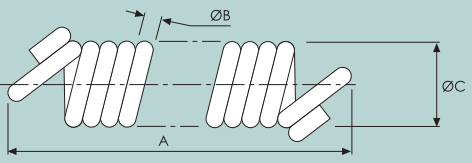
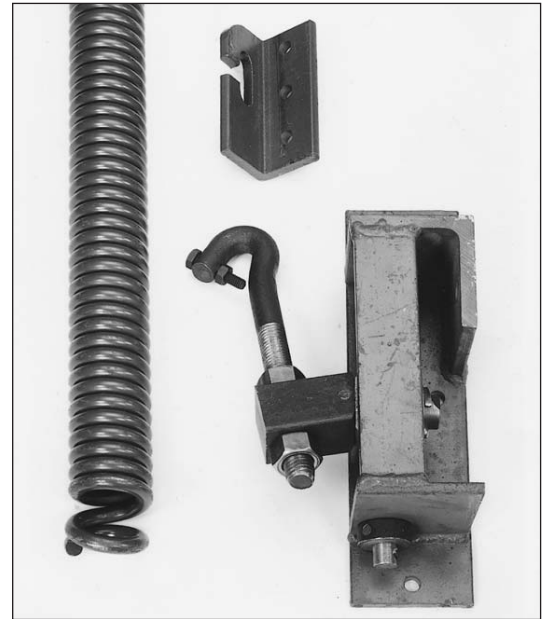
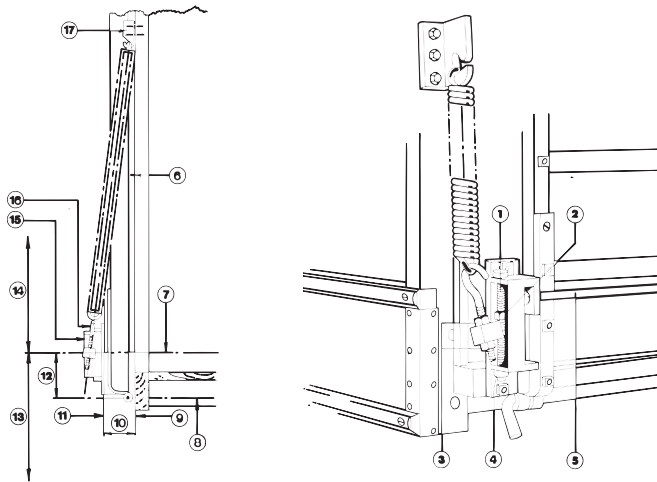


FOULGER RAMP SPRING	
	
2103/001	3cwt, lightweight spring A = 1240mm (4'1") B = Ø11.1mm (0.44") C = Ø55mm (2.2")
2103/002	4cwt, heavyweight spring A = 1210mm (4') B = Ø12.5mm (0.5") C = Ø69mm (2.72")
2104/001	Left hand, tensioner unit (blue) c/w top spring hook
2104/002	Right hand, tensioner unit (red) c/w top spring hook
2104/003	Adjusting hook
2104/005	Right hand, spring retainer hook
2104/006	Left hand, spring retainer hook



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1. Adjusting screw. 10. 76-125mm (3-5").
2. Locking nut. 11. Face of pivot block assembly.
3. Hook nuts. 12. 178mm (7").
4. Adjusting nuts. 13. Down for weaker.
5. Ø12.7mm (.5") tension bar. 14. Up for stronger.
6. Ramp. 15. Pivot block assembly.
7. Centre line of pivot. 16. Hook.
8. Centre line of hinge. 17. Hook.
9. Face of bearer.

Bolt pivot bearing block assemblies (15) to each edge of ramp with centre line of pivot joint (7) approximately 178mm (7") from centre line of hinge (8).

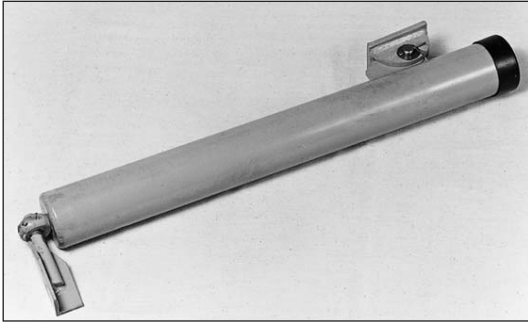
To move pivot, slack off locking nut (2) and turn adjusting nut (4) in required direction.

Fit ends of spring to hooks (16) and (17) and bolt in position. When pivot bearing block is correctly placed, take up about 4 turns on bottom hook nut (3) to ensure sufficient spring tension to hold ramp vertical.

It is advantageous, but not essential, to fix the pivot block assemblies as illustrated, ie. 76-125mm (3-5") between faces (9) and (11).

If pivot block assemblies are not on bearers, a wooden block of appropriate thickness can be inserted to make up the 76-125mm (3-5").

