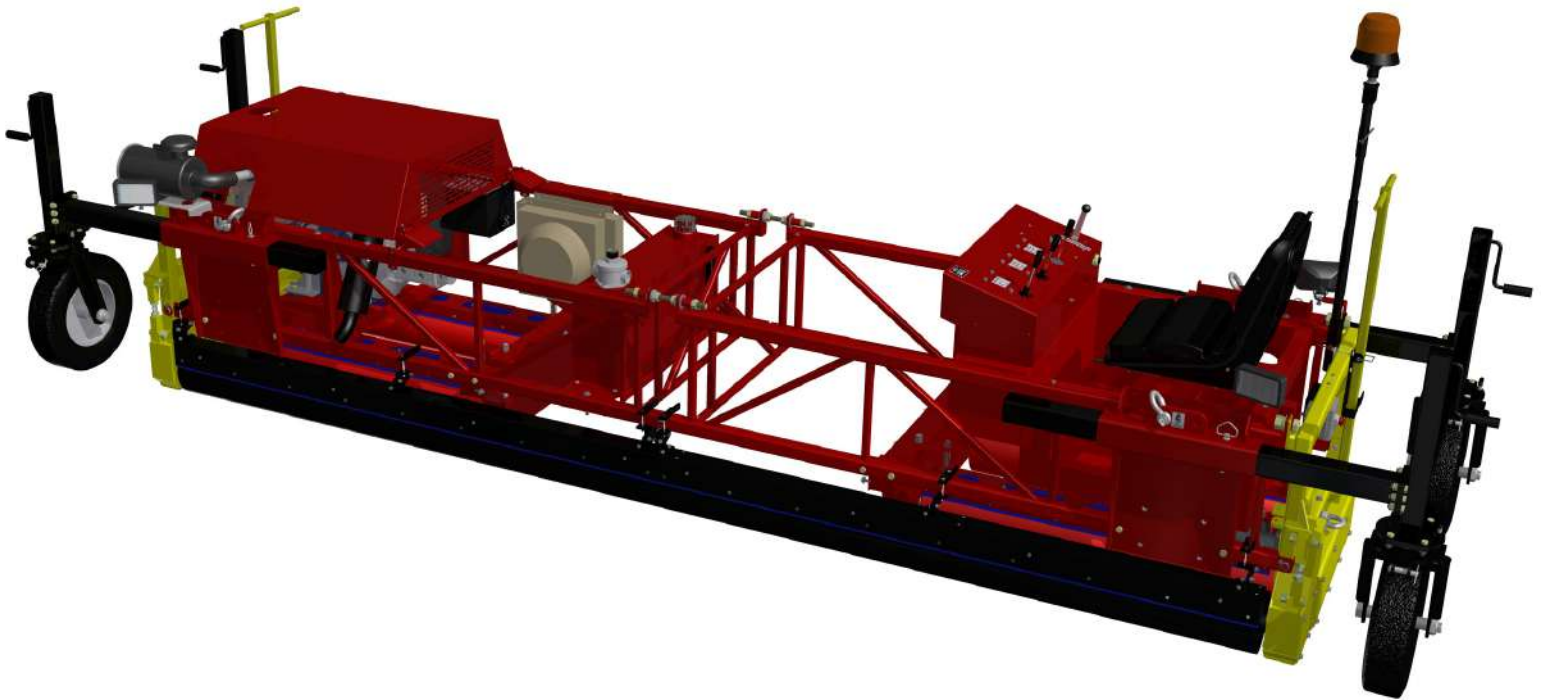




# **OPERATIONS-PARTS MANUAL**



## **RS832** **Roller Screed**

056840 - 10/2012

**allen**  
**ENGINEERING**  
CORPORATION  
819 South 5th Street  
Paragould, AR 72450

## NOTICE

This manual, or a copy of it, must be kept with the machine at all times.  
There is a manual storage container located on the machine for your convenience.

# Roller Screed

## OPERATIONS - PARTS

## MANUAL

This manual covers the products listed below:

<u>Part No.</u>	<u>Description</u>
057200	RS832 ROLLER SCREED

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Allen Products are covered under one or more of the following patent numbers:

**U.S. Design Patents:** 344,736; 400,542; 400,544; 402,998; 402,999; 403,332; 404,041; 404,042; 410,931; 413,127; 416,564; 465,897; 466,909; 474,203.

**U.S. Utility Patents:** 5,108,220; 5,238,323; 5,328,295; 5,352,063; 5,405,216; 5,476,342; 5,480,257; 5,480,258; 5,533,831; 5,562,361; 5,567,075; 5,613,801; 5,658,089; 5,685,667; 5,803,658; 5,816,739; 5,816,740; 5,890,833; 5,934,823; 5,967,696; 5,988,938; 5,988,939; 6,019,433; 6,019,545; 6,048,130; 6,053,660; 6,089,786; 6,106,193; 6,857,815; 5,288,166; 6,582,153 B1, 7,108,449; 7,114,876; 7,316,523; 7,690,864 B2

**Canadian Patents:** 2,039,893.

First Issue: October 2012

AEC Manual Part No.: 056840

Printed in U.S.A.

056840 - 10/2012

# Limited Warranty

## LIMITED WARRANTY and LIMITATION OF LIABILITY

Allen Engineering Corporation ("Allen") warrants its products to be free of defects in material or workmanship for the following periods:

**A. New Machines and Parts.....One Year**

Warranty period begins on first day of use by End User. This first day of use is established by the date of a completed Allen Warranty Card or a Bill of Sale to the End User. All warranty is based on the following limited warranty terms and conditions, including the disclaimer of implied warranties and consequential damages.

1. Allen's obligation and liability under this warranty is limited to repairing or replacing parts if, after Allen's inspection, there is determined to be a defect in material or workmanship. Allen reserves the choice to repair or replace.

2. If Allen chooses to replace the part, it will be at no cost to the customer and will be made available to the Allen Distributor, Dealer, or Rental Center from whom the End User purchased the product.

3. Replacement or repair parts, installed in the product, are warranted only for the remainder of warranty period of the product as though they were the original parts.

4. Allen does not warranty engines. Engine warranty claims should be made directly to an authorized factory service center for the particular engine manufacturer.

5. Allen's warranty does not cover the normal maintenance of products or its components (such as engine tune-ups and oil & filter changes). The warranty also does not cover normal wear and tear items (such as belts and consumables).

6. Allen's warranty will be void if it is determined that the defect resulted from operator abuse, failure to perform normal maintenance on the product, modification to product, alterations or repairs made to the product without the written approval of Allen. Allen specifically excludes from warranty any damage to any trowels resulting from an impact to the rotors.

7. Impact damage is not covered under the Allen Gear Box warranty.

8. Allen will pay shop labor on warranty items at the Allen Shop Labor Rate in existence on the date of the warranty claim. An Allen Labor Chart will determine the time allowed to complete a repair and will govern the shop labor hours that will be allowed.

9. Allen will pay freight on warranty replacement parts at worldwide standard ground rates. No warranty replacement parts will be shipped air freight at the expense of Allen. Allen only pays outbound freight charges when sending warranty replacement parts to the customer via ground service. Allen does not pay any inbound freight. However, if Allen determines this to be a warranted item, only then will Allen reimburse the customer for inbound freight at standard ground rates.

10. ALLEN ENGINEERING CORPORATION'S WARRANTY POLICY WILL NOT COVER THE FOLLOWING: TAXES; SHOP SUPPLIES; ENVIRONMENTAL SURCHARGES; AIR FREIGHT; TRAVEL TIME; LOSS OF TIME; INCONVENIENCE; LOSS OF RENTAL REVENUE; RENTAL COSTS OF EQUIPMENT USED TO REPLACE THE PRODUCT BEING REPAIRED; LOSS OF USE OF THE PRODUCT; COMMERCIAL LOSS; OR ANY OTHER CHARGES WHATSOEVER OR ANY LIABILITIES FOR DIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGE OR DELAY.

11. ALLEN ENGINEERING CORPORATION MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED. THIS LIMITED WARRANTY IS IN LIEU OF THE WARRANTY OF MERCHANTABILITY AND FITNESS. THERE ARE NO OTHER WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THIS DOCUMENT.

12. No Allen employee or representative is authorized to change this warranty in any way or grant any other warranty unless such change is made in writing and signed by an officer of Allen Engineering Corporation.

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# Information Contained in this Manual



This manual provides information and procedures to safely operate and maintain the Allen Machine.

For your own safety and protection from personal injury, carefully read, understand, and observe the safety instructions described in this manual. Keep this manual or a copy of it with the machine at all times.

Always operate this machine in accordance with the instructions described in this manual. A well maintained piece of equipment will provide many years of trouble free operation.

This manual is divided into the following sections:

## **SECTION 1 SAFETY**

## **SECTION 2 OPERATIONS**

## **SECTION 3 SERVICE**

## **SECTION 4 PARTS**

Complete any warranty requirements as specified by the engine manufacturer in their instructions found inside the manual box located on the operator's control panel.

Your engine is not manufactured by Allen Engineering Corporation, Inc, and therefore is not covered under Allen Engineering Corporation, Inc warranty.

Your engine manufacturer should be contacted if you wish to purchase a parts manual or a repair manual for your engine.

Refer to enclosed owners engine manual for complete O&M instructions. See your battery manufacturer for battery warranty.

## Dealer Information

Your Dealer has Allen Engineering Corporation trained mechanics and original Allen replacement parts. Always contact the Allen Dealer who sold you this machine for Allen Certified repairs and replacement parts.

Place Allen Dealer information below for future reference.

Dealer Name: \_\_\_\_\_

Phone #: (\_\_\_\_) - \_\_\_\_ - \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Salesman: \_\_\_\_\_ Mobile Phone \_\_\_\_\_

Additional Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_





## Ordering Parts

Section 4.0 contains illustrated parts lists for help in ordering replacement parts for your machine. Follow the instructions below when ordering parts to insure prompt and accurate delivery:

1. All orders for service parts - include the serial number for the machine. Shipment will be delayed if this information is not available.
2. Include correct description and part number from the "PARTS" section of this manual.
3. Specify exact shipping instructions, including the preferred routing and complete destination address.
4. DO NOT return parts to AEC without receiving written authorization from AEC. All authorized returns must be shipped pre-paid.
5. When placing an order, please contact the AEC dealer nearest you.



*All information, specifications, and illustrations in this manual are subject to change without notice and are based on the latest information at the time of publication.*

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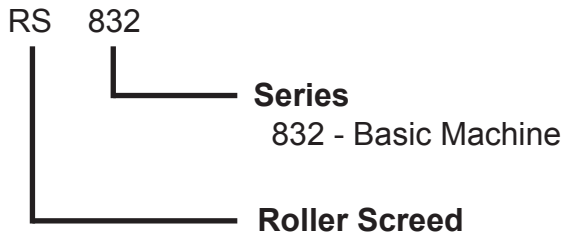
[www.youtube.com/AllenMachinery](http://www.youtube.com/AllenMachinery)

# Model Number - Serial Number Codes

## Manufacturer's Codes:

When ordering parts or requesting service information, you will always be asked to specify the model and serial numbers of the machine. The legends below specifically defines each significant character or group of characters of the Model Number and Serial Number codes.

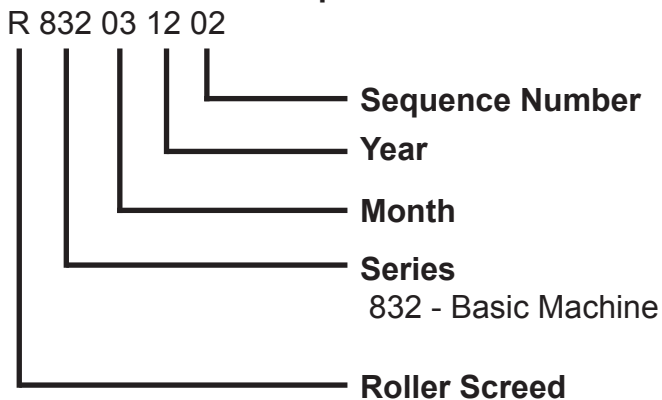
### Model Number



### Serial Number

The serial number found on the identification plate is a ten digit format. The model number identifies your machine and will ensure that you receive the correct replacement parts.

### Serial Number Example



### Terminology

Below is the terminology when referring to the RS Series Roller Screeds. This terminology will explain the machine, engine size, length and whatever options are installed.

### Example: RS832-28-S-F-R-B-C-PL-PD-A

- RS:** Roller Screed
- 8:** 800 Series - 8" Diameter Concreting Tube - 1/4" (.25") Wall Thickness - 20.69 lbs/ft.
- 32:** 32HP Engine
- 28:** Length of Machine
- S:** Spray System
- F:** Front Walkway
- R:** Rear Walkway
- B:** Counter Balance Tube
- C:** Crown Kit
- PL:** Power Up/Down Jacks
- PD:** Power Drive Jacks
- A:** Auger

# Unit Identification

## Unit Identification Plate Location:

An identification plate listing the model number and the serial number is attached to each unit and is located on the top left hand corner of the operator control panel. See image below for serial number plate number location. This plate should not be removed at any time.

Please record the information found on this plate below so it will be available should the identification plate become lost or damaged. When ordering parts or requesting service information, you will always be asked to specify the model and serial numbers of the machine.

### FILL IN FOR FUTURE REFERENCE

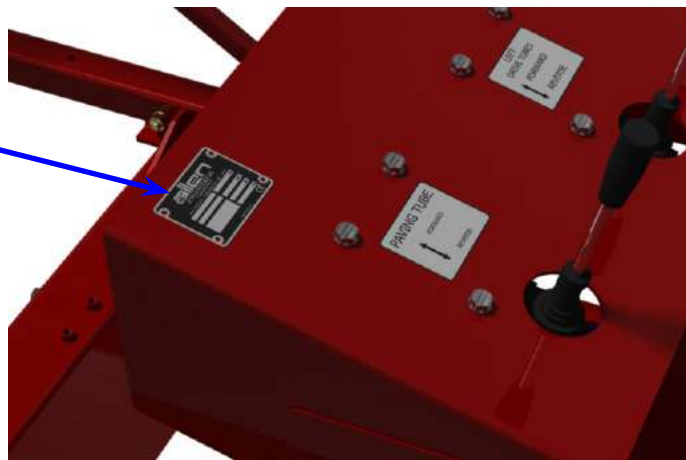
Model Number: \_\_\_\_\_

Serial Number: \_\_\_\_\_

Date Purchased: \_\_\_\_\_

Purchased From: \_\_\_\_\_

Serial # Plate Location



## Technical Specifications - RS832

<b>MODEL</b>	<b>RS832</b>
Available Lengths	14' (4.26M) - 34' (10.4M) {2' (.6M) increments}
Working Width	12' (3.65M) - 32' (9.75M)
Paving Tube Diameter	8" (203mm)
Paving Tube Thickness	.25" (6.35mm)
Paving Tube Speed	165 RPM Maximum
Steerable Polyurethane Covered Drive Tube Diameter	8" (203mm) - 7" (178mm) Steel with 1/2" (13mm) Polyurethane Coating
Steerable Polyurethane Covered Drive Tube Speed	20 RPM Maximum (12.8M per minute)
Engine	32HP Turbo Charged Kubota Diesel
Fuel Capacity	6 Gallons (22.7 liters)
Sectionalized Overhead Frame and Paving Tube	Yes
Lights	4 each 50 watt (2 each front and 2 each rear)
Dolly Transport	4 each Manual Crank Jacks with Rubber Tires
Full Width Auger	Not Available on RS832
<b>OPTIONS</b>	
Spray System	Not Available on RS832
Front and Rear Walkways and Counter Balance Tube	Up to 30' (9.1M)
Balloon Lights	Single or Double Kits Available

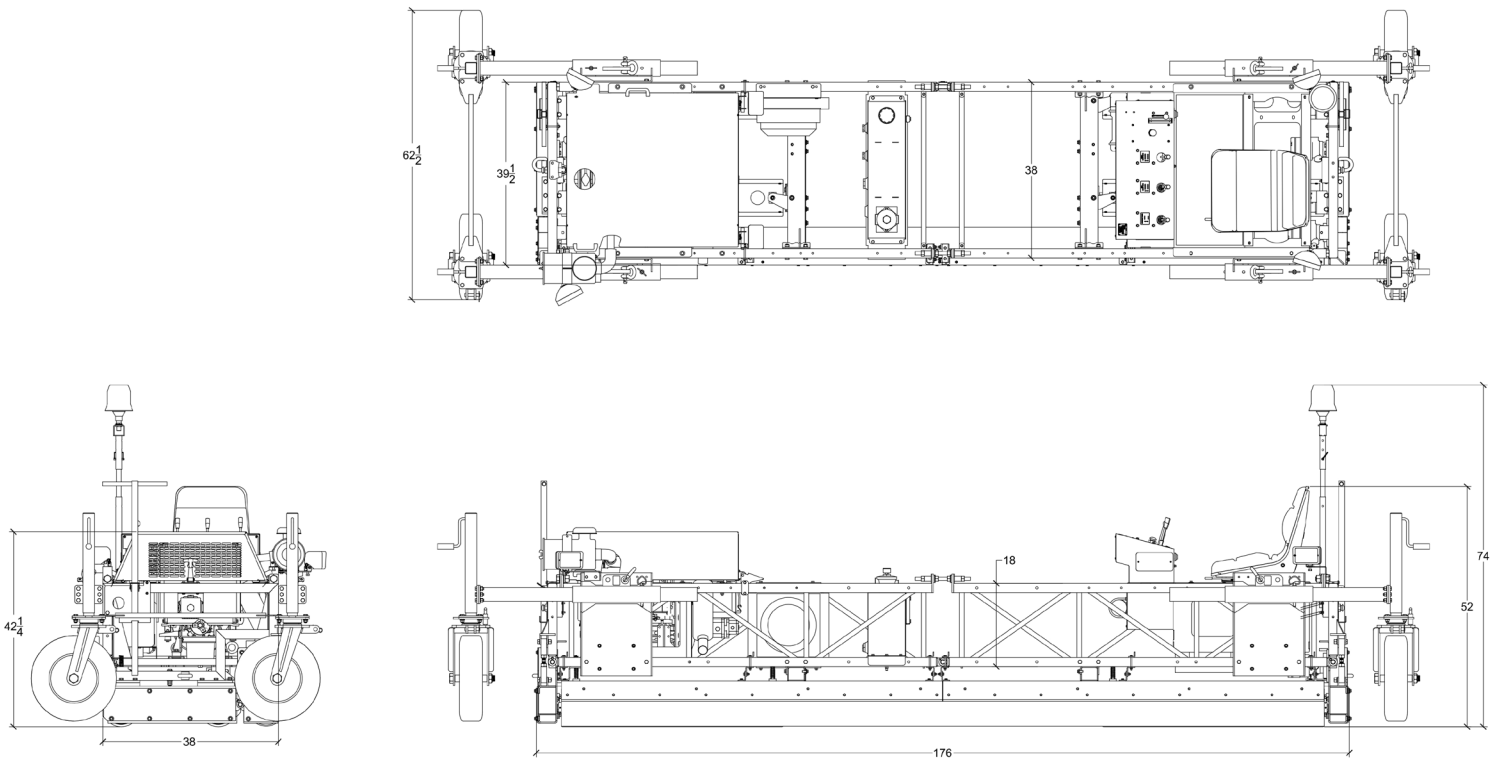
# Engine Specifications - RS832

## Kubota V1105-T-E3B

Emission Regulation		Interim Tier4 /Stage IIIA
Type		Vertical 4-cycle liquid cooled Diesel
Number of Cylinders		3
Bore	mm(in)	78.0(3.07)
Stroke	mm(in)	78.4(3.09)
Displacement	L (cu.in)	1.123(68.53)
Combustion System		IDI
Intake System		Turbocharged
Maximum Speed	rpm	3000
Output:	kW	24.5
Gross Intermittent	hp	32.8
	ps	33.3
Direction of Rotation		Counterclockwise Viewed on Fly-wheel
Oil Pan Capacity	L(gal)	5.1(1.35)
Starter Capacity	V-kW	12-1.2[US]/12-1.4[EU]
Alternator Capacity	V-A	12-40
Length	mm (in)	497.8(19.60)
Width	mm (in)	433.0(17.05)
Height(1)	mm (in)	626.0(24.65)
Height(2)	mm (in)	227.6(8.96)
Dry Weight	kg (lb)	97.0(213.8)



## Dimensional Specifications



### NOTE

This is the dimension for a 14' machine.  
Increments of 2' up to 34' are applicable.

# ***Section 1 SAFETY***

## SECTION 1 SAFETY

### State Regulations Proposition 65 Warning



## WARNING



### **CALIFORNIA — Proposition 65 Warning**

Engine exhaust and some of its constituents, and some dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known to the State of California to cause cancer, birth defects and other reproductive harm. Some examples of these chemicals are:

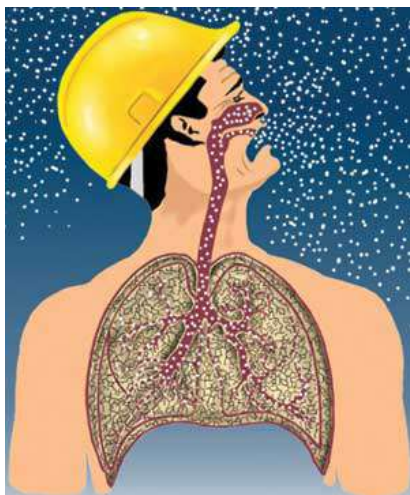
- Lead from lead-based paints.
- Crystalline silica from bricks.
- Cement and other masonry products.
- Arsenic and chromium from chemically treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: **ALWAYS** work in a well ventilated area, and work with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles.



# Federal Regulations Respiratory Hazards

## SECTION 1 SAFETY



### **WARNING**

#### **RESPIRATORY HAZARDS**

Grinding/cutting/drilling of masonry, concrete, metal and other materials can generate dust, mists and fumes containing chemicals known to cause serious or fatal injury or illness, such as respiratory disease, cancer, birth defects or other reproductive harm. If you are unfamiliar with the risks associated with the particular process and/or material being cut or the composition of the tool being used, review the material safety data sheet and/or consult your employer, the material manufacturer/supplier, governmental agencies such as OSHA and NIOSH and other sources on hazardous materials. California and some other authorities, for instance, have published lists of substances known to cause cancer, reproductive toxicity, or other harmful effects.

Control dust, mist and fumes at the source where possible. In this regard use good work practices and follow the recommendations of the manufacturers or suppliers, OSHA/NIOSH, and occupational and trade associations. Water should be used for dust suppression when wet cutting is feasible. When the hazards from inhalation of dust, mists and fumes cannot be eliminated, the operator and any bystanders should always wear a respirator approved by NIOSH/MSHA for the materials being used.

### **WARNING**

#### **SILICOSIS WARNING**

Grinding/cutting/drilling of masonry, concrete, metal and other materials with silica in their composition may give off dust or mists containing crystalline silica. Silica is a basic component of sand, quartz, brick clay, granite and numerous other minerals and rocks. Repeated and/or substantial inhalation of airborne crystalline silica can cause serious or fatal respiratory diseases, including silicosis. In addition, California and some other authorities have listed respirable crystalline silica as a substance known to cause cancer. When cutting such materials, always follow the respiratory precautions mentioned above.

## SECTION 1 SAFETY

### 1.1 Safety Information

Do not operate or service the equipment before reading the entire manual. Safety precautions should be followed at all times when operating this equipment. Failure to read and understand the safety messages and operating instructions could result in injury to yourself and others.

#### SAFETY NOTES

The four safety notes shown below will inform you about potential hazards that could injure you or others. The safety notes specifically address the level of exposure to the operator and are preceded by one of four words: DANGER, WARNING, CAUTION or NOTICE.



Indicates a hazardous situation which, if not avoided, **will** result in death or serious injury.



Indicates a hazardous situation which, if not avoided, **could** result in death or serious injury.



Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.






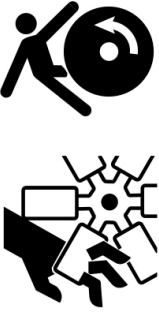


Addresses practices not related to personal injury.



## 1.2 Safety Symbols

## SECTION 1 SAFETY

Potential hazards associated with the operation of this equipment will be referenced with hazard symbols which may appear throughout this manual in conjunction with safety notes.

Symbol	Safety Hazard
	Lethal exhaust gas hazards
	Explosive fuel hazards
	Burn hazards
	Rotating parts/crush hazards
	Pressurized fluid hazards
	Hydraulic fluid hazards

## SECTION 1 SAFETY

### 1.3 General Safety

- **NEVER** operate this equipment without proper protective clothing, shatterproof glasses, respiratory protection, hearing protection, steel-toed boots and other protective devices required by the job or city and state regulations.



- **ALWAYS** avoid wearing jewelry or loose fitting clothes that may snag on the controls or moving parts as this can cause serious injury.

- **NEVER** operate this equipment when not feeling well due to fatigue, illness or when under medication.



- **NEVER** operate this equipment under the influence of drugs or alcohol.



- **ALWAYS** clear the work area of any debris, tools, etc. that would constitute a hazard while the equipment is in operation.

- No one other than the operator is to be in the working area when the equipment is in operation.
- **DO NOT** use the equipment for any purpose other than its intended purposes or applications.
- This equipment should only be operated by trained and qualified personnel 18 years of age and older.
- Whenever necessary, replace nameplate, operation and safety decals when they become difficult to read.
- AEC does not assume responsibility for any accident due to equipment modifications. Unauthorized equipment modification will void all warranties.
- **NEVER** use accessories or attachments that are not recommended by AEC for this equipment. Damage to the equipment and/or injury to user may result.

- **ALWAYS** know the location of the nearest fire extinguisher.



- **ALWAYS** know the location of the nearest first aid kit.



## 1.3 General Safety (cont'd)

## SECTION 1 SAFETY

- **ALWAYS** know the location of the nearest phone or keep a phone on the job site. Also, know the phone numbers of the nearest ambulance, doctor and fire department. This information will be invaluable in the case of an emergency.



- Engine fuel exhaust gases contain poisonous carbon monoxide. This gas is colorless and odorless, and can cause death if inhaled.
- The engine of this equipment requires an adequate free flow of cooling air. never operate this equipment in any enclosed or narrow area where free flow of the air is restricted. If the air flow is restricted it will cause injury to people and property and serious damage to the equipment or engine.
- **NEVER** operate the equipment in an explosive atmosphere or near combustible materials. An explosion or fire could result causing severe bodily harm or even death.



- If applicable, never use your hand to find hydraulic leaks. Use a piece of wood or cardboard. Hydraulic fluid injected into the skin must be treated by a knowledgeable physician immediately or severe injury or death can occur.



- **ALWAYS** keep clear of rotating or moving parts while operating the screed.



- **NEVER** disconnect any emergency or safety devices. These devices are intended for operator safety. Disconnection of these devices can cause severe injury, bodily harm or even death. Disconnection of any of these devices will void all warranties.



- **NEVER** allow passengers or riders on the screed during operation.
- **NEVER** lubricate components or attempt service on a running machine.
- **NEVER** place your feet or hands between the rollers while starting or operating this equipment.

## SECTION 1 SAFETY

### 1.3 General Safety (cont'd)

#### NOTICE

- **ALWAYS** keep the machine in proper running condition.
- Fix damage to machine and replace any broken parts immediately.
- **ALWAYS** store equipment properly when it is not being used. Equipment should be stored in a clean, dry location out of the reach of children and unauthorized personnel.

#### WARNING

- **DO NOT** place hands or fingers inside engine compartment when engine is running.
- **NEVER** operate the engine with heat shields or guards removed.
- Keep fingers, hands hair and clothing away from all moving parts to prevent injury.
- **DO NOT** remove the radiator cap while the engine is hot. High pressure boiling water will gush out of the radiator and severely scald any persons in the general area of the screed.
- **DO NOT** remove the coolant drain plug while the engine is hot. Hot coolant will gush out of the coolant tank and severely scald any persons in the general area of the screed.
- **DO NOT** remove the engine oil drain plug while the engine is hot. Hot oil will gush out of the oil tank and severely scald any persons in the general area of the screed.



