

# INTERSTATER RECOVERY UNIT

EU 61

## Part 1. INTRODUCTION

The Interstater Recovery Unit is a heavy capacity underlift hydraulic lifting device, which is built to fit a standard 34" wide, 40" high vehicle chassis. With simple adaptation it can be mounted onto most other sizes of chassis normally encountered. It has a single lifting arm, which can be folded and extended hydraulically, and which carries a crosshead and load-bearing forks designed to fit under an axle or other structural point of the vehicle to be recovered.

The unit is also fitted with two hydraulic support legs, which can be used to stabilise the recovery vehicle during difficult operations on uneven or unfirm ground. Hydraulic, pneumatic and electrical supplies are drawn from the vehicle upon which the unit is fitted.

PLEASE NOTE: ALWAYS REFER TO THE HANDBOOK

If the instructions or suggestions given in this book are ignored, then that could invalidate the maker's warranty. This book is written to cover the technical details of the Interstater recovery unit, and cannot be regarded as authoritative about the vehicles upon which it is fitted. If in doubt, refer to the vehicle manufacturer's handbook. Nor is this book intended to be a comprehensive guide to recovery operations, although certain procedures are outlined in Part 3 in order to describe how to use the unit. Each recovery operation is a separate problem, and should be treated accordingly.

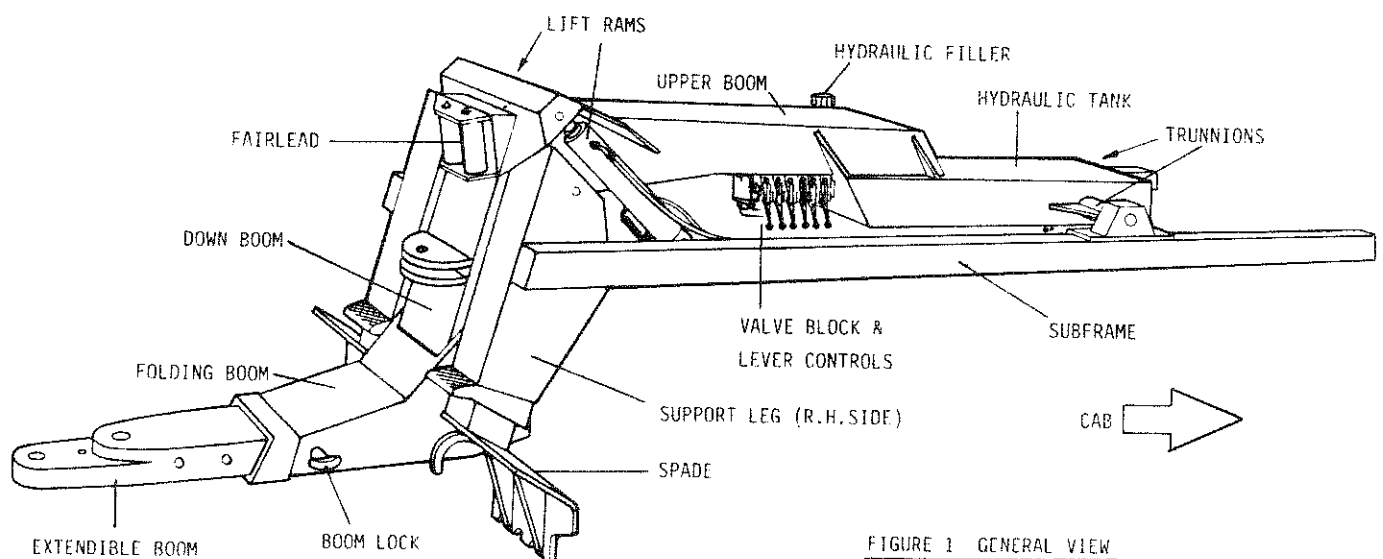
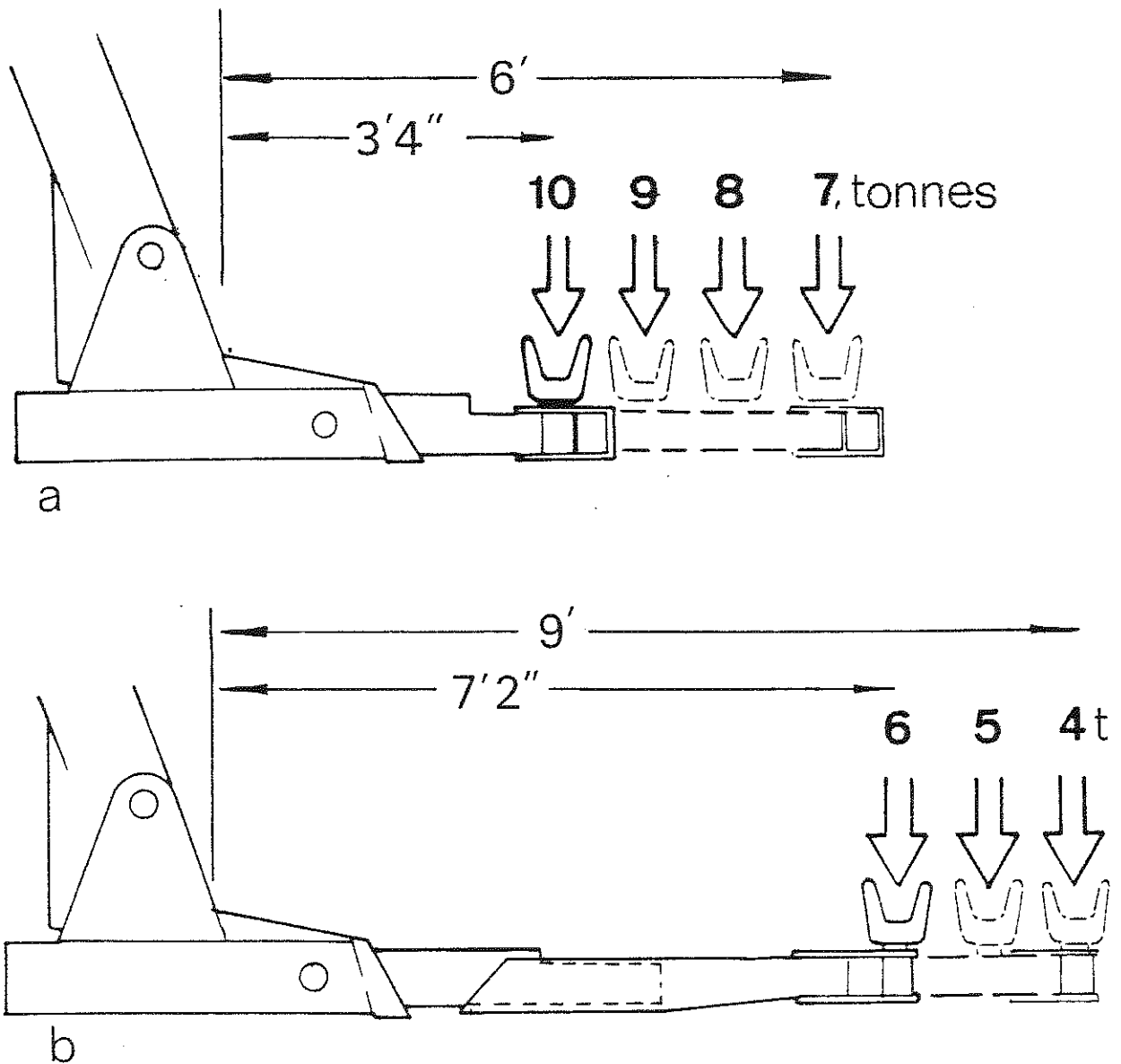


