

**PRONOVOST**

**OWNER'S  
MANUAL**

**SILATUBE**

**Model P-6400**

Copyright © Les Machineries Pronovost Inc., 1998

All rights reserved.

Printed in Canada.

---



---

# TABLE OF CONTENTS

---

Section	Item	Page
<b>1</b>	<b>Introduction .....</b>	<b>5</b>
<b>2</b>	<b>Safety .....</b>	<b>6</b>
	General Safety .....	6
	Safety in Operation .....	6
	Safety with Maintenance .....	7
	Safety in Transport .....	7
	Safety in Storage .....	7
<b>3</b>	<b>Decals .....</b>	<b>8</b>
	Safety Decals .....	8
	Maintenance Decals .....	9
<b>4</b>	<b>Start-up .....</b>	<b>10</b>
	Basic Start-up Procedures .....	10
	Ground Preparation .....	12
	Operation for square bales .....	13
	Adjustment of Silatube .....	13
	Operation .....	15
	Operation for round bales .....	22
	Adjustment of Silatube .....	22
	Operation .....	25
<b>5</b>	<b>Maintenance .....</b>	<b>29</b>
<b>6</b>	<b>Storage .....</b>	<b>30</b>
<b>7</b>	<b>Specifications .....</b>	<b>31</b>
<b>8</b>	<b>Parts List .....</b>	<b>32</b>
	SilaTube P-6400 .....	32
	Detail of Arch Model P-6400 .....	36
	Arch Cylinder P-6400 .....	37
	Lateral Cylinder .....	38
	Cylinder 20TR24 .....	39
	Cylinder 25TR04 .....	40
	Cylinder 30TR04 .....	41
	Pusher hydraulic motor .....	42
	Control valve 1, 2, 3, 4 & 6 spool .....	43
	Double pump MHP-22 .....	44
	Engine Assembly with Pump .....	45
	Hub H2500 .....	46
	Hydraulic System .....	47
	Electric System .....	50
	Electric Circuit .....	52
	Hydraulic U-Shaped bale guide .....	53
	Motorized moving kit .....	54
	Hydraulic motor for motorized moving kit DH315 .....	55
<b>9</b>	<b>Torque Chart .....</b>	<b>56</b>
<b>10</b>	<b>Warranty .....</b>	<b>57</b>



---

---

# INTRODUCTION

---

1

## CONGRATULATIONS!

Thank you for choosing PRONOVOST. We are confident this equipment will meet your requirements in terms of quality, performance and reliability.

This manual was prepared to assist you in the safe operation of your new SilaTube. It contains important information which will help you achieve excellent returns with your tubing-machine for years to come.

Please read this manual completely before operating your SilaTube and keep it for future reference.

Before starting the machine, you or any other person who will be operating the SilaTube must familiarize yourself with the safety recommendations and the operating instructions. Please read carefully and be sure to understand and follow all recommendations and procedures.

In this manual, the right and left sides of the SilaTube are identified while standing at the discharge end of the machine and facing it.

If you require additional information on your SilaTube, please contact your PRONOVOST Dealer.

**NOW** take a moment to enter the model, serial number and the date of purchase of your SilaTube in the space provided.

When ordering parts from your Dealer, please refer to these numbers for a fast and efficient service. Use PRONOVOST parts for replacement.

The model and serial numbers are on the nameplate shown on Fig. 1.

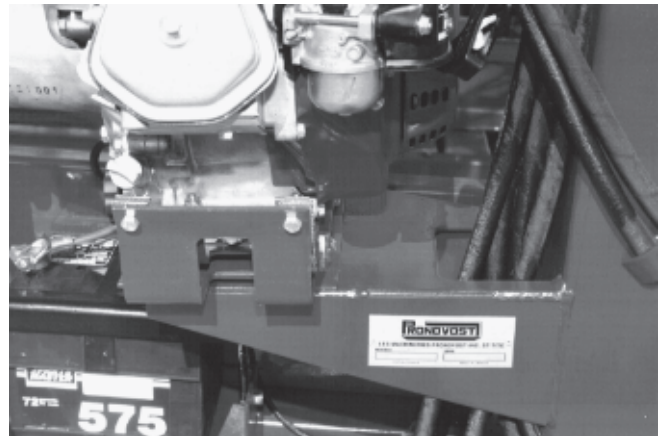


Figure 1

MODEL: \_\_\_\_\_ ✍

SERIAL NO.: \_\_\_\_\_ ✍

DATE OF PURCHASE: \_\_\_\_\_ ✍

---

---

# ***SAFETY***

---

## ***GENERAL SAFETY***

### **WHEN YOU SEE THIS SYMBOL**

**2**



**ATTENTION!**

**BE ALERT  
YOUR SAFETY IS INVOLVED**

This symbol «**SAFETY ALERT**» is used in this manual and on the safety decals on the SilaTube. It warns you of the possibility of danger. Carefully read, understand and follow all safety recommendations before operating the SilaTube.

- 1) Careful operation is the best assurance against accidents. Carefully read this manual and the motor manual and follow all recommendations before operating your SilaTube. It is the owner's responsibility to make sure that anyone who will operate the SilaTube will read these manuals before operating the equipment.
- 2) Never let a child operate the SilaTube.
- 3) Do not modify the SilaTube. Any non authorized modification may affect the efficiency and/or safety of the equipment.
- 4) Never operate the SilaTube with defective parts or if damaged in any way. Have it repaired before operating.
- 5) Make sure all fasteners are in place and properly secured or tightened. Refer to torque chart on page 56.
- 6) Avoid wearing loose fitting clothing when working with the SilaTube. These could get entangled in moving parts of the equipment and cause accidents.
- 7) Keep motor clean and exempt of dust and debris.
- 8) Before using the SilaTube, inspect the area where it is to be used and remove any object which could hamper normal operation or damage the plastic tube.
- 9) Hydraulic fluids under pressure can damage your skin. Do not use your hands to locate a leak.
- 10) Plastic bags are impervious to air. Keep them away from children to avoid suffocation.
- 11) When using a tractor equipped with a spear, be extremely careful. Always lower the spear to the ground before leaving your tractor.
- 12) Do not store, spill or use fuel near a flame, a hot engine or stove.

## ***SAFETY IN OPERATION***

- 1) Position the engine outward before you start working with the SilaTube.
- 2) Be sure there are no obstructions around the equipment and that no one stands near the SilaTube when in operation.
- 3) Always refuel equipment when outside and away from flames or sparks.
- 4) Never run the engine inside. Do not operate the engine in a confined or non ventilated area. Carbon monoxide is a colorless, odorless and deadly gas.
- 5) Be careful when adjusting equipment with engine running.

---

---

## ***SAFETY (cont'd)***

---

- 6) Keep hands, feet, hair and clothing away from moving parts.
  - 7) Should you need to step onto the SilaTube for whatever reasons, **ALWAYS** stop the motor since there is **RISK OF SERIOUS INJURY** if not stopped.
  - 8) Do not refill fuel tank with engine running. Always let the engine cool off for a couple of minutes before refilling. Always use approved fuel containers.
  - 9) Do not operate the engine if fuel is spilled. Move equipment away from the spill and avoid any spark until the complete evaporation of the fuel.
  - 10) Do not smoke while refueling.
  - 11) Do not operate engine with any accumulation of hay, leaves, dirt or any other combustible material near the exhaust muffler.
  - 12) Avoid touching the hot muffler and cooling fins since they could cause burns to your skin.
- 2) Slide the engine to the inward position (transport position) in order not to exceed the legal width on the road.
  - 3) Check local regulations for the transport of your SilaTube on the road.
  - 4) Be alert when pulling the SilaTube on the road. Do not allow anyone to stand on it while in motion.
  - 5) The road speed should be such as to maintain full control over steering and braking.
  - 6) Be careful while backing up.

### ***SAFETY IN STORAGE***

- 1) Let engine cool and drain fuel from tank.
- 2) Do not let children play in the area where the SilaTube is stored.
- 3) Do not leave a Tube installed on the SilaTube.
- 4) Do not let the SilaTube stand on the tires. Lower it to the ground or on wooden blocks. **THIS WILL AVOID ANY ACCIDENTAL CRUSHING OF ANIMALS OR ANYONE WHO COULD CRAWL UNDER THE EQUIPMENT.**

### ***SAFETY WITH MAINTENANCE***

- 1) Perform the SilaTube maintenance according to the recommendations contained in this manual.
- 2) Stop engine and relieve all hydraulic pressures before doing inspection, maintenance or repairs.
- 3) Do not check spark with spark plug or wire removed. Use the appropriate testing equipment.
- 4) Regularly check fuel lines and fittings for leaks. Replace if necessary.

### ***SAFETY IN TRANSPORT***

- 1) Be sure to engage the two safety locks (A Figure 2) provided for the rear wheels hydraulic cylinders (B Figure 2).

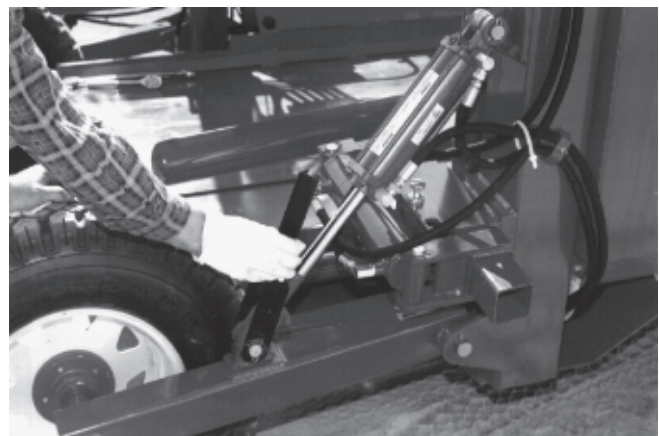


Figure 2

# DECALS

## SAFETY DECALS

The safety decals are affixed wherever special safety precautions are indicated. Locate them on the machine and read them carefully. If a decal is damaged, lost or illegible, install a new one. Each decal is identified with a letter and part number. The following photos indicate where each one must be installed.

3



Figure 3  
Decal A

Part no.: A101

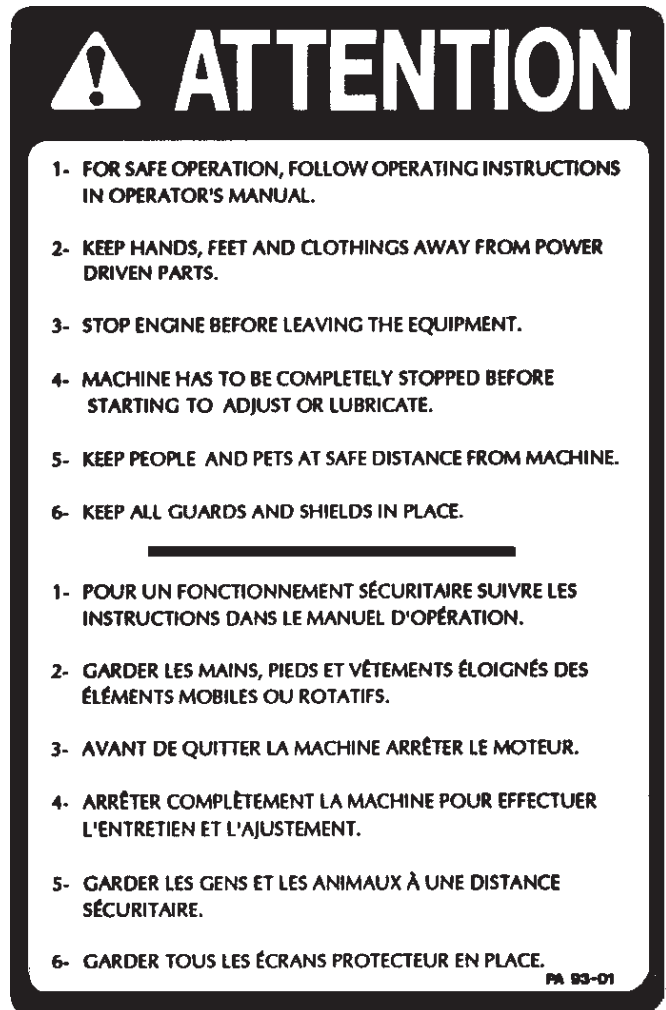


Figure 5  
Decal B

Part no.: A102



Figure 4



Figure 6



## DECALS (cont'd)



Figure 7  
Decal C

Part no.: A103

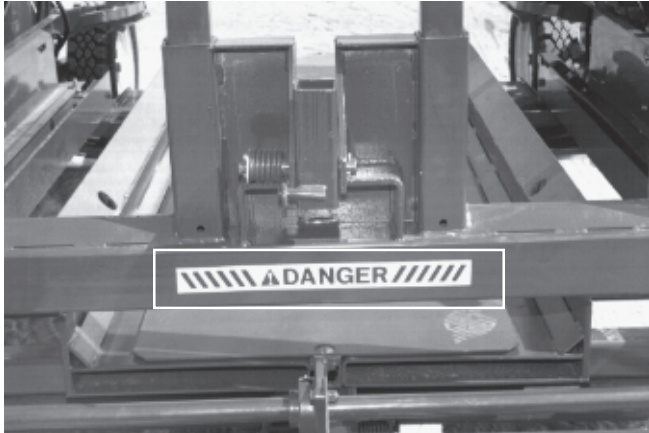


Figure 8

### MAINTENANCE DECALS

The maintenance decals indicate the points requiring lubrication. Refer to the maintenance section for more details.



Figure 9

Part no.: A104



Figure 10



Figure 11

Part no.: A 106

---

# OPERATION

---



**4** Figure 12



Figure 13

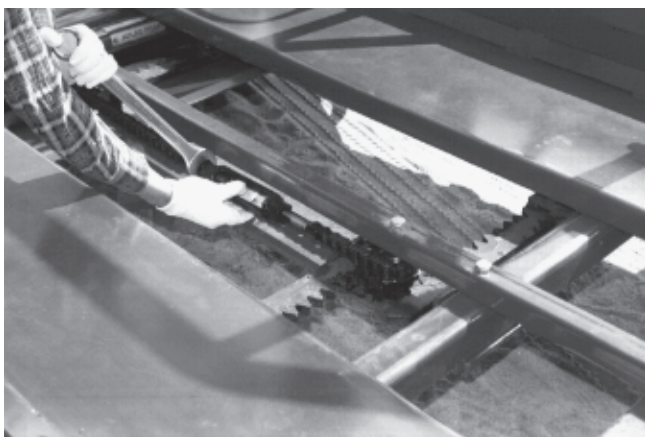


Figure 14

## BASIC START-UP PROCEDURES

- 1) The SilaTube engine is mounted on a sliding base so it can be easily placed in transport position in order not to exceed the legal width on the road. Do not forget to re-position the engine outward before starting (Fig. 12).
- 2) Verify for adequate tightness of all fastening devices. Refer to torque chart on page 56.
- 3) Lubricate all points and guide mechanisms requiring grease, with a high quality lithium base grease containing molybdenum disulfide ( $\text{MoS}_2$ ) such as «Esso Unirex EP1 Moly», «DARINA XL-Multi Season Moly, Grade #1» from Shell or equivalent.
- 4) Check oil level in hydraulic reservoir. Use good quality tractor transmission and hydraulic system oil such as «Trans Hydraulic Duratran» from Petro Canada, «DONAX TD» from Shell or equivalent.
- 5) Check tire pressure and adjust according to recommendation indicated on the tires.
- 6) Check engine oil level.
- 7) Check the operation of all hydraulic cylinders.
- 8) Check the operation of the bale pusher mechanism. It must operate freely and return to its starting position automatically.
- 9) If your SilaTube is equipped with the hydraulic U-shaped bales guide, check if it operates well. If needed, readjust the two halves of the bale guide in order to maintain them parallel. It can be done by taking off the central part (Fig. 13) and by turning the adjustments (Fig. 14).

# OPERATION (cont'd)

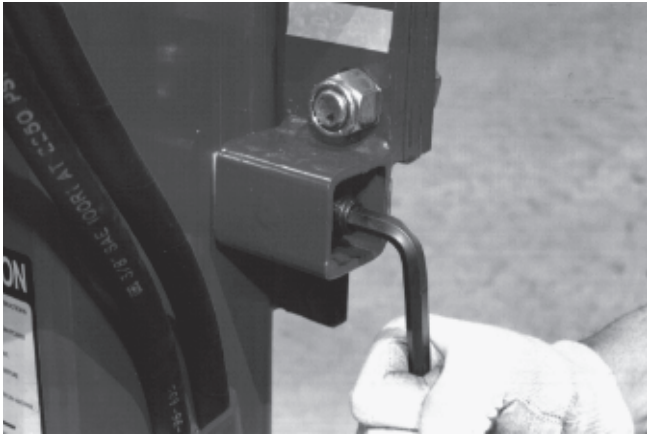


Figure 15

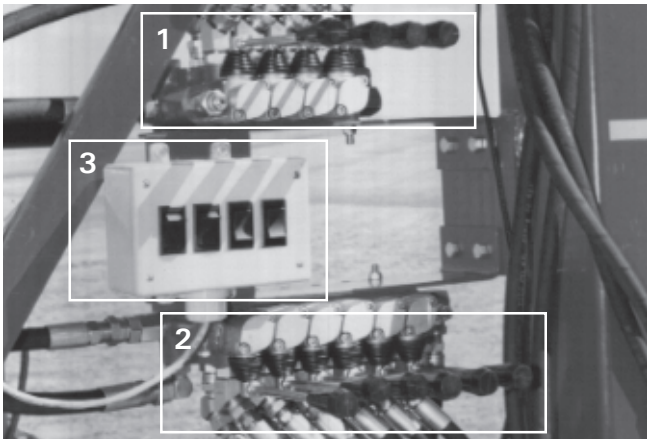


Figure 16

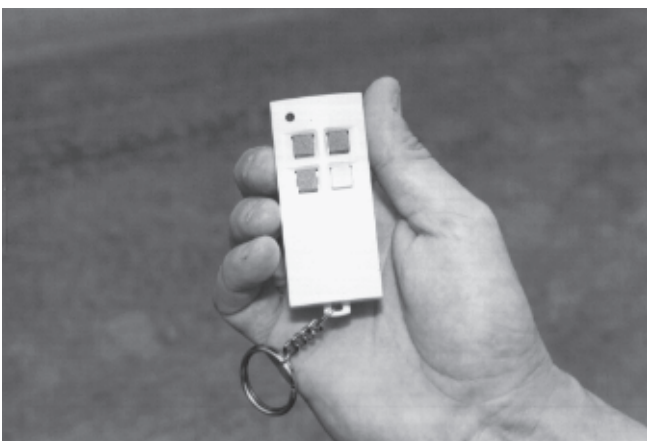


Figure 17

10) There is one adjustment for each lateral stretcher. It helps to reduce the friction due to torsion when stretching the tube. It is important not to apply an excessive tension on these adjustments (Fig. 15).

11) Your SilaTube has hydraulic manual controls (1 & 2 Fig. 16), electrohydraulic controls for some functions (3 Fig. 16), and a remote control (Fig. 17) from which you can control the main functions. The **grey button makes the pusher move forward**. The **red button stops the pusher and returns it to its starting position**. The **yellow button makes the SilaTube turn to the left side** and the **green button to the right side**.

4

12) The control box on the SilaTube (Fig. 18) controls the following functions. From left to right, the **first button turns on the hydraulic system**. The **second button selects the pusher operation mode manual or automatic** (when the pusher moves forward and returns to its starting position automatically). The **third button moves the pusher forward or backward**. The **fourth button turns the SilaTube to the left or to the right**.