#### CAUTION

- **NEVER** touch the hot exhaust manifold, muffler or cylinder. Allow these parts to cool before servicing equipment.



#### NOTICE

- **NEVER** run engine without an air filter or with a dirty air filter. Severe engine damage may occur. Service air filter frequently to prevent engine malfunction.
- **NEVER** tamper with the factory settings of the engine or engine governor. Damage to the engine or equipment can result if operating in speed ranges above the maximum allowable.





## 1.3 General Safety (cont'd)

## SECTION 1 SAFETY



- **DO NOT** start the engine near spilled fuel or combustible fluids. Fuel is extremely flammable and its vapors can cause an explosion if ignited.
- **ALWAYS** refuel in a well-ventilated area, away from sparks and open flames.
- **ALWAYS** use extreme caution when working with flammable liquids.
- **DO NOT** fill the fuel tank while the engine is running or hot.
- **DO NOT** overfill tank, since spilled fuel could ignite if it comes into contact with hot engine parts or sparks from the ignition system.
- Store fuel in appropriate containers, in well-ventilated areas and away from sparks and flames.
- **NEVER** use fuel as a cleaning agent.
- **DO NOT** smoke around or near the equipment. Fire or explosion could result from fuel vapors or if fuel is spilled on a hot engine.



- **DO NOT** drop the battery. There is a possibility that the battery will explode.
- **DO NOT** expose the battery to open flames, sparks, cigarettes, etc. The battery contains combustible gases and liquids. If these gases and liquids come into contact with a flame or spark, an explosion could occur.




- **ALWAYS** wear safety glasses when handling the battery to avoid eye irritation. The battery contains acids that can cause injury to the eyes and skin.
- Use well-insulated gloves when picking up the battery.
- **ALWAYS** keep the battery charged. If the battery is not charged, combustible gas will build up.
- **DO NOT** charge battery if frozen. Battery can explode. When frozen, warm the battery to at least 61°F (16°C).



## SECTION 1 SAFETY

### 1.3 General Safety (cont'd)

- **ALWAYS** recharge the battery in a well-ventilated environment to avoid the risk of a dangerous concentration of combustible gases.
- If the battery liquid (dilute sulfuric acid) comes into contact with clothing or skin, rinse skin or clothing immediately with plenty of water. 
- If the battery liquid (dilute sulfuric acid) comes into contact with eyes, rinse eyes immediately with plenty of water and contact the nearest doctor or hospital to seek medical attention.

#### **CAUTION**

- **ALWAYS** disconnect the negative battery terminal before performing service on the equipment.
- **ALWAYS** keep battery cables in good working condition. Repair or replace all worn cables.





### **CAUTION**

- **NEVER** allow any person or animal to stand underneath the equipment while lifting.
- Ride-on screeds are very heavy and awkward to move around. Use proper heavy lifting procedures.

### **NOTICE**

- Machine can be transported on a flatbed truck of proper weight capacity.
- The easiest way to lift the screed is to utilize the lift loops that are welded to the frame. These lift loops are located to the left and right sides of the end framework sections. A strap or chain can be attached to these lift loops, allowing a forklift or crane to lift the screed up onto and off of a slab of concrete. The strap or chain should have a minimum of twice the weight of the entire machine the lifting gear must be capable of lifting at least this amount.
- Before lifting, make sure that the lift loops are not damaged.
- **ALWAYS** make sure crane or lifting device has been properly secured to the lift loops of the equipment.
- **ALWAYS** shutdown engine before transporting.
- **NEVER** lift the equipment while the engine is running.
- Tighten fuel tank cap securely and close fuel cock to prevent fuel from spilling.
- Use adequate lifting cable (wire or rope) of sufficient strength.
- **DO NOT** lift machine to unnecessary heights.
- **ALWAYS** tie down equipment during transport by securing the equipment with rope.
- Check with your local county or state safety towing regulations, in addition to meeting Department of Transportation (DOT) Safety Towing Regulations, before towing your screed.
- In order to reduce the possibility of an accident while transporting the screed on public roads, always make sure the trailer that supports the screed and the towing vehicle are mechanically sound and in good operating condition.
- **ALWAYS** shutdown engine before transporting.

## SECTION 1 SAFETY

### 1.4 Transportation Safety (cont'd)

- Make sure the hitch and coupling of the towing vehicle are rated equal to, or greater than the trailer "gross vehicle weight rating."
- **ALWAYS** inspect the hitch and coupling for wear. Never tow a trailer with defective hitches, couplings, chains, etc.
- Check the tire air pressure on both towing vehicle and trailer. Trailer tires should be inflated to 50 psi cold. Also check the tire tread wear on both vehicles.
- **ALWAYS** make sure the trailer is equipped with a safety chain.
- **ALWAYS** properly attach trailer's safety chains to towing vehicle.
- **ALWAYS** make sure the vehicle and trailer directional, backup, brake and trailer lights are connected and working properly.
- DOT Requirements include the following:
  - Connect and test electric brake operation.
  - Secure portable power cables in cable tray with tie wraps.
- The maximum speed for highway towing is 55 MPH unless posted otherwise. Recommended off-road towing is not to exceed 15 MPH or less depending on type of terrain.
- Avoid sudden stops and starts. This can cause skidding, or jack-knifing. Smooth, gradual starts and stops will improve towing.
- Avoid sharp turns to prevent rolling.
- Trailer should be adjusted to a level position at all times when towing.
- Raise and lock trailer wheel stand in up position when towing.
- Place chock blocks underneath wheel to prevent rolling while parked.
- Place support blocks underneath the trailer's bumper to prevent tipping while parked.
- Use the trailer's swivel jack to adjust the trailer height to a level position while parked.

***Section 2***  
***OPERATIONS***

## SECTION 2 OPERATIONS

### 2.1 General Information

The RS Series Roller Screeds are self-propelled and are hydraulically driven and require only one operator, two laborers and two concrete placers. The screed is expandable from 14 ft. (4.26 m) to 34 ft. (10.36 m).

Before shipment, this Roller Screed was tested at the factory. If there are any problems with the screed, please contact the nearest AEC service center.

The purpose of the roller screed is to strike off the surface of the concrete at a specified grade. The drive rollers on the screed ride on steel tube rails or forms, allowing the paving tube to work the concrete to the desired grade.

The strike tube rotation should always push the concrete forward into areas that have not yet received the concrete. Depending on the slump of the concrete, several passes might be required for the right strike off grade.

Some of the applications the screed can be used for are: suspended slabs, slabs on grade, tilt-up panels, roads, post-tension slabs, bridges, elevated decks, runways, highway rehabilitation and white topping.

A precision straightening process insure that the paving tube precisely levels the concrete surface to grade. AEC's advanced paving tube design leaves aggregate at the surface for harder, longer wearing slabs and can strike off concrete with slumps as low as 1-inch (2.54 cm.).

Paving tubes are available in various lengths. Paving tubes are a critical component of the roller screed. If the paving tubes are damaged, it is possible they will not turn true (rotate correctly). Replace them accordingly.

#### NOTICE

Read all instructions carefully before operating the Roller Screed. Improper setup, use or maintenance of the equipment could result in personnel injury or damage to the equipment.

#### NOTICE

Care should be taken to store reserved (not used) paving tubes on a fully supported level surface. **NEVER** lift the screed from the paving tubes.

## 2.1 General Information (continued)

## SECTION 2 OPERATIONS

The Roller Screed is composed of frame sections which vary in length from 1 ft. (.3 m) to 6 ft. (1.82 m). These frame sections support the paving tube which runs along the front of the screed.

The screed is equipped with two sets of independently controlled rubber-coated drive tubes. These drive tubes are located at each end of the screed (operator end/power unit end) and are controlled by two separate control levers.

Since the drive tube levers are independent of each other, one set of drive tubes can travel forward, while the other set of drive tubes travels backwards. Using the levers in this way lets the operator steer the screed.

Two sets of rubber caster wheels provide easy maneuvering when placement of the screed onto rails or forms is required.

The Roller Screed is height adjustable by means of four separate jack assemblies. These jack assemblies have a crank handle that allows the operator to raise and lower the screed.

The power unit is powered by Kubota diesel engines, a 32HP on the RS832 and a 44 HP on the RS844. Coupled to the diesel engine is a hydraulic drive pump which provides the hydraulic pressure necessary to rotate the drive and paving tubes.

Inadequate substrate and form support can lead to form failure causing unnecessary job delays and expenses while contributing to poor floor flatness and floor levelness ratings.

The intent of the form specifications is to establish minimum guidelines to help the contractor choose the most economical and effective formwork/support system for the job application.

It is recommended that at least the day prior to the concrete pour, a dry run be accomplished to test the load capacity of the forms and substrate. Proper job planning is essential to a successful application.

Subgrade must be sound enough to support slab edge forms and bracing as well as the load imposed by the screed and its support. Potential deflections, as in the case with metal and plywood decks, should be considered when determining brace and support spacing.

Soil substrates must be well compacted and must be able to support bearing pressures greater than or equal to those imposed by the screed supports and the slab forming.

For proper bearing support, shims should be used to adequately distribute loads where grade is not level or is soft. Use standard ACI concrete form pressures when calculating lateral loads on slab edge forms.

## SECTION 2 OPERATIONS

### 2.1 General Information (continued)

Wood forms are not a preferred method of screed support. Because of the concentrated bearing loads by the screed, wood is not a good support material. Nominal 2 X 1-1/2 No. 2 Douglas Fir is calculated to support a maximum of 1000 lbs. (453 kg.). The grain could crush and splinter causing level variations and potential failure. 4 X 3-1/2 lumber for edge form should be acceptable.

#### NOTICE

Check with city and state civil engineering regulations regarding the type and size of lumber used for edge forms.

Screed rails and supports, independent of slab edge forming is the preferred method. Due to strength, deflection and traction considerations, 2.5" X 2.5" X.1875 (3/16-inch) wall structural steel tubing with adjustable support spacing is recommended.

Standard deflection with 3/16-inch wall tubing thickness for the above reference configuration is 1/16-inch for every 3 ft. (1.2 meters). Refer to standard material charts for other configurations.

Paving forms with 90° lip-edge at bottom with stake pockets is preferred. If soft or unlevel subgrade is encountered, a 2X bearing pad and/or shims should be used under the steel forms for additional bearing support. Depending on slab thickness and subgrade, forms may require diagonal bracing.

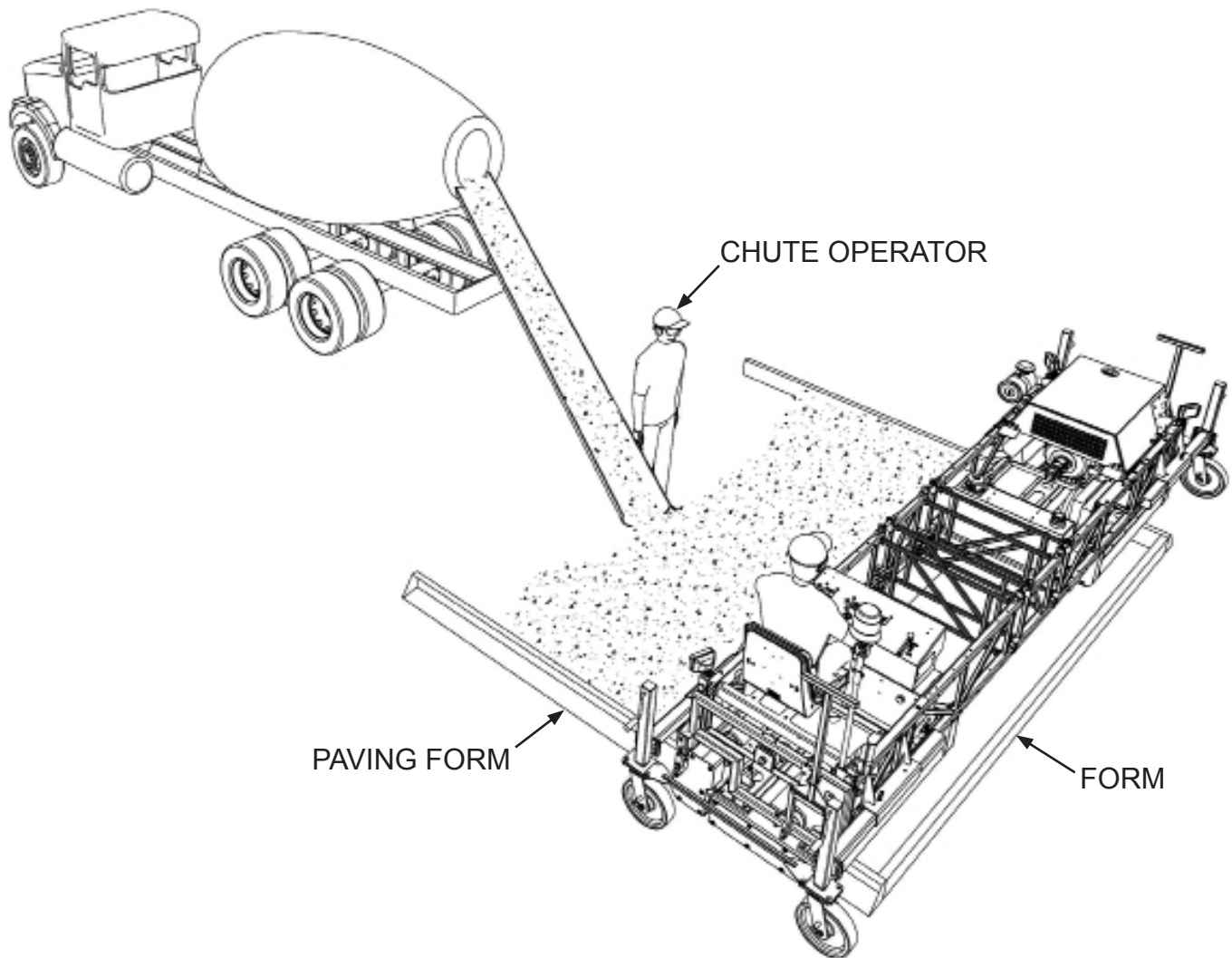
#### NOTICE

These recommended form and rail specifications are provided to illustrate the application and are not intended to supersede or replace any city or state civil engineering procedures and or specifications. AEC will not be responsible for the improper application of the RS-Series Roller Screeds.



## 2.1 General Information (continued)

## SECTION 2 OPERATIONS



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## SECTION 2 OPERATIONS

### 2.1 General Information (continued)

This equipment was designed with user safety in mind; however it can present hazards if improperly operated or misused.

The application of this roller screed is to strike off the surface of the concrete at a predetermined grade. This equipment is to be used only for its intended application and for no other purpose. Any misuse of this equipment will void any and all warranties.

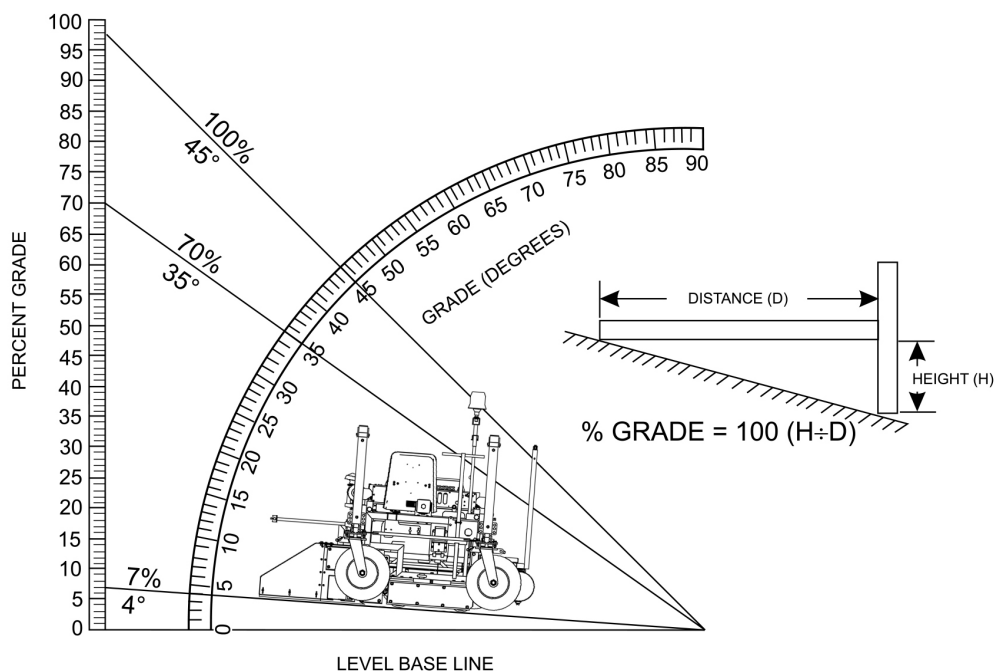
Misuse is defined as the following but not limited to:

- Modifications or repairs made to the equipment without written approval from AEC.
- Improper storage
- Poor maintenance
- Dirty machine
- Improper lifting that may cause frame to bend
- Screeding surfaces other than concrete
- Scarring of strike tube surface
- Removal of guards
- Operating with defective or worn parts
- Inadequate forms (cannot support weight of screed)

**This roller screed shall not be used on grades (up or down) that exceed 7% (4°).**

#### CAUTION

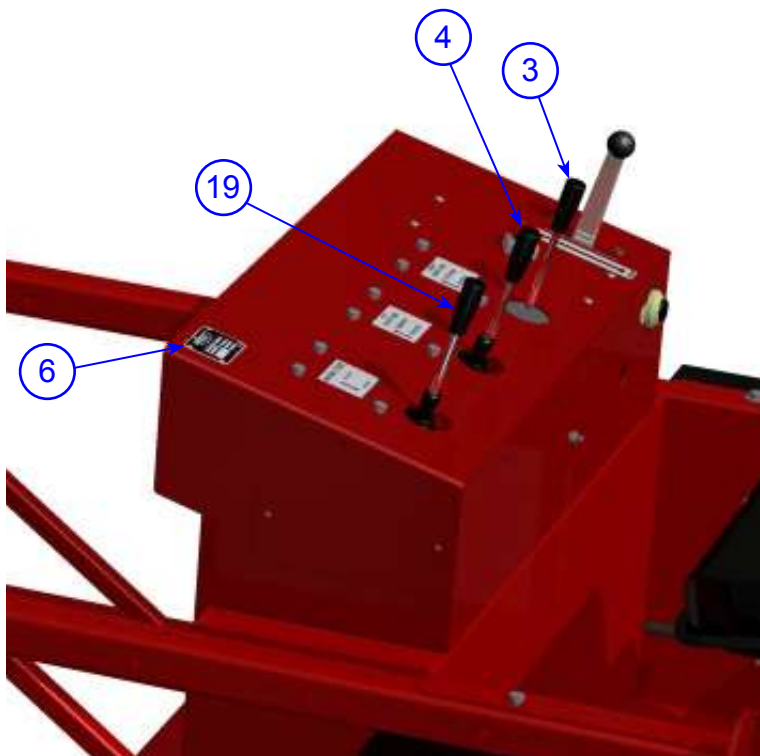
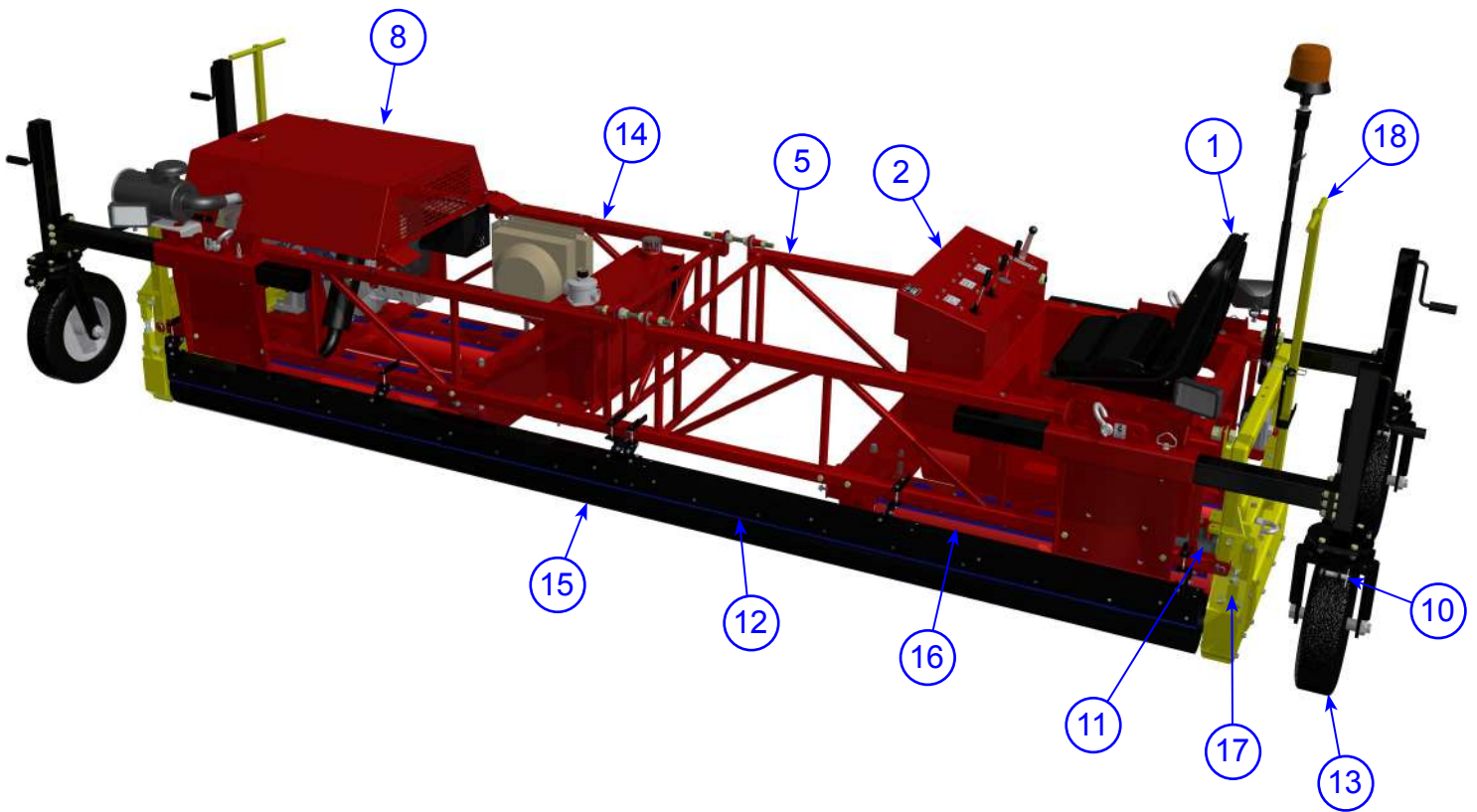
Operating the roller screed on slopes greater than 7% (4°) may cause the operator to lose control. This condition may cause severe damage to the equipment and bodily harm to the operator.





## 2.2 Operational Controls

## SECTION 2 OPERATIONS



## SECTION 2 OPERATIONS

### 2.2 Operational Control (continued)

The definitions below describe the controls and functions of the Roller Screed.

- 1. Operators Seat** — Provides an unobstructed view of the work area. Seat is adjustable.
- 2. Control Panel** — Contains all operating controls.
- 3. Drive Tube Lever (Engine Side)** — When activated this 3 position lever will cause the engine side drive tube to rotate in a clockwise (forward) or counter-clockwise (reverse) direction. The center position is neutral, no rotation. This drive tube is independent of the operator side drive tube.
- 4. Drive Tube Lever (Operator Side)** — When activated this 3 position lever will cause the operator side drive tube to rotate in a clockwise (forward) or counterclockwise (reverse) direction. The center position is neutral, no rotation. This drive tube is independent of the engine side drive tube.
- 5. Frame (Operator End)** — 7 foot (2.13 meters) section that consists of 2 rubber coated drive tubes and associated hardware. This frame section is located just below the operators seat.
- 6. Serial Number Plate** — When ordering parts, use information on this plate to identify model and type of unit.
- 7. Hydraulic Hose Lines** — Always keep hose lines clean. **DO NOT** allow foreign debris, dirt to enter into the fittings. Dirt or foreign matter can contaminate the hydraulic fluid system and cause failure to pumps, motors, and all other system components.
- 8. Power Unit** — Provides the necessary hydraulics and electronics to operate the roller screed.
- 9. Jack Raise/Lower Handles** — Available only on the RS844 machine. Use these control knobs to operate the jacks.
- 10. Wheel Pins** — There are 2 pins on each side of the wheel support. When transporting of the screed is required, insert pull handle into these locking pins.
- 11. Paving Tube Hydraulic Motor** — Rotates hydraulic paving tube.
- 12. Scraper** — Helps prevents excessive amounts of concrete from accumulating on the screed frame.
- 13. Transport Wheels** — Allows for easy maneuvering of the screed around jobsite.
- 14. Truss Sections** — Available in various lengths (2' and above).
- 15. Paving Tube** — Levels concrete surface to grade. Available in various lengths.
- 16. Drive Tubes** — There are 2 sets of rubber coated drive tubes that operate independently of each other. Max speed is 150 rpm.

## 2.2 Operational Control (continued)

## SECTION 2 OPERATIONS

**17. Paving Tube Adjustment** — Located on the frame ends. Required for the adjustment of paving tube.

**18. Pull Handle** — When maneuvering of the screed is required for small distances, insert the hooks on the pull handle into the wheel pins, then pull on handle to move screed to desired location.

**19. Paving Tube Direction Control Lever** — This lever controls the rotation of the paving tube. Pull up for forward rotation, push down for reverse rotation.

**20. Augers** — Available only on the RS844 machine. These allow the operator to distribute the concrete in front of the machine for consistent even paving.

**21. Emergency Trip Line** — Available only on the RS844 machine. This cable will shut the machine down immediately in the case that a person falls into the auger area while the machine is in operation.

**22. Rear Walkway** — Allows concrete placers and finishers to traverse the machine to work on the slab after the machine has finished the concrete.

**23. Spray System** — Available only on the RS844 machine. This control knob turns the spray system on and off.

## SECTION 2 OPERATIONS

### 2.3 Before Starting

The following instructions are intended as a basic guide for machine start-up and operation. Following these instructions will help preserve and maintain the life of this equipment.

#### Fuel Check

DO NOT smoke while refueling, diesel fuel is highly flammable and can be dangerous if mishandled.

1. To check the engine fuel level, place the power unit on a secure flat surface with the engine stopped.
2. Remove the fuel filler cap and inspect the tank for fuel level.
3. If fuel level is low, fill with #2 clean fresh diesel fuel. Wipe up any spilled fuel immediately.



Fuel spillage on a hot engine can cause a fire or explosion. If fuel spillage occurs, wipe up the spilled fuel completely to prevent fire hazards.

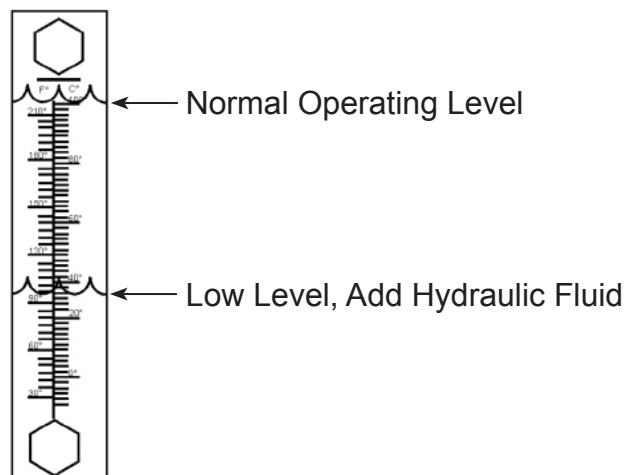
**NEVER** smoke around or near a generator.



