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# MANTEC Swing Away Spare Wheel Carrier Series II, IIA, III & Defender 90/110



## You Will Need:

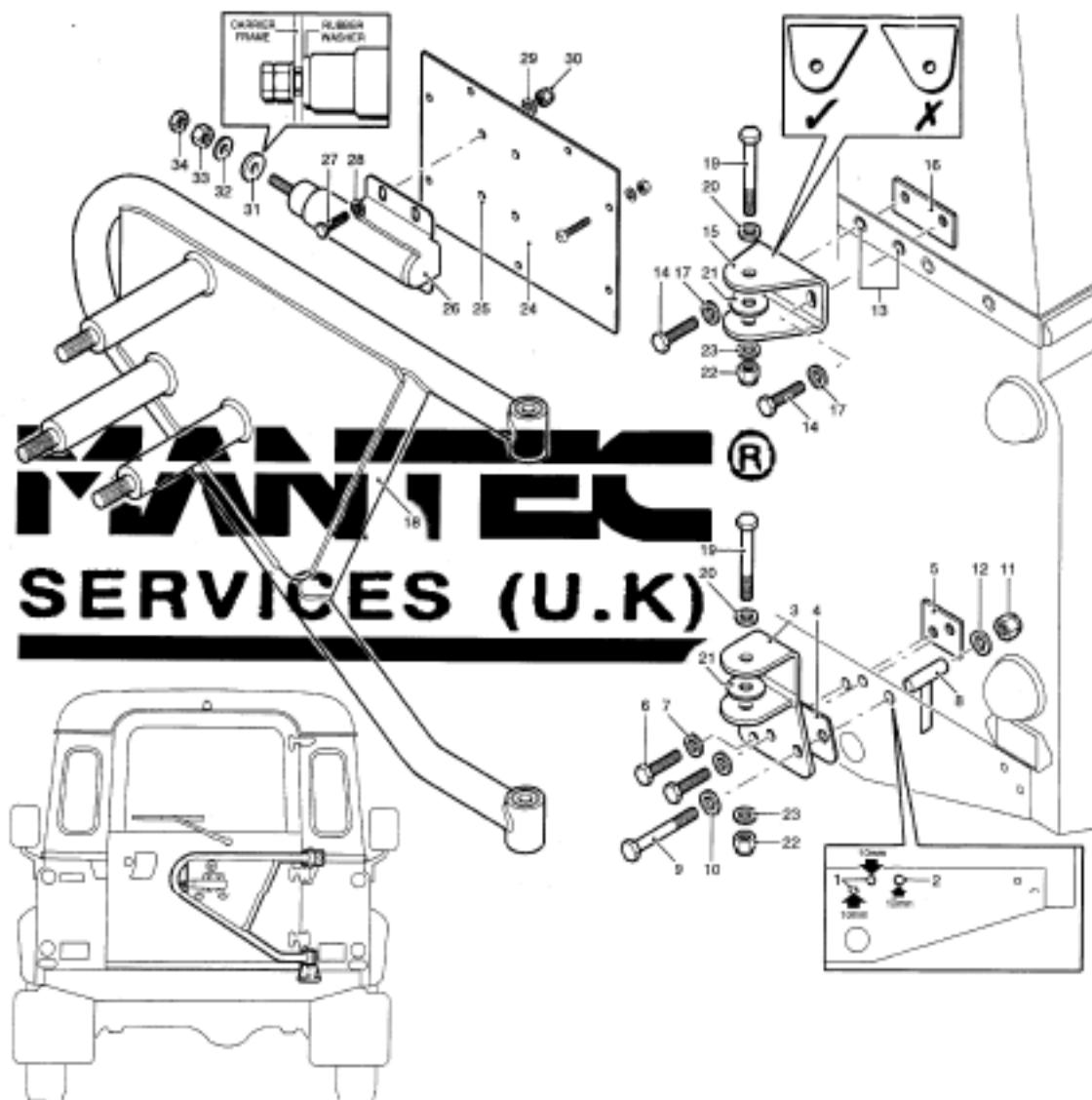
Electric Drill with 8, 10, 12 and 14 DIA high speed drill bits  
2 of each: suitable 6, 8, 10, 12 and 19mm spanners  
Large Phillips head type screwdriver  
Large adjustable wrench

**1 802 879-0032**

or (800) 403-7591 • Fax: (802) 879-9152  
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*Please Note The Following:*

To ensure that the mechanism works to its full potential, the Swing Away Spare Wheel Carrier must be fitted squarely to the body and will require final adjustments to achieve this. During assembly, only “pinch tighten” bolts, upon completion (when a satisfactory fit is achieved), all fasteners will then need to be fully tightened. Before drilling, check that there are no cables or other obstructions, and carefully remove any internal trim as necessary.

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### **BOTTOM HINGE**

- 1) Remove the two fixings, remove and discard grab handle, existing nut plate, and fixings. Drill out the two existing holes to 11mm for M 10 bolts (1).
- 2) Drill out the third hole (2) as shown in inset view to 13mm for M12 bolt (9).
- 3) Position the bottom hinge (3) with flat spacer(s) (4), locate the nut plate (5) and secure with the two M10 bolts (6) and washers (7).
- 4) Using the handle to aid location, position the spacer tube (8) in the chassis member and fit the M12 bolt (9) and washer (10). Secure with the M12 nyloc nut (11) and washer (13).