13) There are two limit switches (Fig. 19), they are used to adjust the length of travel of the pusher in automatic mode.

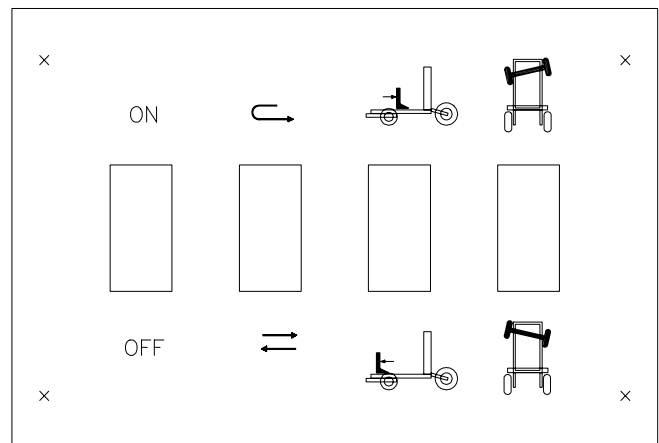


Figure 18

---

---

## ***OPERATION (cont'd)***

---



**4** Figure 19

- 14) Check the surface of the stretcher arms for smoothness. Any mark or protrusion could cause the tube to tear.

### ***GROUND PREPARATION***

- 1) Choose a dry and well drained area.
- 2) Level and clean up site where the tubes will be used.
- 3) If possible, provide a sand bed of 2" to 3" (5-8 cm.) thick. This will help reduce damage from rodents.



Figure 22



---

## OPERATION FOR SQUARE BALES (cont'd)

---

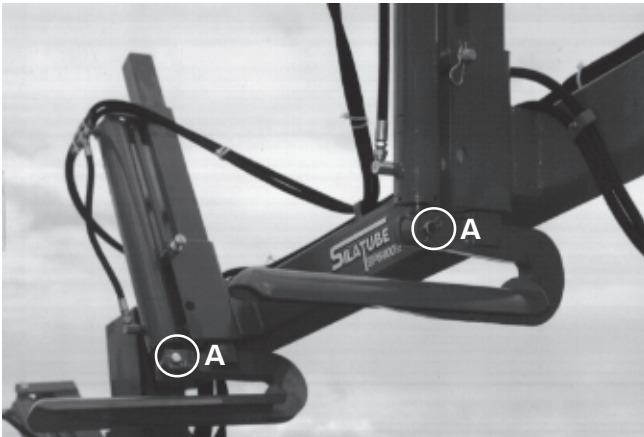


Figure 23

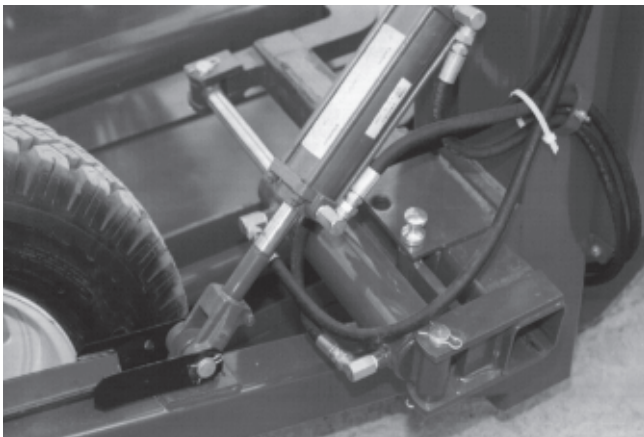


Figure 24

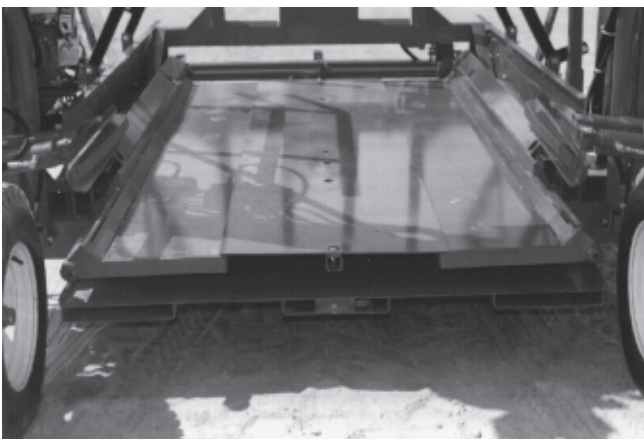


Figure 26

### SQUARE BALE TUBING

#### ADJUSTEMENT OF SILATUBE

- 1) Your SilaTube is designed to bale-tubing square silage bales. The U-shaped bale guide is adjustable from 36" to 60" (91 cm to 152 cm) width and the free height from 37" to 72" (94 cm to 183 cm).
- 2) We recommend to adjust the bales length between 60" and 63" (152 cm to 183 cm). **NEVER exceed 65" (165 cm) long** because it could cause tears to the tube. The bale will be placed crosswise to the machine. One or more stacked bales can be placed on the SilaTube but they must never **exceed 72" (183 cm) high**.
- 3) If the SilaTube is equipped with the round bale option, the upper stretcher arms (Fig. 23) must be removed to obtain the maximum free height. Take off the two clevis (A Fig. 23) and remove the stretchers. The bottom stretchers must be adjusted to the outside hole. (Fig. 24)
- 5) The U-shaped bale guide must be adjusted to its largest dimension (Fig. 26).

4

---

## OPERATION FOR SQUARE BALES (cont'd)

---

4



Fig. 27

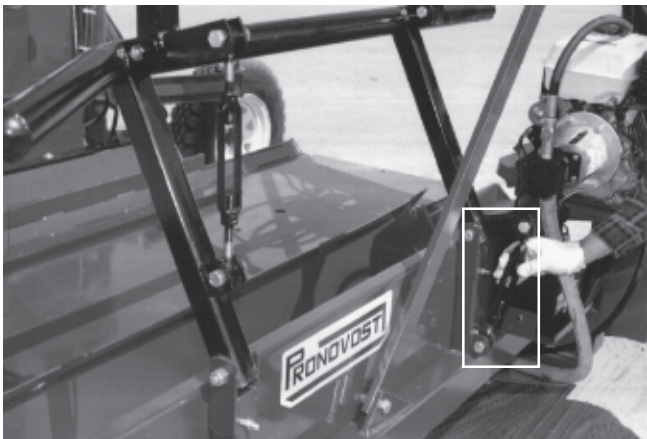


Figure 28



Figure 29

- 6) The two lateral stretchers must be adjusted to the central position as shown (Fig. 27). However it is possible to adjust them at the outside position if the bales are excessively big.
- 7) Use turnbuckles provided (Fig. 28) to adjust lower guide according to the width of the bales (Fig. 29). It is important that the bales are centered on the machine.
- 8) Use turnbuckles provided (Fig. 30) to adjust upper guide to the same dimension.
- 9) Locate the rear end of the SilaTube approximately 5' (152 cm) away from the point where you want to position the end of the tube. This will compensate if there is some slippage of the first couple of bales until there is enough ground friction to push the SilaTube forward.
- 10) The SilaTube can be operated with the tongue assembly on. If there is a risk of interference with the front of the tractor or with uneven ground, it is recommended to remove it (Fig. 31).

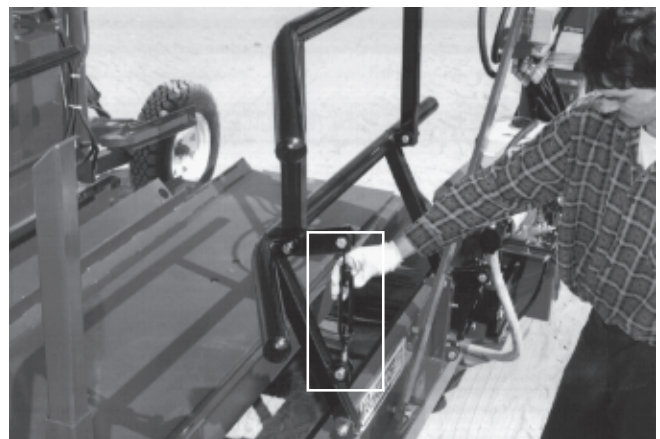


Figure 30

---

## ***OPERATION FOR SQUARE BALES (cont'd)***

---



Fig. 31

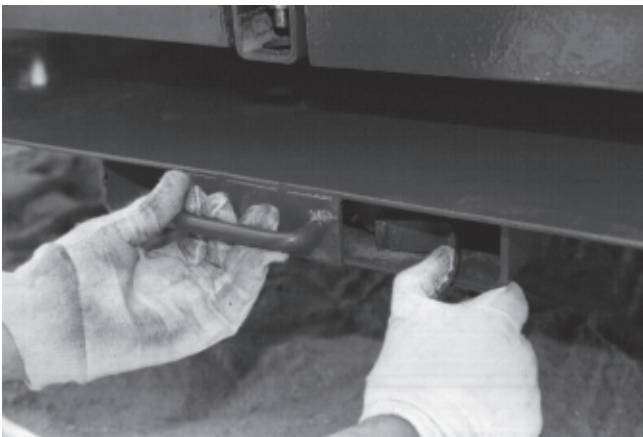


Figure 32

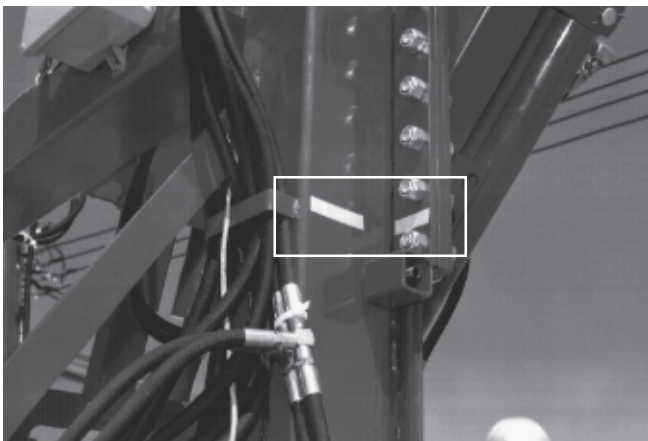


Figure 33

- 1) For maximum operating speed, you may set the engine to full throttle, although it is preferable to run it a speed closer to your rate of bale supply to machine. This will result in a more economical operation.

### **OPERATION**

- 1) Start engine.
- 2) Pull out the tube support plate (Fig. 32).
- 3) Adjust the height of the two lateral stretchers to the upper yellow mark (Fig. 33).
- 4) Remove the tube from its box, lay it flat on the ground and roll up the two ends towards center. Place the tube at the center of the support plate and unroll each side. Place it so that the tube name is facing outside when it unfolds (Fig. 34).

**4**



Figure 34



---

## *OPERATION FOR SQUARE BALES (cont'd)*

---

4



Figure 35

- 5) Close the stretcher arms to the most inward position as shown (Fig. 35 & Fig. 36) and install tube on the stretcher arms.
- 6) Slide it carefully **to the bottom** of the stretcher arms and under the U-shaped bale guide (Fig. 37).
- 7) Be careful to remove all wrinkles, since they could cause some tearing of the tube (Fig. 38).
- 8) Open the two lateral stretchers in order to apply a **slight amount of tension** to the tube (Fig. 39).



Figure 36



Figure 38



Figure 37



Figure 39



---

---

## ***OPERATION FOR SQUARE BALES (cont'd)***

---



Figure 40



Figure 41



Figure 42

- 9) If the round bales option is installed on the SilaTube, it's important to place the two bottom stretchers to avoid pressure on the plastic tube (Fig. 40). The pressure on the plastic tube is applied only when ready to operate.
- 10) Return the tube support plate to its closed position. **ATTENTION:** It is very important that you proceed to step 8 before this one because you can cause some tearing of the tube by closing the tube support plate.
- 11) Again check the tube position and eliminate any wrinkles. Next, cut off all ties as shown (Fig. 41).
- 12) Apply a light tension to the tube, pull out the outer ply of plastic for approximately 18" (45 cm) (Fig. 42) and replace it on the tip of stretchers (Fig. 43). In this way, it will be easier to pull out when it will be time to close the end of the tube.
- 13) You will finish to stretching the tube after the introduction of the first bales in the SilaTube.



Figure 43

**4**

# OPERATION FOR SQUARE BALES (cont'd)

**4**

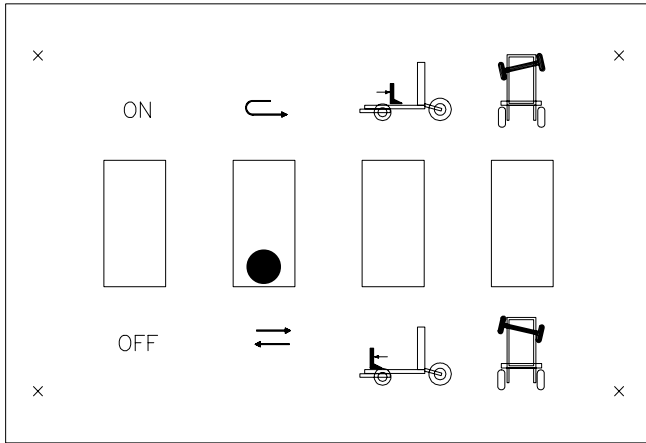


Figure 44

14) Before introducing the first bales, place the switch for the pusher on manual mode (Fig. 44).

15) A twine dispensing option is available to prevent rocking motion of the bales when they are ejected from the SilaTube. This option is useful when working with two or three bales high.

16) Pass the twine end under the retaining plate (A Fig. 45), through the ring (1 Fig. 45) and attach the twine end to the support ring on the opposite side (2 Fig. 46).

17) Verify and adjust the height of the rings. The twine must be equal with the center of the upper bale (Fig. 47).

18) The first step to stretch the tube is made by moving the stretchers upward. Place the bottom of the stretcher plate (see arrow) 3" higher (7.6 cm) than the total height of the bales (Fig. 48).

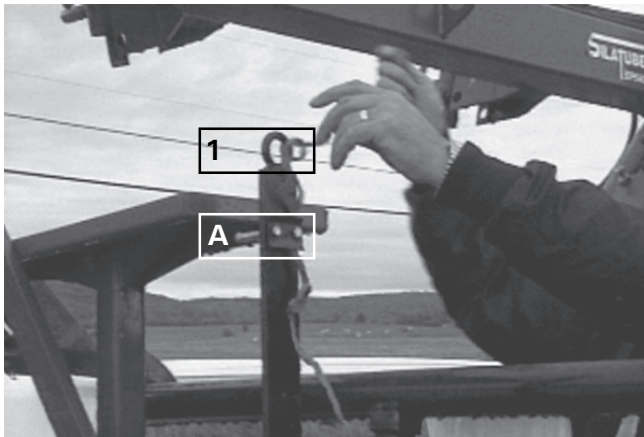


Figure 45

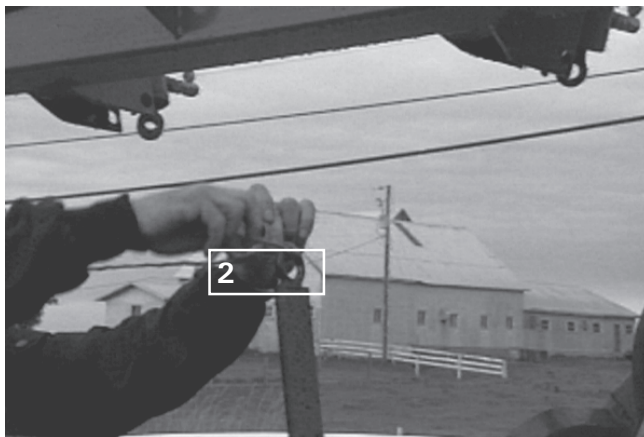


Figure 46



Figure 47

---

---

## *OPERATION FOR SQUARE BALES (cont'd)*

---



Figure 48



Figure 49



Figure 50

- 19) Second, stretch the tube enough to introduce the first stack of bales.
- 20) If needed, readjust the stretchers height (step 18).
- 21) Operate the control valve manually until the stack of bales goes beyond the stretchers ends by about 6" (15 cm) (Fig. 49).
- 22) Unhook the twine from its support (Fig. 50) and pull off the enough twine to go round the three first stacks. Cut the twine near the support and tie ends together firmly (Fig. 51).

4



Figure 51



---

## OPERATION FOR SQUARE BALES (cont'd)

---

4



Figure 52



Figure 53



Figure 54

23) **CLOSING OF THE END OF TUBE:** Let the two stretchers going inward until they touch lightly the bales (Fig. 52). In this way, the plastic will be easier to slide. Pull out enough plastic to close, and tie the tube properly as shown (Fig. 53). **Do not forget:** stretch the tube again to introduce freely the bales in the tube (Fig. 54).

24) **STRETCH THE TUBE ONLY WHEN READY TO OPERATE.** It may lose some of its capacity to retract if kept stretched for a too long period of time. If you must stop loading bales for a while, **BRING THE TUBE DOWN TO A MODERATE TENSION.**

25) Adjust rear wheels in order to have a minimum amount of ground friction with the rear end of the SilaTube while keeping it in contact with the ground (Fig. 55).

26) Push the switch for pusher mode to automatic mode.

27) It is recommended to use a double spear on your loader to place the bales onto the SilaTube.



Figure 55

---

## *OPERATION FOR SQUARE BALES (cont'd)*

---



Figure 56

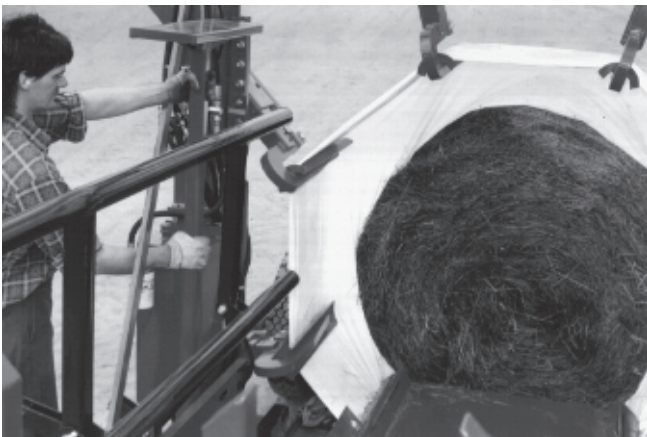


Figure 57



Figure 58

- 28) Place the required number of bale in each row before operate the pusher mechanism.
- 29) The pusher control and the steering option control can be controled from the remote control or from the control box.
- 30) After the first 8 or 10 bales, lift up lightly the rear wheels of the SilaTube to increase ground friction. This will ensure that the bales will be real tight against each other in the tube.
- 31) Towards the end of the tube, keep at least 60" (152 cm) of plastic, in order to allow for proper closure of the tube.
- 32) To push the last bale into the tube, install the pusher extension supplied with the SilaTube. Place it as shown (Fig. 56).
- 33) Push the bale with the pusher in manual mode in order to eject the last bale from SilaTube.
- 34) Remove the pusher extension and store it in it's receptacle on the right hand side of the SilaTube (Fig. 57).
- 35) Close up end of tube as previously described (Fig. 58).
- 36) Regularly inspect the tubes. If torn or punctured, repair openings with proper means.