4. After replenishing fuel, make sure cap is securely tightened to fuel tank.

#### Hydraulic Oil Check

1. To check the hydraulic oil level, place the power unit on a secure flat surface with the engine stopped.
2. Visually inspect the hydraulic oil sight gauge located on the side of the hydraulic oil tank. For normal operation the fluid level should be visible at the top of the sight glass.
3. If the hydraulic oil level is low, remove the hydraulic oil cap and fill with type AW32 anti-wear type hydraulic oil to the recommended operating level.



1. On the power unit place the operation valve lever in the screed position
2. Sit down in operator's seat.
3. Place the two drive tube directional control levers in the middle position.
4. Place the drive tube speed control lever in the OFF position.
5. Place the strike tube speed and directional control lever in the neutral (center) position.
6. Pull upwards on the emergency stop switch.
7. Place engine speed control lever in the idle RPM position.
8. Insert ignition key into ignition switch. Next, turn ignition key counter-clockwise and watch for the glow plug LED to go out. This position allows warming of the glow plugs.
9. When glow plug status LED goes off, turn ignition key to start position.
10. Let engine idle for 2 to 3 minutes. Listen for any abnormal sounds.
11. Verify that all engine status LED's on the control panel are OFF. If any status LED's are on, shutdown the engine and correct the problem.
12. Place engine speed switch in the full RPM position.
13. **DO NOT** use the starter for more than 5 seconds or starter motor damage may occur. If the engine fails to start, release the switch and wait 10 seconds before operating the starter again.

1. Fully engage the operator end directional drive tube control levers in the forward direction.
2. Move the drive tube speed control lever slightly forward(a few rpm's) and verify that both drive tubes rotate.
3. Fully engage the operator end directional drive tube control lever in the reverse (pull back) direction.
4. Return operator end directional drive tube control lever to center position.
5. Move the power unit end directional drive tube control lever fully forward and verify that both drive tubes rotate.
6. Next, fully engage the power unit end drive tube control lever in the reverse (pull back) direction and verify that both drive tubes rotate.
7. Return power unit end directional drive tube control lever to center position
8. Place the drive tube speed control lever in the straight up position (off).
9. Move the strike tube speed and direction control lever slightly forward. Verify strike tube rotates in a clockwise rotation. Move lever slightly backwards and verify that strike tube rotates in a counter-clockwise direction.
10. The Roller Screed is now ready for use.

***Section 3***  
***SERVICE***

## SECTION 3 SERVICE

### 3.1 General Maintenance

When performing maintenance on the roller screed or engine, follow all safety messages and rules for safe operation stated at the beginning of this manual.

See the engine manual supplied with your machine for appropriate engine maintenance schedule and troubleshooting guide for problems.

#### **WARNING**

Accidental starts can cause severe injury or death.



**ALWAYS** place the ignition switch in the OFF position before performing any maintenance.



Disconnect negative battery cable from battery before servicing.



**ALWAYS** allow the engine to cool before servicing.  
NEVER attempt any maintenance work on a hot (muffler, radiator, etc.) power unit.



#### **WARNING**

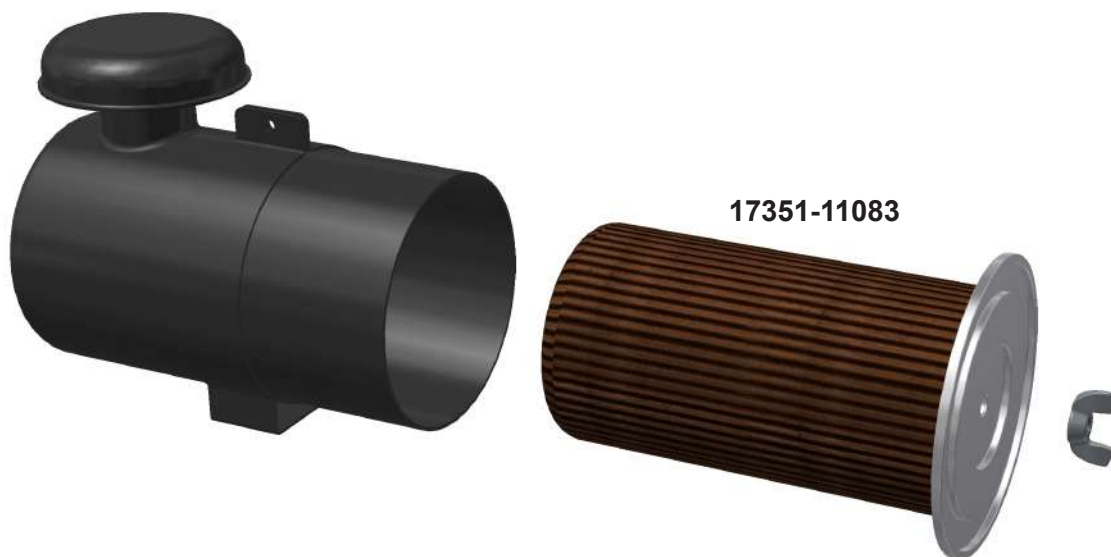
Certain maintenance operations or machine adjustments require specialized knowledge and skill. Attempting to perform maintenance operations or adjustments without the proper knowledge, skills or training could result in equipment damage or injury to personnel. If in doubt, consult your dealer.



This machine is equipped with a replaceable, high-density paper air cleaner element.

Check the air cleaner daily or before starting the engine. Check for and correct heavy buildup of dirt and debris along with loose or damaged components.

1. Remove wing nut.
2. Remove element from air cleaner body.
3. Clean cartridge by gently tapping the end with the handle of a screwdriver. Replace cartridge if very dirty or damaged with AEC part number 17351-11083.
4. Carefully clean out the air cleaner cover.
5. Install element in body.
6. Reinstall wing nut.



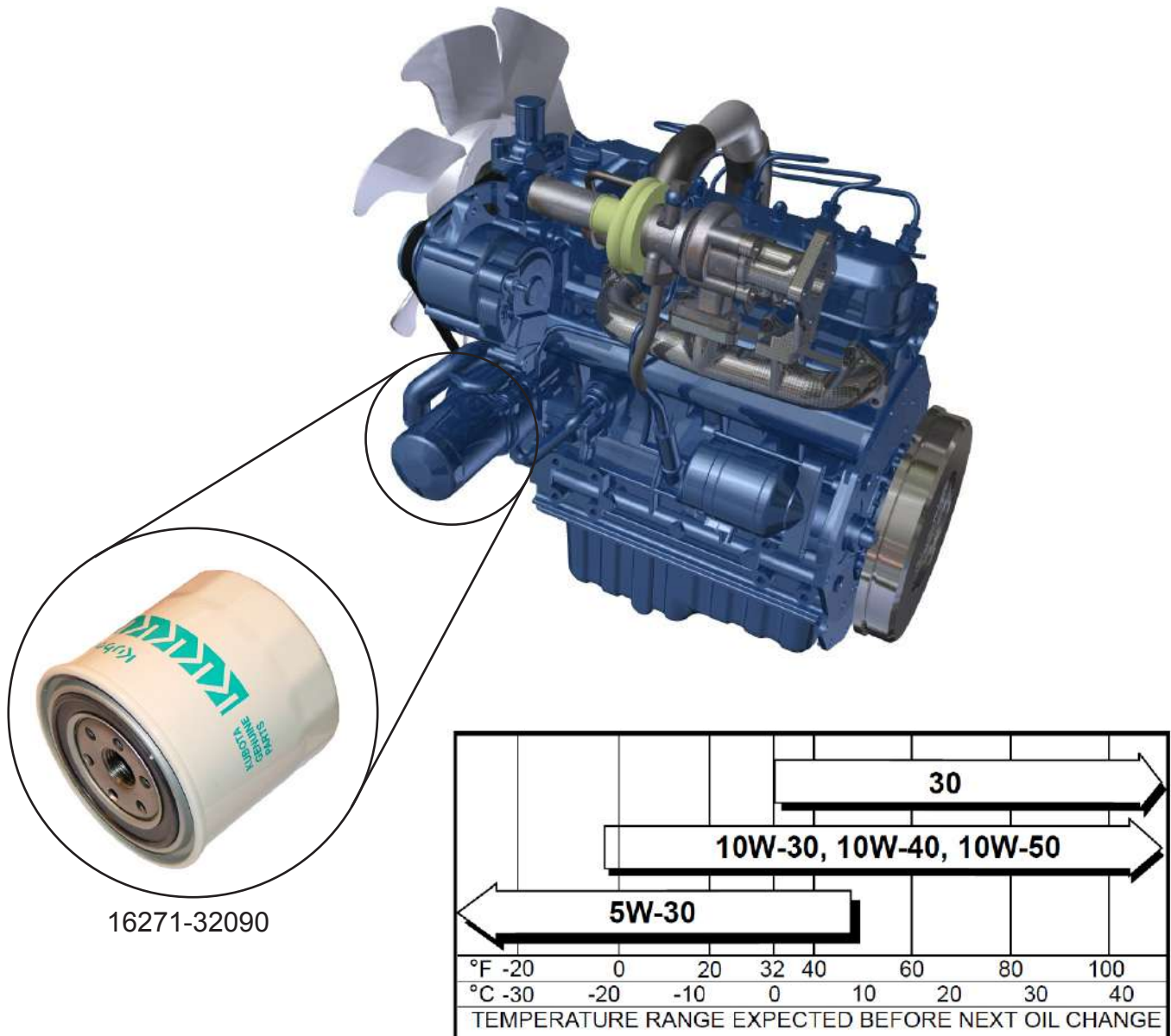
### NOTICE

Operating the engine with loose or damaged air cleaner components could allow unfiltered air into the engine causing premature wear and failure.

## SECTION 3 SERVICE

### 3.3 Engine Oil and Oil Filter

1. Change the engine oil and filter after the first 5 hours of use, then change oil every 6 months or 150 hours.
2. Remove the oil filler cap and fill engine crankcase with recommended type oil as listed in the table below. Fill to the upper limit of dipstick.
3. Crankcase oil capacity with oil filter replacement is 5.1L (1.35 Gal).
4. Replace the engine oil filter every other oil change or 300 hours. Refer to your engine manual for specific details to perform this operation.



## 3.4 Engine Fuel Filter

## SECTION 3 SERVICE




Replace the engine fuel filter every 800 hours. Refer to your engine manual for specific details to perform this operation.

Check the oil and fuel lines and connections regularly for leaks or damage. Repair or replace as necessary.

Replace the oil and fuel lines every two years to maintain the line's performance and flexibility.

### Radiator/Cooling System


⚠ WARNING	
	Allow engine to cool when flushing out radiator. Flushing the radiator while hot could cause serious burns from water or steam.


1. Check and clean radiator fins.
2. Check cooling water.
3. Check radiator hoses for fatigue or cracking.
4. Check radiator cap seal.

Refer to your engine manual for additional information.


## SECTION 3 SERVICE

### 3.5 Battery and Charging System


**WARNING**



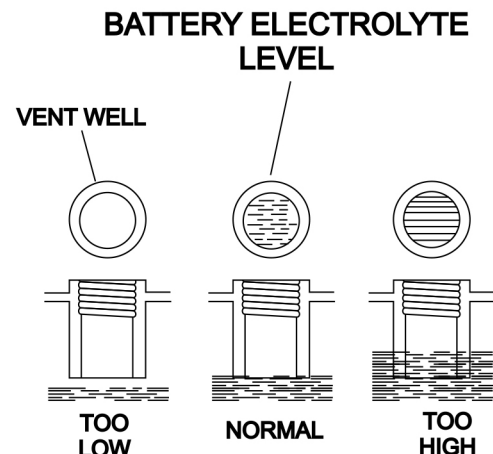
Flammable, explosive gas (produces hydrogen gas while charging or during operation). Keep area around battery well ventilated and keep from any fire source.



Battery electrolyte contains corrosive, toxic chemical (dilute sulfuric acid). Avoid contact with eyes and skin. **ALWAYS** wear eye protection and rubber gloves. If your clothing or skin comes into contact with battery acid, immediately wash off with running water and get medical attention.



Shock or fire due to electric short-circuit. Disconnect battery cables before inspecting electrical system and never “spark” battery terminals to test for charge.



Mishandling of the battery shortens its service life and adds to maintenance cost.

1. Check and clean battery terminals for corrosion often.
2. Check the battery regularly and make sure that each electrolyte level is to the bottom of the vent well. If necessary, add only distilled water in a well ventilated area. Never operate or recharge without sufficient fluid in the battery.
3. Never attempt to charge a battery that is frozen. The battery can explode unless first allowed to thaw.
4. **ALWAYS** be sure that the battery cables are properly connected to the battery terminals as shown below. Generally the **RED** cable will be connected to the positive terminal of the battery, and the **BLACK** cable will be connected to the negative terminal of the battery.
5. Disconnect the negative terminal ( - ) of the battery during storage. If unit will be stored where ambient temperature will drop to  $-15^{\circ}\text{C}$  or less, remove and store battery in a warm, dry place.

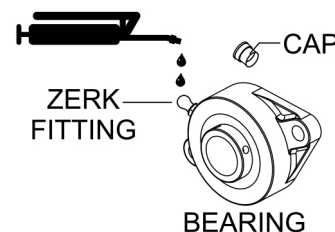
## 3.6 Bearing Lubrication

## SECTION 3 SERVICE

Paving tube and drive tube bearings require lubrication daily. Lubricate all bearing grease fittings with EP3 grease or equivalent.

### NOTICE

**Failure** to lubricate bearing grease fittings daily will cause rotation of drive and paving tubes to stiffen. To prevent contamination of the bearing, always insert cap onto zerk fitting.



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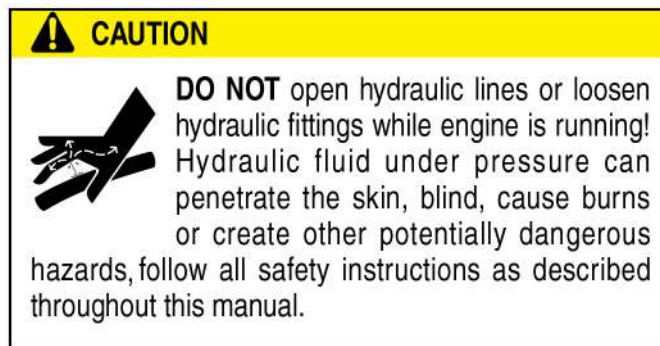
## SECTION 3 SERVICE

### 3.7 Hydraulic System

The hydraulic system consists of a hydraulic pump directly coupled to the engine. Hydraulic oil is filtered by a screen filter located in the tank filler neck, a return filter that is located on top of the hydraulic tank, and a suction filter that screws in to the bottom of the hydraulic tank.

It is recommended that AW32 type hydraulic oil or equivalent be used when adding or replacing the hydraulic oil. **DO NOT USE MULTI-VISCOSITY OIL.** Cleanliness is a very important part of proper hydraulic system operation. Hydraulic oil is not only used to transfer power; it also lubricates and cools the system components. Keeping the hydraulic system clean can help reduce costly repairs.

The hydraulic oil level sight glass is located on the side of the hydraulic tank. This level should be checked daily. Oil must be below the top and above the bottom of the sight glass. **DO NOT OVERFILL!** Care should be taken to clean the filler cap before adding oil to the system. If hydraulic oil has to be added, the machine should be inspected for leaks.

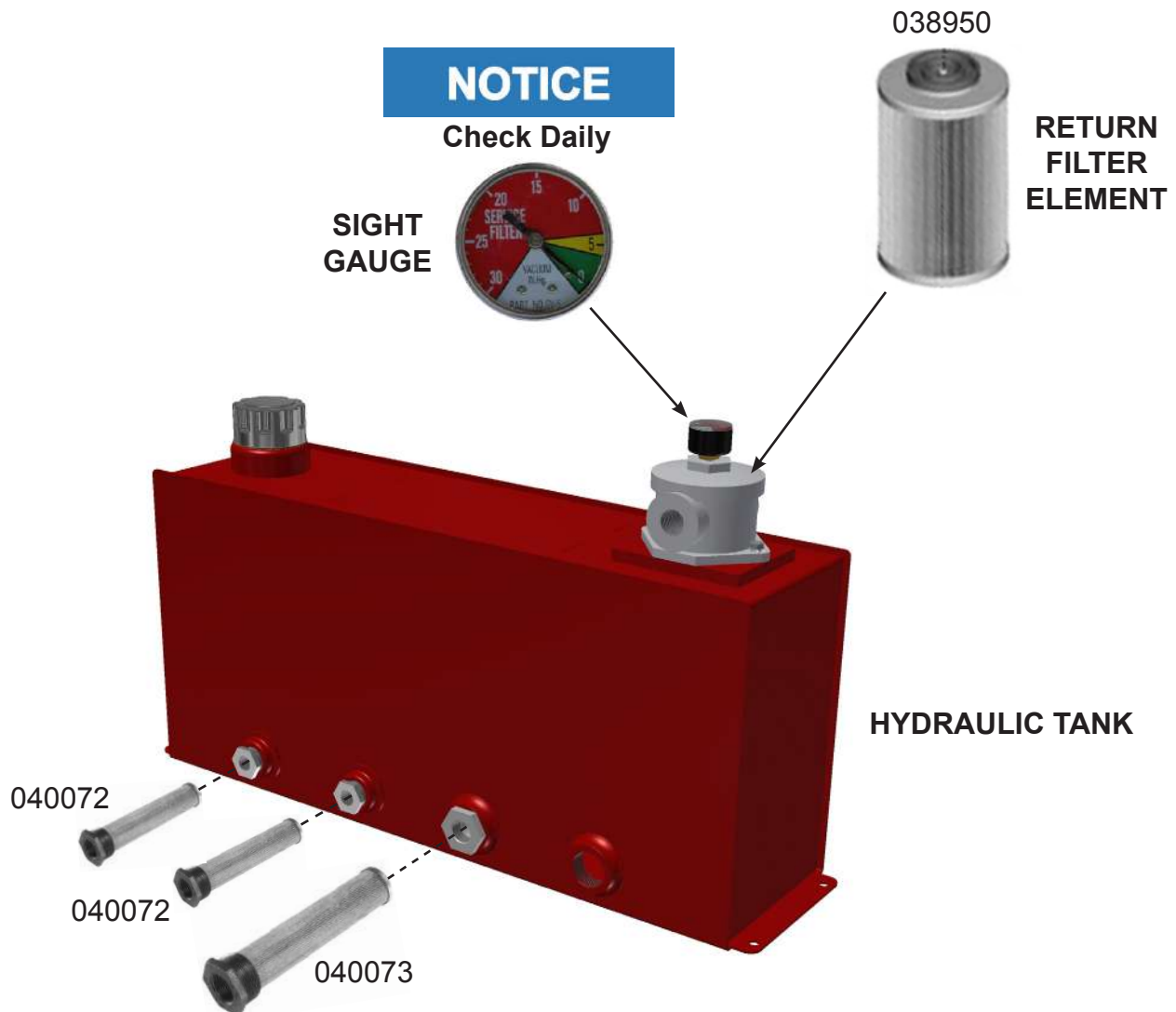




## 3.8 Hydraulic System Filters

## SECTION 3 SERVICE

1. Place the machine on a clean flat work area.
2. Remove the hydraulic oil drain plug and drain the hydraulic oil. Dispose of the used oil in an environmentally friendly manner. Replace the drain plug and tighten.
3. Remove the return filter and install a new filter. Dispose of the used filter in an environmentally friendly manner.
4. Disconnect the suction hose and remove the fitting from the tank. Replace the suction filter. Dispose of the used filter in an environmentally friendly manner. Replace the fitting and reconnect the suction hose.



## **SECTION 3 SERVICE**

### **Notes**



***Section 4  
PARTS***

## SECTION 4 PARTS

### Factory Service Information

This section contains the illustrated drawings and parts list for help in identifying and/or ordering replacement parts for your machine. Follow the instructions in the front section of this manual “Ordering Parts” when ordering replacement parts to insure prompt and accurate delivery.

The FRONT and/or REAR orientations are defined from the operator’s view of sitting on machine (SOM).



#### ! NOTE

All set screws have blue (LOC-TITE™) applied at the factory. If set screw is removed or loosened for any reason re-apply blue (LOC-TITE™).



#### ! NOTE

All grease fittings are capped with CAP PLUG GC-5 (AEC PN 015692) to protect the fitting. If cap becomes missing or damaged replace it as soon as possible.



#### ! NOTE

Anti-Seize is applied at the factory to drive line couplings, and moving components. If these parts are disassembled re-apply a light coat of a graphite based anti-seize.

We recommend AEC quality replacement parts, available from the AEC Customer Service Department or your nearest AEC Dealer.

Part numbers are subject to change without notice. Part numbers might be different outside of the United States of America. Use part numbers listed in the applicable parts list table when you place your order. If a part number changes, the AEC Customer Service Department or your nearest AEC dealer will have the latest part number for the replacement part.

Remember when you order replacement parts, you will need your model number and serial number. These are the numbers that you have recorded in the UNIT ID section of this manual. Please order replacement parts by the appropriate part number, not the key number.

This manual contains an illustrated parts list for help in ordering replacement parts for your machine. Follow the instructions below when ordering parts to insure prompt and accurate delivery:

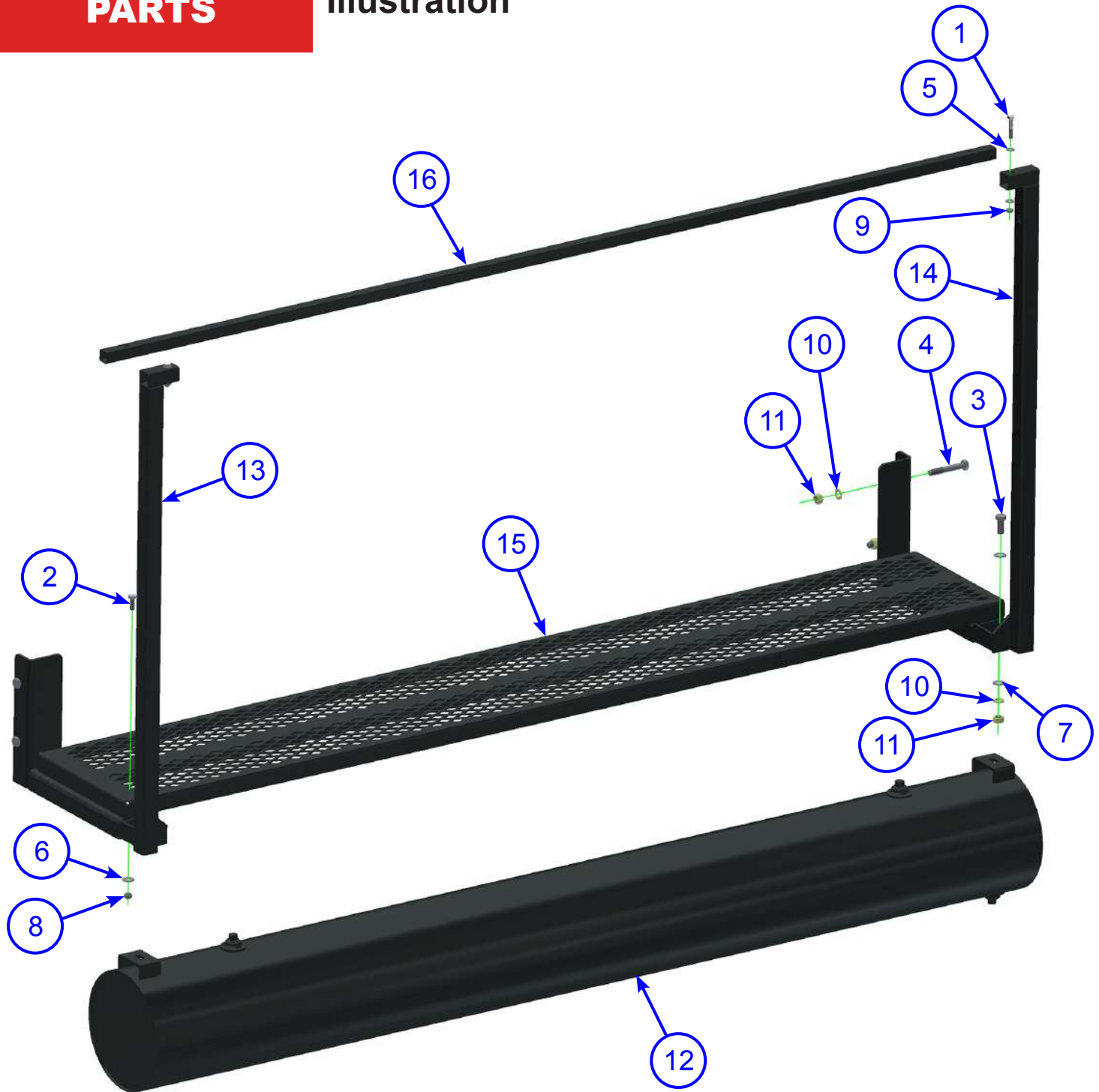
1. All orders for service parts - include the serial number for the machine. Shipment will be delayed if this information is not available.
2. Include correct description and part number from the "PARTS" Section 4.
3. Specify exact shipping instructions, including the preferred routing and complete destination address.
4. DO NOT return parts to AEC without receiving written authorization from AEC. All authorized returns must be shipped pre-paid.
5. When placing an order, please contact the AEC Dealer nearest you.