### **TOP HINGE**

- 5) Remove the two existing rivets from the body capping and drill out the two holes (13) to 11mm for M10 (14) bolts.
- 6) Position the top hinge (15) as shown. Locate the nut plate (16) and secure with the two M10 bolts (14) and washers (17).

**Note: To ensure that the wheel carrier fits squarely, the upper and lower hinges should be an equal distance from the body edge. This is achieved by including the bottom hinge flat spacer (4) as necessary.**

### **CARRIER**

- 7) Locate wheel carrier (18) in hinges (3 & 15), fit 12mm bolts (19) with washer (20) locating the flat penny washers (2) on the underside of carrier bushes and inside of brackets as shown. Secure with M12 nut (22) and washer (23).

### **DOOR PLATE AND PISTON ASSEMBLY**

- 8) Remove existing carrier and plate from door.
- 9) Fit new plate (24) using existing fittings. Ensure piston fitting holes are offset to the left as shown on next page.
- 10) With plate in the original position, and using as a template, drill the four piston (25) fixing holes in door.
- 11) Fit piston (26) squarely to new plate using M screws (27) nyloc nuts (30) and washers (28 & 29).

### **FINAL FITTING**

- 12) Open door and wheel carrier together and draw the piston in to the slot in the wheel carrier frame. Ensure that the rubber washer (31) is located between the piston and the carrier frame as shown.

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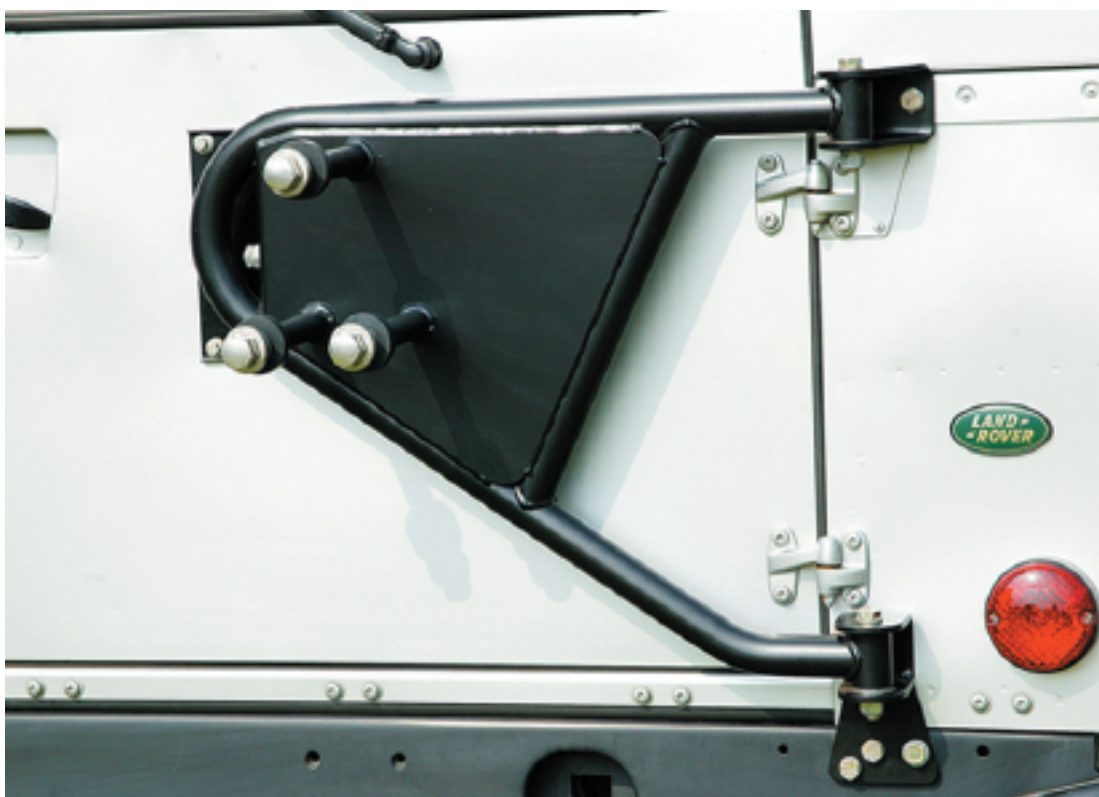
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**13)** Close door and carrier, centralize piston bolt. Fully open door and check that the piston bolt is still in a central position. If the piston bolt is not central, realign the piston bracket on the slotted holes to suit.

**14)** When you are happy with the alignment, fit steel washer (32) and nut (33) and tighten until the rubber washer (31) is pinched.

**15)** Check that the carrier/door opens and closes satisfactorily. Fit locking nut (34) and tighten.

**16)** Tighten all remaining fittings. Refit any internal trim and replace spare road wheel.



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## Instructions Questionnaire

We rely on our customers to help us continually improve our instruction sheets. Please FAX or mail any comments, questions, or ideas for improvements you may have.

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\_\_\_\_\_

Instruction part number (top right corner) or description of what instructions are: \_\_\_\_\_

Overall, how would you rate the quality of this set of instructions? (please circle one):

Poor		Fair		Good		Very Good		Excellent	
1	2	3	4	5	6	7	8	9	10

Ideas, Comments, or Corrections (please include specifics, such as page number, or step number):

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**THANK YOU!**

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