**4**

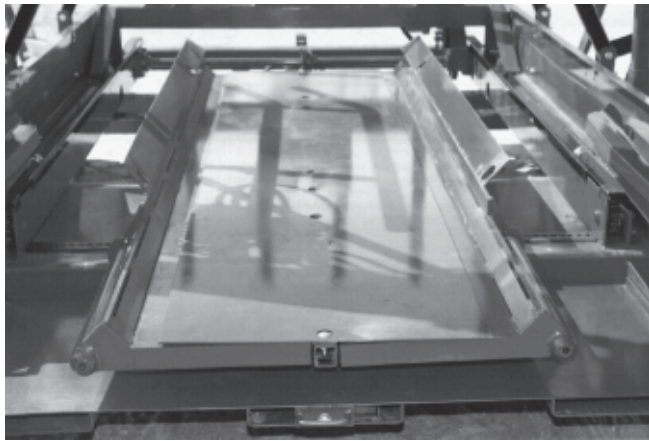
---

---

## ***OPERATION FOR ROUND BALES (cont'd)***

---

---



**4**

Figure 59

### ***ROUND BALES TUBING***

#### **ADJUSTMENT OF SILATUBE**

- 1) An optional kit is available. It allows tubing of round silage bales from 48" to 66" (122 cm to 167 cm) diameter. Follow the instructions below to make the proper adjustment.
- 2) The U-shaped bale guide must be adjusted to its minimal width (Fig. 59).
- 3) For tubing silage bales of 48" to 56" (122 cm to 142 cm).
  - 3.1 Adjust the upper stretchers to their lowest position (the clevis is not used) (Fig. 60) and install the extension as shown (Fig. 61).
  - 3.2 Adjust the lateral stretchers to the inside position (Fig. 62).
  - 3.3 Adjust the bottom stretchers to the inside position (Fig. 63).



Figure 60

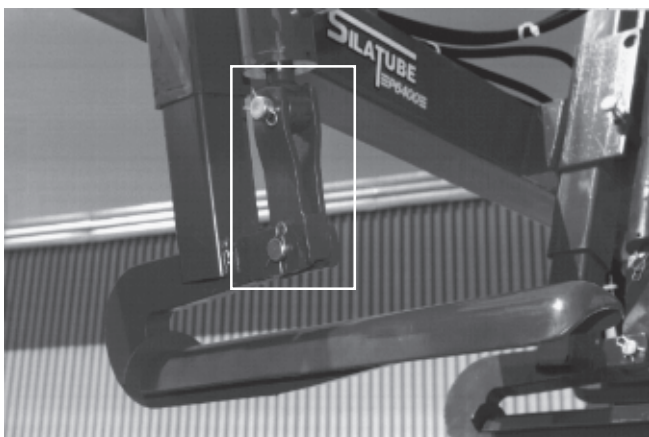


Figure 61



Figure 62



---

## OPERATION FOR ROUND BALES (cont'd)

---

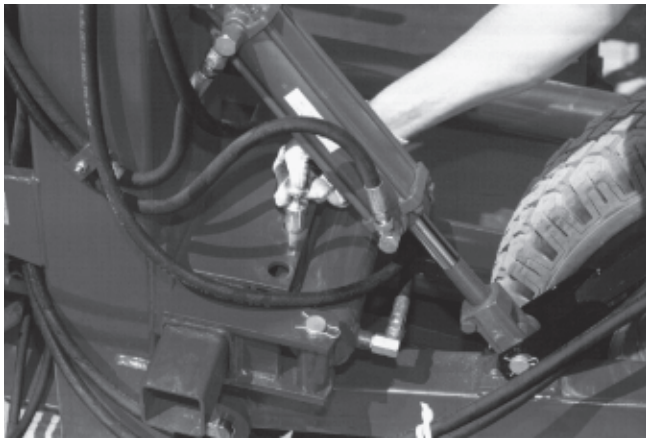


Figure 63

- 4) For tubing silage bales of 56" to 66" (142 cm to 168 cm).
  - 4.1 Adjust the upper stretchers to the lower hole (Fig. 64) and install the extension as shown (A Fig. 64).
  - 4.2 Adjust the lateral stretchers to the outside position (Fig. 65).
  - 4.3 Adjust the lower stretchers to the outside position (Fig. 66).
- 5) Use turnbuckles provided (Fig. 67) to adjust lower guide according to the width of the bales (Fig. 68). It is important that the bales are centred on the machine.

4

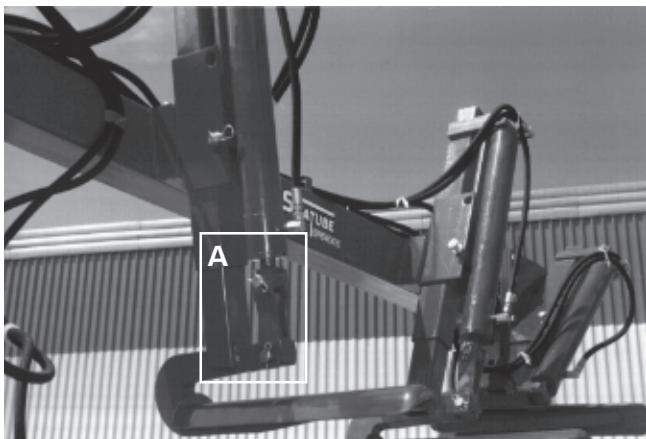


Figure 64

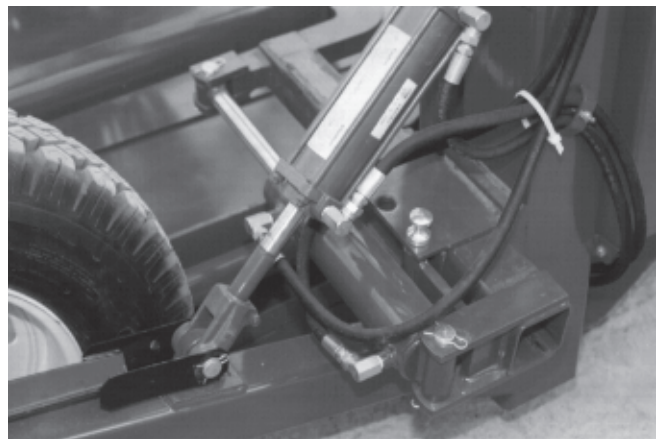


Figure 66



Figure 65

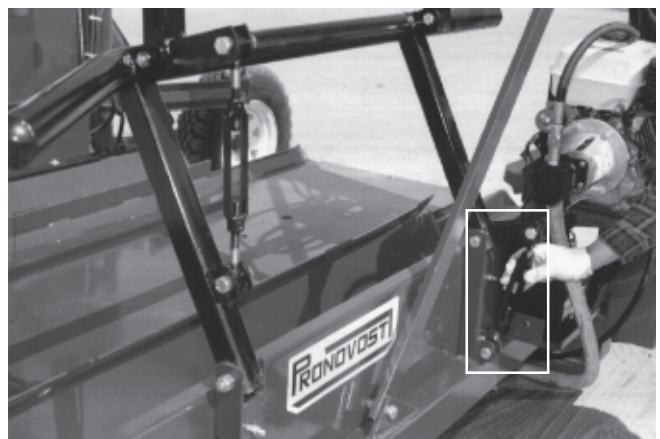


Figure 67

---

## OPERATION FOR ROUND BALES (cont'd)

---

4



Figure 68

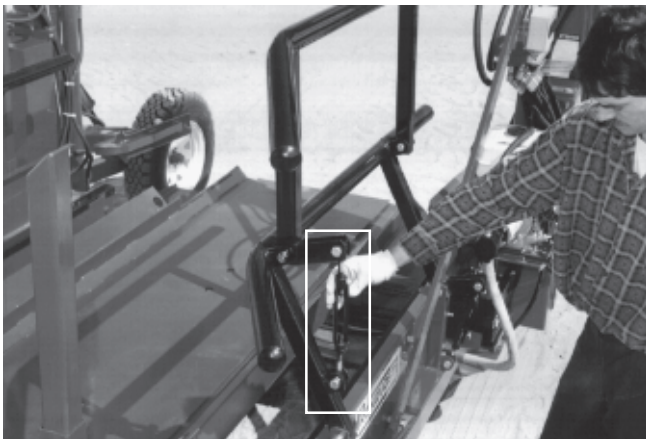


Figure 69



Figure 70

- 6) The upper guide is not useful for tubing of round silage bale. Use turnbuckles provided (Fig. 69) and adjust upper guide to a larger dimension to avoid it being an obstacle.
- 7) Locate the rear end of the SilaTube approximately 5' (152 cm) away from the point where you want to position the end of the tube. This will compensate if there is some slippage of the first couple of bales until there is enough ground friction to push the SilaTube forward.
- 8) The SilaTube can be operated with the tongue assembly on. If there is a risk of interference with the front of the tractor or with uneven ground, it is recommended to remove it (Fig. 70).
- 9) For maximum operating speed, you may set the engine to full throttle, although it is preferable to run it a speed closer to your rate of bale supply to machine. This will result in a more economical operation.



---

## OPERATION FOR ROUND BALES (cont'd)

---



Figure 71



Figure 72



Figure 73

### OPERATION

- 1) Start engine.
- 2) Pull out the tube support plate (Fig. 71).
- 3) Adjust the height of the two lateral stretchers to the lower yellow mark (Fig. 72).
- 4) Place all the stretchers to their inward position.
- 5) Remove the tube from its box, lay it flat on the ground. Place your forearm at the center of the tube to manipulate it (Fig. 73).
- 6) Install the tube on the stretchers arms. Slide it carefully to the bottom of the stretcher arms, being careful to remove all wrinkles, since they could cause some tearing of the tube (Fig. 74). Place it so that the tube name is facing outside when it unfolds.
- 7) Open each pair of stretcher arms to apply a light tension to the tube, giving it a shape that resembles of a bale.
- 8) Return the tube support plate to its closed position. **WARNING:** It is very important that you proceed to step 7 before this one because you can cause some tearing of the tube by closing the tube support plate.

4



Figure 74

## OPERATION FOR ROUND BALES (cont'd)

4

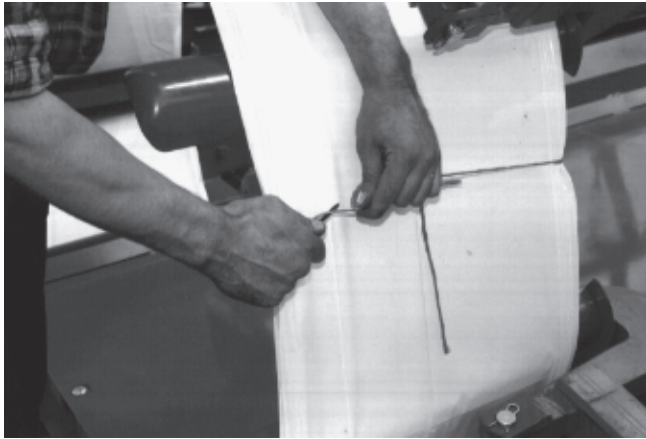


Figure 75



Figure 76



Figure 77

- 9) Again check the tube position and eliminate any wrinkles. Next, cut off all ties as shown (Fig. 75).
- 10) Now it's time to close the end of the tube. Pull out the outer ply of the plastic tube. Pull about 36" (91 cm) and close properly the tube as shown (Fig. 76 et Fig. 77).
- 11) **STRETCH THE TUBE ONLY WHEN READY TO OPERATE.** It may lose some of its capacity to retract if kept stretched for a too long period of time. If you must stop loading bales for a while, **BRING THE TUBE DOWN TO A MODERATE TENSION.**
- 12) Before loading the first bale, place the switch for pusher mode to manual mode (Fig. 78).
- 13) Load the first bale on the machine, operate the control valve manually until the bale approaches the arms and stop it there.
- 14) Stretch the tube by operating the three valves **SIMULTANEOUSLY** (Fig. 79) to obtain a **CLEARANCE OF APPROXIMATELY 2" to 3"** (5 cm to 7.6 cm) between the bale and the tube (Fig. 80). Readjust stretcher arms individually if necessary.

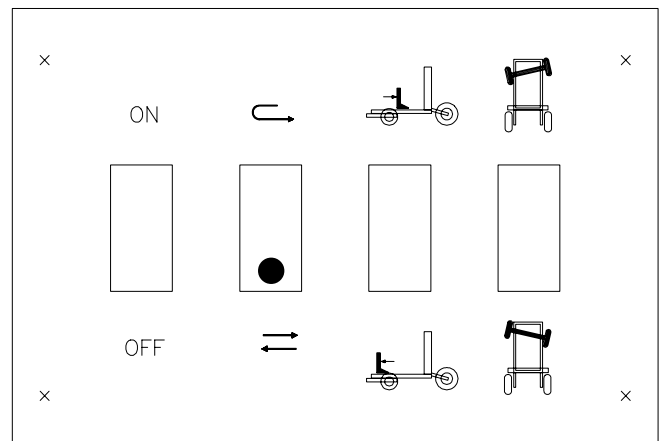


Figure 78

---

## ***OPERATION FOR ROUND BALES (cont'd)***

---

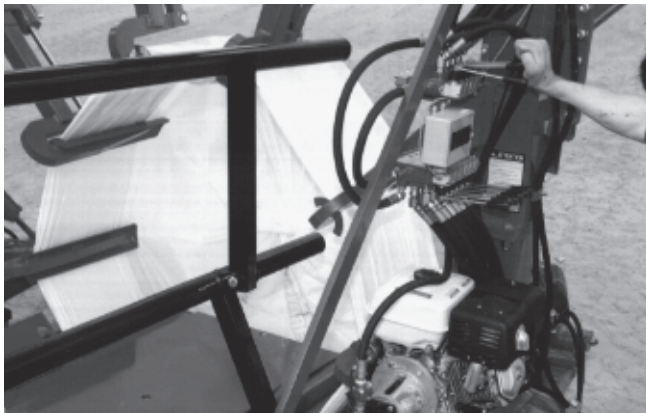


Figure 79



Figure 80



Figure 81

- 15) Adjust rear wheels in order to have a minimum amount of ground friction with the rear end of the SilaTube while keeping it in contact with the ground (Fig. 81).
- 16) Place the switch for pusher mode to automatic mode.
- 17) It is recommended to use a double spear on your loader to place the bales onto the SilaTube.
- 18) After the first 4 or 5 bales, lift up lightly the rear wheels of the SilaTube to increase ground friction. This will ensure that the bales will be real tight against each other in the tube.
- 19) Towards the end of the tube, watch the plastic quantity on the stretcher arms. Keep at least 36" (91 cm) of plastic for 4' (122 cm) bales and a bit more for 5' (152 cm) bales in order to allow for proper closure of the tube.
- 20) To push the last bale into the tube, install the pusher extension supplied with the SilaTube (Fig. 82).

**4**



Figure 82

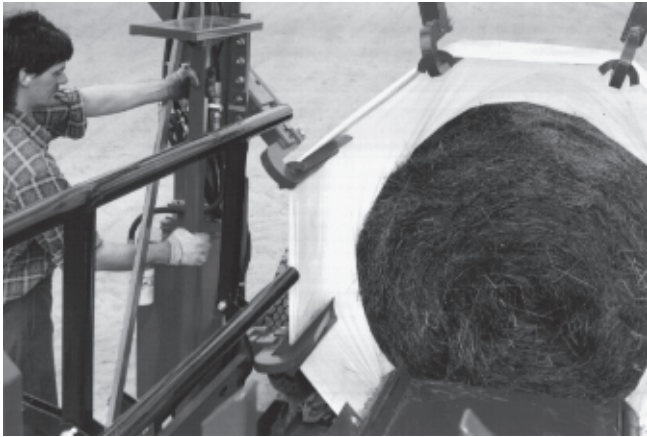


---

---

## *OPERATION FOR ROUND BALES (cont'd)*

---



**4** Figure 83

- 21) Push the bale with the pusher in manual mode in order to eject the last bale from SilaTube.
- 22) Remove the pusher extension and store it in its receptacle on the right hand side of the SilaTube (Fig. 83).
- 23) Close up end of tube as previously described (Fig. 84).
- 24) Regularly inspect the tubes. If torn or punctured, repair openings with proper means.



Figure 84

---

---

## ***MAINTENANCE***

---

- 1) Refer to the manufacturer's instructions for the engine.
- 2) Use a high quality lithium base grease containing molybdenum disulfide ( $\text{MoS}_2$ ) such as «Esso Unirex EP1 Moly», «DARINA XL-Multi Season Moly, Grade #1» from Shell or equivalent.
- 3) Wipe off all grease fittings with a clean cloth before adding grease in order to avoid injecting dirt or sand.
- 4) Repair or replace damaged grease fittings.
- 5) Lubricate stretcher arms guides every 20 hours of operation.
- 6) Lubricate all grease fittings every 20 hours of operation.
- 7) Open, clean and lubricate wheel bearings once a year.
- 8) Check oil level in hydraulic reservoir every 20 hours of operation. If necessary add good quality trans hydraulic oil such as «Trans Hydraulic Duratran» from Petro-Canada, «DONAX TD» from Shell or equivalent.
- 9) Change oil filter after the first 50 hours of operation and then every 250 hours. Use replacement filter no. K-22001, PRONOVOST part No. 32007.
- 10) Check all nuts and bolts once a year. If necessary use torque chart on page 56.
- 11) Check all bolts on wheels after first 5 hours of operation and then every 50 hours.
- 12) Check tire pressure every 50 hours. Adjust according to manufacturer's recommendation indicated on the tires.

---

---

## ***STORAGE***

---

- 1) Store the SilaTube in a cool, dry place.
- 2) Lower the SilaTube frame on wooden blocks.
- 3) Keep tires off the ground and cover them if left exposed to the sun.
- 4) Keep all piston rods in the retracted position. This will assure better protection against the elements.
- 5) Clean your SilaTube.
- 6) Touch-up or repaint if necessary.
- 7) Lubricate all points before storage.
- 8) Drain all fuel from tank and follow engine manufacturer's storage recommendations.

# SPECIFICATIONS

SilaTube model	P-6400
Overall length at work	150" (4.71 m) (without the 28" (71 cm) tongue)
Overall length in transport	150" (4.71 m) (without the 28" (71 cm) tongue)
Overall width at work	105" (267 cm) (motor in transport position)
Overall width in transport	105" (267 cm) (motor in transport position)
Overall height in transport	114" (289 cm) (wheels in transport position)
Round bales diameter	48" to 66" (122 cm to 168 cm) diameter
Square bales height	37" to 72" (939 cm to 1828 cm)
Square bales width	36" to 60" (914 cm to 1524 cm)
Engine	HONDA 20 HP
Electric starting	Standard
Double hyd. pump	15 gal. at 2800 psi
Front hub	cap. 2500 lbs (1136 kg) 5 bolts
Rear hub	cap. 2500 lbs (1136 kg) 5 bolts
Front rim	10" x 6" - 5 bolts
Rear rim	15" x 6" - 5 bolts
Front tires	20.5" x 8" x 10" - 4 plys (with tube)
Rear tires	7.6" x 15" - 6 plys
Oil tank capacity	13 gal US (10.83 gal imp) (49.17 liters)
Hyd. steering adjustment	Standard
Working lights	Standard
Road lights	Standard
Motorized moving kit	Option
Hitch weight	2740 lbs (1245 kg) app.
Total weight	6340 lbs (2881 kg) app.