*All information, specifications, and illustrations in this manual are subject to change without notice and are based on the latest information at the time of publication.*

## SECTION 4 PARTS

### Rear Walkway and Ballast Tube Illustration

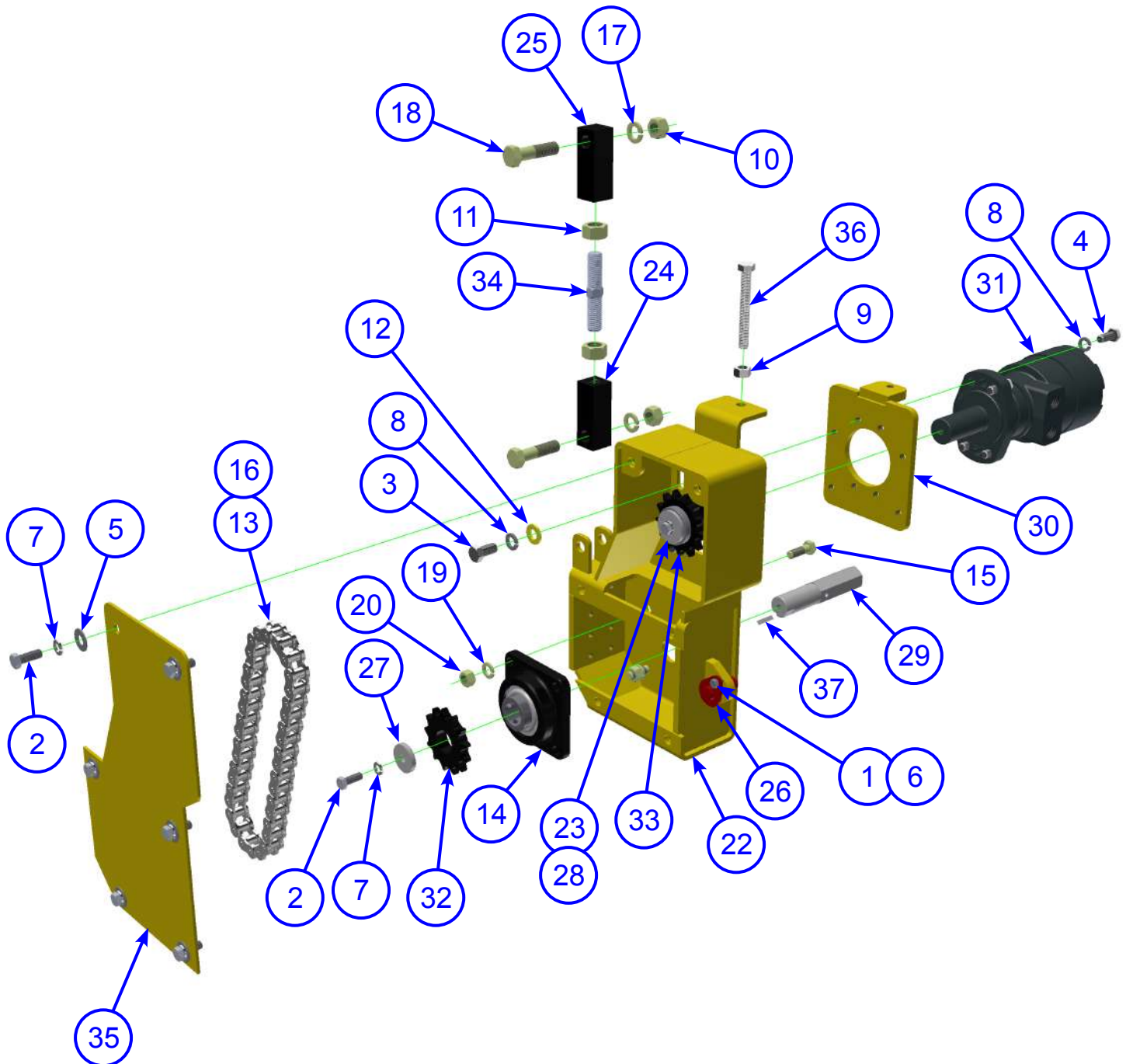


## Rear Walkway and Ballast Tube Parts List

## SECTION 4 PARTS

ITEM	PART #	DESCRIPTION	QTY
1	010023	FSTN, HHCS 5/16-18 X 1-3/4	2
2	010036	FSTN, HHCS 3/8-16 X 1	4
3	010068	FSTN, HHCS 1/2-13 X 1-1/4 GR 5	4
4	010076	FSTN, HHCS 1/2-13 X 3 GR 5	2
5	010082	FSTN, FW 5/16	4
6	010083	FSTN, FW 3/8	10
7	011490	FSTN, FW HARDENED 1/2	1
8	020514	FSTN, NUT STOVER LOCK 3/8-16	4
9	040004	FSTN, 5/16-18 GR-C STOVER HEX NUT	2
10	055039	FSTN, LW 1/2 GR8 YELLOW ZINC	4
11	055040	FSTN, NUT HEX 1/2-13 GR8 YELLOW ZINC	4
12	057019	14' BALLAST TUBE FOR 057000	1
13	057020	WELD'T, LH FRONT WALKWAY BRKT	1
14	057021	WELD'T, RH FRONT WALKWAY BRKT	1
15	057022	7' WALKWAY BECK	1
16	057107	TOP RAIL FOR WALKWAY ON PR 2440	1

## Paving Tube Motor Assembly Illustration



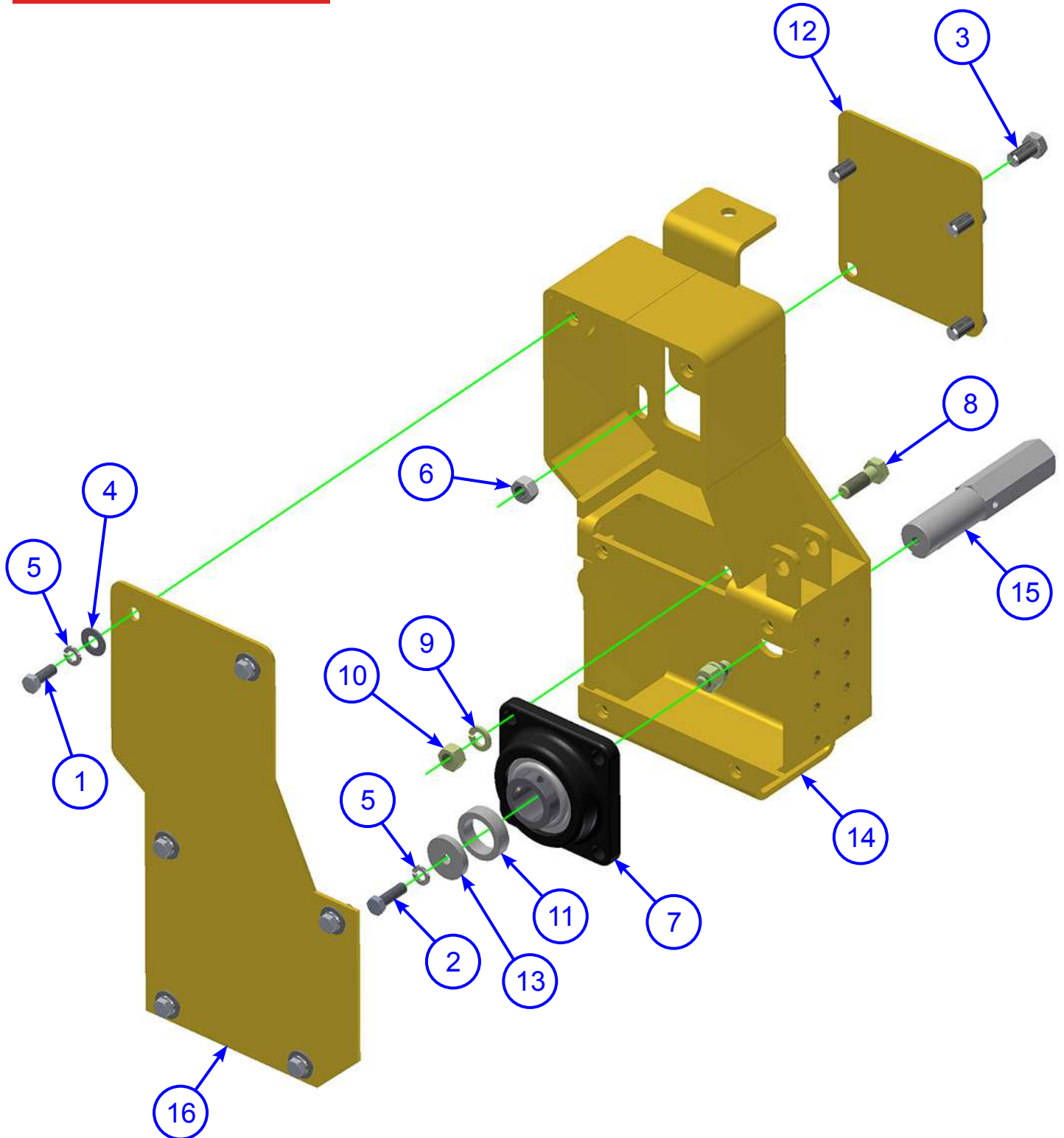
# Paving Tube Motor Assembly Parts List

## SECTION 4 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	010001	FSTN, HHCS 1/4-20 X 1/2 GR 5	1
2	010036	FSTN, HHCS 3/8-16 X 1	8
3	010067	FSTN, HHCS 1/2-13 X 1	4
4	010068	FSTN, HHCS 1/2-13 X 1-1/4 GR 5	4
5	010083	FSTN, FW 3/8	6
6	010089	FSTN, LW 1/4	1
7	010091	FSTN, LW 3/8	8
8	010093	FSTN, LW 1/2	8
9	010106	FSTN, NUT HEX 1/2-13	2
10	010110	FSTN, NUT HEX 5/8-11 GR 8	2
11	010112	FSTN, NUT HEX 3/4-10	2
12	011490	FSTN, FW HARDENED 1/2	4
13	019303	LINK MASTER FOR #60 CHAIN	1
14	029222	IDLE END BEARING	1
15	037798	FSTN, HHCS 1/2-13 X 1 1/2 GR8	4
16	046277	CHAIN, #60 SERIES (10' BOX)	1
17	053422	FSTN, LW 5/8	2
18	053493	FSTN, HHCS 5/8-11 x 2 1/2" LG GR. 8	2
19	055039	FSTN, LW 1/2 GR8 YELLOW ZINC	4
20	055040	FSTN, NUT HEX 1/2-13 GR8 YELLOW ZINC	4
21	057037	SPACER, INNER FOR DRIVE SPROCKET	1
22	057136	HOUSING, PAVING TUBE LH	1
23	057145	SPACER, OUTER FOR DRIVE SPROCKET	1
24	057151	TURNBUCKLE, RH F/ END FRAME	1
25	057152	TURNBUCKLE, LH F/ END FRAME	1
26	057155	PIN, PAVING TUBE CONNECTING	1
27	057159	WASHER, SHAFT RETAINING	1
28	057176	RETAINER WASHER FOR DRIVE MOTORS	1
29	057177	SHAFT DRIVE FOR DRIVE TUBES	1
30	057189	PAVING TUBE MOTOR MOUNT BRACKET	1
31	057224	HYD MOTOR, PAVING TUBE	1
32	057283	MODIFIED SPROCKET, 60 B 1 1/4 X 13 TOOTH HARDEND TEETH	1
33	057284	SPROCKET, #60 13 TOOTH 1 1/2" BORE HARDEND TEETH	1
34	057496	TURNBUCKLE 3/4-10 x 4"	1
35	057717	COVER, FOR PAVING TUBE DRIVE BRACKET	1
36	058848	FSTN, HHCS 1/2-13 X 4" TAP BOLT GR 8 ZINC	1
37	011791	KEY, 1/4" SQ X 1" LG	1

## SECTION 4 PARTS

### Paving Tube Idle Assembly Illustration





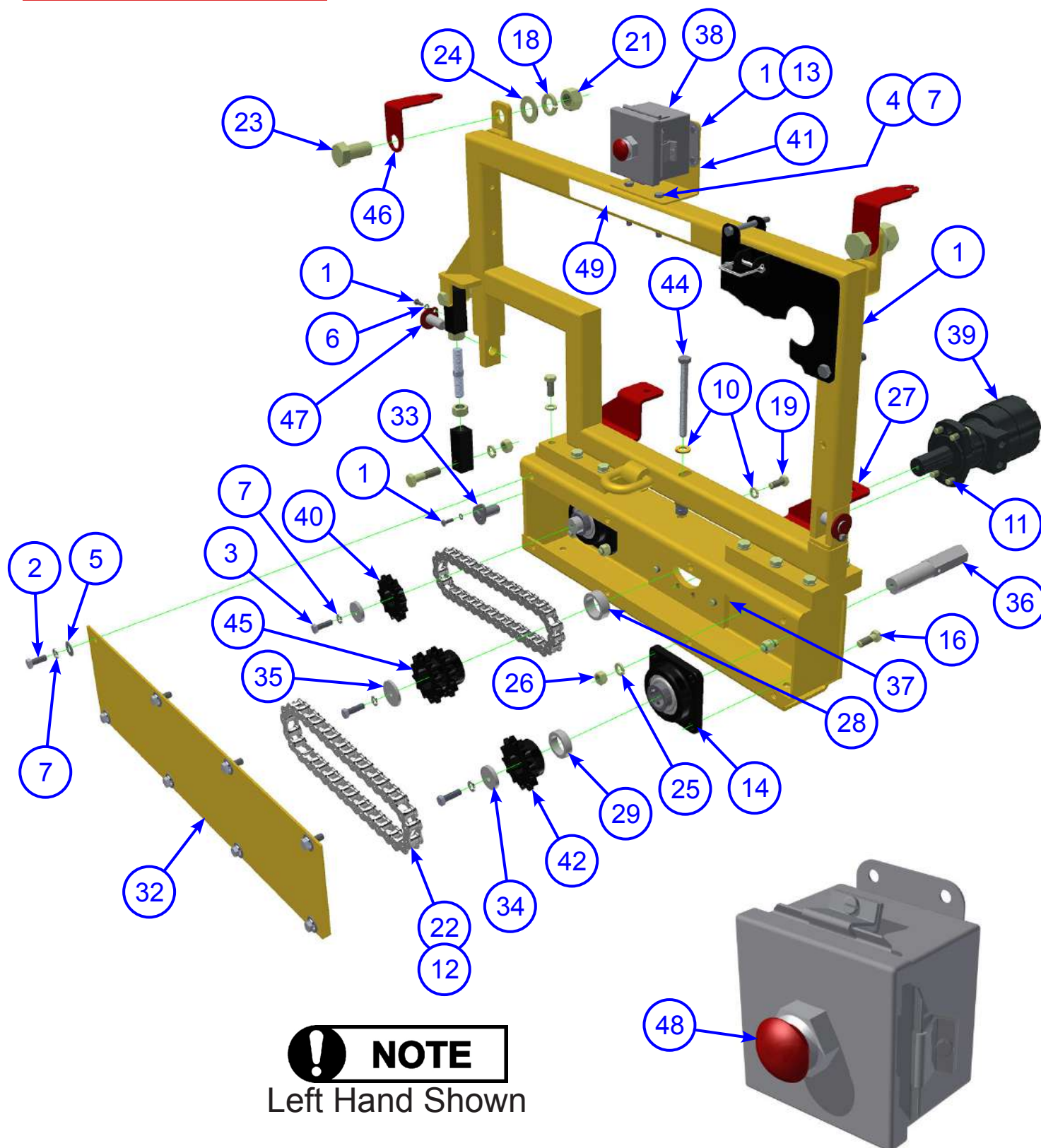
## Paving Tube Idle Assembly Parts List

## SECTION 4 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	010036	FSTN, HHCS 3/8-16 X 1	6
2	010037	FSTN, HHCS 3/8-16 X 1-1/4 GR 5	1
3	010067	FSTN, HHCS 1/2-13 X 1	4
4	010083	FSTN, FW 3/8	6
5	010091	FSTN, LW 3/8	7
6	010106	FSTN, NUT HEX 1/2-13	4
7	029222	IDLE END BEARING	1
8	037798	FSTN, HHCS 1/2-13 X 1 1/2 GR8	4
9	055039	FSTN, LW 1/2 GR8 YELLOW ZINC	4
10	055040	FSTN, NUT HEX 1/2-13 GR8 YELLOW ZINC	4
11	057039	SPACER, SPROCKET FOR REAR DRIVE SPROCKET	1
12	057088	COVER PLATE, FOR PAVING TUBE IDLE END MNT RS800	1
13	057159	WASHER, SHAFT RETAINING	1
14	057170	HOUSING, PAVING TUBE RH WITH AUGER RECIEVER HOLES	1
15	057177	SHAFT DRIVE FOR PR2440 DRIVE TUBES	1
16	057717	COVER, FOR PAVING TUBE DRIVE BRACKET	1

## SECTION 4 PARTS

## Drive Tube Frame Assembly Illustration



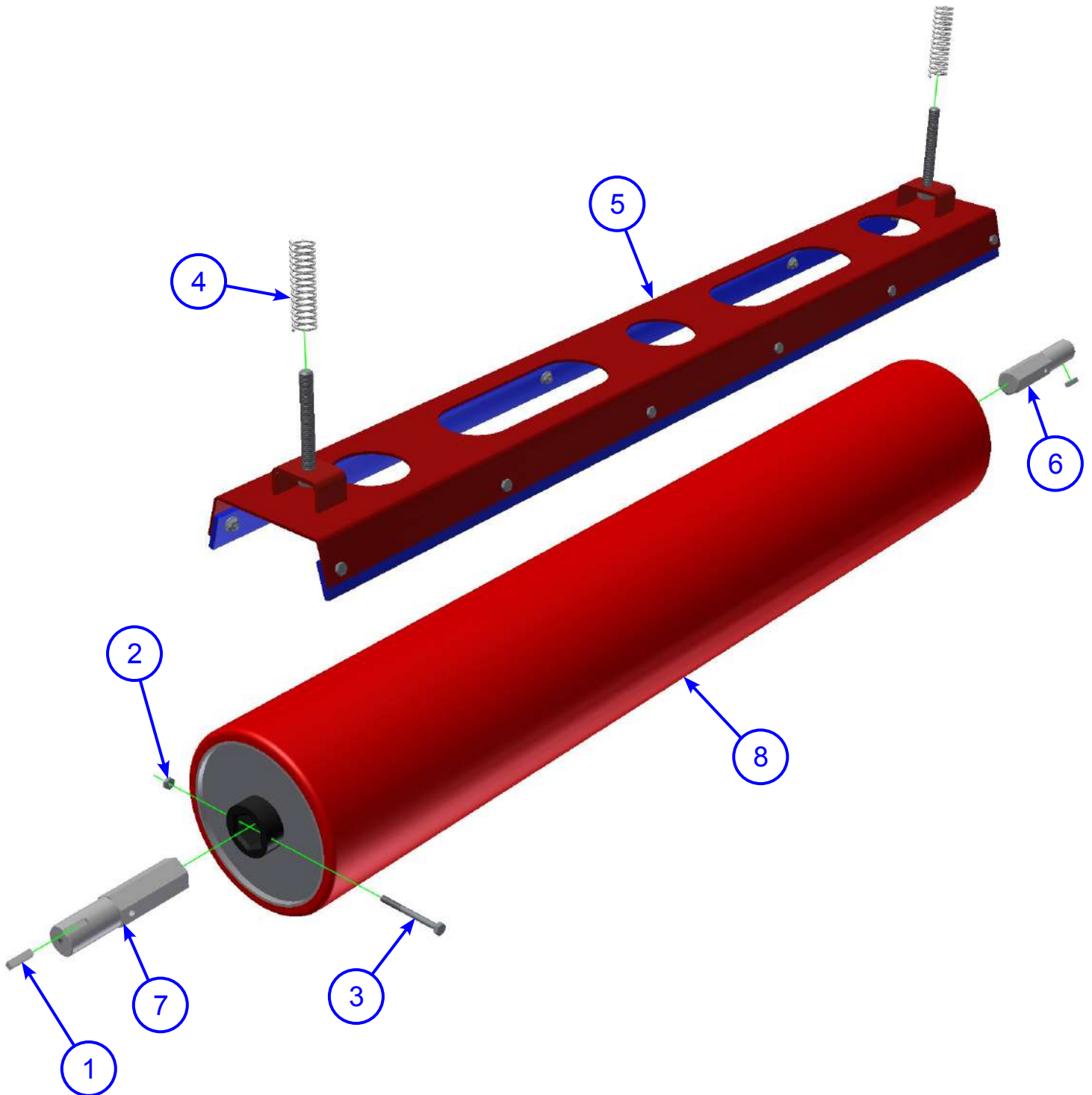
# Drive Tube Frame Assembly Parts List

## SECTION 4 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	010001	FSTN, HHCS 1/4-20 X 1/2 GR 5	6
2	010036	FSTN, HHCS 3/8-16 X 1	8
3	010037	FSTN, HHCS 3/8-16 X 1-1/4 GR 5	3
4	010043	FSTN, HHCS 3/8-16 X 2-3/4	2
5	010083	FSTN, FW 3/8	8
6	010089	FSTN, LW 1/4	2
7	010091	FSTN, LW 3/8	13
8	010098	FSTN, NUT HEX 1/4-20	2
9	010106	FSTN, NUT HEX 1/2-13	2
10	011490	FSTN, FW HARDENED 1/2	6
11	013619	FSTN, HHCS 1/2-13 X 2-1/4 GR8	4
12	019303	LINK MASTER FOR #60 CHAIN 36PA	2
13	020542	FSTN, NUT STOVER LOCK 1/4-20	4
14	029222	IDLE END BEARING	2
15	036881	LIGHT, PREP F/ RIDING TROWELS	2
16	037798	FSTN, HHCS 1/2-13 X 1 1/2 GR8	8
17	038508	FSTN, HHCS 1/2-13 X 1 1/4 GR 8	8
18	040741	FSTN, LW 1" GR8 YLW ZINC	2
19	044035	FSTN, HHCS 1/2-13 X 1-3/4 GR 5	4
20	044126	FSTN, HHCS 1"-8 x 2 1/2 Gr. 8	1
21	045019	FSTN, NUT 1"-8 HEX GR 8	2
22	046277	CHAIN, #60 SERIES (10' BOX)	1
23	055033	FSTN, HHCS 1"-8 X 2" LONG GR8 YELLOW ZINC	1
24	055034	FSTN, FW 1" GR 8 YELLOW ZINC	2
25	055039	FSTN, LW 1/2 GR8 YELLOW ZINC	24
26	055040	FSTN, NUT HEX 1/2-13 GR8 YELLOW ZINC	12
27	057017	BRACKET LH REAR END FRAME SCRAPER BRACKET	2
28	057038	SPACER. SPROCKET FOR HD MOTOR RS800	1
29	057039	SPACER. SPROCKET FOR REAR DRIVE SPROCKET	1
30	057120	END HANDLE, LH END PR2440 PAVER	1
	057166	END HANDLE, RH END PR2440 PAVER	1
31	057128	DRIVE TUBE CHANNEL WELDMEWNT LH FOR PR24400	1
32	057141	COVER, LH DRIVE FRAME	1
33	057155	PIN, PAVING TUBE CONNECTING RS800	1
34	057159	WASHER, SHAFT RETAINING	2
35	057176	RETAINER WASHER FOR DRIVE MOTORS 2440	1
36	057177	SHAFT DRIVE FOR PR2440 DRIVE TUBES	1
37	057187	DRIVE TUBE MOTOR MOUNT BRACKET	1
38	057199	E STOP CONTROL BOX ASSEMBLY RS800	1
39	057276	HYD DRIVE TUBE MOTOR	1
40	057283	MODIFIED SPROCKET, 60 B 1 1/4 X 13 TOOTH HARDEND TEETH	1
41	057529	E-STOP MOUNTING BRACKET FOR RS800	1
42	057537	SPROCKET. #60 B1 1/4 13 TOOTH HARDEND	1
43	057538	SHAFT DRIVE REAR FOR PR2440 DRIVE TUBES	1
44	057539	FSTN, HHCS 1/2-13 X 5 1/2" LONG TAP BOLT	1
45	057545	DRIVE SPROCKET WELDMENT FOR DRIVE TUBE MOTOR	1
46	057746	BRACKET LIGHT, FOR RS800	2
47	057749	RETAINING PIN RS800	1
48	057018	E STOP SWITCH/WITH CONTACT BLOCK (REPLACEMENT)	1
49	057091	DECAL, ROLLER SCREED 1.5" X 16.5"	1

## SECTION 4 PARTS

### Drive Tube Assembly Illustration



## Left Drive Tube Assembly Parts List

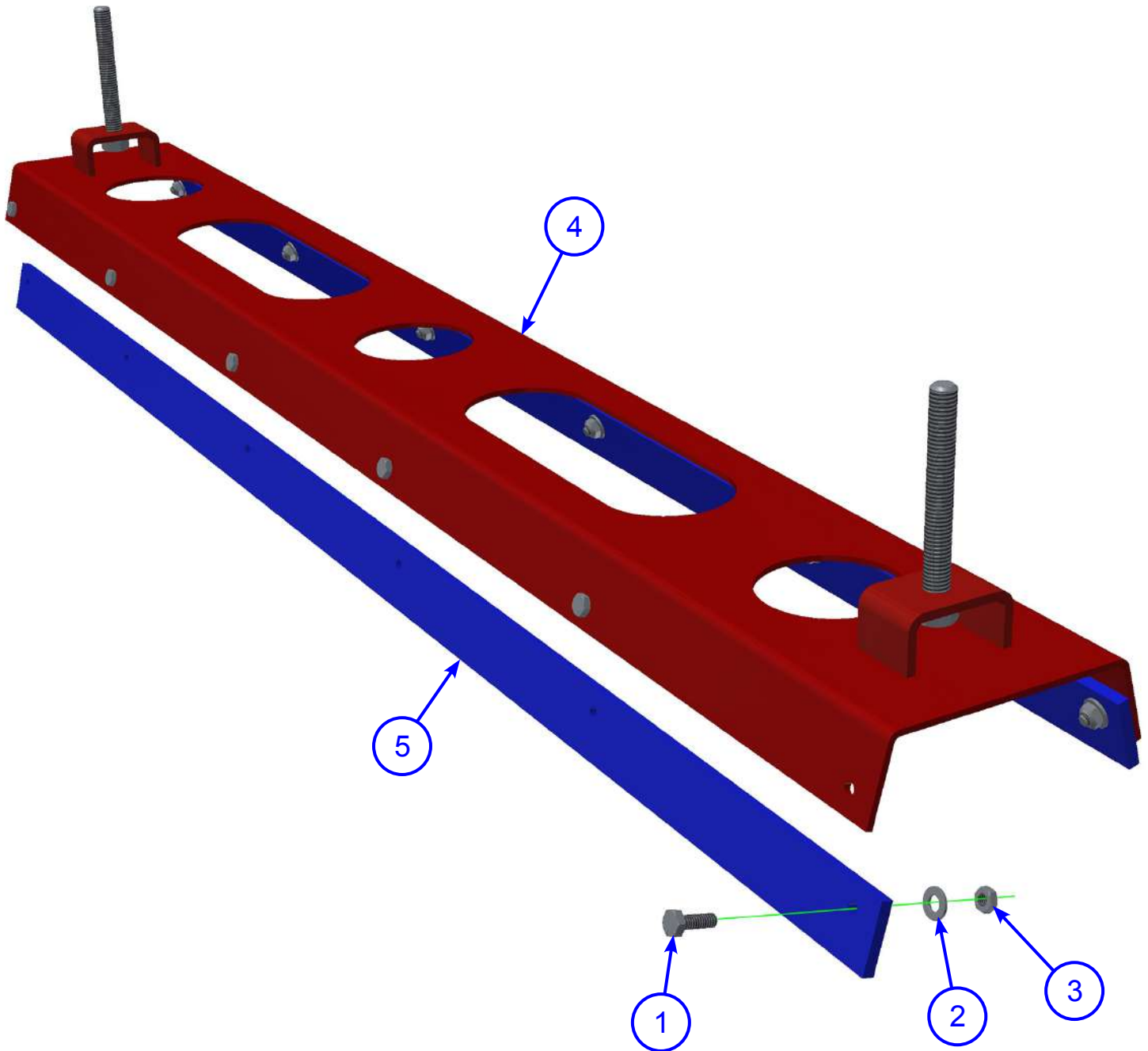
## SECTION 4 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	011791	KEY, 1/4 SQ X 1 LG MACHINE	2
2	020542	FSTN, NUT STOVER LOCK 1/4-20	2
3	033711	FSTN, HHCS 1/2-13 X 4 1/2"	2
4	033936	SPRING, SCRAPER ASSEMBLY TRTP	2
5	057045	SCRAPER ASSEMBLY FOR 5' DRIVE TUBES FOR RS800	1
6	057177	SHAFT DRIVE FOR PR2440 DRIVE TUBES	1
7	057217	SHAFT DRIVE, IDLE END FOR PR2440 DRIVE TUBES	1
8	057241	DRIVE ROLLER TUBE - 8" DIA. POLYURETHANE COATED	1



## SECTION 4 PARTS

### Drive Tube Scraper Assembly Illustration



## Drive Tube Scraper Assembly Parts List

## SECTION 4 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	010002	FSTN, HHCS 1/4-20 X 3/4	12
2	010081	FSTN, FW 1/4	12
3	020542	FSTN, NUT STOVER LOCK 1/4-20	12
4	057030	WELDMENT, 5' SCRAPER	1
5	057032	SCRAPER, TIVAR FOR RS800 SERIES	2