FIGURE 1 GENERAL VIEW

# INTERSTATER RECOVERY UNIT

EU 4I

Part 1. INTRODUCTION



INTERSTATER MAXIMUM LOADING a) without extension boom  
b) using extension boom

NOTE: Maximum load when using wheel frames = 2 tonne axle weight

ALL PERFORMANCE FIGURES WILL NECESSARILY BE LIMITED BY THE CHASSIS  
MANUFACTURER'S PUBLISHED MAXIMUM LOADING

FIGURE 3

# INTERSTATER RECOVERY UNIT

## Part 5 SPARES

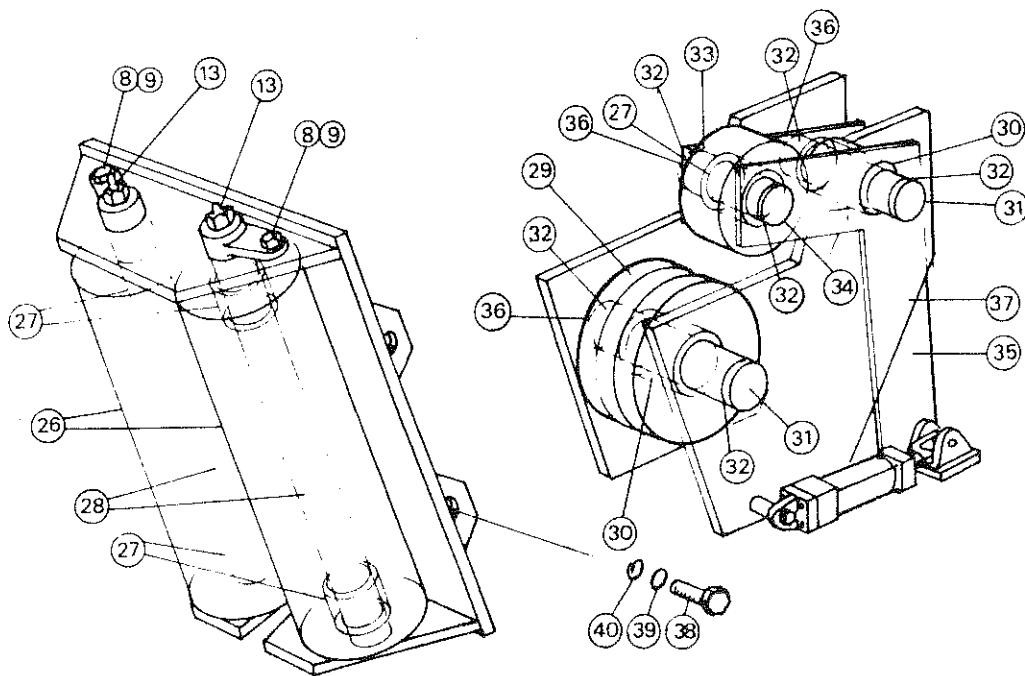
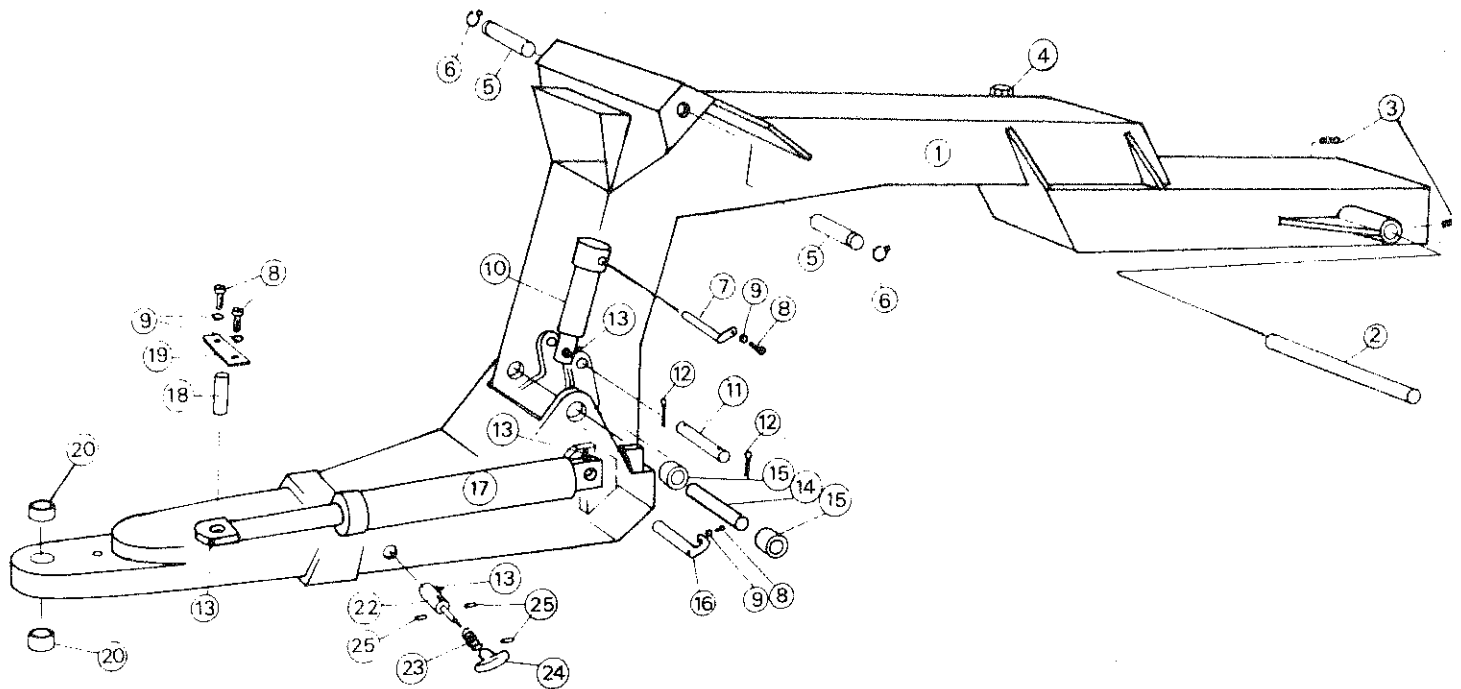