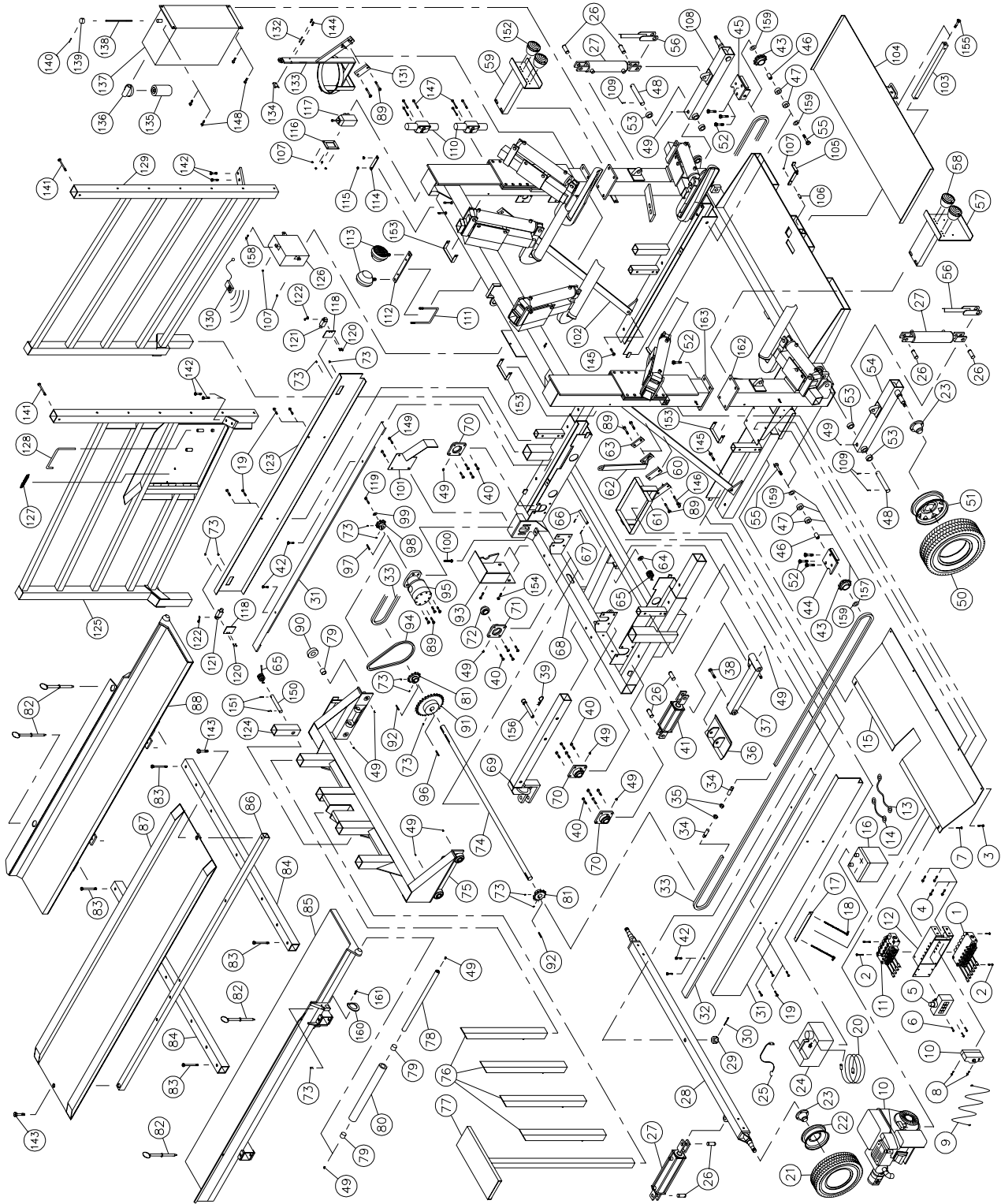
Design and specifications subject to change without notice.

## PLASTIC TUBES TO USE ACCORDING TO BALES DIMENSIONS

Round bales	For bales 48" to 56" (1.22 to 1.42 m) diameter	73½" (1.87 m) lay flat
Round bales	For bales 56" to 66" (1.42 to 1.68 m) diameter	86" (2.18 m) lay flat
<b>Square bales</b>	<b>Bales height + Bales width = Half-perimeter</b>	
Square bales	For half-perimeter 88" to 104" (2.24 to 2.64 m)	86" (2.18 m) lay flat
Square bales	For half-perimeter 102" to 120" (2.59 to 3.05 m)	100" (2.54 m) lay flat
Square bales	For half-perimeter 115" to 136" (2.92 to 3.54 m)	113" (2.87 m) lay flat

# SILATUBE P-6400 ASSEMBLY

170-01151





## SILATUBE P-6400 ASSEMBLY (cont'd)

REF.	PART #	DESCRIPTION	QTY
1	640-60001	Control valve 6 spool .....	1
2	Std.	Bolt 5/16" NC x 2 1/2" lg. + nylon locknut .....	4
3	Std.	Bolt 7/16" NC x 1 1/4" lg. + nylon locknut .....	5
4	Std.	Bolt 3/8" NC x 1" lg. + nylon locknut .....	4
5	32245	Sealed box for manual control .....	1
6	Std.	Bolt 1/4" NC x 3/4" lg. + nylon locknut .....	3
7	Std.	Bolt 1/2" NC x 5 1/2" lg. + nylon locknut & 2 flat washer 1/2" .....	2
8	Std.	Bolt 10 - 24 x 3/4" lg. + nylon locknut .....	2
9	32265	Electric starter cable .....	1
10	32266	Motor HONDA 20 HP + box for electric starter control .....	1
11	640-40001	Control valve 4 spool .....	1
12	110-04331	Valves support .....	1
13	A 30 - 4	Battery cable 4G x 30" lg. ....	1
14	A 10 - 4	Battery cable 4G x 10" lg. ....	1
15	130-04461	Under frame protector .....	1
16	Std.	Battery 12 V - 540 amp. ....	1
17	130-05751	Battery hold down .....	1
18	110-04841	Threaded rod for battery hold down + nylon locknut 3/8" NC et 7/16" NC .....	2
19	Std.	Bolts 7/16" NC x 2 3/4" lg. + nylon locknut & flat washer 7/16" .....	8
20	190-01661	Gasoline hose 5/16 i.d. + quick coupler .....	1
21	PN-20.58	Tire 20.5 x 8 x 10 - 4 plys .....	2
22	R-1065	Rim 10 x 6 x 5 .....	2
23	32218	Hub H-2500 .....	4
24	32267	Gasoline tank + quick coupler .....	1
25	825-150	Rubber band 15" .....	1
26	Std.	Pin 1" dia. x 3" lg. + 2 hairpin cotter .....	8
27	25 TR 08	Cylinder .....	3
28	110-03991	Front axle assembly P-6400 .....	1
29	Std.	Castle nut 1" NC x 3/4" Ep. ....	1
30	Std.	Cotter pin 5/32" dia. x 2" lg. ....	1
31	130-05001	Left side lateral protector .....	1
32	130-04431	Bale ram drive chain protector .....	2
33	190-01211	Bale ram drive chain # 80 x 179" lg. ....	2
34	190-01191	Adjustment for bale ram drive chain .....	4
35	Std.	Nut 1" NC .....	4
36	32115	Base, hydraulic jack .....	1
37	110-01801	Body, hydraulic jack .....	1
38	32117	Pin for hydraulic jack base .....	1
39	Std.	Hitch pin clip .....	1
40	Std.	Bolts 1/2" NC x 1 1/2" lg. + nylon locknut .....	16
41	30 TR 04	Cylinder .....	1
42	Std.	Bolts 7/16" NC x 3/4" lg. + flat washer & lock washer .....	4
43	190-02001	Pinion # 80 C 12 .....	2
44	110-06721	Left pinion support .....	1
45	110-06711	Right pinion support .....	1
46	160-02791	Bushing .....	2
47	3205A-2Z	Bearing .....	4
48	32093	Pin for rear axle P-6400 .....	2
49	Std.	Grease fitting 1/4" - 28 straight .....	15
50	PN-7.0015RT	Tire 7.00 x 15 .....	2
51	R-1575RT	Rim 15 x 7 x 5 .....	2
52	Std.	Bolt 5/8" NC x 2 1/2" lg. + nylon locknut .....	14
53	32094	Spacer 1/2" thick .....	4
54	110-03441	Left rear axle .....	1
55	Std.	Bolts 3/4" NC x 3 1/2" lg. + nylon locknut thin .....	2

## SILATUBE P-6400 ASSEMBLY (cont'd)

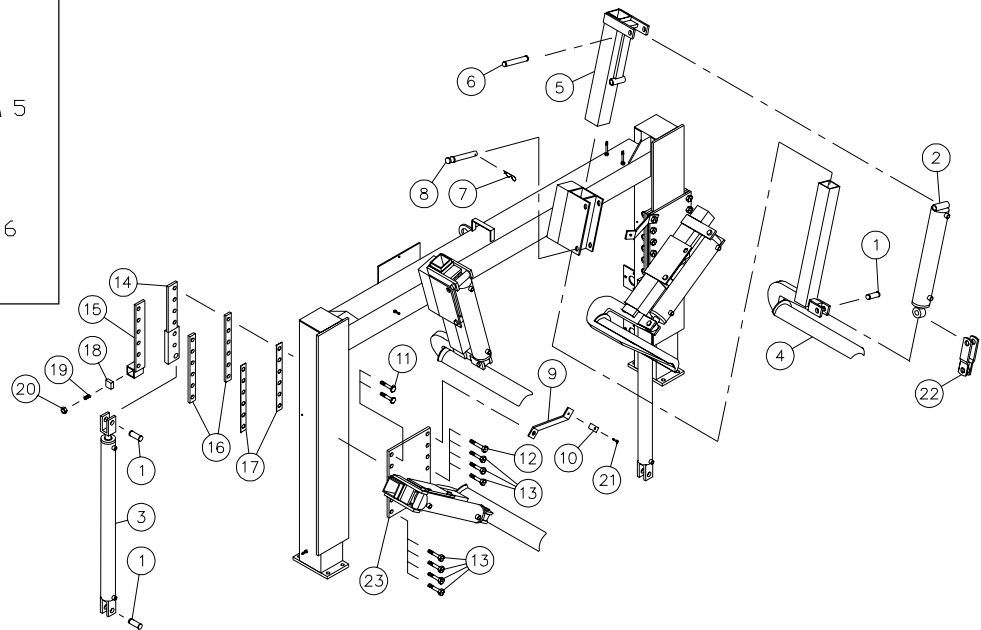
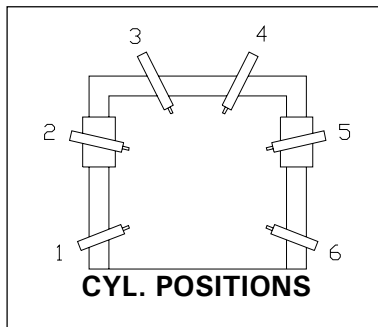
REF.	PART #	DESCRIPTION	QTY
56	32108	Safety locking mechanism for rear wheels .....	2
57	110-03511	Left support for flashers .....	1
58	32228	Left flasher with license plate light .....	2
59	110-03501	Right support for flashers .....	1
60	140-04641	Back plate - Gas tank holder .....	1
61	110-06391	Gas tank holder .....	1
62	110-04671	Twine dispenser .....	1
63	140-03451	Back plate - twine holder .....	1
64	Std.	Flat washer 1" .....	1
65	32123	Torsion spring .....	1
66	32118	Pin for hydraulic jack .....	1
67	Std.	Cotter pin 3/16" dia. x 2" lg. ....	2
68	120-01031	Main frame for P-6400 (front base) .....	1
69	32199	Drawbar .....	1
70	9277	Bearing 1 1/2" + flange .....	4
71	9410	Cast iron flange .....	-
72	9409	Bearing 1 1/2" UC208-24 .....	-
73	Std.	Set screw 3/8" NC x 3/8" lg. ....	14
74	150-00961	Power take off for bale ram .....	1
75	120-00431	Bale ram .....	1
76	110-04001	Bale ram extension .....	4
77	32124	Ram extension .....	1
78	150-00951	Shaft for bale guide roller .....	2
79	160-00811	Bushing .....	8
80	160-02701	Roller for u-shaped bale guide .....	2
81	32268	Pinion 80 B 11 (front of the bale ram) .....	2
82	110-04141	Pin for u-shaped bale guide (without hydraulic) .....	4
83	Std.	Bolt 5/8" NC x 5 1/2" lg. + nylon locknut .....	4
84	160-01491	Slide for u-shaped bale guide .....	2
85	120-00771	Left part of the u-shaped bale guide .....	1
86	160-02451	Support for the central part of the u-shaped bale guide .....	1
87	110-07021	Central part of the u-shaped bale guide .....	1
88	120-00781	Right part of the u-shaped bale guide .....	1
89	Std.	Bolt 1/2" NC x 2 1/2" lg. + nylon locknut .....	10
90	130-00591	Bale ram carriage wheel .....	4
91	32269	Sprocket 80 B 28 .....	1
92	140-04931	Key 3/8" x 3/8" x 1 3/4" lg. ....	2
93	110-06201	Front guard for bale ram hydraulic motor .....	1
94	190-01801	Chain # 80 x 35" lg. ....	1
95	32361	Bale ram hydraulic motor .....	1
96	140-04941	Key 3/8" x 3/8" x 2 1/8" lg. ....	1
97	140-04851	Key 1/4" x 1/4" x 1 1/16" lg. ....	1
98	32270	Pinion 80 B 09 for bale ram hydraulic motor .....	1
99	130-07401	Flat washer .....	1
100	110-04121	Adjustment for bale ram hydraulic motor .....	1
101	110-03941	Side guard for bale ram hydraulic motor .....	1
102	140-02851	Arch brace .....	2
103	110-04061	Drawer guide .....	1
104	110-04071	Drawer .....	1
105	110-04091	Drawer lock .....	1
106	32130	Compression spring .....	1
107	Std.	Nylon locknut 1/4" NC .....	1
108	110-03451	Right rear axle .....	1
109	CP0315	Cotter pin 5/32" dia. x 1 1/2" lg. ....	4
110	18019	Solenoid valves .....	2
111	150-00971	"U" bolts 3/8" NC + 2 nylon locknut .....	1

## SILATUBE P-6400 ASSEMBLY (cont'd)

REF.	PART #	DESCRIPTION	QTY
112	140-02901	Working lights retaining plate .....	1
113	110-04781	Working lights .....	2
114	140-05121	Hydraulic hoses retaining plate .....	1
115	Std.	Nut 5/16" NC .....	2
116	130-07881	Relief valve retaining plate .....	1
117	32263	Relief valve .....	1
118	130-05031	Stopper support .....	2
119	Std.	Bolt 5/16" NC x 1" lg. ....	1
120	Std.	Hexagonal socket set screw 10-24 x 1 1/2" lg. + nylon locknut .....	4
121	32254	Stopper .....	2
122	32271	Limit switch trip tab .....	2
123	110-03951	Right side lateral protector .....	1
124	32121	Bascule de l'extracteur .....	1
125	110-06351	Left guide .....	1
126	32253	Main sealed box .....	1
127	32272	Tension spring 3/4" dia. x 4 1/2" lg. ....	1
128	150-01321	Lock for motor guard .....	1
129	110-03941	Right guide .....	1
130	32255	Remote control 4 channels .....	1
131	140-03521	Reel retaining plate .....	1
132	32130	Compression spring 13/32" dia. x 1 1/2" lg. ....	2
133	110-04641	Reel .....	1
134	130-07131	Twine retaining plate .....	1
135	32007	Oil filter K-22001 .....	1
136	32031	Oil filter adaptor .....	1
137	110-06631	Oil tank .....	1
138	32030	Dip stick .....	1
139	32029	Oil reservoir cap .....	1
140	Std.	Roll pin 5/32" dia. x 1 3/4" lg. ....	1
141	Std.	Bolt 1/2" NC x 4 1/2" lg. + nylon locknut .....	2
142	Std.	Bolt 5/8" NC x 2 1/2" lg. + nylon locknut & flat washer .....	4
143	Std.	Carriage bolt 1/2" NC x 1 1/2" lg. + nylon locknut .....	2
144	Std.	Bolt 1/4" NC x 2" lg. + nylon locknut .....	1
145	Std.	Bolt 3/4" NC x 2 1/2" lg. + nylon locknut .....	4
146	110-11211	Bolt with ring 1/2" NC x 2 1/2" lg. + nylon locknut .....	1
147	Std.	Bolt 3/8" NC x 3 1/2" lg. + nylon locknut .....	6
148	Std.	Bolt 7/16" NC x 1" lg. + nylon locknut .....	4
149	Std.	Bolt 5/16" NC x 3/4" lg. + nylon locknut .....	3
150	32122	Pin for ram extension .....	1
151	Std.	Cotter pin 3/16" dia. x 1 3/4" lg. ....	2
152	32229	Right flashers .....	2
153	140-00981	Retaining bracket for hoses and cables + 2 bolts 1/4" NF x 1/2" lg. ....	3
154	Std.	Bolt 1/2" NC x 5" lg. + nylon locknut .....	2
155	Std.	Bolt 5/8" NC x 1" lg. ....	1
156	32024	Lock for drawbar .....	1
157	110-06221	Pinion # 80 C 12 + 2 bearing + 2 flat washer + bushing .....	-
158	Std.	Bolt 1/4" NC x 1" lg. + nylon locknut .....	1
159	130-06991	Flat washer .....	4
160	130-04921	Plate for u-shaped bale guide .....	2
161	Std.	Bolt 1/4" NC x 2" lg. + nylon locknut & 5 flat washer 5/16" .....	2
162	120-00791	Main frame for P-6400 (back base) .....	1
163	120-01801	Main frame for P-6400 (arch) .....	1