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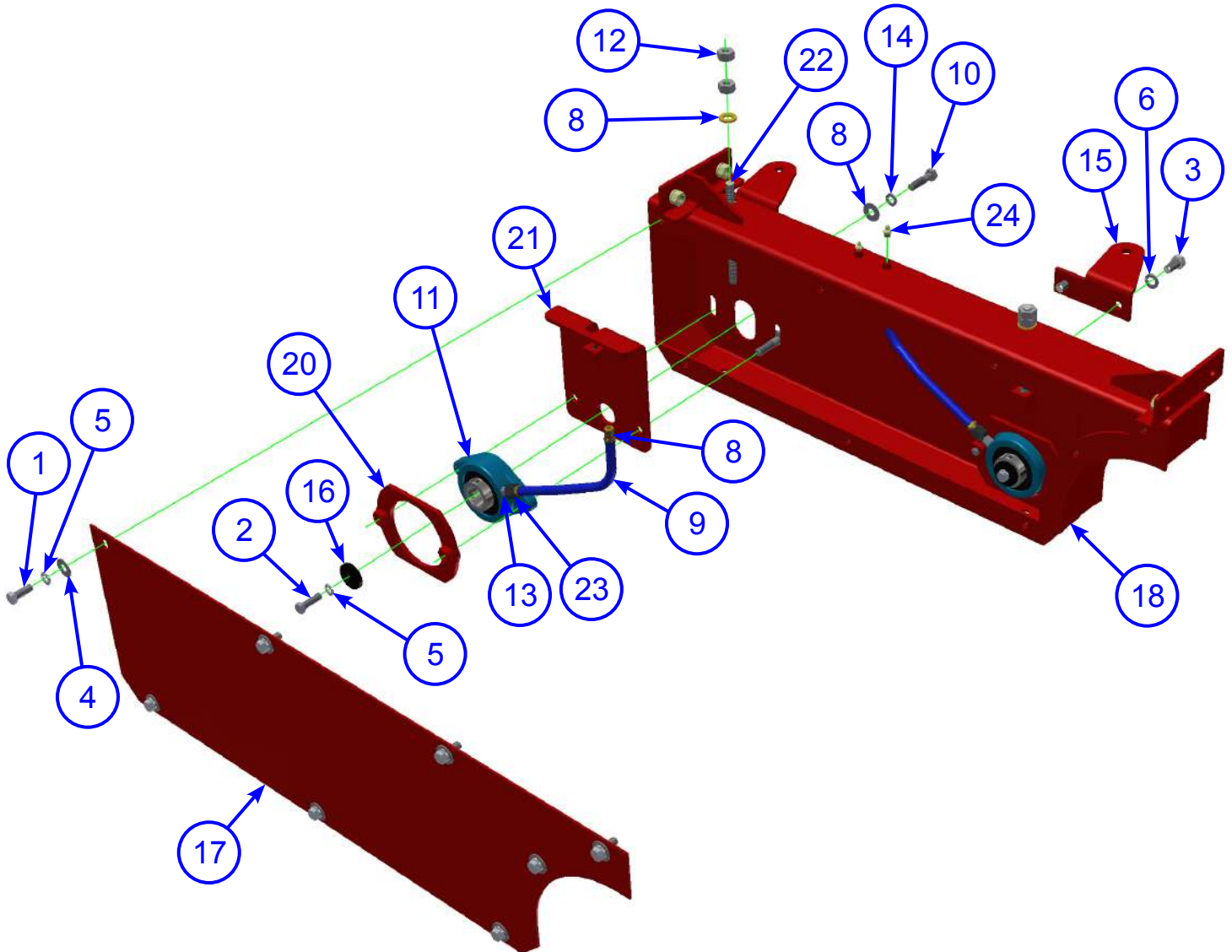


[www.youtube.com/AllenMachinery](http://www.youtube.com/AllenMachinery)



## SECTION 4 PARTS

### Drive Tube Idle Assembly Illustration





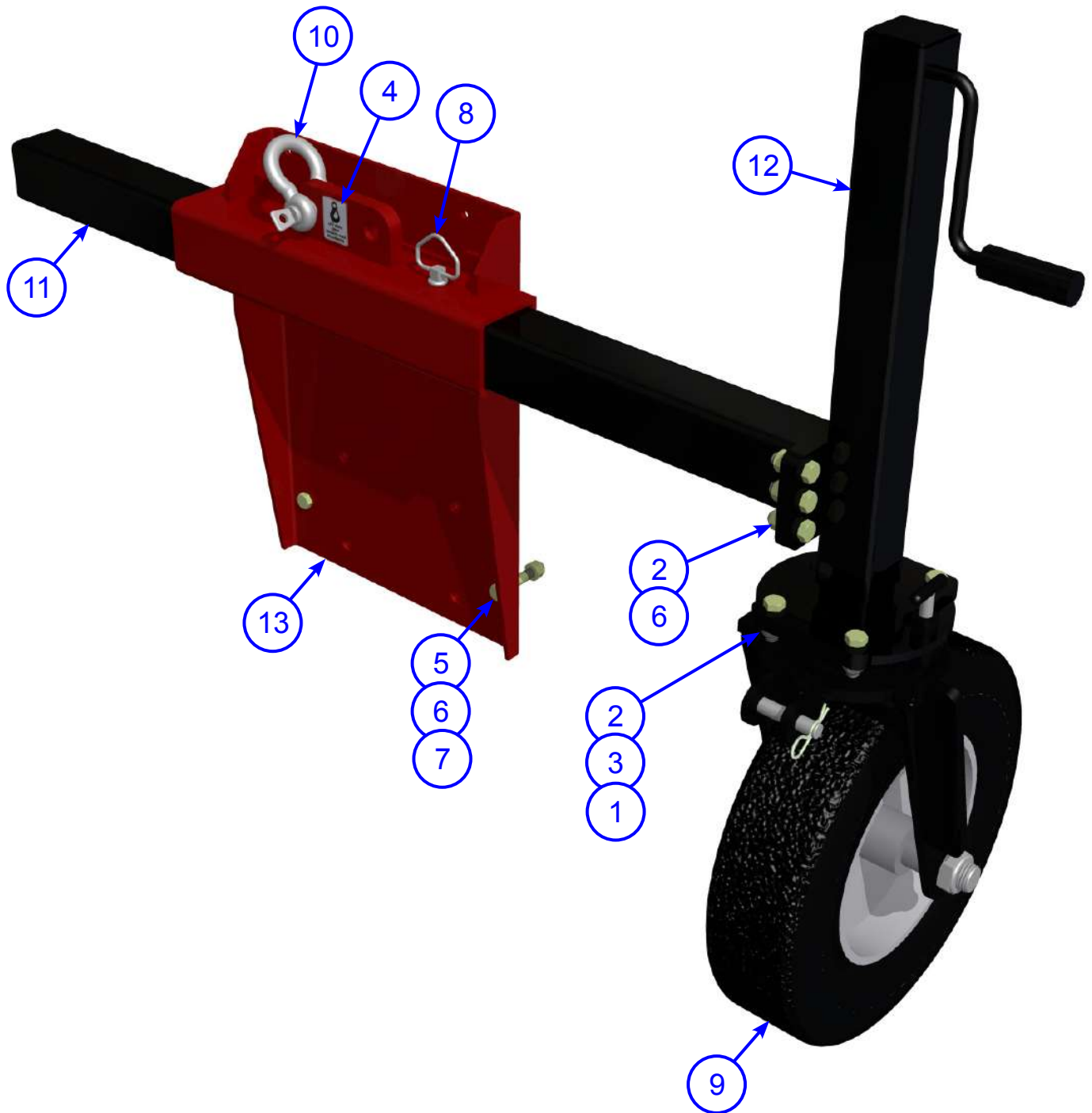
# Drive Tube Idle Assembly Parts List

## SECTION 4 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	010036	FSTN, HHCS 3/8-16 X 1	8
2	010037	FSTN, HHCS 3/8-16 X 1-1/4 GR 5	2
3	010067	FSTN, HHCS 1/2-13 X 1	4
4	010083	FSTN, FW 3/8	8
5	010091	FSTN, LW 3/8	10
6	010093	FSTN, LW 1/2	4
7	010193	FTG, PUSHLOK MALE 1/4 X 1/4-18	4
8	011490	FSTN, FW HARDENED 1/2	8
9	013391	HOSE, PYTHON BLUE 1/4"	2'
10	013619	FSTN, HHCS 1/2-13 X 2-1/4 GR8	4
11	033768	BEARING, SCJT 1 1/4 2BOLT FLNG	2
12	050433	FSTN, ACME 1/2-10 HEX NUT	4
13	050449	GREASE FITTING ADAPTER 1/4-28 STRAIGHT	2
14	055039	FSTN, LW 1/2 GR8 YELLOW ZINC	4
15	057047	BRACKET, LH SCRAPER IDLE END MNT RS800	2
16	057159	WASHER, SHAFT RETAINING	2
17	057162	COVER, IDLE END F/ DRIVE TUBES FOR RS800	1
18	057165	FRAME, LH IDLE END F/ DRIVE TUBES	1
	057181	FRAME, RH IDLE END F/ DRIVE TUBES	1
19	057217	SHAFT DRIVE, IDLE END	2
20	057549	BEARING BACKING PLATE FOR PR2440	2
21	057603	ADJUSTMENT PLATE	2
22	057604	ADJUSTMENT BOLT	2
23	111001	FITTING, FATIGUE VIBRATOR	4
24	201163	FITTING, 1/8-27 PTF STR GREASE	2

## SECTION 4 PARTS

## Manual Jack Assembly Illustration



## Manual Jack Assembly Parts List

## SECTION 4 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	011490	FSTN, FW HARDENED 1/2	4
2	037798	FSTN, HHCS 1/2-13 X 1 1/2 GR8	10
3	040208	FSTN, 1/2-13 STOVER NUT	4
4	053448	DECAL, LIFT HERE ONLY (SP)	1
5	055039	FSTN, LW 1/2 GR8 YELLOW ZINC	8
6	055040	FSTN, NUT HEX 1/2-13 GR8 YELLOW ZINC	8
7	055310	FSTN, HHCS 1/2-13 X 3 GR. 8 YELLO ZINC	2
8	057253	HITCH PIN, 1/2 X 4" USABLE LENGTH TETHERD	1
9	057681	ASSEMBLY, 18" WHEEL & YOKE F/ PNEUMATIC	1
10	057688	SHACKLE, G-209A 5 TON CAPACITY	1
11	057727	SLIDE TUBE DOE DOLLY JAC TS800	1
12	057730	JACK, 2 1/2" SQ. SIDE WIND 8000 LBS	1
13	057865	FRONT DOLLY RECEIVER MOUNT FOR PNEUMATIC TIRE DOLLY JACK	1

## OUR MISSION STATEMENT

Our Mission is to provide superior quality products (manufactured in a safe and efficient environment by highly trained and dedicated personnel), on-time deliveries, and reactive & knowledgeable customer service.

## OUR QUALITY POLICY

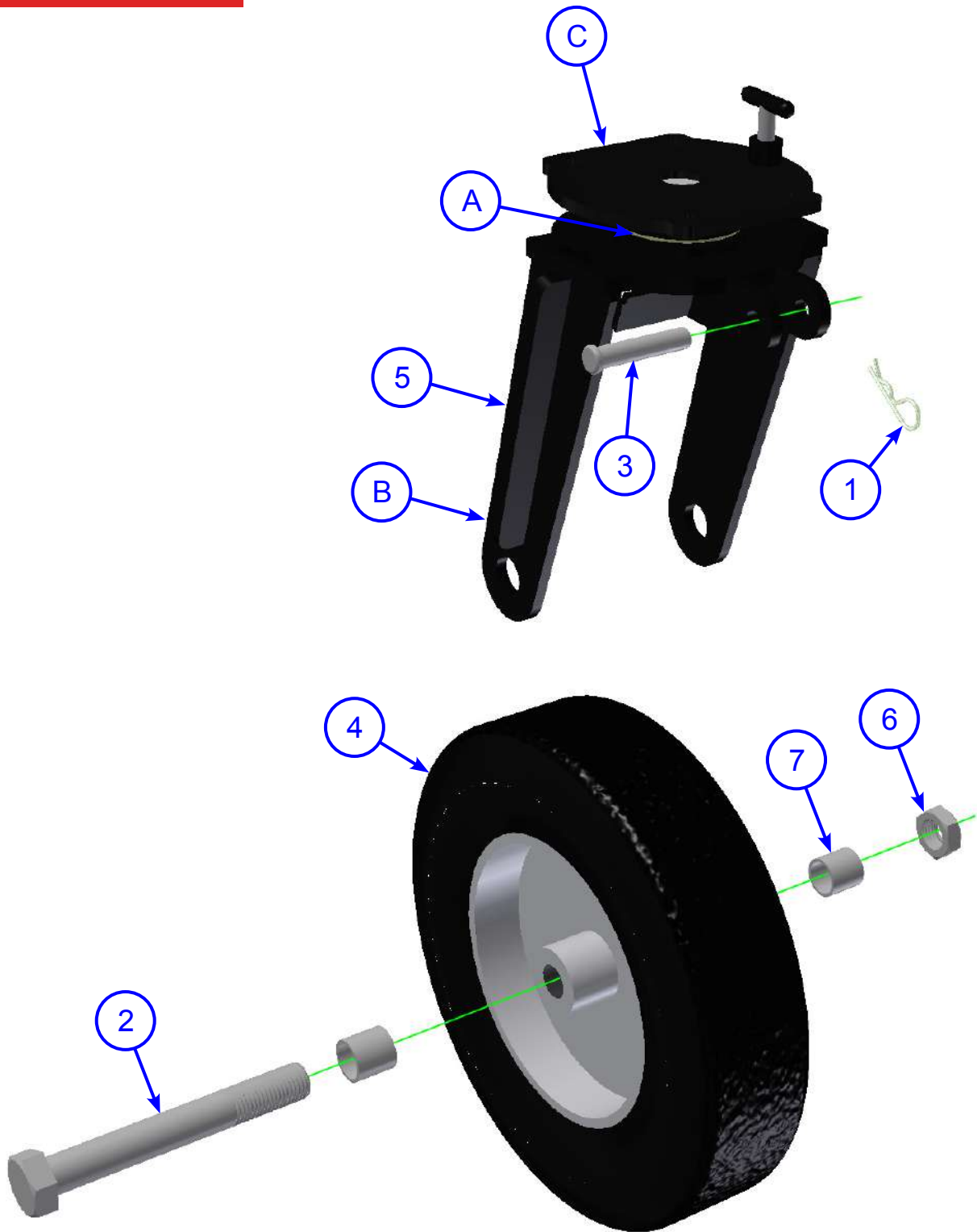
The Allen Engineering Team is fully committed to exceeding customer expectations for the quality of the products and services provided through the continuous improvement process of reducing waste, defects, and variability in everything we do.

## OUR VISION

Our Vision is to be a world-class manufacturer of concrete placing and finishing equipment.

## SECTION 4 PARTS

### Manual Jack Assembly (cont'd) Illustration



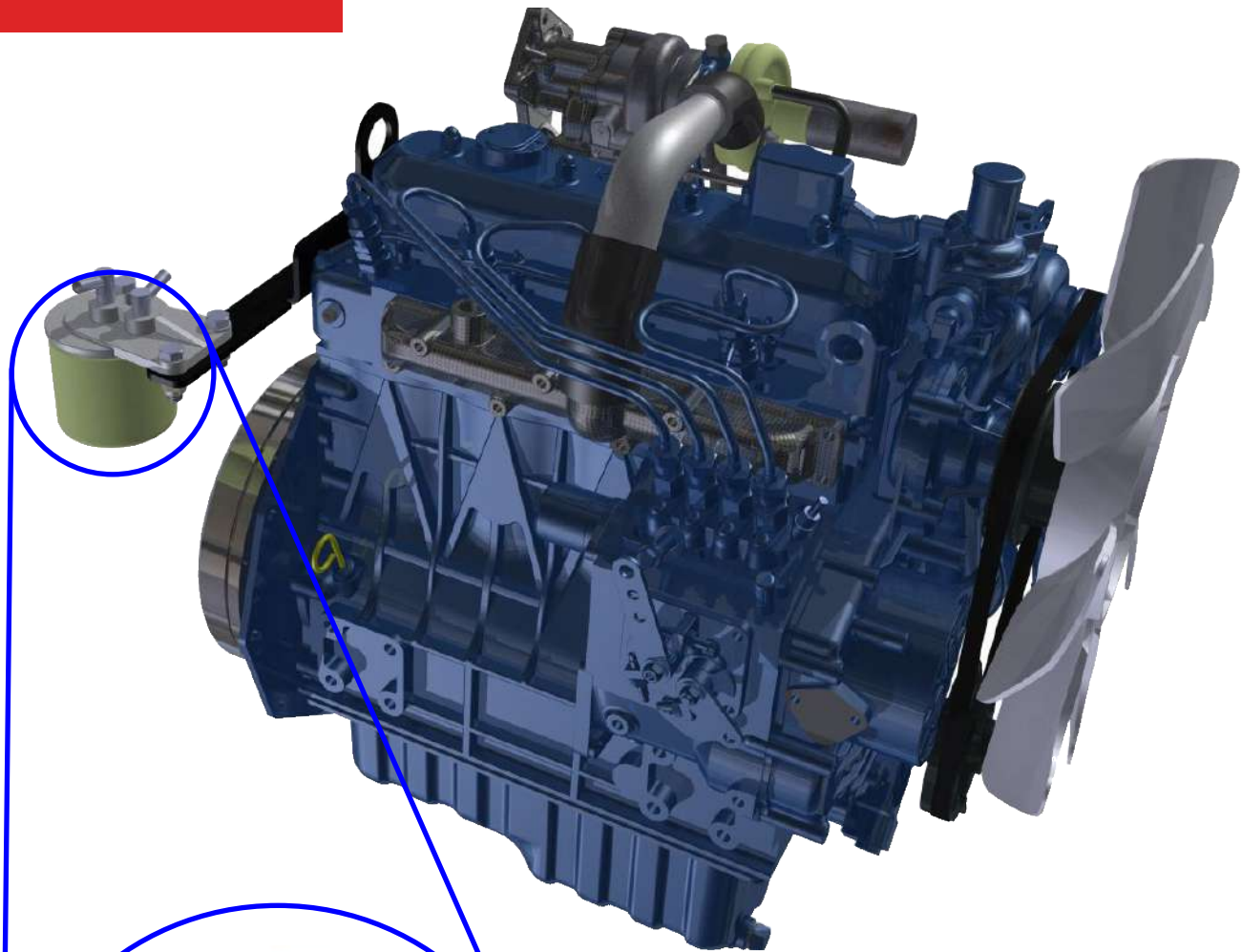
# Manual Jack Assembly (cont'd) Parts List

## SECTION 4 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
-	057681	ASSEMBLY, 18" WHEEL & YOKE F/ PNEUMATIC	
1	051629	COTTERS, HAIRPIN	1
2	057675	FSTN, HHCS 1 1/4-7 X 9" LONG GR8	1
3	057679	CLEVIS PIN 5/8 X 3" LONG ZINC PLATED	1
4	057868	WHEEL AND TIRE ASSEMBLY 16" 2000 LB CAPACITY 1 1/4" BORE HUB	1
5	057880	YOKE, ASSEMBLY FOR PNEUMATIC WHEEL	1
	A 049697	BEARING, BALL THRUST EW2 - HDX740	1
	B 057874	BOTTOM FORK WELDMENT, FOR PNEUMATIC	1
	C 057879	TOP CASTER BEARING HUB WELDMENT	1
	D 057881	FSTN, THIN NYLON LOCK NUT 1 1/4-7	1
6	057881	FSTN, THIN NYLON LOCK NUT 1-1/4-7	1
7	057889	TUBE, SPACER FOR YOKE WELDMENT	2

## SECTION 4 PARTS

### Fuel Filter Replacement

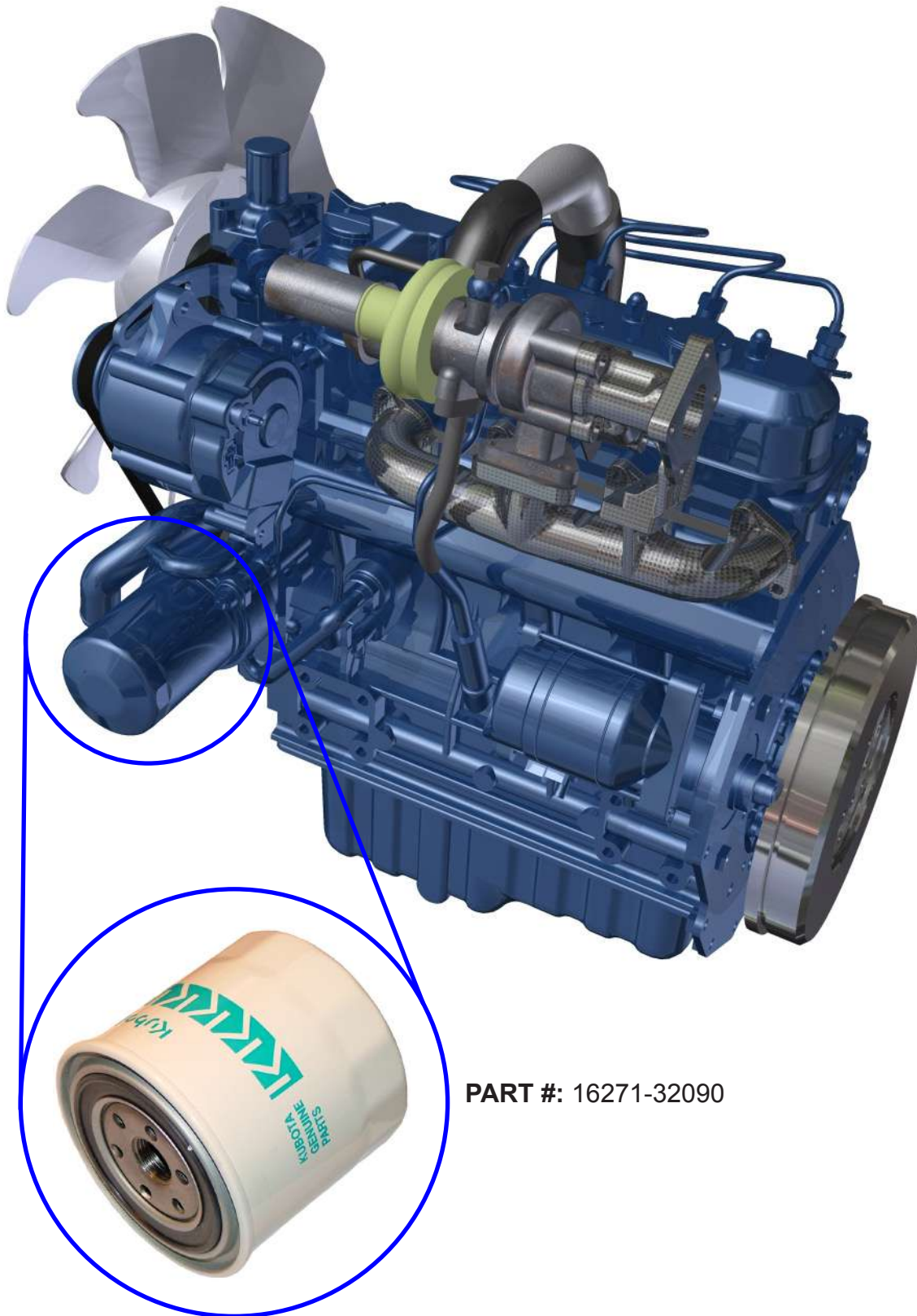


**PART #:** 70000-43081



**PART #:** 043920

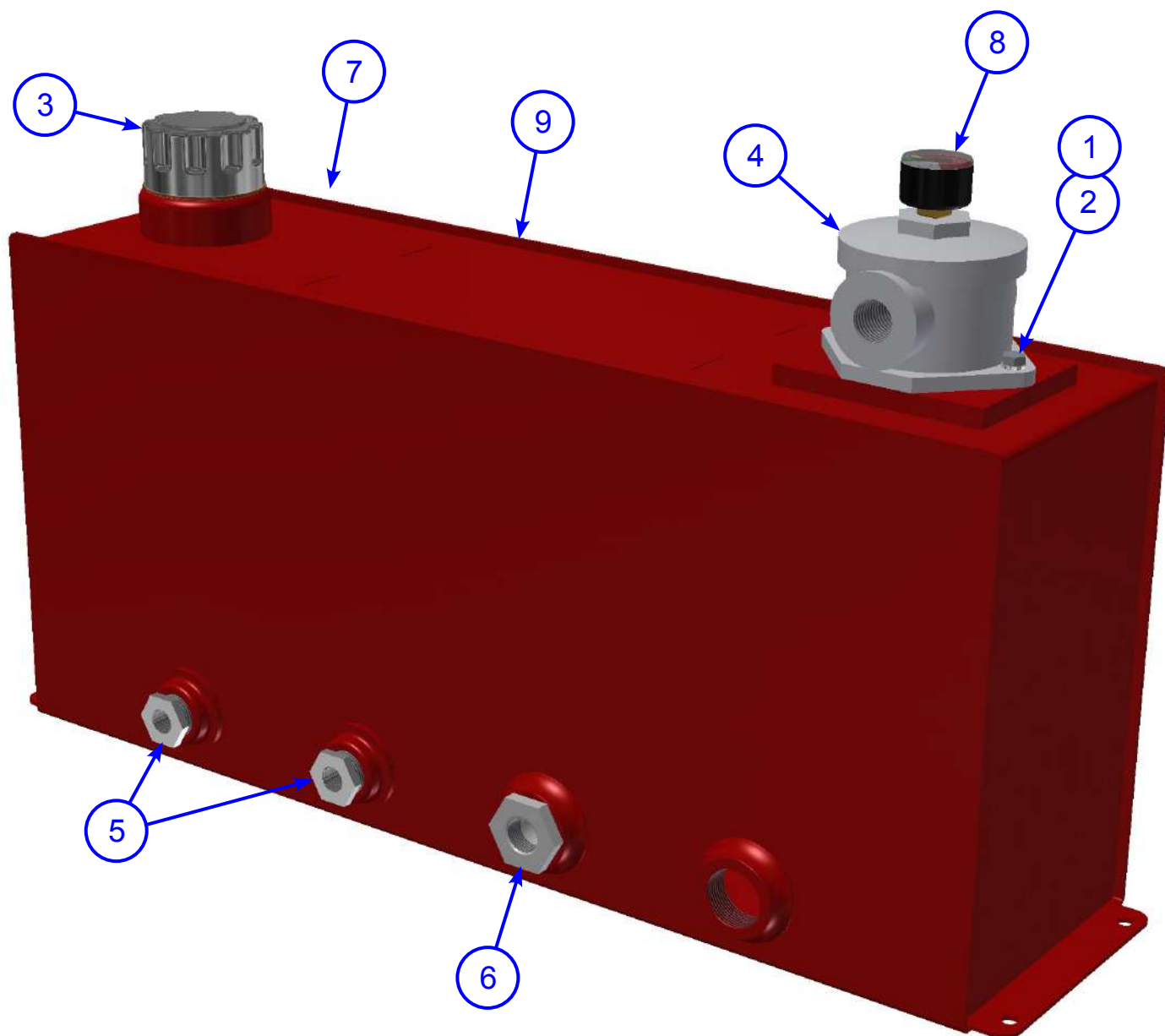




**PART #:** 16271-32090

## SECTION 4 PARTS

### Hydraulic Tank Assembly Illustration (057220)





## Hydraulic Tank Assembly Parts List (057220)

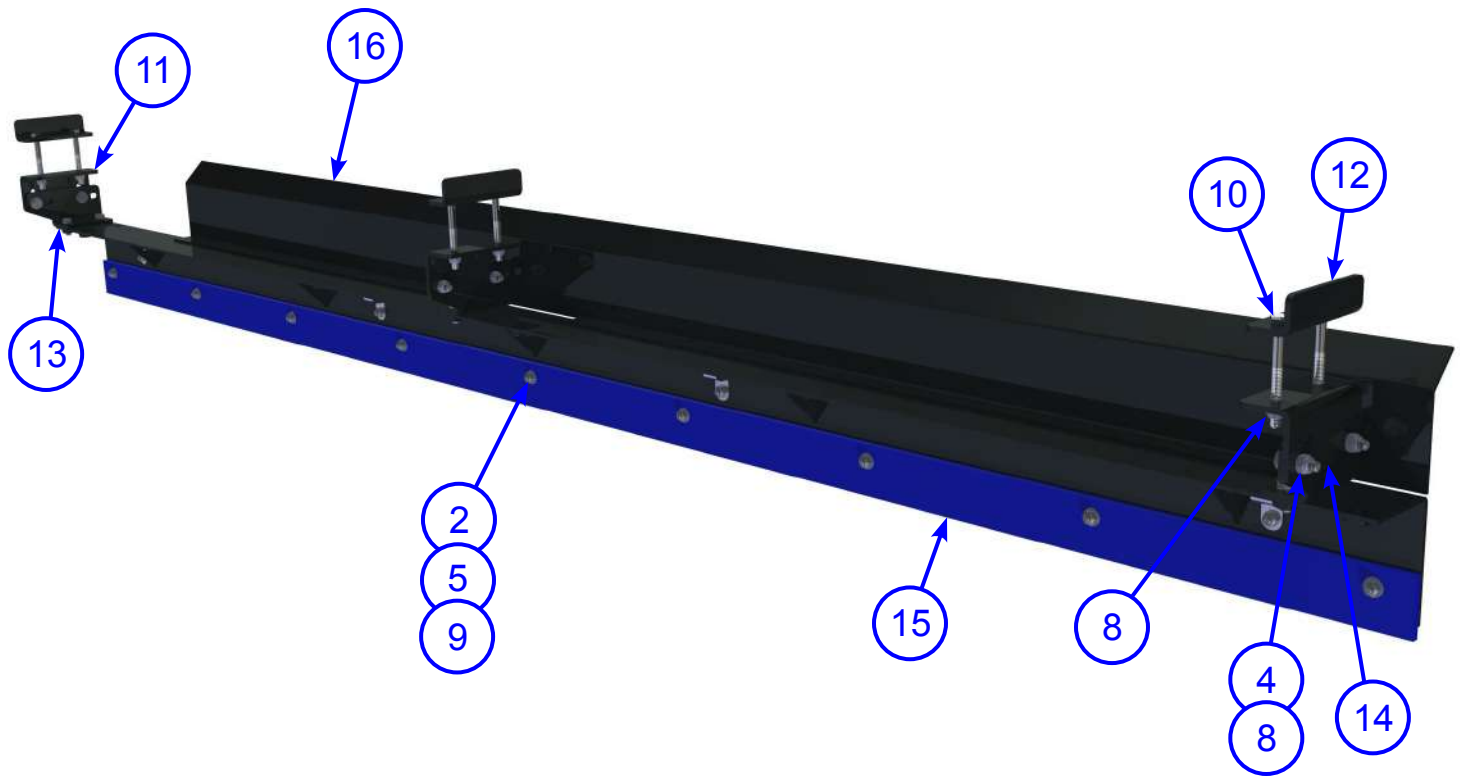
## SECTION 4 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
-	001002-2	HYDRAULIC OIL, AW32	12 Gal.
1	010019	FSTN, HHCS 5/16-18 X 3/4 GR 5	2
2	010090	FSTN, LW 5/16	2
3	032268	UNIT, CHROME LOCKABLE GAS-HYDRA TANK CAP	1
4	038949	FILTER, RETURN LINE	1
5	040072	STRAINER, SMALL HYD. TMF-05-5 TANK (TRTP)	2
6	040073	STRAINER, LARGE HYD. TANK (TRTP)	1
7	042844	GAUGE, SNA HYDR LEVEL	1
8	046241	GAUGE, CL-20 FILTER	1
9	057206	TANK, HYDRAULIC FOR RS800	1