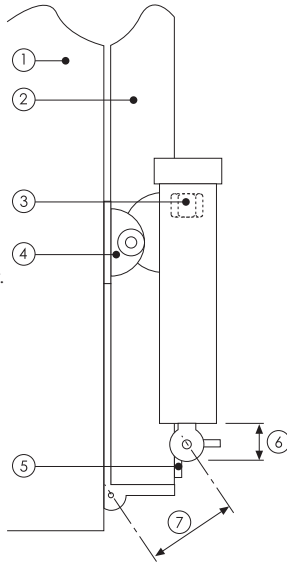
IMPORTANT: A Ø12.5mm (0.5") tension bar (5) should be fitted, as shown, between the two assemblies. Two Ø13.5mm (0.53") holes are provided in the 76mm (3") x 76mm (3") angle iron (at the top of the mechanism) for the tension bar.



	SIDE MOUNTED RAMP SPRING Capacity 136kg (300lb) per pair, approx.
	2106/002 Weight 5.1kg/11.3lb A = 145mm (5.7"), B = 780mm (31"), C = 89mm (3.5")
2106/003 Replacement Spring	

• FITTING INSTRUCTIONS • FITTING INSTRUCTIONS • FITTING INSTRUCTIONS • FITTING INSTRUCTIONS •

1. Rear of vehicle.
2. Ramp.
3. Adjuster nut.
4. Top pin pivot assembly.
5. Ramp pin bracket.
6. 70mm (2.75")
7. 95mm (3.75")



Clamp ramp pin bracket in position as shown, (5). **NB. DIMENSIONS VERY IMPORTANT.**

Put ramp in closed position.

Check that end of rod is protruding 70mm (2.75"), as shown (6).

Connect compression spring unit to ramp bracket, hold up against body and mark position for top pin pivot assembly (4).

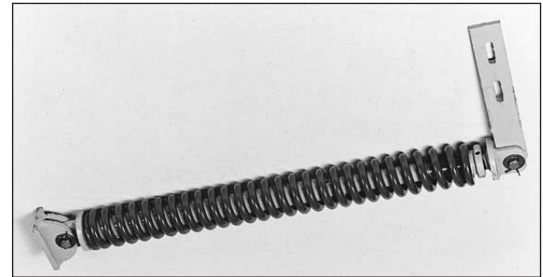
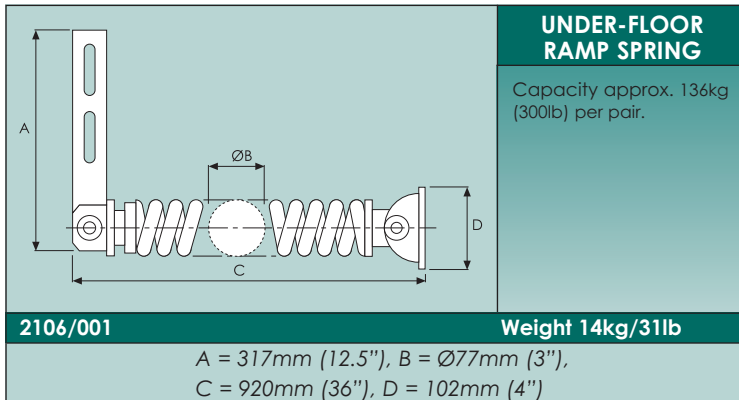
Fix top pin pivot assembly and ramp pin bracket securely into position with the ramp in the closed position.

While in this position, screw adjuster nut down (inside main body) to remove all slack. Then tension the spring by 1.5 turns of the adjuster nut. **THIS IS VERY IMPORTANT!**

Lower ramp with caution.

Should any final adjustment be required, always do so with ramp in **CLOSED** position.

NB. The above recommended instructions are for ramps approximately 136kg (300lb) in weight. If the ramp is lighter, centres (7) should be approximately 90mm (3.5"), or if heavier approximately 102mm (4").



• FITTING INSTRUCTIONS • FITTING INSTRUCTIONS • FITTING INSTRUCTIONS • FITTING INSTRUCTIONS •

Screw adjusting nut hard up to flange.

Clamp flat bar with slotted holes on to back of ramp with the centre of the lower hole 102mm (4") away from the centre of the ramp pivot point, (6).

Mark the centre of both slotted holes on to the ramp frame, drill Ø12.7mm (0.5") holes and fit nuts, bolts and washers. Remove the clamps.

Swing rest of assembly up under the body as high as possible.

IF NECESSARY, lower the end nearest the ramp 12.7mm (0.5") to clear body-work of wagon, using slotted holes.

Fix a short length of 150mm (6") x 75mm (3") x 6mm (0.25") channel between main frame of wagon and fix brackets an end of spring assembly to it, (7).

Now, tension the adjusting nut, (5) approximately 25.4mm (1") and standing at the side of the vehicle, lower the ramp carefully. Should the ramp fall too quickly, continue to tension spring until the ramp falls at required rate.

When more than 76mm (3") of adjustment is required, screw the nut back to the flange, then slacken 12.5mm (0.5") bolts in slots and increase centre of spring and ramp pin (6) by 12.7mm (0.5"). Re-tighten nuts and tension adjusting nut again.

Various combinations of adjustment can be made, according to weight of ramp.

NB. The above recommended instructions are for ramps approximately 136kg(300lb) in weight.