# DETAIL OF ARCH P-6400

170-01651

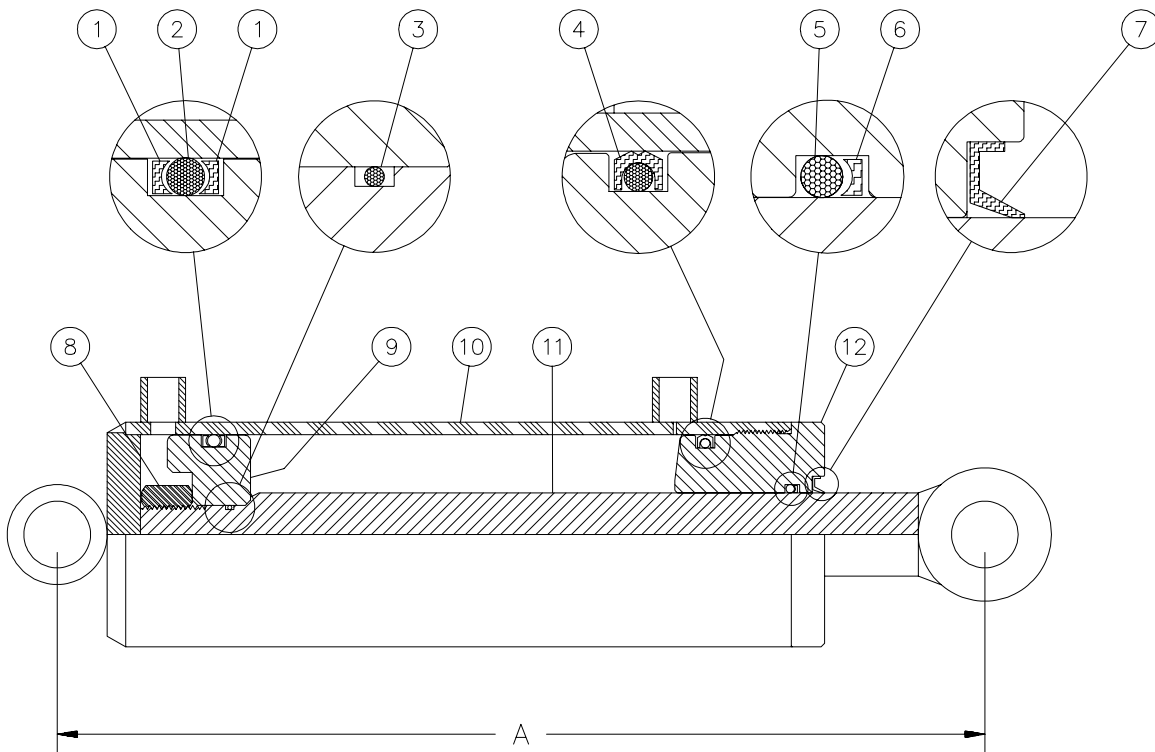


REF.	PART #	DESCRIPTION	QTY POSTE #					
			1	2	3	4	5	6
			*	*	*	*	*	*
1	Std.	Pin 1" x 3" lg + 2 hairpin cotter 1/8" .....	1	1	1	1	1	1
2	30H10	Cylinder .....	1	-	-	-	-	1
2	30H23	Cylinder .....	-	1	1	1	1	-
3	25E35	Cylinder .....	-	2	2	2	2	-
4	110-04051	Stretcher arm .....	-	1	1	1	1	-
4	32156	Stretcher arm .....	1	-	-	-	-	1
5	32157	Stretcher arm guide .....	1	-	-	-	-	1
5	110-04041	Stretcher arm guide .....	-	1	1	1	1	-
6	32160	Pin 1" x 5" lg .....	1	1	1	1	1	1
7	Std.	Hitch pin clip 3/16" .....	1	1	1	1	1	1
8	32161	Pin 1" x 5 1/4" lg .....	1	1	1	1	1	1
9	140-05201	Hoses support .....	-	1	-	-	1	-
10	8295	Plaque de maintien des boyaux .....	-	1	-	-	1	-
11	190-01611	Bolt à tête mince 3/4" NC x 2 1/2" lg + nylon locknut .....	2	-	-	2	-	-
12	Std.	Bolt 3/4" NC x 2 3/4" lg + nylon locknut .....	-	1	-	-	1	-
13	Std.	Bolt 3/4" NC x 2 1/2" lg + nylon locknut .....	-	7	-	-	7	-
14	110-03681	Maintaining plate (right side) .....	-	-	-	-	1	-
14	110-03691	Maintaining plate (left side) .....	-	1	-	-	-	-
15	110-04222	Plate with stopper (right side) .....	-	-	-	-	1	-
15	110-04221	Plate with stopper (left side) .....	-	1	-	-	-	-
16	140-02751	Spacer 1/2" thick .....	-	2	-	-	2	-
17	130-04991	Spacer 0.0598" thick (16G) .....	-	2	-	-	2	-
18	190-01171	Stopper .....	-	1	-	-	1	-
19	Std.	Set screw 3/4" NC x 1 3/4" lg .....	-	1	-	-	1	-
20	Std.	Nut 3/4" NC .....	-	1	-	-	1	-
21	Std.	Bolt 5/16" NC x 2" lg + nylon locknut .....	-	1	-	-	1	-
22	110-11001	Small bag adaptor for round bales option .....	-	-	opt.	opt.	-	-
23	110-03661	Mobile stretcher arm (left) .....	-	1	-	-	-	-
23	110-03671	Mobile stretcher arm (right) .....	-	-	-	-	1	-

\* These stretcher arms are included with the round bales option.

# ARCH CYLINDER P-6400

15102



MODEL	LENGTH A
30H10	16 3/4"
30H23	29 3/4"

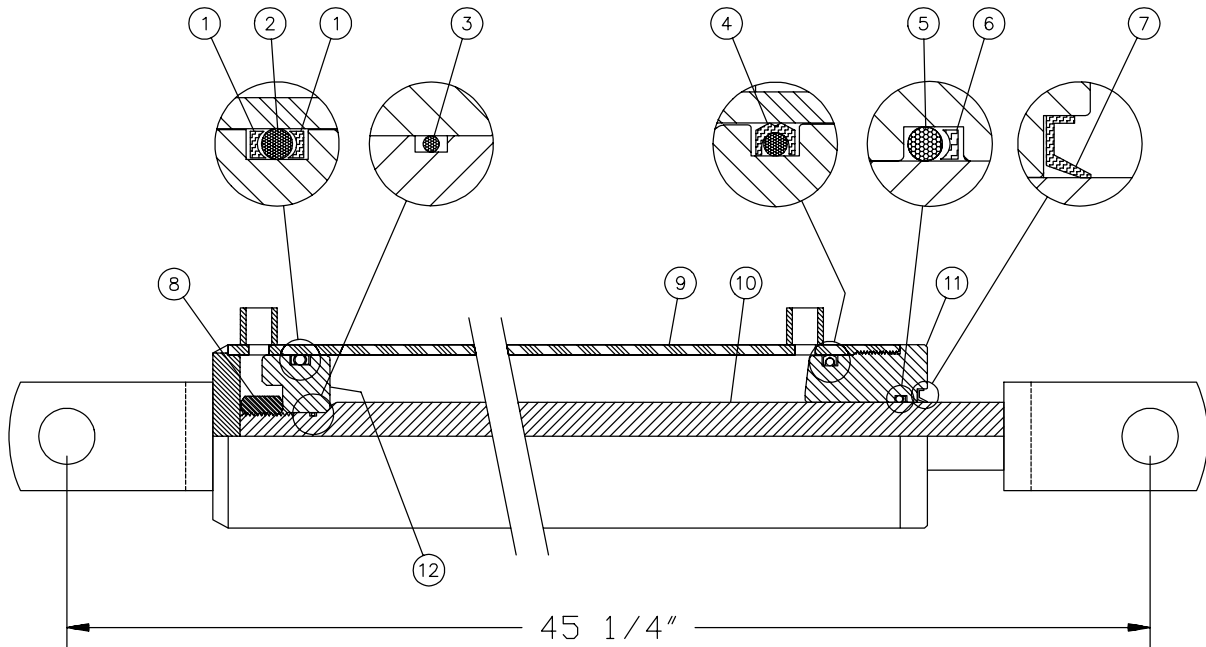
REF.	PART #	DESCRIPTION	QTY CYLINDER #	
			30H10	30H23
1	BU-334	Back-up ring 3/16" x 2 5/8" x 3" .....	2	2
2	OR-334	O-ring 3/16" x 2 5/8" x 3" .....	2	2
3	OR-018	O-ring 1/16" x 3/4" x 7/8" .....	1	1
4	PSP-334	O-ring "heavy duty" 3/16" x 2 5/8" x 3" .....	1	1
5	OR-218	O-ring 1/8" x 1 1/4" x 1 1/2" .....	1	1
6	BU-218	Back-up ring 1/8" x 1 1/4" x 1 1/2" .....	1	1
7	CR12330	Wiper 1/8" x 1 1/4" x 1 1/2" .....	1	1
8	Std.	Nut 7/8" NF .....	1	1
9	D-6000	Piston 3" dia. ....	1	1
10	D-6168	Cylinder body 3" for 30H10 .....	1	-
10	110-03541	Cylinder body 3" for 30H23 .....	-	1
11	D-6099	Piston rod 1 1/4" for 30H10 .....	1	-
11	110-03531	Piston rod 1 1/4" for 30H23 .....	-	1
12	D-6093	Head 3" dia. ....	1	1
NI*	32204	Repair kit for cylinder 3" (includes # 1, 2, 3, 4, 5, 6, & 7) .....	1	1

\*NI = NOT ILLUSTRATED

**8**

# LATERAL CYLINDER # 25E35

170-00391



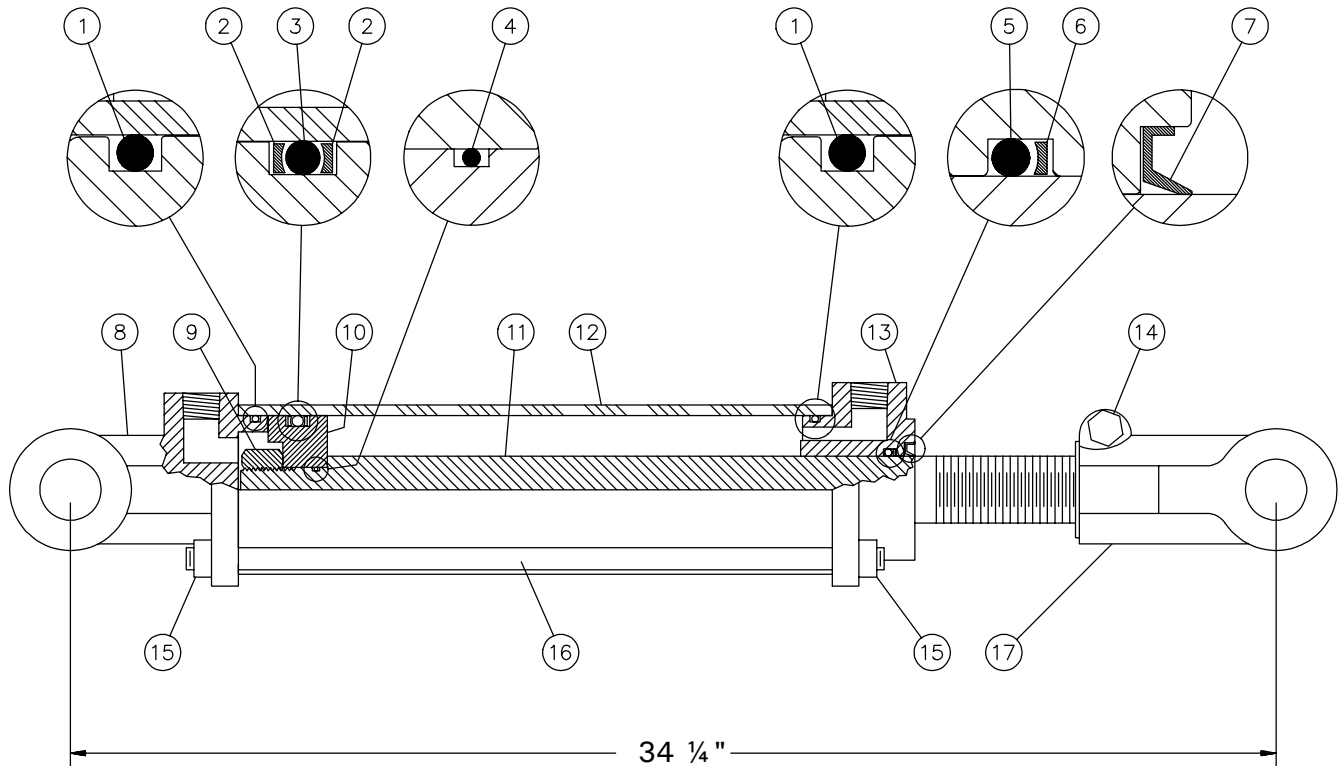
REF.	PART #	DESCRIPTION	QTY
1	BU-330	Back-up 3/16" x 2 1/8" x 2 1/2" .....	2
2	OR-330	O-ring 3/16" x 2 1/8" x 2 1/2" .....	1
3	OR-018	O-ring 1/16" x 3/4" x 7/8" .....	1
4	PSP-330	O-ring "heavy duty" 3/16" x 2 1/8" x 2 1/2" .....	1
5	OR-224	O-ring 1/8" x 1 3/4" x 2" .....	1
6	BU-224	Back-up 1/8" x 1 3/4" x 2" .....	1
7	CR17240	Wiper .....	1
8	338-48000	Nut 7/8" - 14 .....	1
9	110-03561	Cylinder body 2 1/2" dia. for 25E35 .....	1
10	110-03551	Piston rod 1 3/4" dia. for 25E35 .....	1
11	150-01161	Head 2 1/2" dia. ....	1
12	150-01151	Piston 2 1/2" dia. ....	1
NI*	32244	Repair kit for cylinder (includes # 1 à 7) .....	1

\*NI = NOT ILLUSTRATED

8

# CYLINDER 20TR24

15050



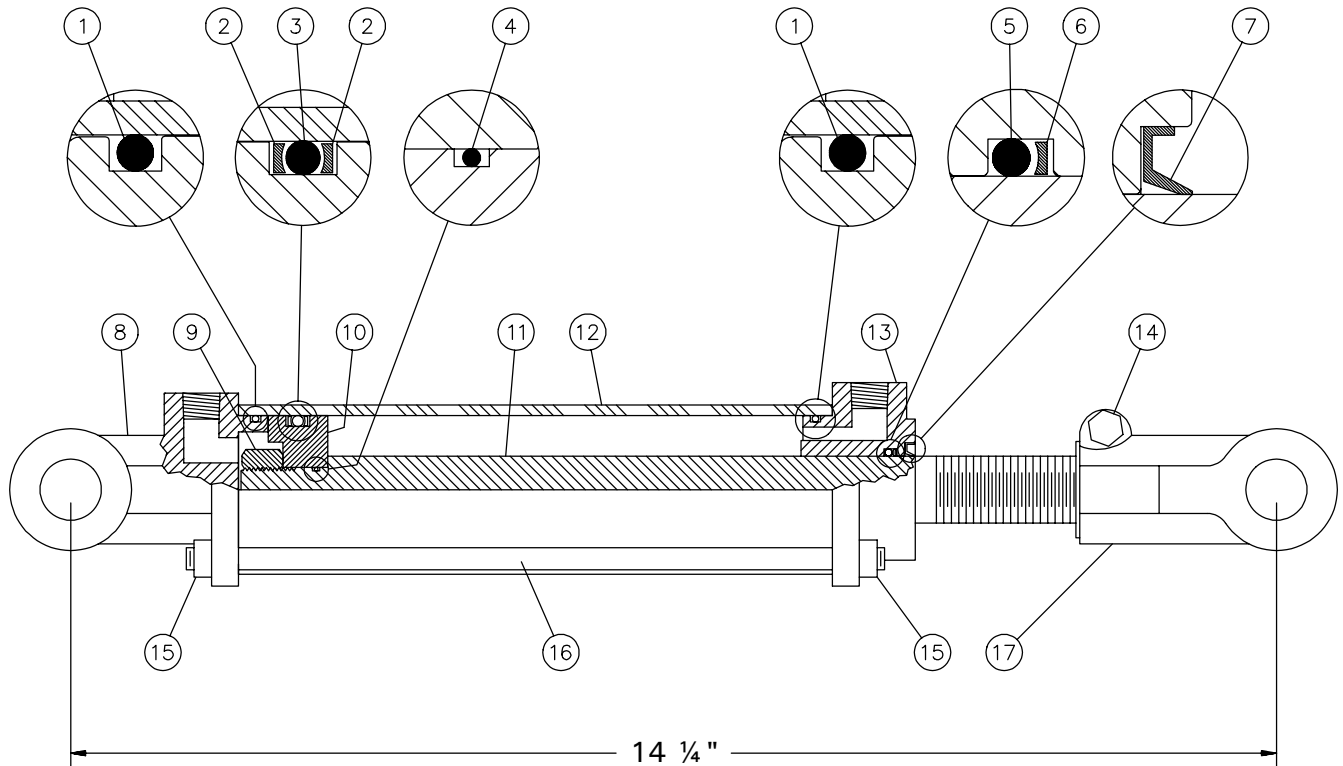
REF.	PART #	DESCRIPTION	QTY
1	See RK20TR	O-ring 3/32" x 1 13/16" x 2" .....	2
2	See RK20TR	Back-up 2" o.d. x 1/8" ø.....	2
3	See RK20TR	O-ring 3/16" x 1 5/8" x 2" .....	1
4	See RK20TR	O-ring 1/16" x 5/8" x 3/4" .....	1
5	See RK20TR	O-ring 1/8" x 1 1/8" x 1 3/8" .....	1
6	See RK20TR	Back-up 1 3/8" o.d. x 1/8" ø .....	1
7	See RK20TR	Wiper 1 1/8" i.d. x 1 5/8" o.d. ....	1
8	492400	Yoke (for 2" tube) .....	1
9	Std.	Nut 3/4" NF .....	1
10	4924-30	Piston 2" ø .....	1
11	491980-24	Piston rod 1 1/8" .....	1
12	491608-24	Cylinder body 2" ø .....	1
13	492420	Head (for 2" tube).....	1
14	Std.	Bolt 3/8" NC x 2 1/4" + nut .....	1
15	Std.	Nut 3/8" NC .....	8
16	Std.	Threaded rod 3/8" NC x 28" lg .....	4
17	458599	Yoke (for 1 1/8" rod) .....	1
NI*	8183	Pin 1" ø + cotter pin .....	2
NI*	RK20TR	Repair kit for cylinder 2" (includes # 1, 2, 3, 4, 5, 6, & 7) .....	1

8

\*NI = NOT ILLUSTRATED

# CYLINDER 25TR04

15050



REF.	PART #	DESCRIPTION	QTY
1	See RK25TR	O-ring 1/8" x 2 1/4" x 2 1/2" .....	2
2	See RK25TR	Back-up 2 1/2" o.d. x 1/2" ø.....	2
3	See RK25TR	O-ring 3/16" x 2 1/8" x 2 1/2" .....	1
4	See RK25TR	O-ring 1/16" x 5/8" x 3/4" .....	1
5	See RK25TR	O-ring 1/8" x 1 1/8" x 1 3/8" .....	1
6	See RK25TR	Back-up 1 3/8" o.d. x 1/8" ø .....	1
7	See RK25TR	Wiper 1 1/8" i.d. x 1 5/8" o.d. ....	1
8	492401	Yoke (for 2 1/2" tube) .....	1
9	Std.	Nut 3/4" NF.....	1
10	4924-31	Piston 2 1/2" ø .....	1
11	491980-04	Piston rod 1 1/8" .....	1
12	491668-04	Cylinder body 2 1/2" ø .....	1
13	492421	Head (for 2 1/2" tube).....	1
14	Std.	Bolt 3/8" NC x 2 1/4" + nut.....	1
15	Std.	Nut 3/8" NC .....	8
16	Std.	Threaded rod 3/8" NC x 8" lg .....	4
17	458599	Yoke (for 1 1/8" rod).....	1
NI*	8183	Pin 1" ø + cotter pin .....	2
NI*	RK25TR	Repair kit for cylinder 2 1/2" (includes # 1, 2, 3, 4, 5, 6, & 7) .....	1