## SECTION 4 PARTS

### Paving Tube Scraper Assembly Illustration



#### NOTE

Left Hand Shown

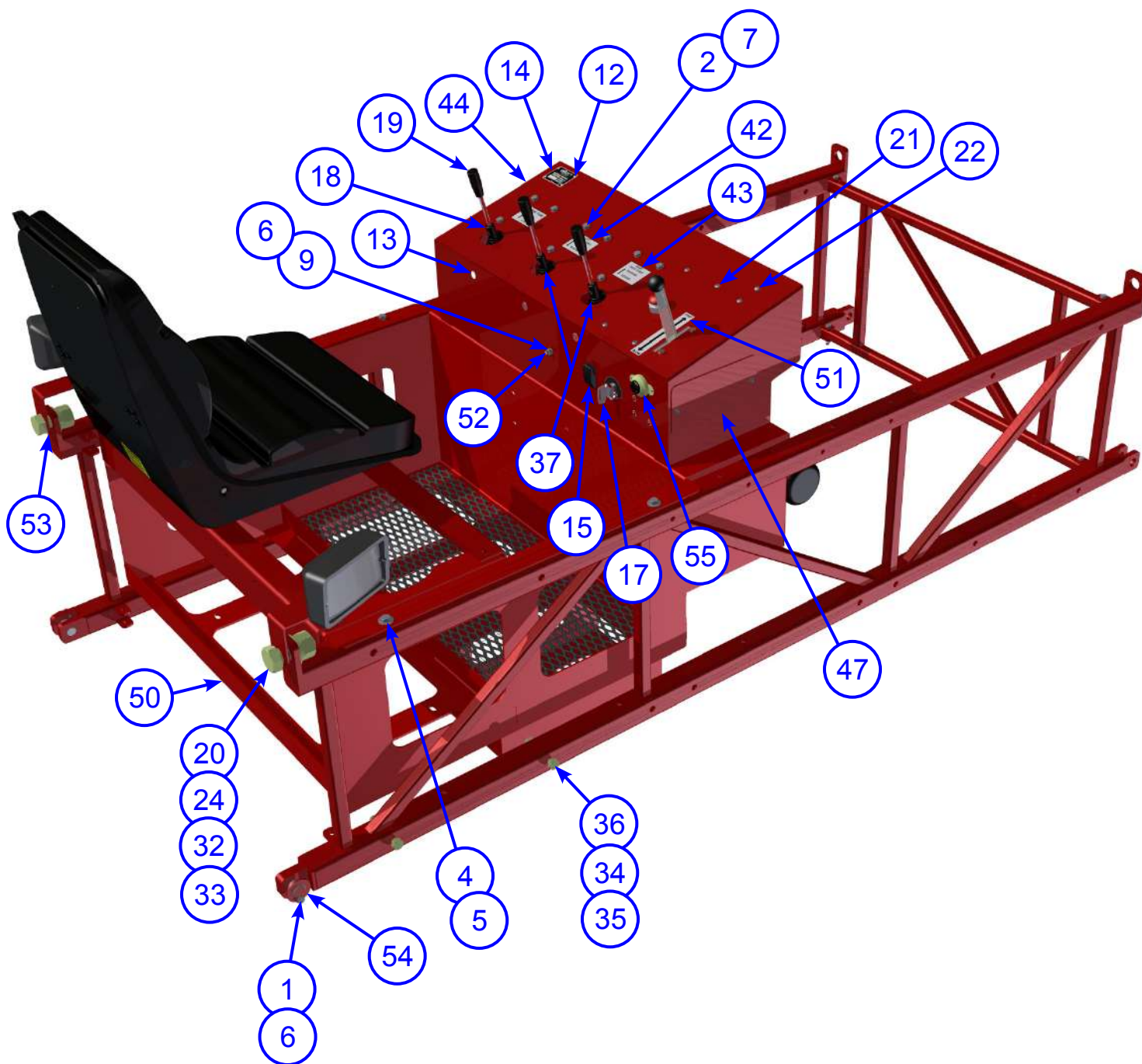
# Paving Tube Scraper Assembly Parts List

## SECTION 4 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
2	010002	FSTN, HHCS 1/4-20 X 3/4	9
3	010019	FSTN, HHCS 5/16-18 X 3/4 GR 5	6
4	010020	SCR, 5/16-18x1 HHC	6
5	010081	FSTN, FW 1/4	9
6	010082	FSTN, FW 5/16	6
7	010090	FSTN, LW 5/16	6
8	012612	FSTN, NUT HEX NYLOCK 5/16-18	12
10	039082	FSTN, HHCS 5/16-18 X 3" GR 5	6
11	057306	BRACKET , SCRAPER MIDDLE RS800 SERIES FRONT PAVING TUBE	3
12	057307	BRACKET, TOP CONNECTING FOR RS800 FRONT PAVING TUBE SCRAPER	3
13	057308	BRACKET, LH BOTTOM FOR RS800 SERIES FRONT TUBE SCRAPER	1
14	057309	BRACKET, RH BOTTOM FOR RS800 SERIES FRONT TUBE SCRAPER	2
15	057311	TIVAR, 7' END FRONT PAVING TUBE SCRAPER RS800 SERIES	1
16	057334	7' LH SCRAPER FOR AUGER BOX FOR RS844	1
-	057331	7' RH SCRAPER FOR AUGER BOX FOR RS844	

## SECTION 4 PARTS

### Operator Control Panel Assembly Illustration



# Operator Control Panel Assembly Parts List

## SECTION 4 PARTS

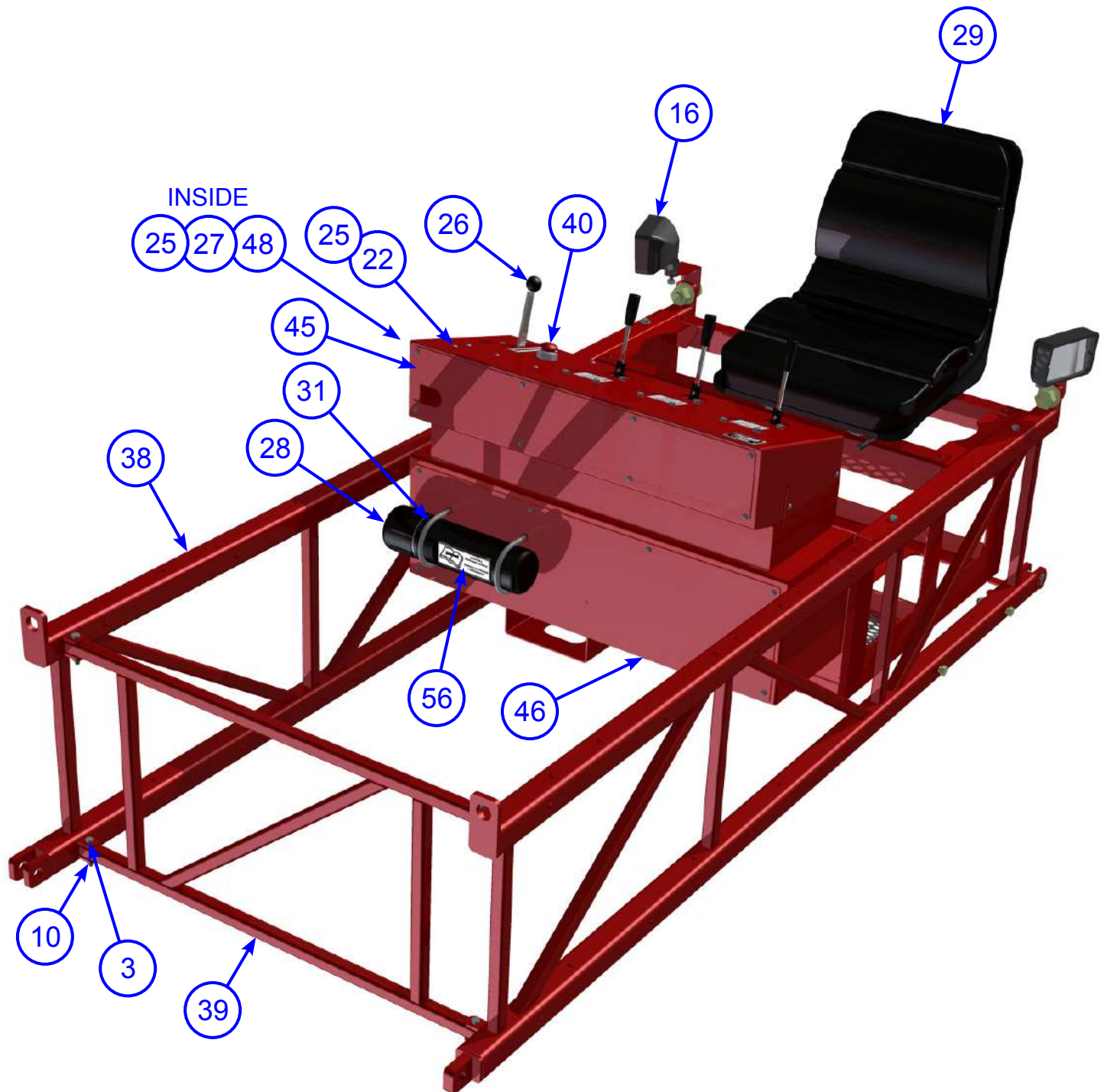
ITEM	PART NO.	DESCRIPTION	QTY
1	010002	FSTN, HHCS 1/4-20 X 3/4	4
2	010019	FSTN, HHCS 5/16-18 X 3/4 GR 5	9
3	010024	FSTN, HHCS 5/16-18 X 2 GR 5	4
4	010043	FSTN, HHCS 3/8-16 X 2-3/4	4
5	010083	FSTN, FW 3/8	2
6	010089	FSTN, LW 1/4	5
7	010090	FSTN, LW 5/16	13
8	010091	FSTN, LW 3/8	4
9	010098	FSTN, NUT HEX 1/4-20	3
10	010100	FSTN, NUT HEX 5/16-18	4
11	010102	FSTN, NUT HEX 3/8-16	8
12	012994	RIVET, 1/8x3/8 ALUM DOME HD	4
13	026462	PLUG, Ø1/2 ID NICKEL PLT FNSH	3
14	032097	DECAL, SERIAL NUMBER PLATE	1
15	032125	SWITCH, ROCKER #91B2184	1
16	036881	LIGHT, PREP F/ RIDING TROWELS	2
17	037785	SWITCH, IGNITION	1
18	040058	VALVE, STACK	1
19	040074	HANDLE, F/ VALVE - TRTP	3
20	040741	FSTN, LW 1" GR8 YLW ZINC	2
21	042342	FSTN, SFBHCS 1/4"-20 x 3/4	22
22	042343	FSTN, SFBHCS 1/4"-20 x 3/4	2
23	044126	FSTN, HHCS 1"-8 x 2 1/2 Gr. 8	1
24	045019	FSTN, NUT 1"-8 HEX GR 8	2
25	047546	PAL NUT- 1/4-20	2
26	047643	LOCKING CONTROL, QUADRATAT	1
27	048601	BRACKET, THROTTLE CABLE X1	1
28	048665	TUBE, MANUAL PACK PLASTIC 9000-14	1
29	049060	SEAT	1
30	050239	FSTN, SPLIT LOCK NUT 3/8-16 GR 5	4
31	053189	U-BOLT, 3 1/2" X 3/8-16	2
32	055033	FSTN, HHCS 1"-8 X 2" LONG GR8 YELLOW ZINC	1
33	055034	FSTN, FW 1" GR 8 YELLOW ZINC	2
34	055039	FSTN, LW 1/2 GR8 YELLOW ZINC	4
35	055040	FSTN, NUT HEX 1/2-13 GR8 YELLOW ZINC	4
36	055310	FSTN, HHCS 1/2-13 X 3 GR. 8 YELLO ZINC	4
37	055685	VALVE, SINGLE STACK HYD	2
38	057014	END FRAME	2
39	057015	CENTER FRAMES	1
40	057018	E-STOP SWITCH ASSEMBLY	1
41	057085	DECAL, PAVING TUBE FORWARD REVERSE	1
42	057086	DECAL, LEFT DRIVE TUBES RS800	1
43	057087	DECAL, RIGHT DRIVE TUBES RS800	1
44	057119	CONTROL PANEL WELDMENT RS800 BASE UNIT	1
45	057196	COVER REAR CONTROL PANEL RS800 BASE UNIT	1
46	057197	COVER, BOTTOM OPERATOR CONTROL PLATFORM RS800	1
47	057198	PLATE, CONNECTING FOR HINGE PLATE FOR HOOD RS800	2
48	057203	COVER, FOR E STOP SWITCH	1
49	057233	SEAT MOUNTING BRACKET RS844	1
50	057235	WELDMENT, FRAME FOR SEAT MODULE	1
51	057389	DECAL, SLOW/FAST WITH ARROW	1
52	057680	HORN, 12 VDC WOLO HIGH TONE	1
53	057746	BRACKET LIGHT, FOR RS800	2
54	057749	RETAINING PIN RS800	2
55	058644	SWITCH, HORN PUSH BUTTOON	1

## SECTION 4 PARTS

### Operator Control Panel Assembly (cont'd) Illustration

## SECTION 4 PARTS

### Operator Control Panel Assembly (cont'd) Illustration





# Operator Control Panel Assembly (cont'd)

## Parts List

## SECTION 4

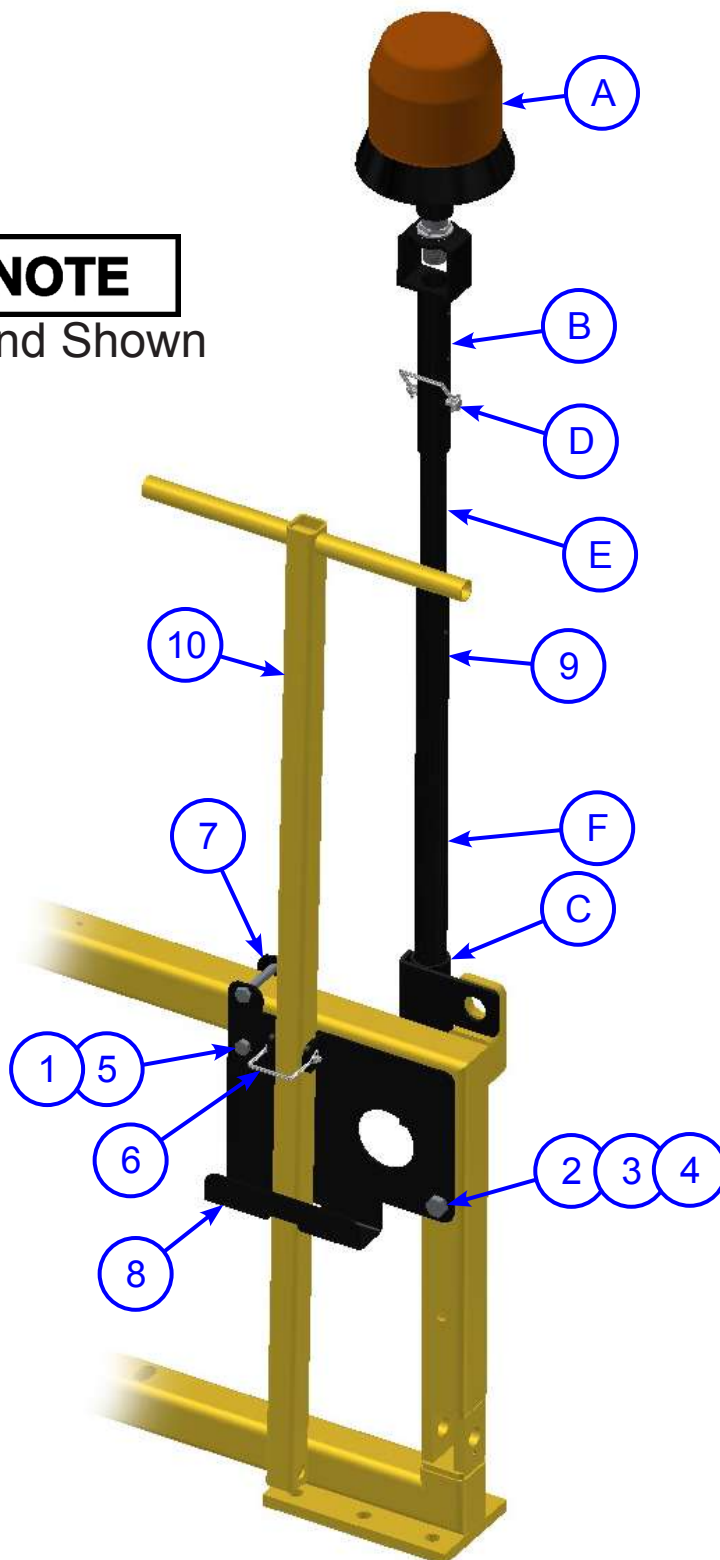
### PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	010002	FSTN, HHCS 1/4-20 X 3/4	4
2	010019	FSTN, HHCS 5/16-18 X 3/4 GR 5	9
3	010024	FSTN, HHCS 5/16-18 X 2 GR 5	4
4	010043	FSTN, HHCS 3/8-16 X 2-3/4	4
5	010083	FSTN, FW 3/8	2
6	010089	FSTN, LW 1/4	5
7	010090	FSTN, LW 5/16	13
8	010091	FSTN, LW 3/8	4
9	010098	FSTN, NUT HEX 1/4-20	3
10	010100	FSTN, NUT HEX 5/16-18	4
11	010102	FSTN, NUT HEX 3/8-16	8
12	012994	RIVET, 1/8x3/8 ALUM DOME HD	4
13	026462	PLUG, Ø1/2 ID NICKEL PLT FNSH	3
14	032097	DECAL, SERIAL NUMBER PLATE	1
15	032125	SWITCH, ROCKER #91B2184	1
16	036881	LIGHT, PREP F/ RIDING TROWELS	2
17	037785	SWITCH, IGNITION	1
18	040058	VALVE, STACK	1
19	040074	HANDLE, F/ VALVE - TRTP	3
20	040741	FSTN, LW 1" GR8 YLW ZINC	2
21	042342	FSTN, SFBHCS 1/4"-20 x 3/4	22
22	042343	FSTN, SFBHCS 1/4"-20 x 3/4	2
23	044126	FSTN, HHCS 1"-8 x 2 1/2 Gr. 8	1
24	045019	FSTN, NUT 1"-8 HEX GR 8	2
25	047546	PAL NUT- 1/4-20	2
26	047643	LOCKING CONTROL, QUADRATAT	1
27	048601	BRACKET, THROTTLE CABLE X1	1
28	048665	TUBE, MANUAL PACK PLASTIC 9000-14	1
29	049060	SEAT	1
30	050239	FSTN, SPLIT LOCK NUT 3/8-16 GR 5	4
31	053189	U-BOLT, 3 1/2" X 3/8-16	2
32	055033	FSTN, HHCS 1"-8 X 2" LONG GR8 YELLOW ZINC	1
33	055034	FSTN, FW 1" GR 8 YELLOW ZINC	2
34	055039	FSTN, LW 1/2 GR8 YELLOW ZINC	4
35	055040	FSTN, NUT HEX 1/2-13 GR8 YELLOW ZINC	4
36	055310	FSTN, HHCS 1/2-13 X 3 GR. 8 YELLO ZINC	4
37	055685	VALVE, SINGLE STACK HYD	2
38	057014	END FRAME	2
39	057015	CENTER FRAMES	1
40	057018	E-STOP SWITCH ASSEMBLY	1
41	057085	DECAL, PAVING TUBE FORWARD REVERSE	1
42	057086	DECAL, LEFT DRIVE TUBES RS800	1
43	057087	DECAL, RIGHT DRIVE TUBES RS800	1
44	057119	CONTROL PANEL WELDMENT RS800 BASE UNIT	1
45	057196	COVER REAR CONTROL PANEL RS800 BASE UNIT	1
46	057197	COVER, BOTTOM OPERATOR CONTROL PLATFORM RS800	1
47	057198	PLATE, CONNECTING FOR HINGE PLATE FOR HOOD RS800	2
48	057203	COVER, FOR E STOP SWITCH	1
49	057233	SEAT MOUNTING BRACKET RS844	1
50	057235	WELDMENT, FRAME FOR SEAT MODULE	1
51	057389	DECAL, SLOW/FAST WITH ARROW	1
52	057680	HORN, 12 VDC WOLO HIGH TONE	1
53	057746	BRACKET LIGHT, FOR RS800	2
54	057749	RETAINING PIN RS800	2
55	058644	SWITCH, HORN PUSH BUTTOON	1
56	053454	DECAL, MANUALS (SP)	1

## SECTION 4 PARTS

### Strobe Light and Puller Illustration

**NOTE**  
Left Hand Shown





## Strobe Light and Puller Parts List

## SECTION 4 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	010045	FSTN, HHCS 3/8-16 X 3-1/4	2
2	010076	FSTN, HHCS 1/2-13 X 3 GR 5	1
3	010093	FSTN, LW 1/2	1
4	010106	FSTN, NUT HEX 1/2-13	1
5	020514	FSTN, NUT STOVER LOCK 3/8-16	2
6	035372	1/4 X 2 Quick Pin	1
7	057264	PLATE, CONNECTING FOR HINGE PLATE FOR HOOD RS800	1
8	057373	LH STEERING FORK KEEPER RS800	1
-	057374	RH STEERING FORK KEEPER RS800	1
9	057640	ASSY, STROBE LIGHT MAST FOR 2440	1
	A 052955	STROBE, AMBER 12 VOLT DC	1
	B 057532	MAST FOR STROBE LIGHT	1
	C 057533	RECEIVER MNT FOR STROBE LIGHT	1
	D 057642	QUICK RELEASE CONNECTION PIN	1
	E 057660	TUBE, STROBE MAST	1
	F 058664	TELESCOPIC TUBE FOR STROBE MAST	1
10	057676	STEERING HANDLE FOR RS800 DOLLY JACK PNEUMATIC WHEELS	1

