

# **EASY-LIFT HARNESSES**

**MODEL: 717**

## **OPERATOR AND MAINTENANCE MANUAL**

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This Manual provides the information necessary for the safe operation, adjustment and maintenance of the EASY-LIFT harness. Read it carefully to familiarise yourself with the safe operation and maintenance of your new EASY-LIFT Harness model 717 (US Patent # 6,481,108).

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# 1. SAFETY

Always wear the appropriate protective clothing, headgear and ear defenders when wearing the EASY-LIFT harness with a machine attached to it. This harness is intended for outdoor use only and keep away from electrical cables and other obstacles such as overhead tree limbs etc.

Check all fasteners are tight and attached prior to operation. Make all adjustments of backrests, shoulder and waist straps before connecting the harness to a piece of handheld equipment.

Never connect any additional hooks or separate connectors to the end loop of the attachment rope.

Ensure all adjustments are made prior to commencing work, such as balance point and lifting force and test the operation of the EASY-LIFT harness before operation.

Do not operate the piece of equipment that is attached to the harness directly above your head.

Connect the metal end loop of the rope only to the hook on the attachment handle or hook and check it is securely mounted to the piece of equipment.

Always disconnect the piece of equipment from the EASY-LIFT when refueling.

The EASY-LIFT 717 has a SWL of 6.5KG and has not been designed to be worn by any person weighing more than 21 stone/134 kg.

Do not modify or alter the EASY-LIFT harness in any way. If the harness becomes damaged do not straighten any kinked or bent parts - Replace them.

It is recommended that you maintain two-handed control of the implement after it is connected to the harness. Do not release grip of the equipment until it has been stopped and disconnected from the harness.

Always switch off the equipment and wait for blades or cord to stop before disconnecting the equipment from the harness. After disconnecting the equipment DO NOT release grip of the rope loop until it's above your head.

DO NOT use this equipment on steep slopes or any environment where falling is likely including use on ladders, vehicles etc. Do not run with the harness connected.

Should you fall, firstly switch off the equipment and disconnect the equipment from the harness or remove the harness. Remove the harness before standing.

These tips are considered to be the best procedures for safe and correct operation, however, special situations may respond better to procedures that vary from these stated.

Good results will depend on:

- COMFORTABLE FITTING
- CORRECT ADJUSTMENT
- PROPER MAINTENANCE
- SAFE OPERATION

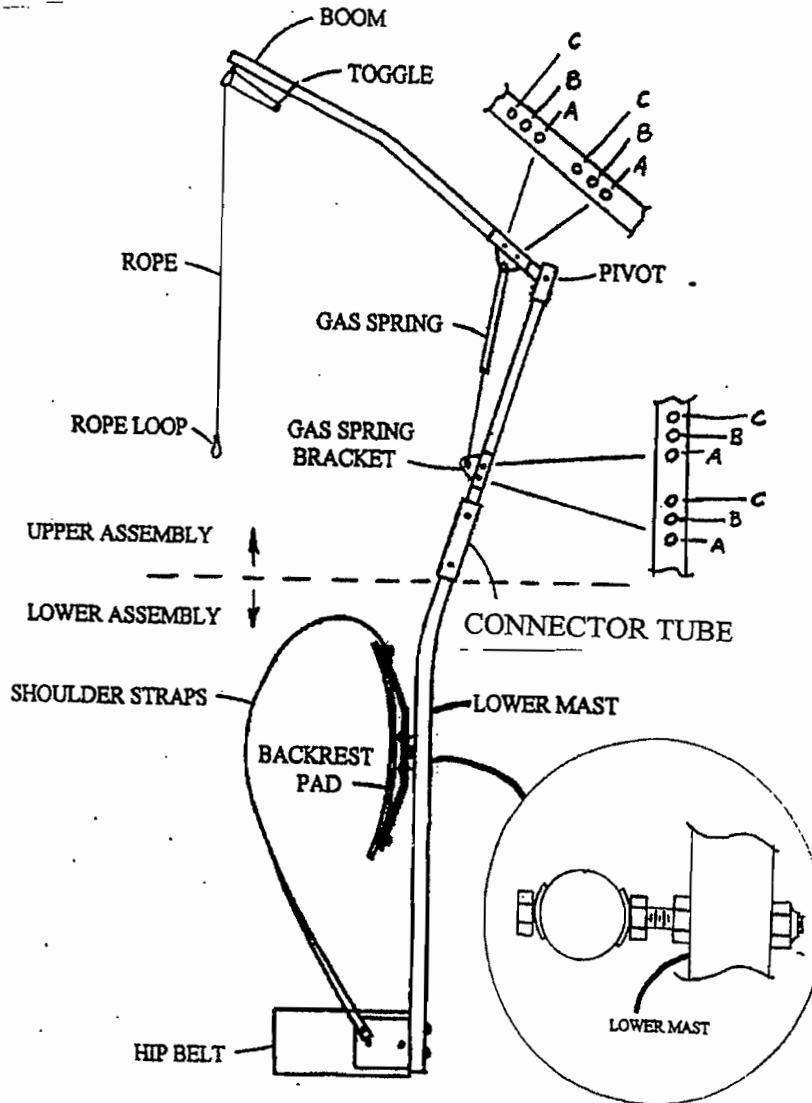
## 2. ASSEMBLY

Assembly consists of the upper boom, pivot, upper mast and gas strut and then assemble the lower part of the harness consisting of the lower mast and harness assembly

The lower assembly should be fitted and adjusted to the user and then the upper and lower assembly can be connected using the connector tube.

Fasten the upper assembly to the lower assembly using the bolt and nut provided.

Diagram 1



Finger tighten the nut and then tighten only a  $\frac{1}{4}$  turn with a spanner.

DO NOT over tighten as over tightening may crack the connector tube.

DO NOT over tighten any parts. In order to produce an easy to use lightweight design it is necessary to use lightweight tubular aluminium product. Over tightening can cause damage to these parts.

### 3. ADJUSTMENT

Make all adjustments and become familiar with the EASY-LIFT Harness before use.

#### 3.1 Harness

The harness frame holds shoulder straps and a hip belt, and attaches to the lower mast pole with two bolts.

The lower mast can be adjusted or tilted closer or further away from the backpack frame for **best vertical position** using the upper bolt and nuts provided (see diagram 1).

If necessary make this adjustment with the machine attached. For most people the best position for the lower mast is spaced away from the backpack frame.

The shoulder strap, hip belt and sternum strap can be adjusted for best fit. The hip belt should rest low on the users hips.

The comfort mesh bracket should be pulled tight, but **do not** over tighten.

Set the back rest to rest squarely against the upper back and shoulder blades.

The user should make periodic adjustments to all rigging to obtain the best fit.

#### 3.2 Gas Strut

Attach or remove the gas strut by sliding a medium screwdriver blade under the retention spring (located opposite the stud hole opening).

The gas strut should always be positioned and stored (cylinder up and rod down).

Gas struts produce slightly more force in warm weather and slightly less force in cooler weather.

#### **ADJUSTING THE FORCE RANGE (see diagram 1)**

3 lifting ranges are provided. The harness is set at the BB position on the mast and BB on the boom. This is the best position for most machines weighing 5.9KG.

Moving the gas strut brackets to the CC position on the mast and CC on the boom will increase the lifting force by approximately 0.7KG

It is usually best to match the AA position on the mast with the AA on the boom or BB – BB and CC – CC.

Other combinations could result in the boom being located behind the operator's head. This is not a preferred or satisfactory operating condition.

### 3.3 Rope

Set the slide toggle (see diagram 1) near the end of the boom so the rope extends downward as far as possible.

Now you are ready to strap on your harness (outdoors). Slip your arms into the shoulder straps and fasten the hip belt buckle and sternum belt. Pull the rope down and grip the end of the boom with one hand and **pre-set the toggle to the operating position** (near the **bend** in the boom). While gripping the end of the rope with one hand and while holding the handle assembly with the other, slip the hook into the rope loop.