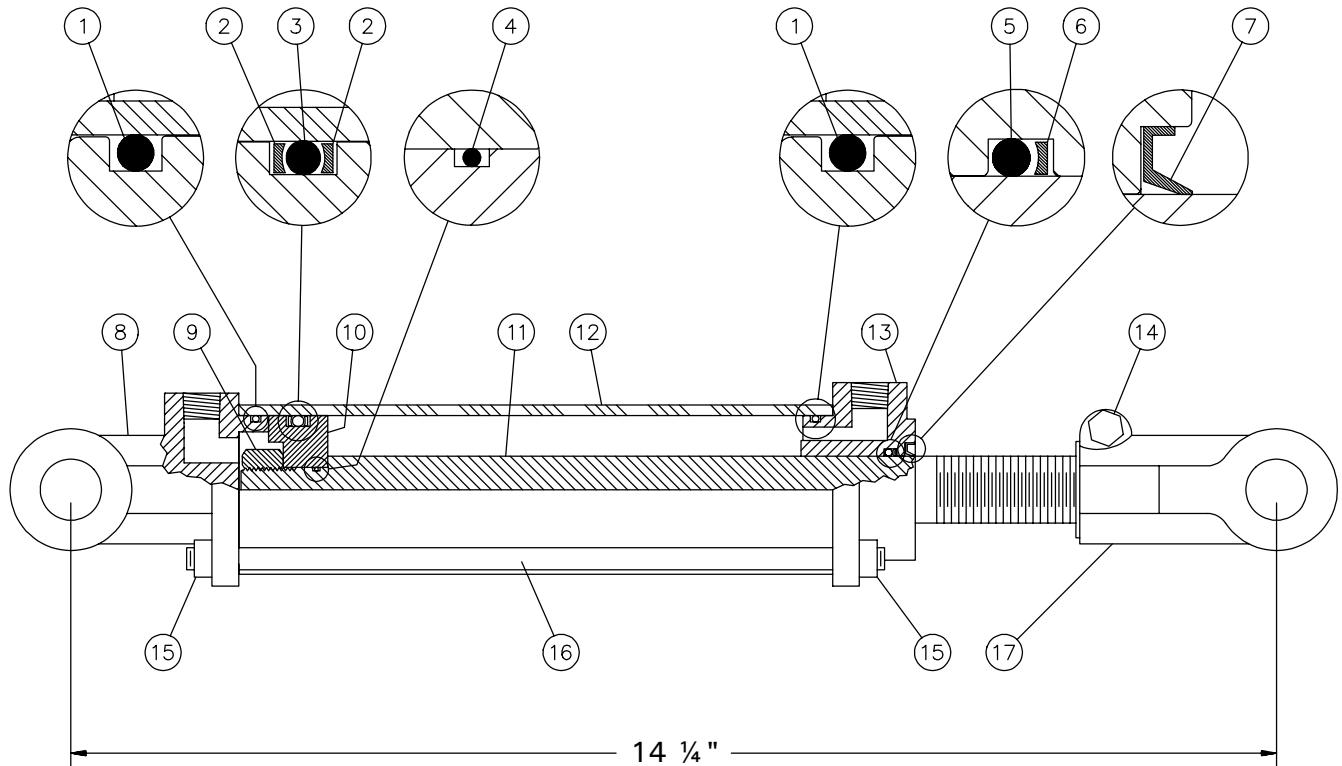
\*NI = NOT ILLUSTRATED

8



# CYLINDER 30TR04

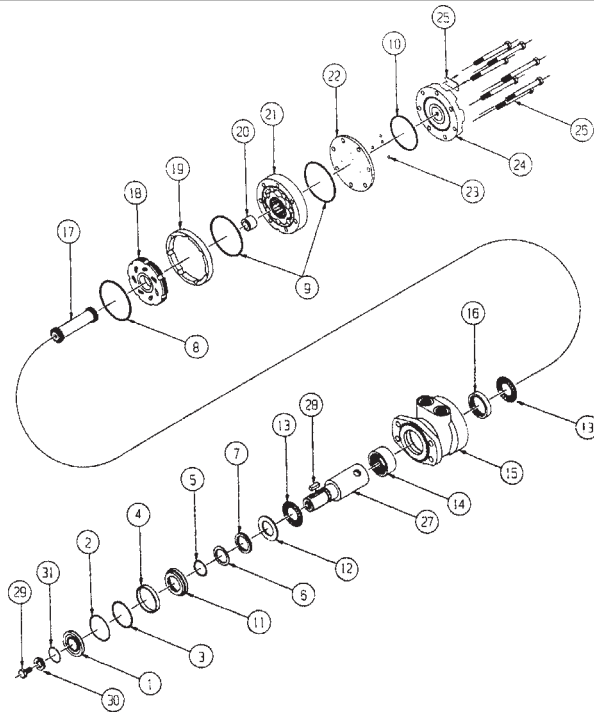
15050



REF.	PART #	DESCRIPTION	QTY
1	See RK30TR	O-ring 1/8" x 2 3/4" x 3" .....	2
2	See RK30TR	Back-up 3" o.d. x 1/8" ø.....	2
3	See RK30TR	O-ring 3/16" x 2 5/8" x 3" .....	1
4	See RK30TR	O-ring 1/16" x 7/8" x 1" .....	1
5	See RK30TR	O-ring 1/8" x 1 1/4" x 1 1/2" .....	1
6	See RK30TR	Back-up 1 1/2" o.d. x 1/8" ø.....	1
7	See RK30TR	Wiper 1 1/4" i.d. x 1 3/4" o.d. ....	1
8	492402	Yoke (for 3" tube) .....	1
9	Std.	Nut 3/4" NF.....	1
10	4924-32	Piston 3" ø .....	1
11	492088-4	Piston rod 1 1/4" .....	1
12	491738-4	Cylinder body 3" ø .....	1
13	492440	Head (for 3" tube).....	1
14	Std.	Bolt 3/8" NC x 2 1/4" + nut.....	1
15	Std.	Nut 3/8" NC .....	8
16	Std.	Threaded rod 3/8" NC x 8" lg .....	4
17	458600	Yoke (for 1 1/4" rod).....	1
NI*	8183	Pin 1" ø + cotter pin .....	2
NI*	RK30TR	Repair kit for cylinder 3" (includes # 1, 2, 3, 4, 5, 6, & 7) .....	1

\*NI = NOT ILLUSTRATED

# PUSHER HYDRAULIC MOTOR #32361

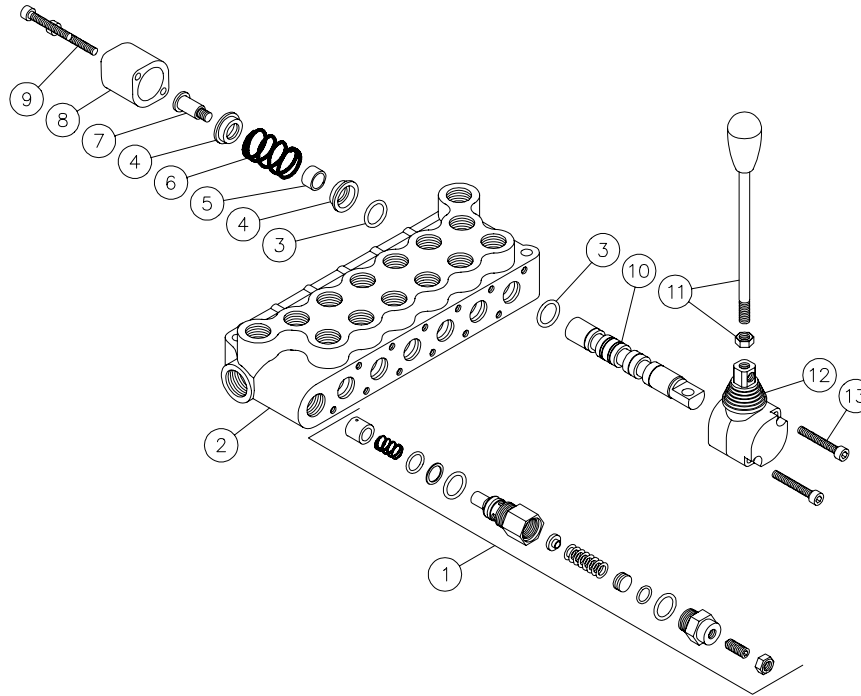


REF.	PART #	DESCRIPTION	QTY
1	See PE444002	Dust seal .....	1
2	See PE444002	Split wire ring .....	1
3	See PE444002	Metal backup shim .....	1
4	See PE444002	High pressure seal .....	1
5	See PE444002	Metal backup shim .....	1
6	See PE444002	Teflon backup seal .....	1
7	See PE444002	Shaft seal .....	1
8	See PE444002	Housing seal .....	1
9	See PE444002	Body seal .....	2
10	See PE444002	Endcover seal .....	1
11	See PE444003	Seal carrier .....	1
12	See PE444003	Thrust washer .....	1
13	PE018059	Thrust bearing .....	2
14	PE018003	Front housing bearing .....	1
15	PE130823	Housing .....	1
16	PE018002	Rear housing bearing .....	1
17	PE014008	Drive link .....	1
18	PE015007	Manifold .....	1
19	PE018041	Manifold boot .....	1
20	PE018076	Drive link spacer kit .....	1
21	PE357003	Rotor assembly .....	1
22	See PE012001	Balance plate .....	1
23	See PE012001	Steel balls .....	4
24	PE016001	Endcover .....	1
26	PE445026	Assembly bolt .....	7
27	PE011201	Shaft .....	1
28	PE449100	Shaft key .....	1
NI*	PE444001	Repair kit (includes # 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12)) .....	1
NI*	PE444002	Repair kit (includes # 1, 2, 3, 4, 5, 6, 7, 8, 9 & 10) (see PE444001) .....	2
NI*	PE444003	Repair kit (includes # 11 & 12) (see PE444001) .....	2
NI*	PE012001	Balance plate kit (includes # 22 & 23) .....	2

\*NI = NOT ILLUSTRATED

# CONTROL VALVE

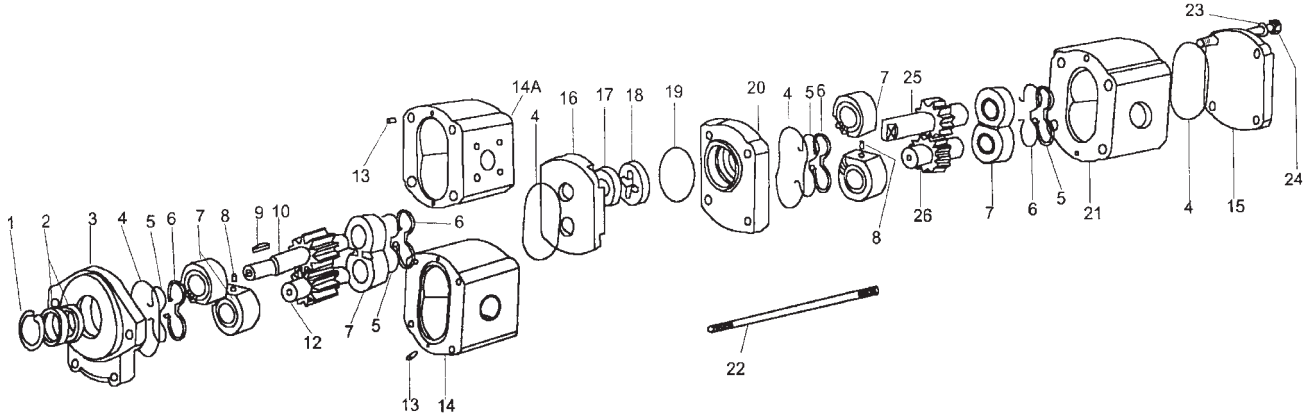
170-00791



REF.	PART #	DESCRIPTION	QTY				
			640-10003	640-20001	640-30001	640-40001	640-60001
		Number of spool .....	1	2	3	4	6
1	649-00000	Relief valve .....	1	1	1	1	1
2	649-00011	Valve housing 6 spool .....	-	-	-	-	1
2	649-00018	Valve housing 4 spool .....	-	-	-	1	-
2	649-00019	Valve housing 3 spool .....	-	-	1	-	-
2	649-00020	Valve housing 2 spool .....	-	1	-	-	-
2	649-00021	Valve housing 1 spool .....	1	-	-	-	-
3	649-00002	O-ring .....	2	4	6	8	12
4	649-00003	Spring retainer .....	2	4	6	8	12
5	649-00004	Ring .....	1	2	3	4	6
6	649-00005	Spring .....	1	2	3	4	6
7	649-00006	Bolt .....	1	2	3	4	6
8	649-00007	Endcap .....	1	2	3	4	6
9	331-12840	Bolt M6 - 1.0 x 40 mm lg .....	2	4	6	8	12
10	649-00008	Valve spool .....	1	2	3	4	6
11	649-00009	Lever .....	1	2	3	4	6
12	649-00010	Lever cap .....	1	2	3	4	6
13	331-12845	Bolt M6 - 1.0 x 45 mm lg .....	2	4	6	8	12

8

# HYDRAULIC DOUBLE PUMP #MHP-22

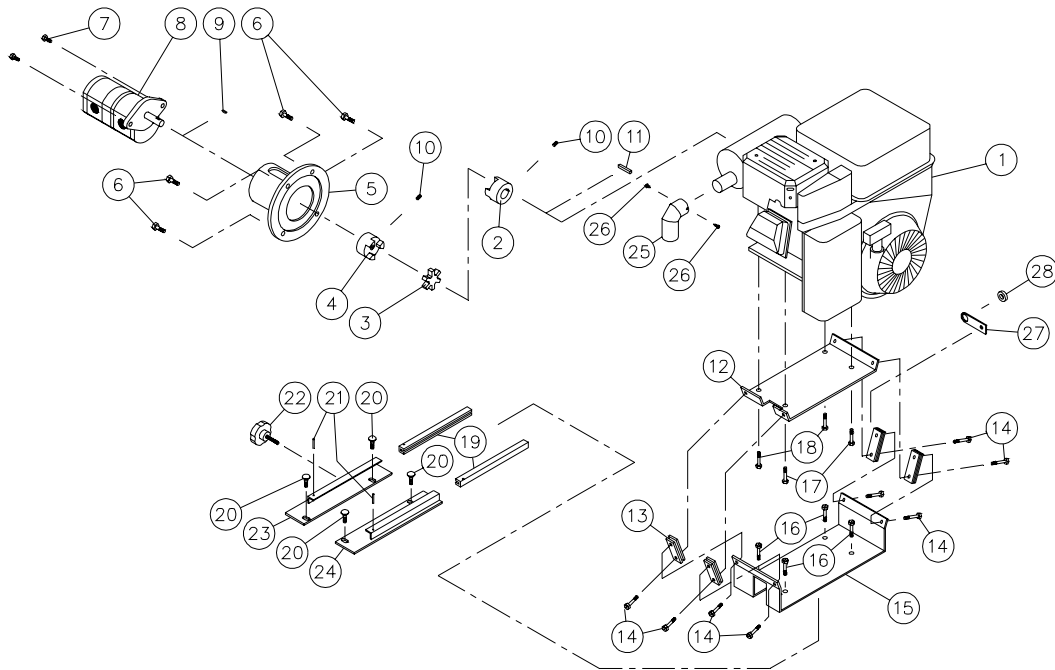


REF.	CODE #	DESCRIPTION	QTY
1	SN-2	Circlip .....	1
2	SS-2	Shaft seal .....	2
3	F2-2	Mounting flange .....	1
4	BO-2	Body o-ring .....	4
5	BS-2	Bush lobe seal .....	4
6	BR-2	Backing ring .....	4
7	BV-2	Bush (matching pair) .....	4
8	PB-2	Pin (bush) .....	4
9	KE-2	Square key .....	1
10	DSXX-048F	Drive shaft parallel (front) .....	1
11	WK-2	Woodruff key .....	1
12	DG2-048	Driven gear .....	1
13	PH-2	Pin (body) .....	1
14	H2-048	Body (sae port) .....	1
14a	H2-0485	Body (split flange) .....	0
15	C-2	End cover .....	1
16	MC-2	Middle cover .....	1
17	SC-2	Seal (middle cover) .....	1
18	DC-2	Coupling .....	1
19	FO-2	O-ring (middle flange) .....	1
20	MF-2	Middle flange .....	1
21	H2-048	Body .....	1
22	ST-048	Stud .....	2
23	LW-2	Washer .....	2
24	N-2	Nut .....	2
25	DS2-048R	Drive shaft (rear) .....	1
26	DG2-048	Driven gear (rear) .....	1

8

# ENGINE ASSEMBLY WITH PUMP

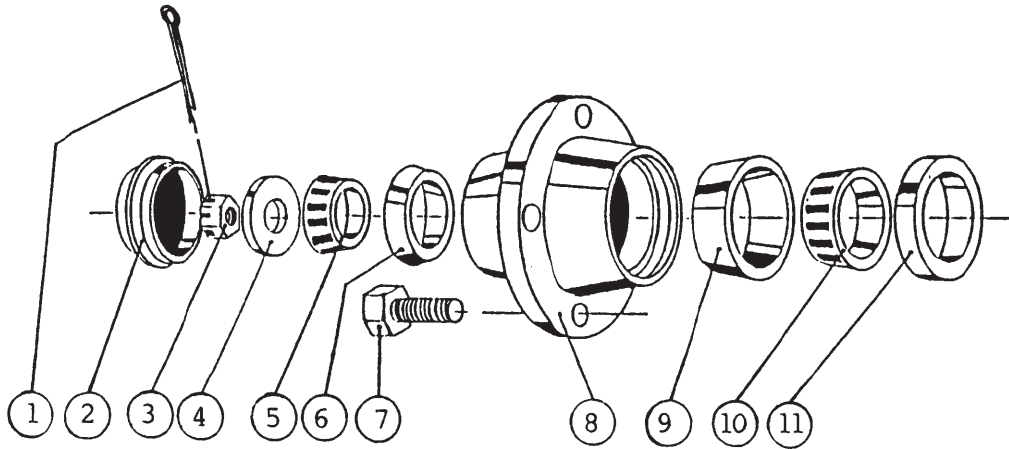
170-00841



REF.	PART #	DESCRIPTION	QTY
			P-6400
1	32258	Engine HONDA 20HP with electric starter .....	1
2	32133	Flexible coupling 1" ø .....	1
3	32134	Flexible coupling .....	1
4	32259	Flexible coupling 5/8" ø .....	1
5	32260	Mounting flange .....	1
6	Std.	Bolt 3/8" NC x 1" lg + lock washer .....	4
7	Std.	Bolt 3/8" NC x 1 1/2" lg + lock washer .....	2
8	MHP-22	Double pump .....	1
9	Std.	Woodruff key 1/8" .....	1
10	Std.	Socket set screw 5/16" NC x 1/2" .....	2
11	Std.	Square key 1/4" x 1 1/2" lg .....	1
12	32194	Upper motor mounting plate .....	1
13	32195	Anti-vibration supports .....	8
14	Std.	Bolt 5/16" NC x 1" lg + nylon locknut & flat washer .....	8
15	32196	Lower motor mounting plate .....	1
16	Std.	Bolt 3/8" NC x 1" lg + nylon locknut .....	4
17	Std.	Bolt 3/8" NC x 1 3/4" lg + nylon locknut .....	2
18	Std.	Bolt 3/8" NC x 1 3/4" lg + nylon locknut & flat washer .....	2
19	190-00202	Sliding engine mount .....	2
20	Std.	Carriage bolt 3/8" NC x 1" lg + nylon locknut .....	4
21	Std.	Roll pin 1/8" x 1" lg .....	2
22	110-00591	Slide handle .....	1
23	110-00582	Left fixation for slide .....	1
24	110-00572	Right fixation for slide .....	1
25	110-06451	Exhaust deflector .....	1
26	Std.	Teck screw # 1--16 1/2" lg .....	2
27	130-07231	Gasoline line support .....	1
28	32273	Insulating washer RB242 .....	1