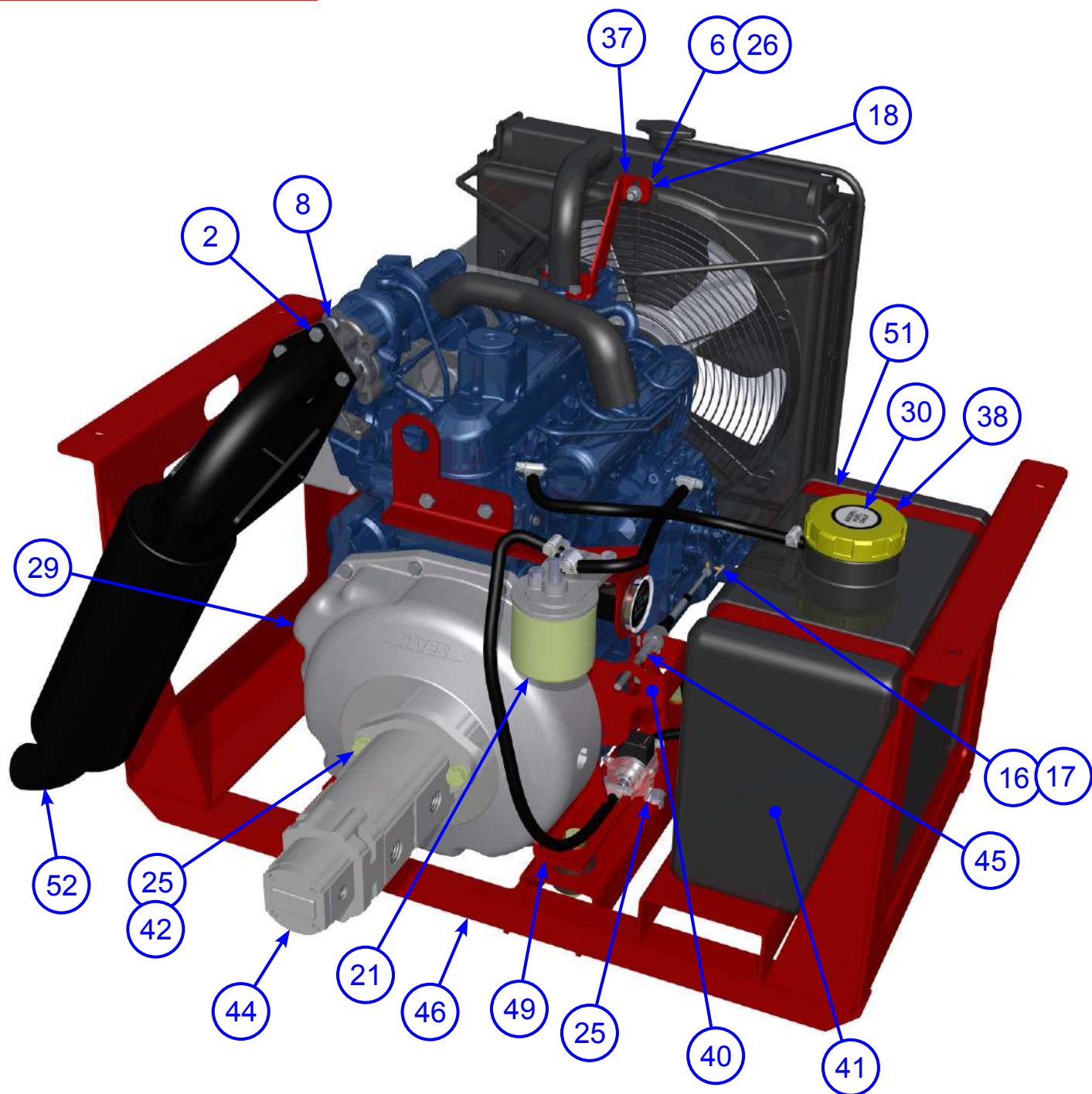


### NOTE

Strobe only on Operator End

## SECTION 4 PARTS

### Power Unit Assembly Illustration (057500)



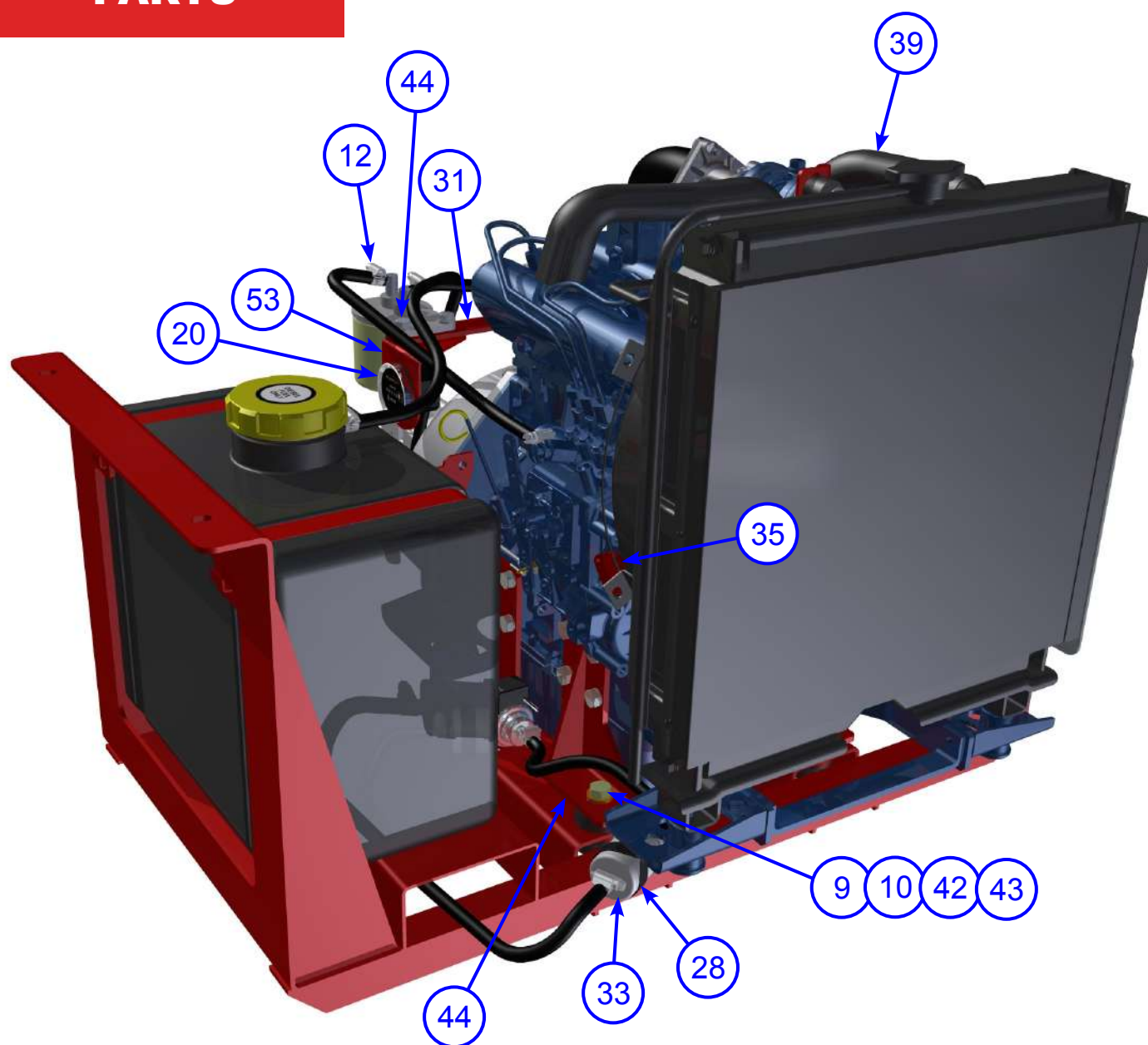
# Power Unit Assembly Parts List (057500)

## SECTION 4 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	010019	FSTN, HHCS 5/16-18 X 3/4 GR 5	2
2	010021	FSTN, HHCS 5/16-18 X 1-1/4 GR5	4
3	010035	FSTN, HHCS 3/8-16 X 3/4	2
4	010036	FSTN, HHCS 3/8-16 X 1	2
5	010081	FSTN, FW 1/4	2
6	010082	FSTN, FW 5/16	2
7	010090	FSTN, LW 5/16	8
8	010100	FSTN, NUT HEX 5/16-18	6
9	011489	BOLT, 1/2-20x 3-1/2 GR 8 HHC	4
10	011490	FSTN, FW HARDENED 1/2	4
11	019429	HOSE, 5/16" FUEL LINE	6.75'
12	019430	FSTN, CLAMP SIZE 4 MINI HOSE	10
13	020514	FSTN, NUT STOVER LOCK 3/8-16	4
14	020542	FSTN, NUT STOVER LOCK 1/4-20	2
15	021072	FSTN, LW 10MM	16
16	024984	PIVOT, THROTTLE CABLE	1
17	026226	PIN, Ø3/32 X 3/4 ZP STL COTTER	1
18	028556	ISOLATOR, 25MM X 20MM "A" BUFFER	1
19	029032	FSTN, LW 8MM	8
20	029824	HOURLMETER, Ø2 OPERATING TIME	1
21	037777	ASSY, FUEL FILTER	1
22	037778	SCR, 10MMx1.25x30 HHC	16
23	037791	OVERFLOW TANK WITH BRACKET	1
24	037820	FSTN, HHCS 8MM X 1.25 X 30MM	8
25	038508	FSTN, HHCS 1/2-13 X 1 1/4 GR 8	2
26	040004	FSTN, 5/16-18 GR-C STOVER HEX NUT	2
27	040330	PUMP, 12 V ELECTRONIC FUEL	1
28	040389	CLIP, SP500 1 3/4" WIRE LOOM	1
29	040905	KIT, HYD PUMP DRIVE ADAPTER HAYES	1
30	041510	DECAL, DIESEL ONLY CAP	1
31	041586	BRACKET, FUEL FILTER KUBOTA ENGINE	1
32	043265	BOLT, FLAT HD, ALLEN, 1/4-20	2
33	043920	FILTER, IN-LINE DIESEL	1
34	046394	COVER, ALTERNATOR	1
35	046441	COVER, FUEL PUMP	1
36	048901	MOUNT, 250LB MOTOR MSP425	4
37	049028	BRACKET, RAD SUPPORT MSP460	1
38	049036	CAP, 3-1/2" VENTED BLACK	1
39	049859	ENGINE, KUBOTA D1105-T-E3B	1
40	051044	BRACKET, THROTTLE 1105T KUBOTA	1
41	053200	TANK, 6 GALLON W/ CAP (EPA)	1
42	055039	FSTN, LW 1/2 GR8 YELLOW ZINC	6
43	046843	FSTN, NUT HEX 1/2-20 GR8 YELLOW ZINC	4
44	057226	HYD PUMP FOR RS800	1
45	057228	ASSY 155" LG. THROTTLE CABLE	1
46	057501	WELDMENT, ENGINE/TANK CRADLE	1
47	057610	WELDMENT, RH FRONT ENGINE MOUNT RS800	1
48	057611	WELDMENT, LH REAR ENGINE MOUNT RS800	1
49	057612	WELDMENT,RH REAR ENGINE RS800	1
50	057613	WELDMENT, RH REAR ENGINE MOUNT	1
51	057615	WELDMENT, FUEL TANK STRAP	2
52	057645	WELDMENT, MUFFLER	1
53	057861	BRACKET, HOUR METER MOUNT	1

## SECTION 4 PARTS

### Power Unit Assembly (cont'd) Illustration



# Power Unit Assembly (cont'd) Parts List

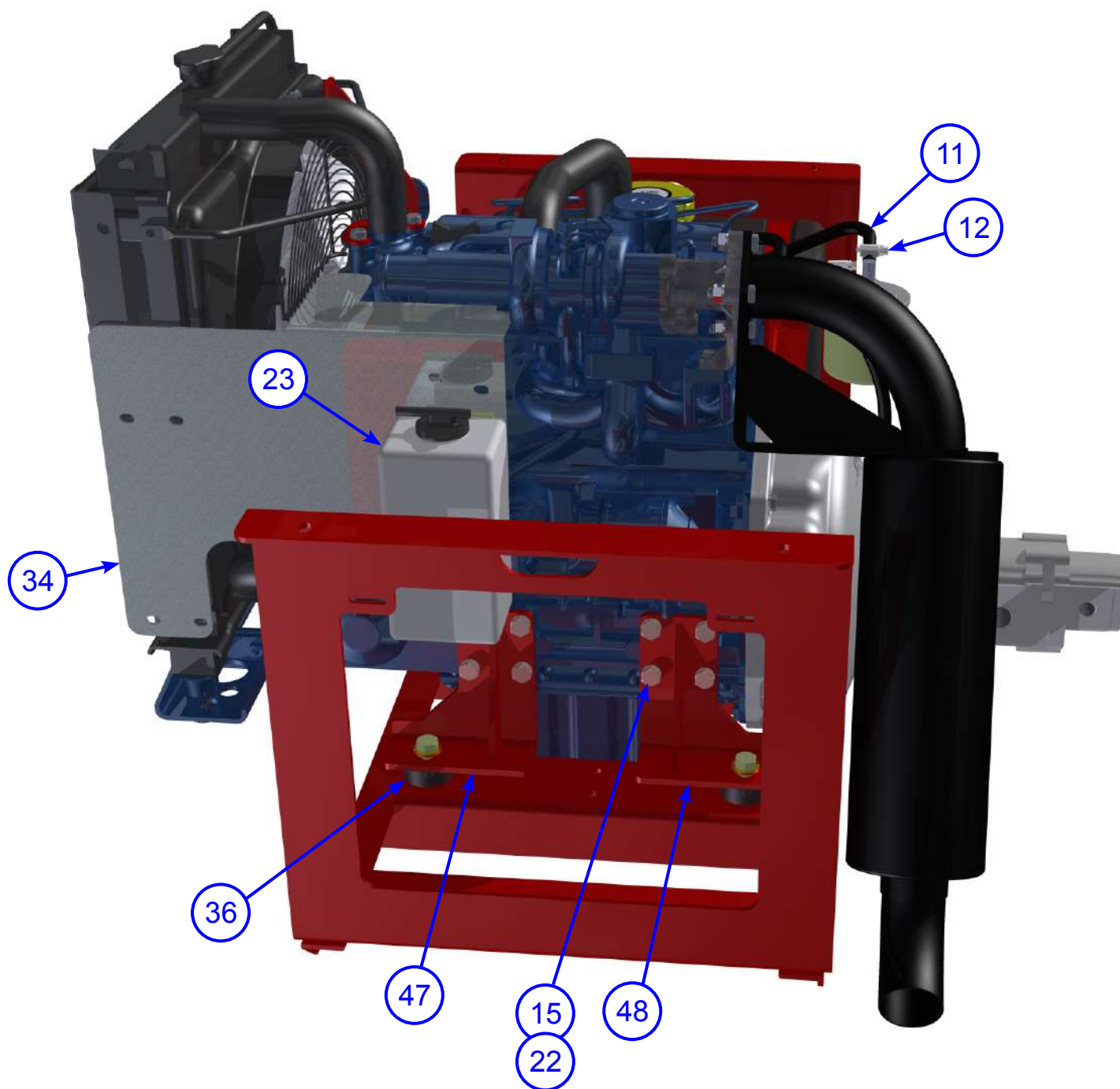
## SECTION 4 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	010019	FSTN, HHCS 5/16-18 X 3/4 GR 5	2
2	010021	FSTN, HHCS 5/16-18 X 1-1/4 GR5	4
3	010035	FSTN, HHCS 3/8-16 X 3/4	2
4	010036	FSTN, HHCS 3/8-16 X 1	2
5	010081	FSTN, FW 1/4	2
6	010082	FSTN, FW 5/16	2
7	010090	FSTN, LW 5/16	8
8	010100	FSTN, NUT HEX 5/16-18	6
9	011489	BOLT, 1/2-20x 3-1/2 GR 8 HHC	4
10	011490	FSTN, FW HARDENED 1/2	4
11	019429	HOSE, 5/16" FUEL LINE	6.75'
12	019430	FSTN, CLAMP SIZE 4 MINI HOSE	10
13	020514	FSTN, NUT STOVER LOCK 3/8-16	4
14	020542	FSTN, NUT STOVER LOCK 1/4-20	2
15	021072	FSTN, LW 10MM	16
16	024984	PIVOT, THROTTLE CABLE	1
17	026226	PIN, Ø3/32 X 3/4 ZP STL COTTER	1
18	028556	ISOLATOR, 25MM X 20MM "A" BUFFER	1
19	029032	FSTN, LW 8MM	8
20	029824	HOURLMETER, Ø2 OPERATING TIME	1
21	037777	ASSY, FUEL FILTER	1
22	037778	SCR, 10MMx1.25x30 HHC	16
23	037791	OVERFLOW TANK WITH BRACKET	1
24	037820	FSTN, HHCS 8MM X 1.25 X 30MM	8
25	038508	FSTN, HHCS 1/2-13 X 1 1/4 GR 8	2
26	040004	FSTN, 5/16-18 GR-C STOVER HEX NUT	2
27	040330	PUMP, 12 V ELECTRONIC FUEL	1
28	040389	CLIP, SP500 1 3/4" WIRE LOOM	1
29	040905	KIT, HYD PUMP DRIVE ADAPTER HAYES	1
30	041510	DECAL, DIESEL ONLY CAP	1
31	041586	BRACKET, FUEL FILTER KUBOTA ENGINE	1
32	043265	BOLT, FLAT HD, ALLEN, 1/4-20	2
33	043920	FILTER, IN-LINE DIESEL	1
34	046394	COVER, ALTERNATOR	1
35	046441	COVER, FUEL PUMP	1
36	048901	MOUNT, 250LB MOTOR MSP425	4
37	049028	BRACKET, RAD SUPPORT MSP460	1
38	049036	CAP, 3-1/2" VENTED BLACK	1
39	049859	ENGINE, KUBOTA D1105-T-E3B	1
40	051044	BRACKET, THROTTLE 1105T KUBOTA	1
41	053200	TANK, 6 GALLON W/ CAP (EPA)	1
42	055039	FSTN, LW 1/2 GR8 YELLOW ZINC	6
43	046843	FSTN, NUT HEX 1/2-20 GR8 YELLOW ZINC	4
44	057226	HYD PUMP FOR RS800	1
45	057228	ASSY 155" LG. THROTTLE CABLE	1
46	057501	WELDMENT, ENGINE/TANK CRADLE	1
47	057610	WELDMENT, RH FRONT ENGINE MOUNT RS800	1
48	057611	WELDMENT, LH REAR ENGINE MOUNT RS800	1
49	057612	WELDMENT,RH REAR ENGINE RS800	1
50	057613	WELDMENT, RH REAR ENGINE MOUNT	1
51	057615	WELDMENT, FUEL TANK STRAP	2
52	057645	WELDMENT, MUFFLER	1
53	057861	BRACKET, HOUR METER MOUNT	1



## SECTION 4 PARTS

### Power Unit Assembly (cont'd) Illustration



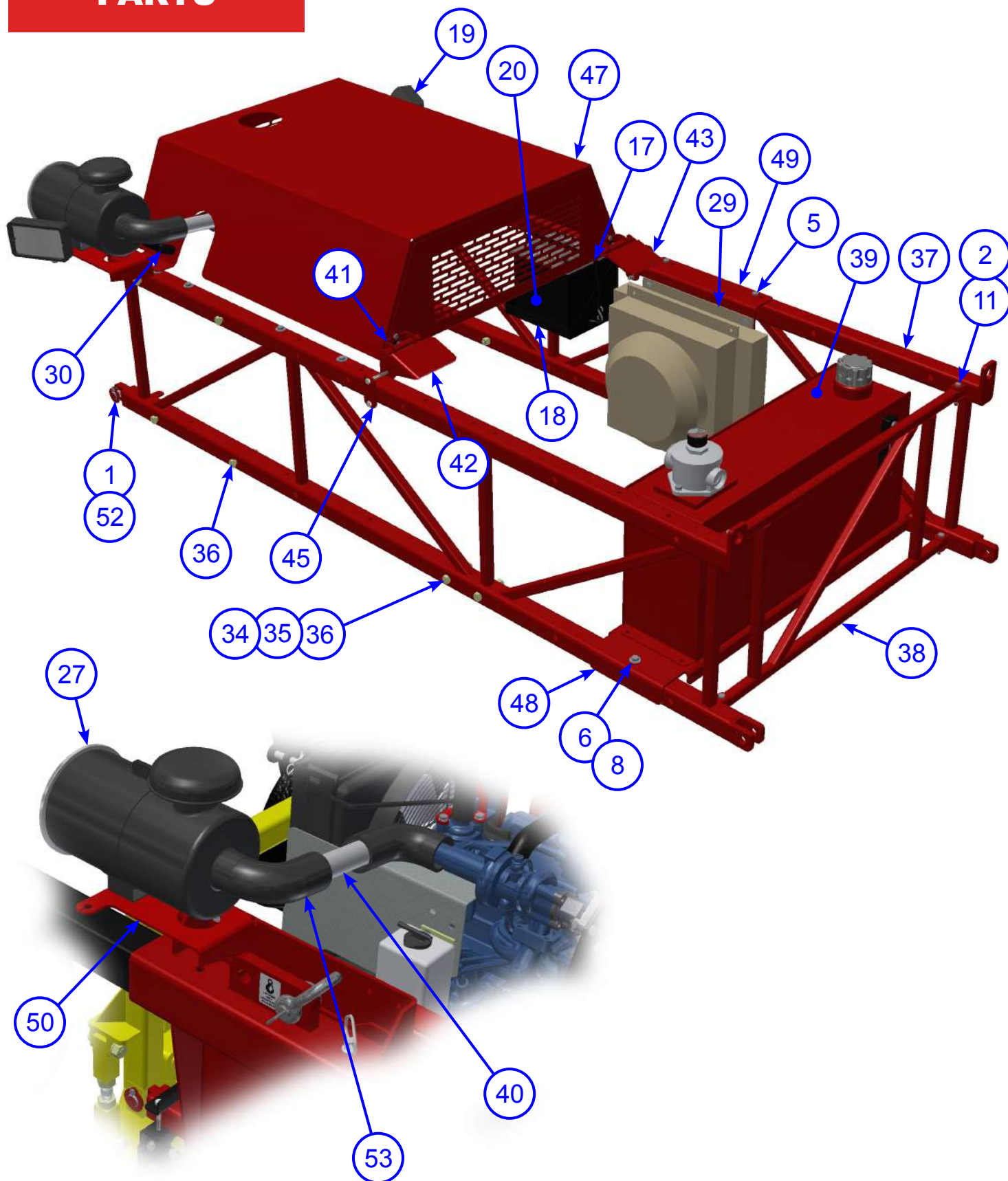
# Power Unit Assembly (cont'd) Parts List

## SECTION 4 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	010019	FSTN, HHCS 5/16-18 X 3/4 GR 5	2
2	010021	FSTN, HHCS 5/16-18 X 1-1/4 GR5	4
3	010035	FSTN, HHCS 3/8-16 X 3/4	2
4	010036	FSTN, HHCS 3/8-16 X 1	2
5	010081	FSTN, FW 1/4	2
6	010082	FSTN, FW 5/16	2
7	010090	FSTN, LW 5/16	8
8	010100	FSTN, NUT HEX 5/16-18	6
9	011489	BOLT, 1/2-20x 3-1/2 GR 8 HHC	4
10	011490	FSTN, FW HARDENED 1/2	4
11	019429	HOSE, 5/16" FUEL LINE	6.75'
12	019430	FSTN, CLAMP SIZE 4 MINI HOSE	10
13	020514	FSTN, NUT STOVER LOCK 3/8-16	4
14	020542	FSTN, NUT STOVER LOCK 1/4-20	2
15	021072	FSTN, LW 10MM	16
16	024984	PIVOT, THROTTLE CABLE	1
17	026226	PIN, Ø3/32 X 3/4 ZP STL COTTER	1
18	028556	ISOLATOR, 25MM X 20MM "A" BUFFER	1
19	029032	FSTN, LW 8MM	8
20	029824	HOURLMETER, Ø2 OPERATING TIME	1
21	037777	ASSY, FUEL FILTER	1
22	037778	SCR, 10MMx1.25x30 HHC	16
23	037791	OVERFLOW TANK WITH BRACKET	1
24	037820	FSTN, HHCS 8MM X 1.25 X 30MM	8
25	038508	FSTN, HHCS 1/2-13 X 1 1/4 GR 8	2
26	040004	FSTN, 5/16-18 GR-C STOVER HEX NUT	2
27	040330	PUMP, 12 V ELECTRONIC FUEL	1
28	040389	CLIP, SP500 1 3/4" WIRE LOOM	1
29	040905	KIT, HYD PUMP DRIVE ADAPTER HAYES	1
30	041510	DECAL, DIESEL ONLY CAP	1
31	041586	BRACKET, FUEL FILTER KUBOTA ENGINE	1
32	043265	BOLT, FLAT HD, ALLEN, 1/4-20	2
33	043920	FILTER, IN-LINE DIESEL	1
34	046394	COVER, ALTERNATOR	1
35	046441	COVER, FUEL PUMP	1
36	048901	MOUNT, 250LB MOTOR MSP425	4
37	049028	BRACKET, RAD SUPPORT MSP460	1
38	049036	CAP, 3-1/2" VENTED BLACK	1
39	049859	ENGINE, KUBOTA D1105-T-E3B	1
40	051044	BRACKET, THROTTLE 1105T KUBOTA	1
41	053200	TANK, 6 GALLON W/ CAP (EPA)	1
42	055039	FSTN, LW 1/2 GR8 YELLOW ZINC	6
43	046843	FSTN, NUT HEX 1/2-20 GR8 YELLOW ZINC	4
44	057226	HYD PUMP FOR RS800	1
45	057228	ASSY 155" LG. THROTTLE CABLE	1
46	057501	WELDMENT, ENGINE/TANK CRADLE	1
47	057610	WELDMENT, RH FRONT ENGINE MOUNT RS800	1
48	057611	WELDMENT, LH REAR ENGINE MOUNT RS800	1
49	057612	WELDMENT,RH REAR ENGINE RS800	1
50	057613	WELDMENT, RH REAR ENGINE MOUNT	1
51	057615	WELDMENT, FUEL TANK STRAP	2
52	057645	WELDMENT, MUFFLER	1
53	057861	BRACKET, HOUR METER MOUNT	1

## SECTION 4 PARTS

### Idle End Assembly Illustration





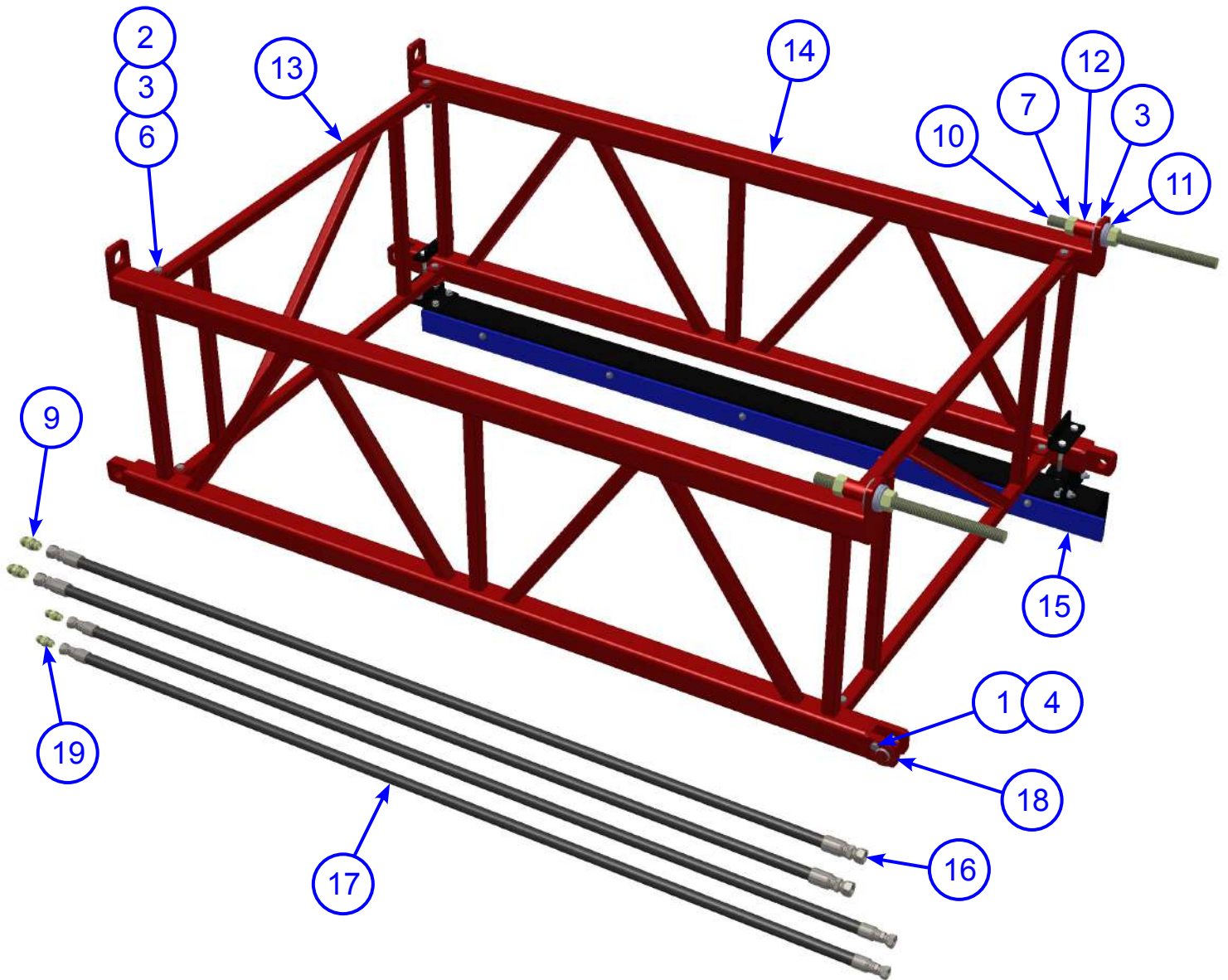
# Idle End Assembly Parts List

## SECTION 4 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	010001	FSTN, HHCS 1/4-20 X 1/2 GR 5	6
2	010024	FSTN, HHCS 5/16-18 X 2 GR 5	4
3	010035	FSTN, HHCS 3/8-16 X 3/4	6
4	010036	FSTN, HHCS 3/8-16 X 1	4
5	010043	FSTN, HHCS 3/8-16 X 2-3/4	12
6	010045	FSTN, HHCS 3/8-16 X 3-1/4	2
7	010081	FSTN, FW 1/4	4
8	010083	FSTN, FW 3/8	14
9	010090	FSTN, LW 5/16	4
10	010091	FSTN, LW 3/8	20
11	010100	FSTN, NUT HEX 5/16-18	4
12	010102	FSTN, NUT HEX 3/8-16	20
13	011238	FSTN, NUT HEX NYLOK 1/2-13	1
14	011490	FSTN, FW HARDENED 1/2	2
15	020514	FSTN, NUT STOVER LOCK 3/8-16	4
16	020542	FSTN, NUT STOVER LOCK 1/4-20	4
17	026592	BATTERY HOLD DOWN STRAP	1
18	029213	BOX, BATTERY TRTF	1
19	036881	LIGHT, PREP F/ RIDING TROWELS	2
20	037771	BATTERY, 12 V GRAY 655CA	1
21	039082	FSTN, HHCS 5/16-18 X 3" GR 5	4
22	039329	FSTN, CLIP TINNEMAN 1/4-20	3
23	040004	FSTN, 5/16-18 GR-C STOVER HEX NUT	4
24	040741	FSTN, LW 1" GR8 YLW ZINC	2
25	042260	LATCH, T-HANDLE EXTRA-LARGE DRAW	1
26	042342	FSTN, SFBHCS 1/4"-20 x 3/4	4
27	043287	CLEANER, 44KB TURBO B53 AIR	1
28	045019	FSTN, NUT 1"-8 HEX GR 8	2
29	047693	COOLER, HYDRAULIC F/ HD550	1
30	048678	HANDLE, LOAD RATED NYLON	2
31	050433	FSTN, ACME 1/2-10 HEX NUT	2
32	055033	FSTN, HHCS 1"-8 X 2" LONG GR8 YELLOW ZINC	2
33	055034	FSTN, FW 1" GR 8 YELLOW ZINC	2
34	055039	FSTN, LW 1/2 GR8 YELLOW ZINC	12
35	055040	FSTN, NUT HEX 1/2-13 GR8 YELLOW ZINC	12
36	055310	FSTN, HHCS 1/2-13 X 3 GR. 8 YELLO ZINC	12
37	057014	END FRAME	2
38	057015	CENTER FRAMES	1
39	057220	HYD TANK ASSEMBLY RS800	1
40	057246	TUBE, CONNECTOR FOR RS844 BREATHER CONNECTION	1
41	057257	HINGE, FOR HOOD FOR RS800	2
42	057260	FRONT, FOR HOOD MNT RS800	1
43	057262	HINGE REAR, FOR HOOD MNT RS800	1
44	057263	BUMPER, RUBBER ( 8884T21) MILL SPEC 3/4" DIA X 9/16 TALL	2
45	057264	PLATE, CONNECTING FOR HINGE PLATE FOR HOOD RS800	2
46	057265	PLATE, LATCH CONNECT FOR HOOD RS800	1
47	057266	ENGINE HOOD FOR RS832 ROLLER SCREED	1
48	057636	BRACKET, HYD. TANK MOUNT	1
49	057637	PLATE, COOLER MOUNT F/ POWER UNIT	1
50	057686	BRACKET, AIR CLEANER MOUNT RS832	1
51	057746	BRACKET LIGHT, FOR RS800	1
52	057749	RETAINING PIN RS800	2
53	16296-11620	PIPE, INLET F/ B53 KUBOTA BREATHER	1