While holding the machine near the balance point in one hand readjust the slide toggle with the other hand until the machine is positioned properly at its lowest point (just below waist height). Using both hands on the machine you should now be able to reach upward and receive the full benefit of the lifting harness. Re-adjust the toggle as necessary so you are able to work as low or high as necessary.

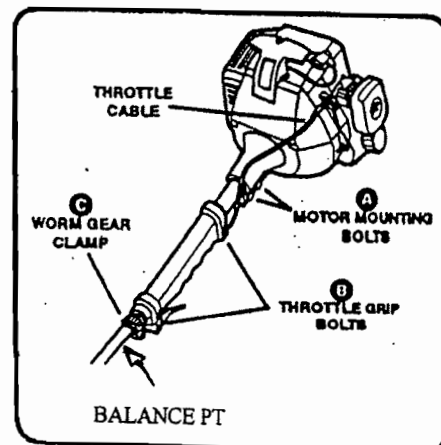
**Notes:** DO NOT set the toggle position so that the boom is so low that it hits your head. Always maintain control of the equipment with both hands and do not set the lift force so that the machine lifts on it's own

## 4. ATTACHMENT

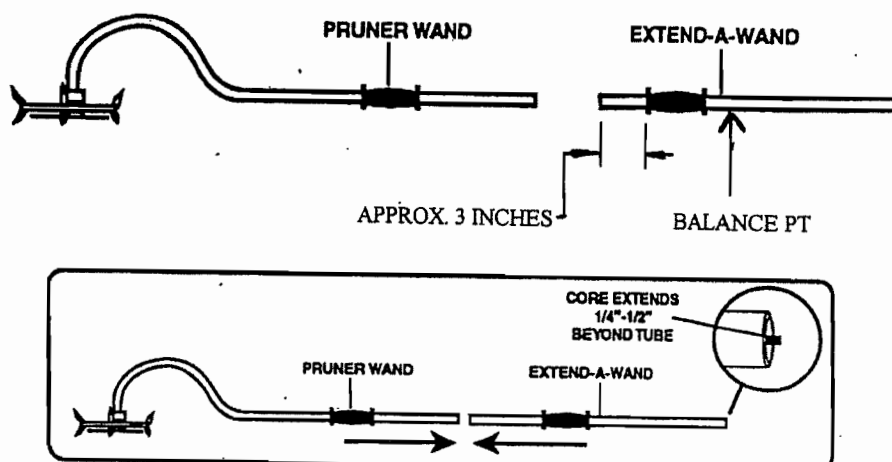
### 4.1 Hook

CONNECTING THE ATTACHMENT HANDLE TO YOUR ROTARY SHEARER

DISASSEMBLE PRUNER WAND AND FOLLOW THE STEPS OUTLINED IN THE INSTRUCTION MANUAL



CONNECTING THE ATTACHMENT HANDLE TO AN EXTEND-A-WAND REQUIRES REMOVAL OF THE EXTEND-A-WAND AND REPOSITIONING THE HAND GRIP AS SHOWN



## 5. SPECIFICATION

SWL	6.5 KG
717 HARNESS WEIGHT	2.9 KG

The EASY-LIFT 717 Harness has not been designed to be worn by any person weighing more than 21 stone/134 kg.

## 6. MAINTENANCE

- After each use wipe the piston rod with WD40 or similar to remove any sap or debris.
- Lubricate the boom pivot bearing with a drop of SAE 30 oil on each end once a year.
- Check all parts for wear or damage and replace any worn ropes, parts or straps.
- Replace damaged, bent or kinked aluminium tubing. **DO NOT** straighten as the damaged parts could fail suddenly after straightening.
- Never subject the gas strut to excessive heat.
- Never burn or incinerate discarded gas struts.

## 7. STORAGE

- The gas strut should be stored in an upright position with the cylinder above the piston rod.
- Store indoors preferably in a heated area with a light coating of oil on the piston rod and other steel parts to prevent rust.