FIGURE 18

Fairlead & Rope Tensioner

# INTERSTATER RECOVERY UNIT

## Part 5 SPARES

### 2. BOOM

| ITEM | DESCRIPTION                        | QUANTITY | PART NO. |
|------|------------------------------------|----------|----------|
| 1    | Main Boom                          | 1        |          |
| 2    | Pivot Pin                          | 1        |          |
| 3    | Grubscrew                          | 2        |          |
| 4    | Filler Cap                         | 1        |          |
| 5    | Lift Ram Locating Pin (Top)        | 2        |          |
| 6    | Circlips (1.1/2" i.d.)             | 2        |          |
| 7    | Fold Ram Locating Pin (Top)        | 1        |          |
| 8    | Set Screw                          | 4        |          |
| 9    | Spring Washer                      | 4        |          |
| 10   | Folding Ram                        | 1        |          |
| 11   | Fold Ram Locating Pin (Lower)      | 1        |          |
| 12   | Split Pin                          | 2        |          |
| 13   | Straight Grease Nipple             | 6        |          |
| 14   | Fold Boom Pivot Pin                | 1        |          |
| 15   | Fold Boom Bearing                  | 2        |          |
| 16   | Extending Ram Locating Pin (Inner) | 1        |          |
| 17   | Extending Ram                      | 1        |          |
| 18   | Extending Ram Locating Pin (Outer) | 1        |          |
| 19   | Retaining Plate                    | 1        |          |
| 20   | Upper Bearing                      | 1        |          |
| 21   | Lower Bearing                      | 1        |          |
| 22   | Locking Pin                        | 1        |          |
| 23   | Spring                             | 1        |          |
| 24   | Handle                             | 1        |          |
| 25   | Roll Pin                           | 3        |          |
| 26   | Outer Roller                       | 2        |          |
| 27   | Oilite Bush                        | 5        |          |
| 28   | Locating Pin (Outer Roller)        | 2        |          |
| 29   | Grooved Roller                     | 1        |          |
| 30   | Oilite Bearing                     | 2        |          |
| 31   | Locating Pin (Pivot Arm)           | 2        |          |
| 32   | Circlip                            | 6        |          |
| 33   | Tensioning Roller                  | 1        |          |
| 34   | Tensioner Pivot Pin                | 1        |          |
| 35   | Tensioning Arm                     | 1        |          |
| 36   | 90 Grease Nipple                   | 3        |          |
| 37   | Body                               | 1        |          |
| 38   | Locating Screws                    | 4        |          |
| 39   | Flat Washer                        | 4        |          |
| 40   | Spring Washers                     | 4        |          |

For illustration see over page

# INTERSTATER RECOVERY UNIT

## FOLDING BOOM VALVE ADJUSTMENT

### DESCRIPTION

The folding boom is stowed in the vertical position by a displacement ram which is located within the down boom (see item 10 on the attached sheet)

As this is a small ram with little mechanical advantage it cannot be used for lifting a load, and must be protected from an induced load, which could be applied by the main boom lift rams if the folding boom is not located against the two stop blocks on either side of the boom.

The protection is provided by a counter balance valve which is located in the ram, this valve is adjustable.

### ADJUSTMENT

- 1) Lower folding boom against stops
- 2) Remove the left hand fairlead roller (item 26)
- 3) Reach down and locate valve
- 4) Using a 7/8" (22mm) wrench remove cap nut
- 5) Adjust valve by using a 5/16" (8mm) allen key, turning in to increase setting.
- 6) Replace cap nut.
- 7) Test, the boom should fold, remain upright while vehicle is stationary and stay upright while vehicle is in motion when shock loadings can cause it to creep down.