## SECTION 4 PARTS

### 5' Frame Section Assembly (057382) Illustration



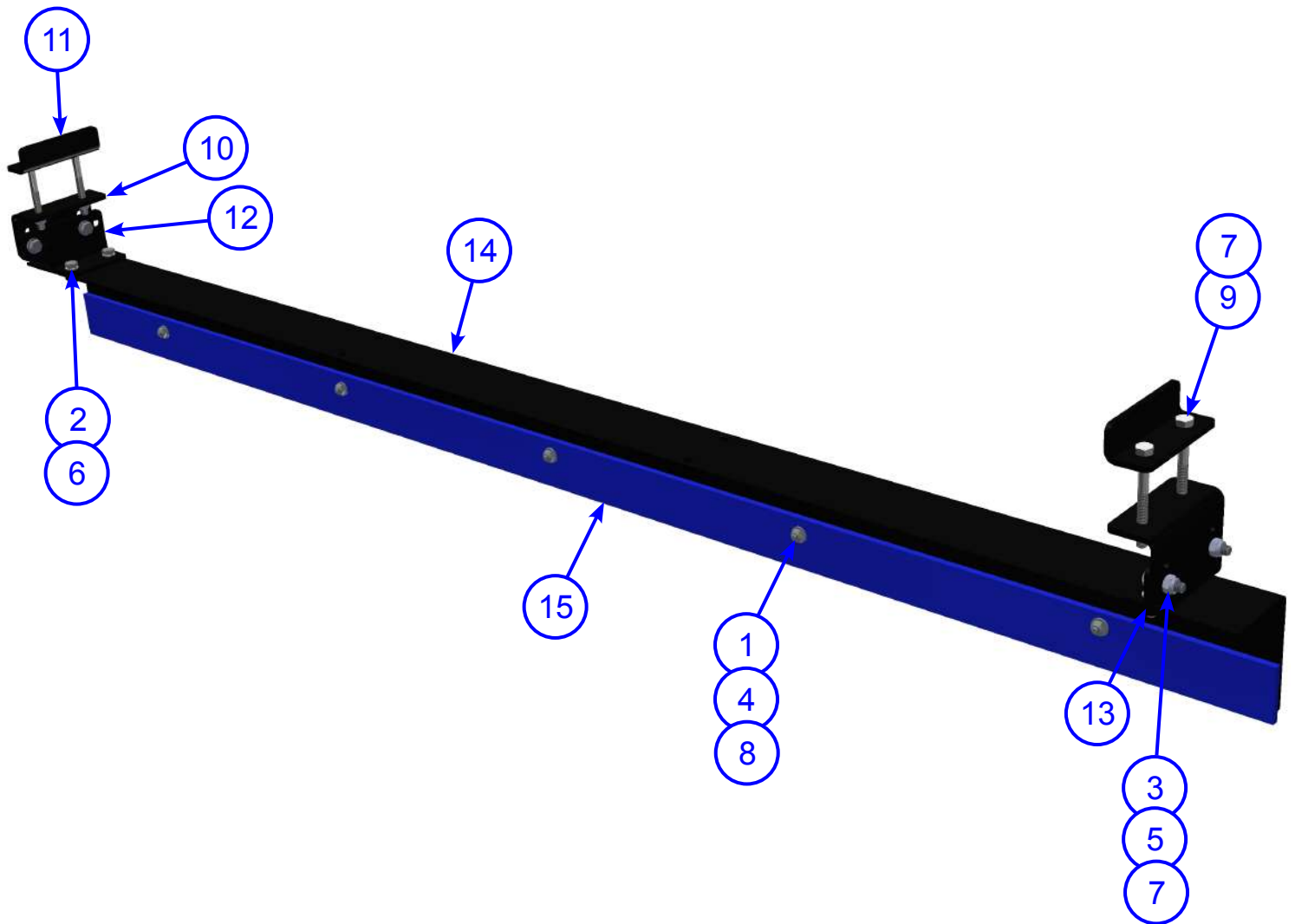
## 5' Frame Section Assembly (057382) Parts List

## SECTION 4 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	010001	FSTN, HHCS 1/4-20 X 1/2 GR 5	2
2	010024	FSTN, HHCS 5/16-18 X 2 GR 5	8
3	010087	FSTN, FW 3/4	2
4	010089	FSTN, LW 1/4	2
5	010090	FSTN, LW 5/16	8
6	010100	FSTN, NUT HEX 5/16-18	8
7	010112	FSTN, NUT HEX 3/4-10	4
8	052787	FTG, LH LARGE HEX UNION (FOR 1/2" HOSE)	2
9	052787	FITTING, F2403-8-8	2
10	057011	ROD, TOP CONNECTING FOR PR2440 ASSEMBLY	2
11	057012	SPHERICAL WASHER 3/4"	2
12	057013	TUBE, TOP SPACER FOR CONNECTING BOLT PR2440	2
13	057015	CENTER FRAMES FOR PR2440	2
14	057381	5' MAIN FRAME WELDMENT FOR RS800	2
15	057386	5' SCRAPER ASSEMBLY	1
16	057434	1/2" HOSE ASSEMBLY 5' LONG	2
17	057435	3/8" HOSE ASSEMBLY 5' LONG	2
18	057749	RETAINING PIN RS800	2
19	057825	FITTING, F2403-6-6	2

## SECTION 4 PARTS

### 5' Scraper Assembly (057386) Illustration



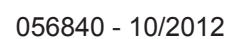
## 5' Scraper Assembly (057386) Parts List

## SECTION 4 PARTS

ITEM	PART NO.	DESCRIPTION	QTY
1	010002	FSTN, HHCS 1/4-20 X 3/4	5
2	010019	FSTN, HHCS 5/16-18 X 3/4 GR 5	4
3	010020	FSTN, HHCS 5/16-18 X 1	4
4	010081	FSTN, FW 1/4	5
5	010082	FSTN, FW 5/16	4
6	010090	FSTN, LW 5/16	4
7	012612	FSTN, NUT HEX NYLOCK 5/16-18	8
8	020542	FSTN, NUT STOVER LOCK 1/4-20	5
9	039082	FSTN, HHCS 5/16-18 X 3" GR 5	4
10	057306	BRACKET , SCRAPER MIDDLE RS800 SERIES FRONT PAVING TUBE	2
11	057307	BRACKET, TOP CONNECTING FOR RS800 FRONT PAVING TUBE SCRAPER	2
12	057308	BRACKET, LH BOTTOM FOR RS800 SERIES FRONT TUBE SCRAPER	1
13	057309	BRACKET, RH BOTTOM FOR RS800 SERIES FRONT TUBE SCRAPER	1
14	057384	ANGLE SCRAPER WELDMENT 5'	1
15	057385	TIVAR FOR SCRAPER FOR 5'	1



## Hydraulic Schematic Illustration



## Hydraulic Schematic Parts List

## SECTION 4 PARTS

ITEM	PART #	DESCRIPTION	QTY
1	032268	UNIT, CHROME GAS-HYDRAULIC TANK CAP	1
2	032960	RING, WELD F/ TANKS	1
3	038949	ASSY, TRTP 10" FILTER	1
4	040058	VALVE, STACK 7C7FTLFG/RF-SAE (TRTP)	1
5	040072	STRAINER, SMALL HYD. TANK (TRTP)	2
6	040073	STRAINER, LARGE HYD. TANK (TRTP)	1
7	040074	HANDLE, F/ VALVES (TRTP)	3
8	042844	GAUGE, 5.00" SITE LEVEL	1
9	045135	MANIFOLD, SPECIAL F/ TRTP	1
10	047693	COOLER, HD550 HYDRAULIC (10/'06)	1
14	055126	THERMOSTAT ASSEMBLY TM461/A1	1
15	055127	CONNECTOR 8CHW02PG9N	1
16	055452	SWITCH, PRESSURE (FOR TEXTURE CURE)	1
17	055685	VALVE, SINGLE STACK HYD	2
18	055799	CONNECTOR, 280 METRIPACK	1
21	057224	HYD MOTOR F/ STRIKE OFF TUBE RS800	1
22	057226	TRIPLE PUMP RS 800	1
23	057227	KEP O SEAL FOR SHUTTLE VALVE	1
24	057276	HYD DRIVE TUBE MOTOR F/ RS 800	2
25	057813	HYDRAULIC HOSE KIT FOR RS832-14	1
26	057814	FITTING KIT FOR RS832 ROLLER SCREED	1

## SECTION 4 PARTS

### Hydraulic Fittings Parts List

PART #	DESCRIPTION	QTY
044637	FITTING, F2403-8-8	1
045138	FTG., F2404-12-12-O	1
045142	FTG., F2404-10-12-0	1
045915	FTG, F6400-6-6-O STR JIC-SAE	6
045920	FTG, F6801-8-8-NWO 90° ELB	1
045921	FTG, F6400-8-8-O STR	8
045924	FTG, F6602-6-6-6-O TEE	2
045947	FTG, F6400-12-12-O STR	1
046354	F6400-08-10-0 FLARE-O FITTING	2
046362	FITTING, F6801-6-8-NWO	2
046367	F6400-06-10-0 FLARE-O FITTING	4
047518	FTG, F2404-8-8	2
047835	FTG., 9002-10-16	2
057825	FTG., F2403-6-6	4
057826	FTG., F2403-10-10	1
057925	FTG., F2501-4-6-0	2

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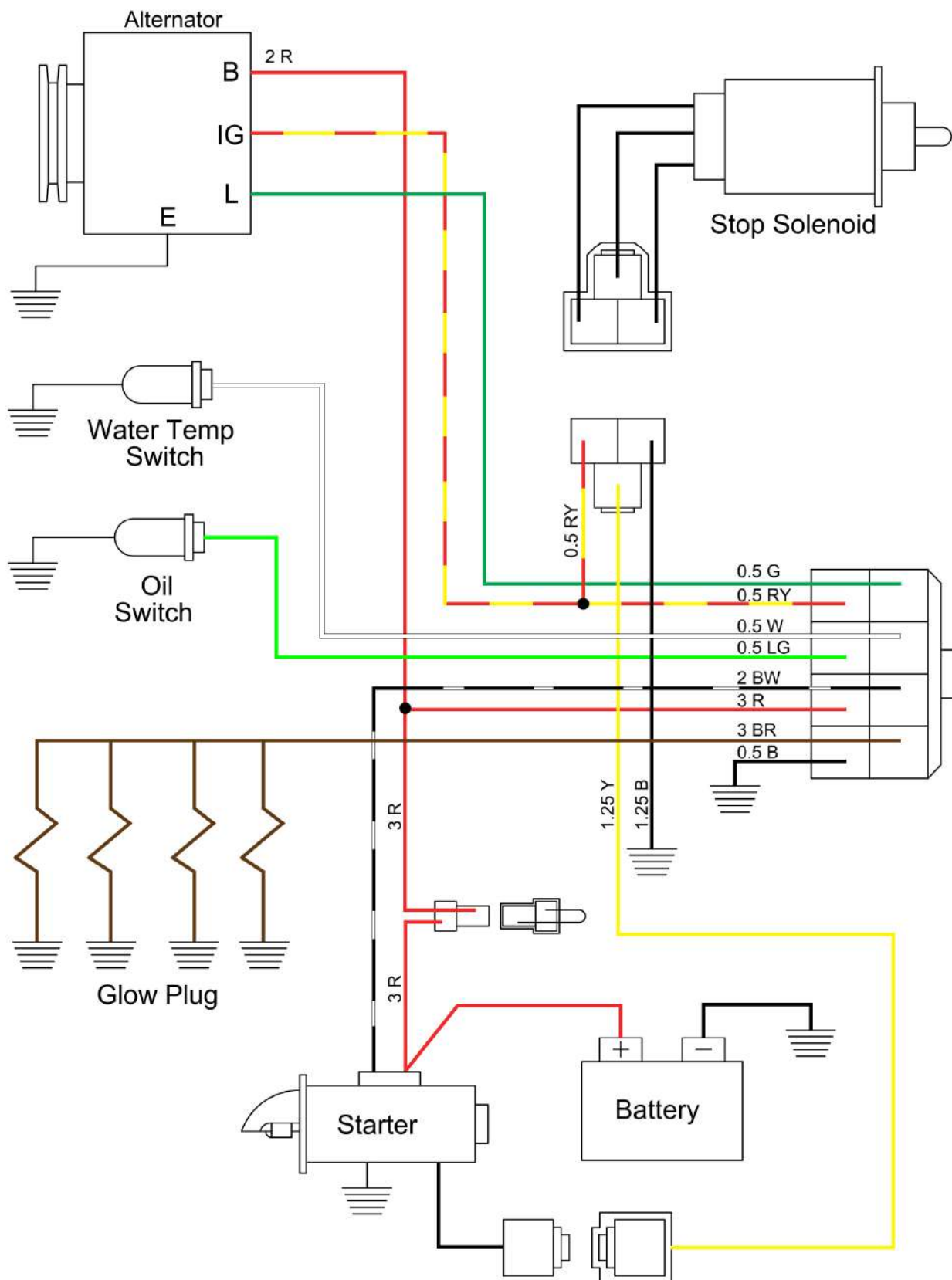
## Hydraulic Hoses Parts List

## SECTION 4 PARTS

PART#	HOSE DESCRIPTION	HOSE END #1 FROM	HOSE END #2 TO	HOSE LENGTH	HOSE SIZE
057788	RS832-16 #1	RETURN FILTER	COOLER TOP	52"	#10
057789	RS832-16 #2	PUMP	TANK	32"	#12
057790	RS832-16 #3	FRONT PUMP SUCT	TANK	31"	#8
057791	RS832-16 #4	REAR PUMP SUCT	TANK	31"	#8
057792	RS832-16 #5	FRONT PUMP	UNION	116"	#8
057793	RS832-16 #6	RH DRIVE T PORT	RETURN MAN.	19"	#8
057794	RS832-16 #7	LH DRIVE T PORT	RETURN MAN.	20"	#8
057795	RS832-16 #8	PAVE T PORT	RATURN MAN.	24"	#8
057796	RS832-16 #9	PAVE PRESS PORT	UNION	42"	#8
057797	RS832-16 #10	PAVE A PORT	PAVE MOTOR	115"	#8
057798	RS832-16 #11	PAVE B PORT	PAVE MOTOR	115"	#8
057799	RS832-16 #12	#2 PUMP	UNION	113"	#6
057800	RS832-16 #13	#3 PUMP	UNION	113"	#6
057801	RS832-16 #14	LH DRIVE A PORT	LH MOTOR	89"	#6
057802	RS832-16 #15	LH DRIVE B PORT	LH MOTOR	89"	#6
057803	RS832-16 #16	RH DRIVE A PORT	UNION	31"	#6
057804	RS832-16 #17	RH DRIVE B PORT	UNION	29"	#6
057805	RS832-16 #18	RH DRIVE PRESS	UNION	32"	#6
057806	RS832-16 #19	LH DRIVE PRESS	UNION	39"	#6
057807	RS832-16 #20	RH DRIVE MOTOR	UNION	156"	#6
057808	RS832-16 #21	RH DRIVE MOTOR	UNION	156"	#6
057809	RS832-16 #22	LH DRIVE A PORT	SHUTTLE	19"	#4
057810	RS832-16 #23	RH DRIVE A PORT	SHUTTLE	23"	#4
057811	RS832-16 #24	COOLER BOTTOM	UNION	116"	#10
057812	RS832-16 #25	RETURN MAN. IN	UNION	10"	#10

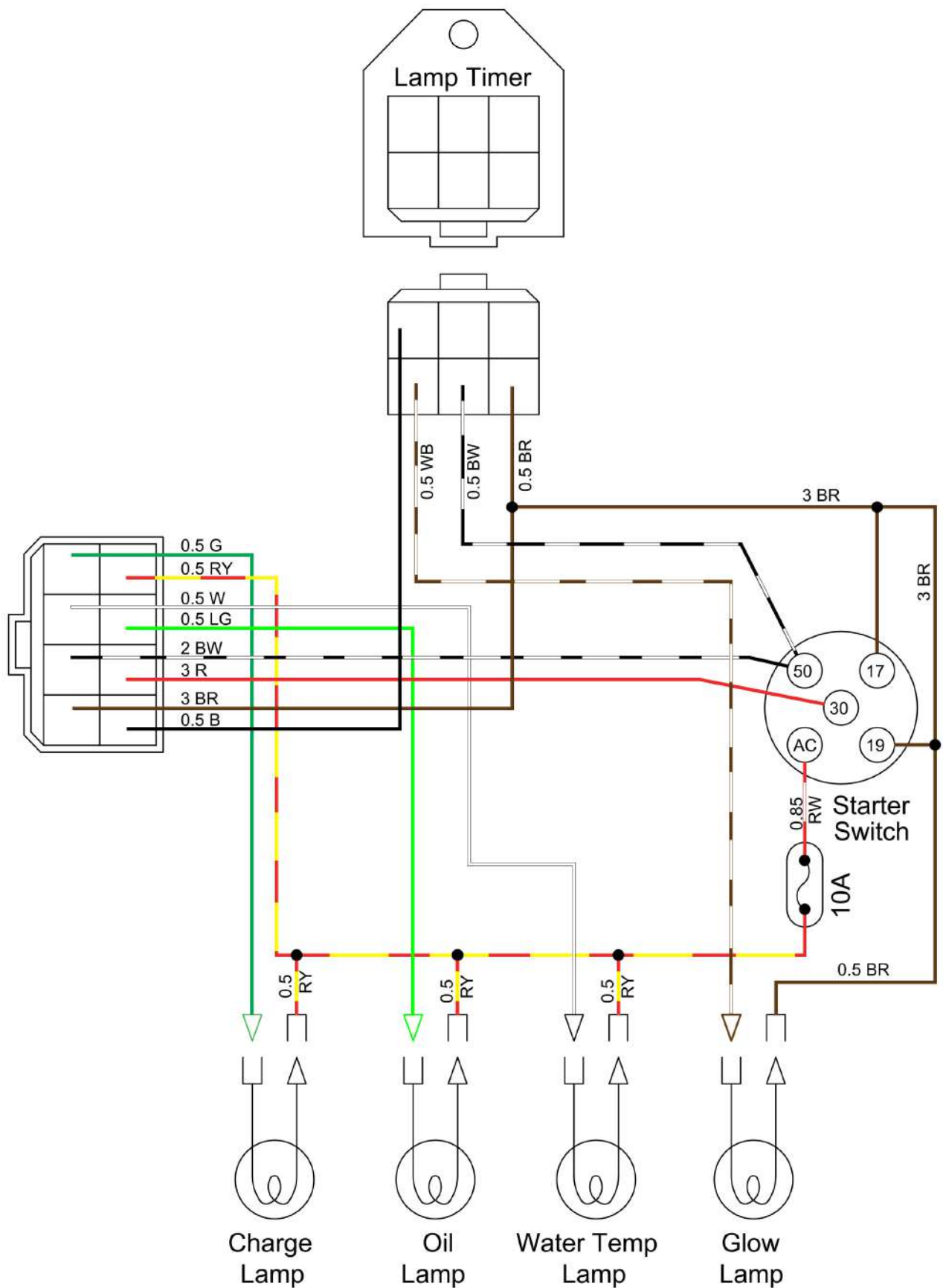
## SECTION 4 PARTS

## Engine Electrical Schematic Illustration



# Engine Electrical Schematic Illustration

## SECTION 4 PARTS



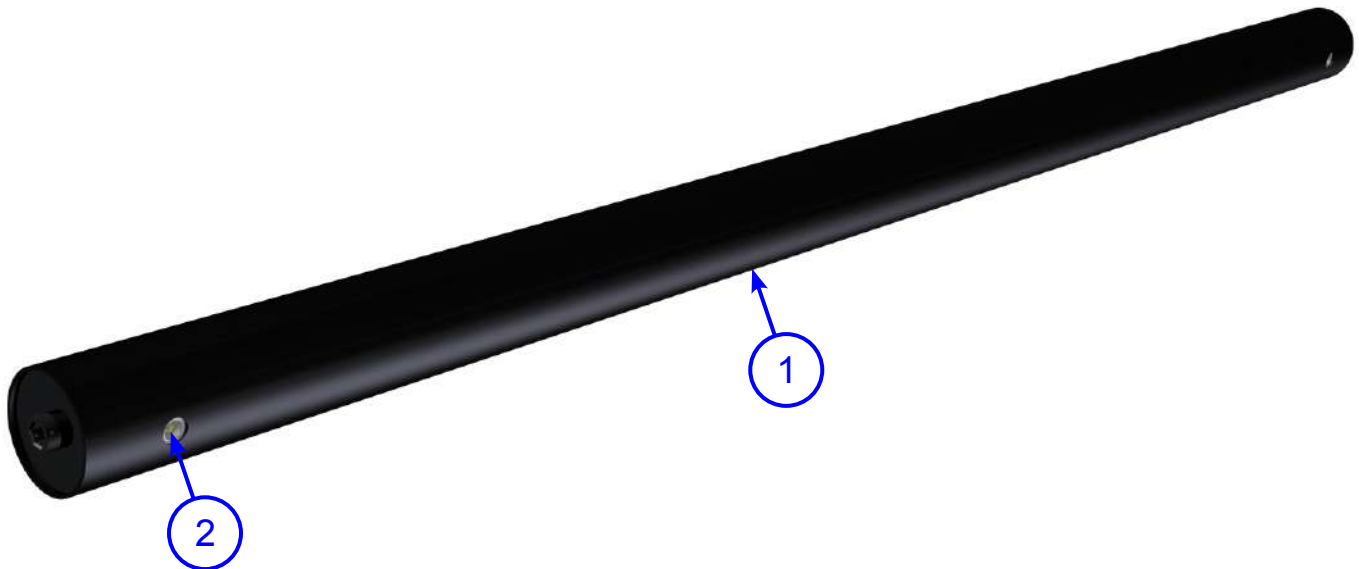
## **SECTION 4 PARTS**

### **Machine Electrical Schematic Illustration**



## SECTION 4 PARTS

### Paving Tube Assembly Illustration and Parts List



ITEM	PART NO.	DESCRIPTION	QTY
1	057173-14	PAVING TUBE FOR RS800 SERIES, 14'	1
	057173-16	PAVING TUBE FOR RS800 SERIES, 16'	
	057173-18	PAVING TUBE FOR RS800 SERIES, 18'	
	057173-20	PAVING TUBE FOR RS800 SERIES, 20'	
	057173-22	PAVING TUBE FOR RS800 SERIES, 22'	
	057173-24	PAVING TUBE FOR RS800 SERIES, 24'	
	057173-26	PAVING TUBE FOR RS800 SERIES, 26'	
	057173-28	PAVING TUBE FOR RS800 SERIES, 28'	
	057173-30	PAVING TUBE FOR RS800 SERIES, 30'	
	057173-32	PAVING TUBE FOR RS800 SERIES, 32'	
	057173-34	PAVING TUBE FOR RS800 SERIES, 34'	
2	035327	PLUG, 3/4-14 NPTF HOLLOW HEX	2



#### NOTE

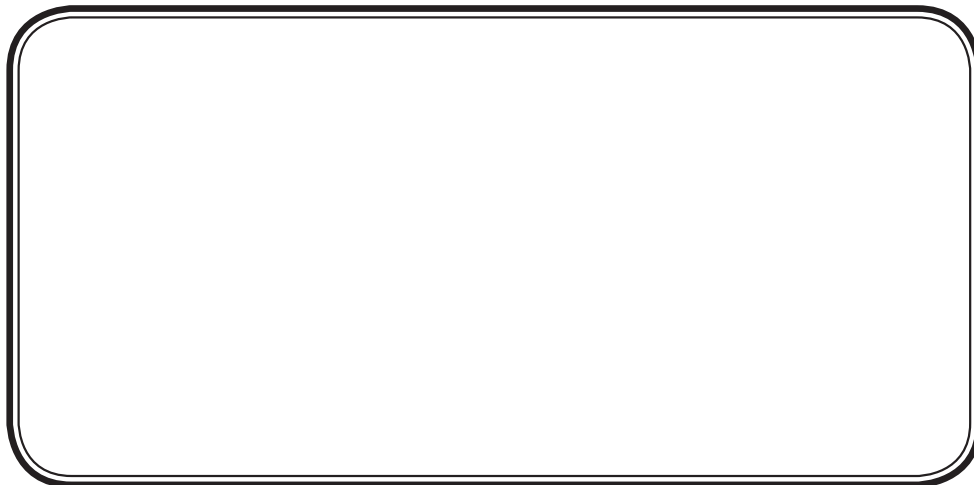
Approximately 21.5 LBS/FT

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INTENTIONALLY BLANK



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