# HUB H2500

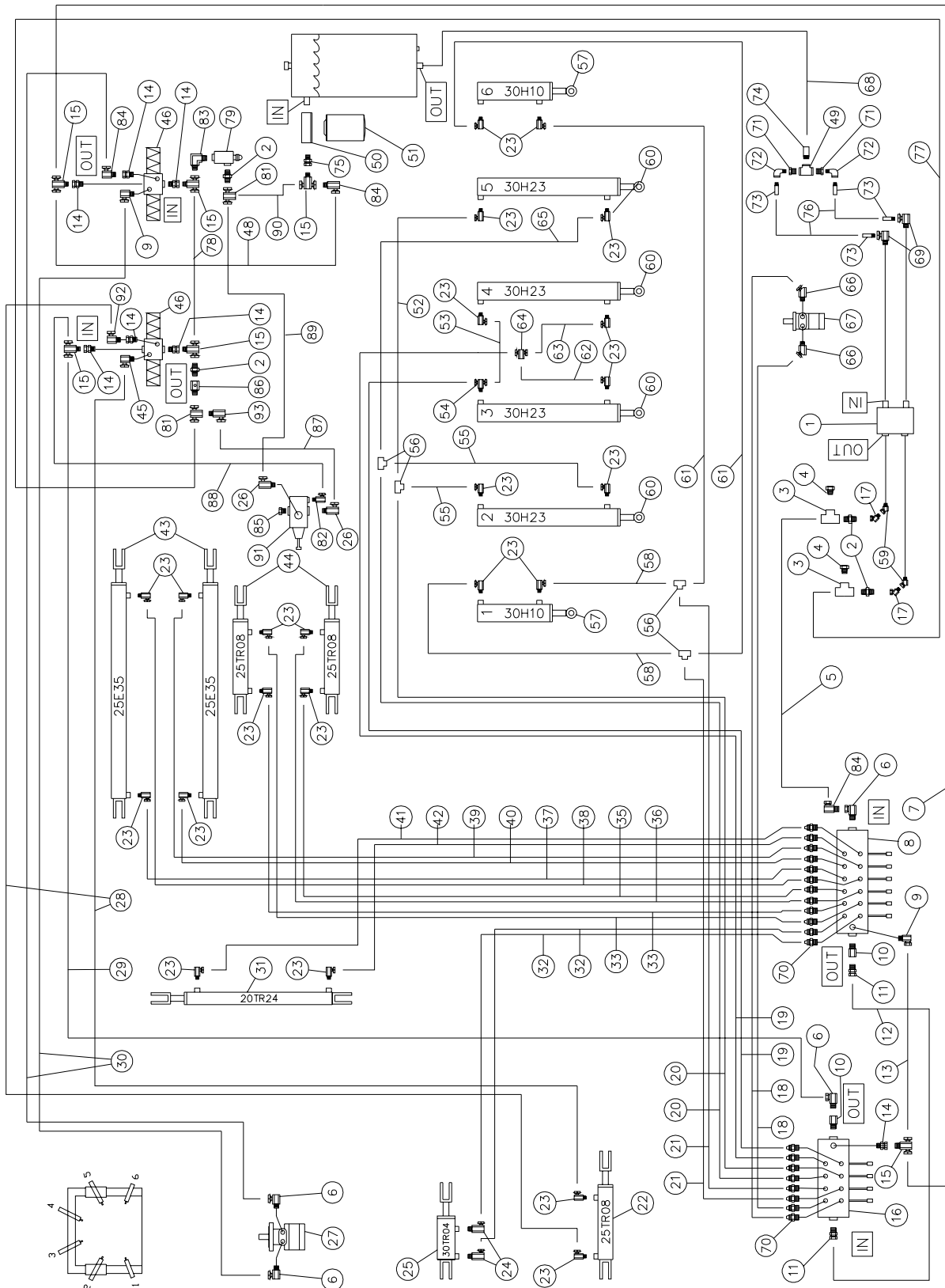


REF.	PART #	DESCRIPTION	QTY
1	Std.	Cotter pin 5/32" x 1 1/2" .....	1
2	53019	Dust cap D-1000 1.973" ø .....	1
3	51529	Castle nut 1" NF x 9/16" thick .....	1
4	Std.	Flat washer 1" .....	1
5	53058	Roller bearing Timken: cone no. L44649 .....	1
6	53023	Roller bearing Timken: cup no. L44610 .....	1
7	53024	Rim screw 1/2" .....	5
8	53059	Hub only H2500 .....	1
9	51415	Roller bearing Timken: cup no. LM48510 .....	1
10	51416	Roller bearing Timken: cone no. LM48548 .....	1
11	51535	Oil seal no. CR17415 .....	1

**8**

# HYDRAULIC SYSTEM

170-00312



# HYDRAULIC SYSTEM

- P-6400 = SilaTube without option
- OPT. 6405 = Round bales option
- OPT. 6415 = Hydraulic U-shaped guide option
- OPT. 6425 = Motorized moving kit option

- ① = P-6400
- ② = P-6400 + 6425
- ③ = P-6400 + 6405
- ④ = P-6400 + 6405 + 6415
- ⑤ = P-6400 + 6405 + 6425
- ⑥ = P-6400 + 6405 + 6425 + 6415

REF.	PART #	DESCRIPTION	QTY					
			①	②	③	④	⑤	⑥
1	MHP-22	Double pump .....	1	1	1	1	1	1
2	Std.	Straight female pipe to male pipe 1/2" .....	3	3	3	3	3	3
3	Std.	"T" 1/2" C3709 x 8 .....	2	2	2	2	2	2
4	Std.	Plug 1/2" C3159 x 8 .....	2	2	2	2	2	2
5	190-01731	Hose 1/2" x 48" lg + 2 fittings 8U108 .....	1	1	1	1	1	1
6	Std.	Fitting 90° 9515 x 10 x 8 .....	3	4	4	4	4	4
7	190-00841	Hose 1/2" x 170" lg + 2 fittings 8U108 .....	0	1	1	1	1	1
7	190-01991	Hose 1/2" x 191" lg + 2 fittings 8U108 .....	1	0	0	0	0	0
8	32238	6 spool control valve (2800 lbs) .....	1	1	1	1	1	1
9	Std.	Fitting 90° 9515 x 8 x 8 .....	3	3	3	3	3	3
10	Std.	Fitting (power beyond) .....	1	2	2	2	2	2
11	Std.	Fitting 9315 x 10 x 8 .....	1	2	2	2	2	2
12	190-00831	Hose 1/2" x 20 1/2" lg + 2 fittings 8U108 .....	0	1	1	1	1	1
13	190-01111	Hose 1/2" x 33" lg + 2 fittings 8U108 .....	0	1	1	1	1	1
14	Std.	Fitting 9315 x 8 x 8 .....	4	5	5	5	5	5
15	Std.	"T" 15855 x 8 x 8 x 8 .....	4	5	5	5	5	5
16	32239	1 spool control valve .....	0	1	0	0	0	0
16	32241	3 spool control valve .....	0	0	1	1	1	0
16	32242	4 spool control valve .....	0	0	0	0	0	1
17	Std.	Fitting 45° 9355 x 8 x 8 .....	2	2	2	2	2	2
18	190-01961	Hose 3/8" x 105" lg + 1 fit. 6U106 + 1 fit. 22541-06-08 .....	0	0	0	0	2	2
18	190-01951	Hose 3/8" x 75" lg + 1 fit. 6U106 + 1 fit. 22541-06-08 .....	0	2	0	0	0	0
19	190-01921	Hose 3/8" x 76" lg + 1 fit. 6U106 + 1 fit. 22541-06-08 .....	0	0	2	2	2	2
20	190-01931	Hose 3/8" x 52" lg + 1 fit. 6U106 + 1 fit. 22541-06-08 .....	0	0	2	2	2	2
20	190-01981	Hose 3/8" x 83" lg + 1 fit. 6U106 + 1 fit. 22541-06-08 .....	2	2	0	0	0	0
21	190-01941	Hose 3/8" x 14" lg + 1 fit. 6U106 + 1 fit. 22541-06-08 .....	0	0	2	2	2	2
22	25TR08	Steering cylinder 2 1/2" x 8" stroke .....	1	1	1	1	1	1
23	Std.	Fitting 90° 9405 x 6 x 6 .....	14	14	21	23	21	23
24	Std.	Fitting 90° 9405 x 6 x 8 .....	3	3	3	3	3	3
25	30TR04	Cric cylinder 3" x 4" stroke .....	1	1	1	1	1	1
26	Std.	Fitting 90° 9405 x 6 x 6 .....	2	2	2	2	2	2
27	32361	Pusher motor (RE26080600) .....	1	1	1	1	1	1
28	190-00881	Hose 3/8" x 216" lg + 2 fittings 6U106 .....	2	2	2	2	2	2
29	190-00851	Hose 1/2" x 163" lg + 2 fittings 8U108 .....	0	1	1	1	1	1
29	190-01971	Hose 1/2" x 184" lg + 2 fittings 8U108 .....	1	0	0	0	0	0
30	190-01681	Hose 1/2" x 184" lg + 2 fittings 8U108 .....	2	2	2	2	2	2
31	20TR24	U-shaped guide cylinder 2" x 24" stroke .....	0	0	0	1	0	1
32	190-01911	Hose 3/8" x 191" lg + 1 fit. 6U106 + 1 fit. 22541-06-08 .....	2	2	2	2	2	2
33	190-01901	Hose 3/8" x 167" lg + 1 fit. 6U106 + 1 fit. 22541-06-08 .....	2	2	2	2	2	2
35	190-01891	Hose 3/8" x 45" lg + 1 fit. 6U106 + 1 fit. 22541-06-08 .....	1	1	1	1	1	1
36	190-01881	Hose 3/8" x 34 1/2" lg + 1 fit. 6U106 + 1 fit. 22541-06-08 .....	1	1	1	1	1	1
37	190-01871	Hose 3/8" x 158" lg + 1 fit. 6U106 + 1 fit. 22541-06-08 .....	1	1	1	1	1	1

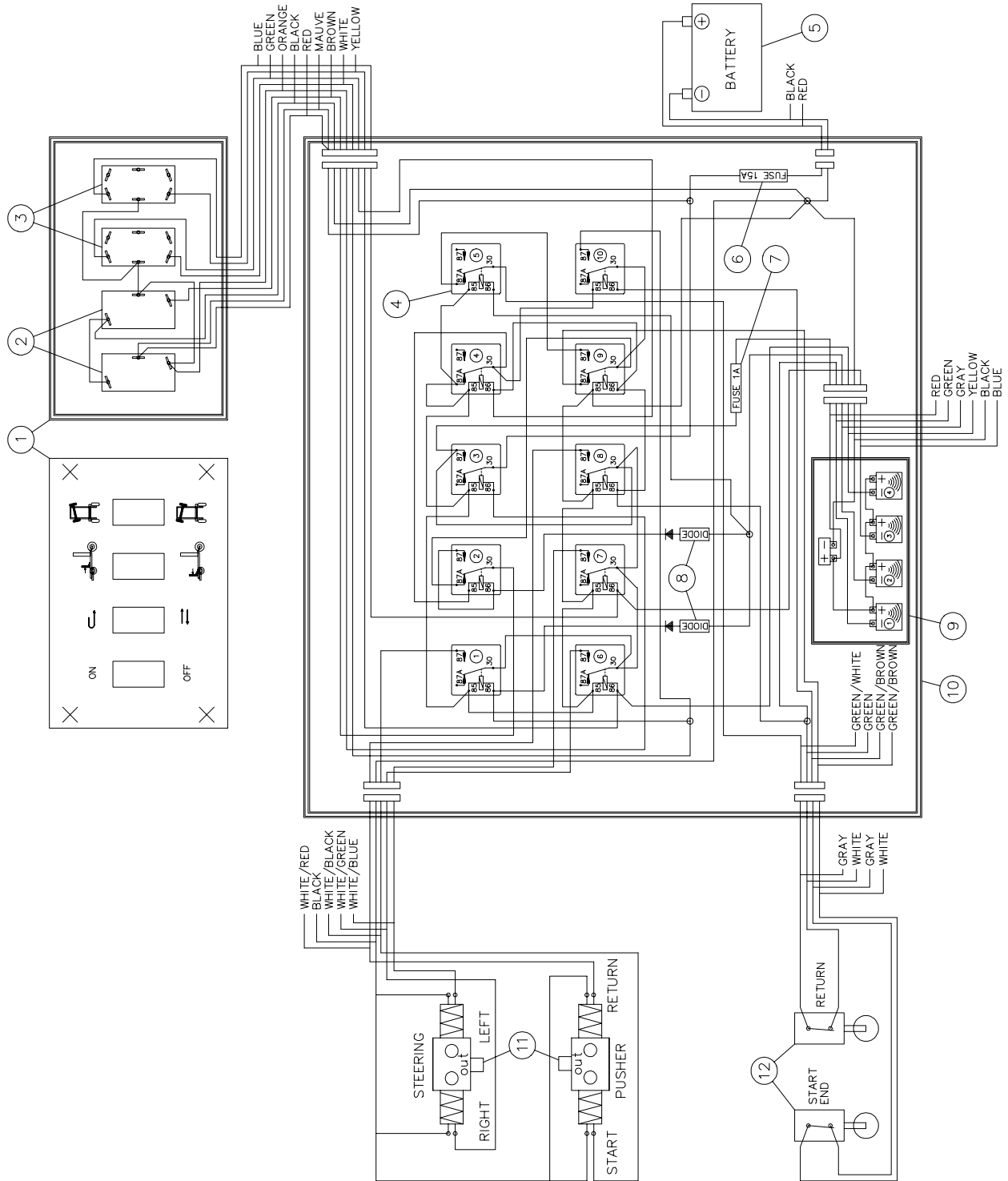


# HYDRAULIC SYSTEM (cont'd)

REF.	PART #	DESCRIPTION	QTY					
			1	2	3	4	5	6
38	190-01861	Hose 3/8" x 170" lg + 1 fit. 6U106 + 1 fit. 22541-06-08 .....	1	1	1	1	1	1
39	190-01851	Hose 3/8" x 40" lg + 1 fit. 6U106 + 1 fit. 22541-06-08 .....	1	1	1	1	1	1
40	190-01841	Hose 3/8" x 42" lg + 1 fit. 6U106 + 1 fit. 22541-06-08 .....	1	1	1	1	1	1
41	190-01831	Hose 3/8" x 101" lg + 1 fit. 6U106 + 1 fit. 22541-06-08 .....	0	0	0	1	0	1
42	190-01821	Hose 3/8" x 70" lg + 1 fit. 6U106 + 1 fit. 22541-06-08 .....	0	0	0	1	0	1
43	25E35	Lateral cylinder 2 1/2" x 35" stroke .....	2	2	2	2	2	2
44	25TR08	Rear wheels cylinder 2 1/2" x 8" stroke .....	2	2	2	2	2	2
45	Std.	Fitting 90° 9515 x 8 x 6 .....	2	2	2	2	2	2
46	18019	Solenoid valve .....	2	2	2	2	2	2
48	190-01701	Hose 1/2" x 33" lg + 2 fittings 8U108 .....	1	1	1	1	1	1
49	Std.	"T" 1" C3709 x 16 .....	1	1	1	1	1	1
50	32031	Hydraulic oil filter adaptor .....	1	1	1	1	1	1
51	32007	Paper filter .....	1	1	1	1	1	1
52	190-00911	Hose 3/8" x 108" lg + 2 fittings 6U106 .....	1	1	1	1	1	1
53	190-00951	Hose 3/8" x 73" lg + 2 fittings 6U106 .....	0	0	1	1	1	1
54	Std.	"T" 15855 x 6 x 6 x 6 .....	0	0	1	1	1	1
55	190-00901	Hose 3/8" x 66" lg + 2 fittings 6U106 .....	2	2	2	2	2	2
56	Std.	"T" C3709 x 6 .....	2	2	4	4	4	4
57	30H10	Stretcher arm cylinder 1 & 6 3" x 10" stroke .....	0	0	1	1	1	1
58	190-00991	Hose 3/8" x 71" lg + 2 fittings 6U106 .....	0	0	2	2	2	2
59	Std.	Fitting 45° 9365 x 10 x 8 .....	2	2	2	2	2	2
60	30H23	Stretcher arm cylinder 2,3,4 & 5 3" x 23" stroke .....	2	2	4	4	4	4
61	190-00981	Hose 3/8" x 215" lg + 2 fittings 6U106 .....	0	0	2	2	2	2
62	190-00961	Hose 3/8" x 19 1/2" lg + 2 fittings 6U106 .....	0	0	1	1	1	1
63	190-00941	Hose 3/8" x 93" lg + 2 fittings 6U106 .....	0	0	1	1	1	1
64	Std.	"T" 15856 x 6 x 6 x 6 .....	0	0	1	1	1	1
65	190-00921	Hose 3/8" x 115" lg + 2 fittings 6U106 .....	1	1	1	1	1	1
66	Std.	Fitting 45° 9355 x 6 x 8 .....	0	2	0	0	2	2
67	MG181313	Traction motor .....	0	1	0	0	1	1
68	190-01121	Low pressure hose 1" x 93" lg .....	1	1	1	1	1	1
69	Std.	Fitting 90° 9515 x 12 x 12 .....	2	2	2	2	2	2
70	Std.	Fitting "straight" C5315-08-08 .....	10	12	18	18	18	20
71	Std.	Adaptor 1" to 3/4" C3109 x 16 x 12 .....	2	2	2	2	2	2
72	Std.	Fitting 90° M-F C3409 x 12 x 12 .....	2	2	2	2	2	2
73	Std.	Hose adaptor 3/4" 1 S225 .....	4	4	4	4	4	4
74	Std.	Hose adaptor 1" 1 S215 .....	1	1	1	1	1	1
75	Std.	Adaptor 3/4" to 1/2" C3109 x 12 x 8 .....	1	1	1	1	1	1
76	190-01711	Hose 3/4" "low pressure" 33" lg .....	2	2	2	2	2	2
77	190-01721	Hose 1/2" x 197" lg + 2 fittings 8U108 .....	1	1	1	1	1	1
78	190-01691	Hose 1/2" x 7 1/4" lg + 2 fittings 8U108 .....	1	1	1	1	1	1
79	18020	Pressure control valve 1/2" (JT50) (2800 lbs) .....	1	1	1	1	1	1
80	Std.	Fitting "straight" 9205 8 x 8 .....	1	1	1	1	1	1
81	Std.	"T" 15856 x 8 x 8 x 8 .....	2	2	2	2	2	2
82	Std.	Fitting 90° 9405 x 6 x 4 .....	1	1	1	1	1	1
83	Std.	Fitting 90° C3529 x 8 .....	1	1	1	1	1	1
84	Std.	Fitting 90° 9405 8 x 8 .....	3	3	3	3	3	3
85	Std.	Plug 3/8" C3169 x 6 .....	1	1	1	1	1	1
86	32262	Check valve 1/2" LT50-OW .....	1	1	1	1	1	1
87	190-02031	Hose 3/8" x 23 1/2" lg + 2 fittings 6U106 .....	1	1	1	1	1	1
88	190-02041	Hose 3/8" x 44" + 1 fit. 6U106 + 1 fit. 6U108 .....	1	1	1	1	1	1
89	190-02051	Hose 3/8" x 39" + 1 fit. 6U106 + 1 fit. 6U108 .....	1	1	1	1	1	1
90	190-02061	Hose 1/2" x 26 1/2" + 2 fittings 8U108 .....	1	1	1	1	1	1
91	32263	Unloading valve (1700 lbs) .....	1	1	1	1	1	1
92	Std.	Fitting 90° 9405 x 8 x 6 .....	1	1	1	1	1	1
93	Std.	Fitting 90° 9405 x 6 x 8 .....	1	1	1	1	1	1

# ELECTRIC SYSTEM

170-0044





# ***ELECTRIC SYSTEM (cont'd)***

BASE P-6400 = SilaTube without options  
 OPT. 6435 = Hydraulic steering option

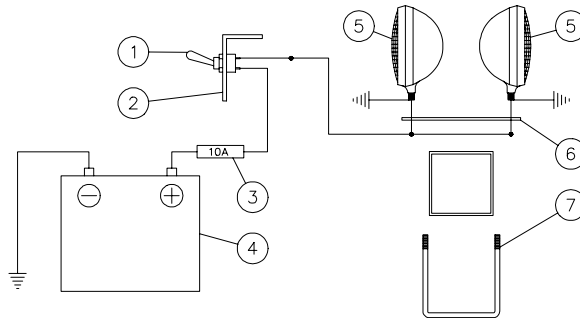
REF.	PART #	DESCRIPTION	QTY	
			BASE P-6400	OPT. P-6435
1	32245	Manual control sealed box .....	1	-
2	32246	Switch on - off .....	2	-
3	32247	Switch (on) - off - (on) .....	2	-
4	18015	Relay .....	10	-
5	Std.	Battery 12V - 540A .....	1	-
6	32248	Fuse holder 15A .....	1	-
7	32250	Fuse 1A .....	1	-
8	32251	Diode .....	2	-
9	32252	Receiver 4 channel.....	1	-
10	32253	Sealed box .....	1	-
11	18019	Selenoïd valve .....	1	1
12	32254	Limit switch .....	2	-
*NI	32255	Transmitter 4 channel.....	1	-
*NI	Std.	Battery for transmitter (Alkaline 12V no. A23) .....	1	-



# ELECTRIC CIRCUIT

## WORKING LIGHTS

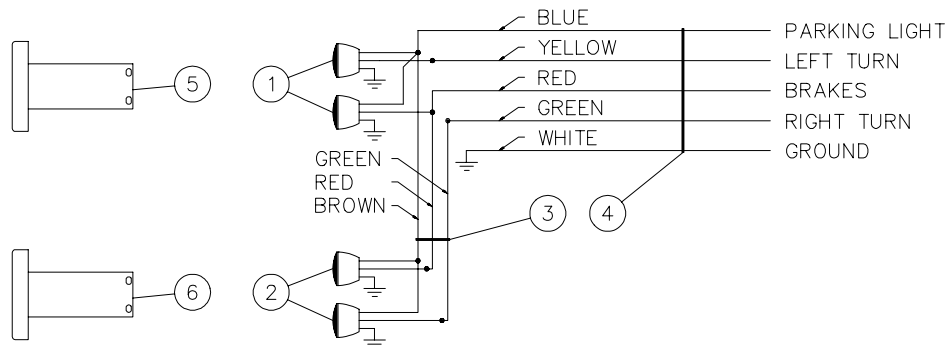
170-00401



REF.	PART #	DESCRIPTION	QTY
1	32237	Switch ON-OFF .....	1
2	130-04481	Switch support .....	1
3	Std.	Fuse 10A .....	1
4	Std.	Battery 12V-540A .....	1
5	110-04771	Working lights .....	2
6	140-02901	Working lights retaining plate .....	1
7	150-00971	"U" bolt 3/8" NC + 2 nylon locknut .....	1

## ROAD LIGHTS

170-00401

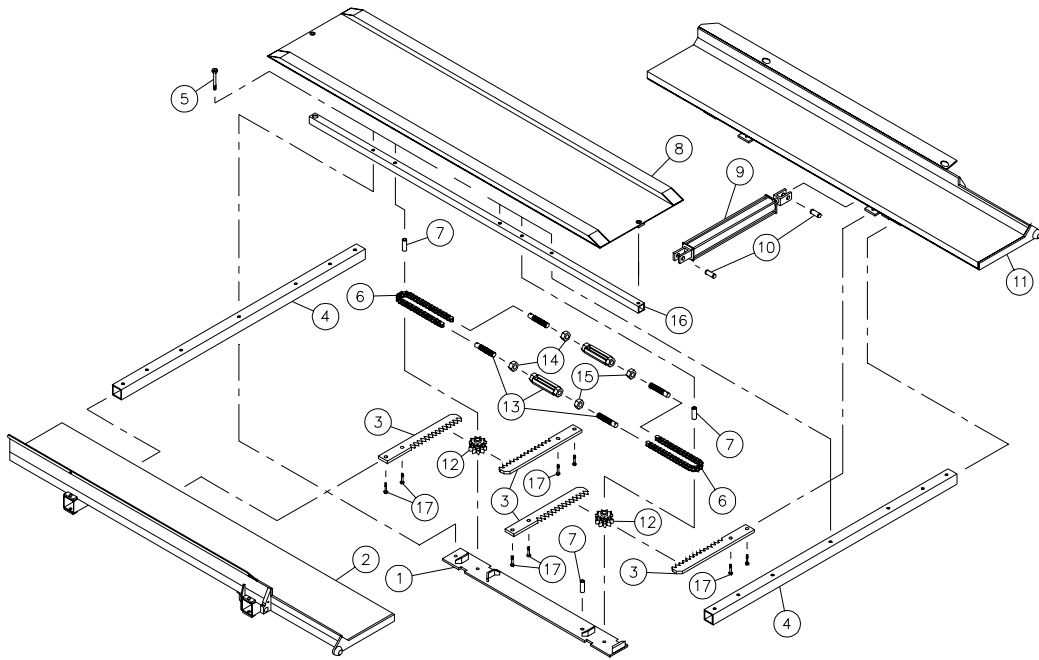


REF.	PART #	DESCRIPTION	QTY
1	32228	Left red flashers with license light .....	2
2	32229	Right red flashers .....	2
3	110-03771	3 conductors cable with terminal 258" lg .....	1
4	110-03591	5 conductors cable with terminal 288" lg .....	1
5	110-03511	Left support for flasher and license light .....	1
6	110-03501	Right support for flasher .....	1

8

# HYDRAULIC U-SHAPED BALES GUIDE

170-01671

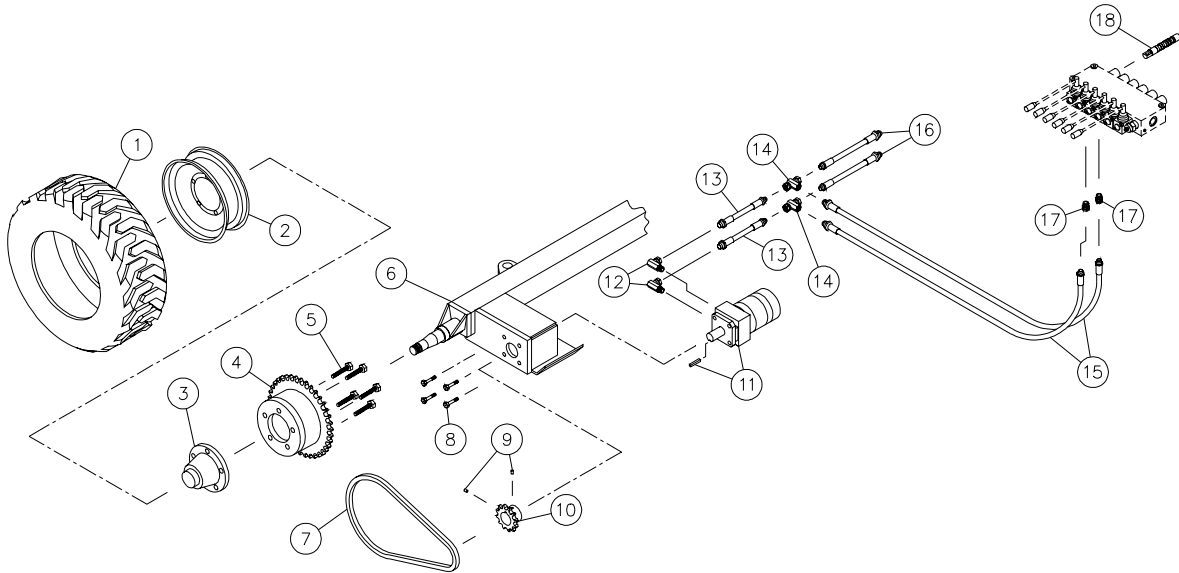


REF.	PART #	DESCRIPTION	QTY
1	110-06211	Support plate for pinions .....	1
2	120-00771	Left half of the u-shaped bales guide .....	1
3	140-02151	Toothed rack .....	4
4	160-01491	Slide for u-shaped bale guide .....	2
5	Std.	Bolt 5/8" NC x 6 1/2" lg + nylon locknut .....	5
6	190-01221	Chain #80 x 32" lg .....	2
7	160-02691	Bushing .....	3
8	110-07021	Central part of the bales guide .....	1
9	20TR24	Cylinder .....	1
10	Std.	Pin 1" dia. x 3" lg + 2 hairpin cotter .....	2
11	120-00781	Right half of the u-shaped bales guide .....	1
12	110-03921	Pinion .....	2
13	190-01201	Tightener .....	2
14	Std.	Nut 1" NC fil droit .....	2
15	Std.	Nut 1" NC fil gauche .....	2
16	160-02451	Support for the central part of the bales guide .....	1
17	Std.	Bolt 3/4" NC x 2" lg + nylon locknut .....	8

8

# MOTORIZED MOVING KIT

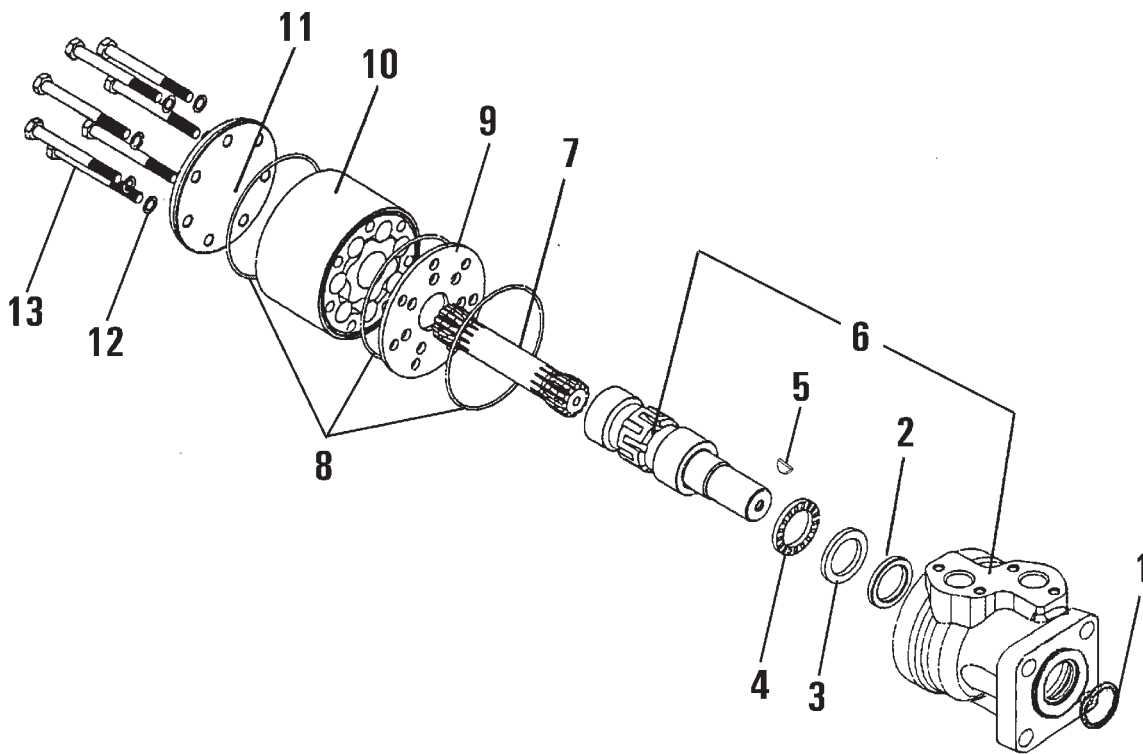
170-01681



REF.	PART #	DESCRIPTION	QTY
1	PNA238512	Pneu traction.....	2
2	R-1275	Rim 12 x 7 - 5 bolts .....	2
3	190-01281	Hub H-2500 modified .....	2
4	110-08841	Sprocket 60A38 .....	2
5	110-10991	Rim screw 1/2" NF x 2 3/4" lg + nut .....	10
6	110-11811	Front axle .....	1
7	190-02881	Chain #60 x 36" lg .....	2
8	Std.	Bolt 3/8" NC x 1" lg + lock washer .....	8
9	Std.	Hexagonal socket head set screw 5/16" NC x 1/2" lg .....	4
10	110-10981	Pinion 60B14 .....	1
11	DH315	Hydraulic motor DH315 + key .....	2
12	9405x6x8	Fitting 90 deg. swivel .....	2
13	Std.	Hose 3/8" + 2 fittings 6U-106 .....	2
14	5856x6x6x6	"T" swivel .....	2
15	Std.	Hose 3/8" + 2 fittings 6U-106 .....	2
16	Std.	Hose 3/8" + 2 fittings 6U-106 .....	2
17	9315x8x6	Straight fitting swivel .....	2
18	649-00033	Tiroir de valve pour modifier centre ouvert .....	1

8

# HYDRAULIC MOTOR #DH 315










REF.	CODE #	DESCRIPTION	QTY
			DH 315
1	633B0370	Dust seal ring .....	1
2	633B0414	Shaft seal BAKDH ring .....	1
3	151-5708	Bearing race .....	1
4	151-5709	Axial needle bearing .....	1
5	682L9054	Woodruff key .....	1
6	-----	Housing and output shaft .....	not sold
7	151-2650	Cardan shaft .....	1
8	633B1173	O-ring .....	3
9	151-1713	Distributor plate .....	1
10	151-1186	Gear wheel set .....	1
11	151-2673	End cover .....	1
12	684X0076	Washer .....	6
13	681X0186	Screw M8 x 1.25mm Din 931 x 70mm lg .....	6
NI*	151-1286	Set of seals .....	1

\*NI = NOT ILLUSTRATED








# TORQUE CHART

## TORQUE SPECIFICATION TABLE

Thread UNC and UNF		Grade 2 				Grade 5   				Grade 8*   			
Bolt size		Torque				Torque				Torque			
Inches	mm	Pound feet		Newton meters		Pound feet		Newton meters		Pound feet		Newton meters	
		min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.
1/4	6.35	5	6	6.8	8.13	9	11	12.2	14.9	12	15	16.3	30.3
5/16	7.94	10	12	13.6	16.3	17	20.5	23.1	27.8	24	29	32.5	39.3
3/8	9.53	20	23	27.1	31.2	35	42	47.5	57.0	45	54	61.0	73.2
7/16	11.11	30	35	40.7	47.4	54	64	73.2	86.8	70	84	94.9	113.9
1/2	12.70	45	52	61.0	70.5	80	96	108.5	130.2	110	132	149.2	179.0
9/16	14.29	65	75	88.1	101.6	110	132	149.2	179.0	160	192	217.0	260.4
5/8	15.88	95	105	128.7	142.3	150	180	203.4	244.1	220	264	298.3	358.0
3/4	19.05	150	185	203.3	250.7	270	324	366.1	439.3	380	456	515.3	618.3
7/8	22.23	160	200	216.8	271.0	400	480	542.4	650.9	600	720	813.6	976.3
1	25.40	250	300	338.8	406.5	580	696	786.5	943.8	900	1080	1220.4	1464.5
1 1/8	25.58	-	-	-	-	800	880	1084.8	1193.3	1280	1440	1735.7	1952.6
1 1/4	31.75	-	-	-	-	1120	1240	1518.7	1681.4	1820	2000	2467.9	2712.0
1 3/8	34.93	-	-	-	-	1460	1680	1979.8	2278.1	2380	2720	3227.3	3688.3
1 1/2	38.10	-	-	-	-	1940	2200	2630.6	2983.2	3160	3560	4285.0	4827.4

\* Thick nuts must be used with grade 8 bolts.

Size of screw	Thread	Pitch (mm)	Grade 4T  				Grade 7T 				Grade 8T  			
			Torque				Torque				Torque			
			Pound feet		Newton meters		Pound feet		Newton meters		Pound feet		Newton meters	
		min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.	max.	
M6	UNC	1.00	3.6	5.8	4.9	7.9	5.8	9.4	7.9	12.7	7.2	10	9.8	13.6
M8	UNC	1.25	7.2	14	9.8	19	17	22	23	29.8	20	26	27.1	35.2
M10	UNC	1.5	20	25	27.1	33.9	34	40	46.1	54.2	38	46	51.5	62.3
M12	UNC	1.75	28	34	37.9	46.1	51	59	69.1	79.9	57	66	77.2	89.4
M14	UNC	2.0	49	56	66.4	75.9	81	93	109.8	126	96	109	130.1	147.7
M16	UNC	2.0	67	77	90.8	104.3	116	130	157.2	176.2	129	145	174.8	196.5
M18	UNC	2.0	88	100	119.2	136	150	168	203.3	227.6	175	194	237.1	262.9
M20	UNC	2.5	108	130	146.3	176.2	186	205	252	277.8	213	249	288.6	337.4
M8	UNF	1.0	12	17	16.3	23	19	27	25.7	36.6	22	31	29.8	42
M10	UNF	1.25	20	29	27.1	39.3	35	47	47.4	63.7	40	52	54.2	70.5
M12	UNF	1.25	31	41	42	55.6	56	68	75.9	92.1	62	75	84	101.6
M14	UNF	1.5	52	64	70.5	86.7	90	106	122	143.6	107	124	145	168
M16	UNF	1.5	69	83	93.5	112.5	120	138	162.6	187	140	158	189.7	214.1
M18	UNF	1.5	100	117	136	158.5	177	199	239.8	269.6	202	231	273.7	313
M20	UNF	1.5	132	150	178.9	203.3	206	242	279.1	327.9	246	289	333.3	391.6

Use the above torques when special torque is not given.

NOTE: These values apply to fasteners as received from supplier, dry, or when lubricated with normal engine oil. They do not apply if extreme pressure lubricants are used.



---

---

## **WARRANTY**

---

PRONOVOST warrants this product to the initial purchaser for the period of one year from the date of purchase against defects in materials and workmanship.

We will replace or repair defective parts free of charge if they are returned to our plant in St-Tite, Quebec, Canada.

Transportation charges are the responsibility of the customer. This warranty is not transferable.

Tires and gasoline engine are covered by the manufacturers of these items.

All PRONOVOST spare parts purchased are covered by a three (3) month warranty.

This warranty becomes void and nul if the equipment is modified, breaks down as result of an accident, if not operated according to manufacturer's recommendations, damaged by negligence or if maintenance has not been carried out as specified.

Our obligation is limited to the replacement or repair of the defective part. PRONOVOST accepts no responsibility for direct or indirect consequential damages of any kind.





Ce manuel est aussi disponible en français.  
Veuillez téléphoner.



**LES MACHINERIES PRONOVOST INC.**  
260, route 159,  
Saint-Tite, Quebec, Canada, G0X 3H0  
Tel.: (418) 365-7551 Fax: (418) 365-7954