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W21-760-3004 Mercedes Sprinter

INSTALLATION INSTRUCTIONS

All work should be carried out in a properly equipped workshop with due regard to Health and Safety Regulations. No further reference to Health and Safety Regulations will be made, but they must be considered at all times.

The kit should be opened and the contents checked against the parts list provided. Identify the various components and familiarise yourself with them using drawings and information provided.

WARNING

Do not inflate this assembly when it is unrestricted. When installed, a minimum of 10 psi should be maintained in the air bellows at all times to avoid damage. Do not inflate beyond 100 psi.

IMPORTANT

This kit is not designed to increase the GVW of your vehicle. For your safety and to prevent possible damage to your vehicle, do not exceed the maximum load recommended by the vehicle manufacturer.

Parts List

DESCRIPTION	PART NO.	QTY
255C1.5" AIR BELLOWS	W21 760 6957	2
TOP INNER BRACKET	21 3582 3927	2
TOP OUTER BRACKET RIGHT	21 3582 3928	1
TOP OUTER BRACKET LEFT	21 3582 3929	1
BOTTOM BRACKET	21 3582 3930	2
ADAPTOR PLATE	21 3582 3931	2
BRACKET STRAP	21 3582 3932	4
3/8" - 16 UNC FLANGE LOCK NUT	21 3582 3022	4
3/8" - 16 UNC X 3/4" BOLT	21 3582 3069	2
3/8" LOCK WASHER	21 3582 0061	6
M10 X 1.5 X 16 MM HEX HEAD BOLT	21 3582 3808	2
M8 X 1.5 X 90 MM HEX HEAD BOLT	21 3582 3807	4
M8 HEX NUT	21 3582 3822	4
8 MM LOCK WASHER	21 3582 3833	4
M10 X 1.5 X 40 MM HEX HEAD BOLT	21 3582 3810	8
M10 HEX NUT	21 3582 3823	8
10 MM LOCK WASHER	21 3582 3835	8
1/4" ELBOW	21 3582 3031	2
1/4" TEE PIECE	21 3582 3025	1
1/4" INFLATION VALVE	21 3582 3032	2
NYLON TIES	21 3582 9036	15
1/4" TUBING 18 FT	21 3582 0938	1

STEP 1 PREPARE THE VEHICLE

Your vehicle is equipped with a rubber bump stop which is positioned on the frame directly above the axle. Remove this bump stop and discard. Fit the adaptor plate in place of the bump stop, slightly bending the bump stop brackets to ensure a tight fit of the adaptor plate. Bolt the top inner bracket to this adaptor plate using the trimmed M10 bolts. Make sure that the slot cut out of the top inner bracket is to the inside of the chassis rail.

STEP 2 INSTALL THE AIR FITTING

Install the elbow in the air inlet hole on the top plate of the bellows. Tighten until the elbow is pointing towards the centre of the vehicle. Next, cut the air line into two equal lengths, making the cut as square to the axis of the tubing as possible. Insert the air line into the elbow and push until a positive click is felt.

STEP 3 MOUNT BRACKET TO BELLOWS

Before bolting the air bellows to the lower bracket, the CSS carriage bolts should be positioned in the bracket as illustrated. Fasten the bellows to the lower bracket using 3/8" hex bolts and spring washers provided. The top of the bellows has two studs and an air inlet hole. Position the top outer bracket on the bellows ensuring that the air inlet hole is exposed in the slot cut out of the bracket. Fasten the top outer bracket to the bellows using 3/8" hex nuts and spring washers. Note, the top outer bracket with the notch taken out of it is usually the right hand bracket (see parts list).

STEP 4 INSTALL THE ASSEMBLY

Place the assembly on the axle and position so that the lower bracket rests on the axle as shown in diagram. Bolt the top outer bracket to the inner bracket (already fixed to the chassis) using the hex head carriage bolts. Position the lower bracket so that it is level on the axle and bolt in place using the U-straps provided.

STEP 5 INSTALL THE AIR LINE

Select locations on the vehicle for the air inflation valves. The locations can be on the bumper or on the body of the vehicle. Drill a 5/16" hole and install the air inflation valve.

Run the tubing from the bellows to the valve, routing it so that it will be protected from the direct heat of the exhaust system, and away from sharp edges. Secure the tubing in place with nylon ties. Attach the end of the air line tubing to the inflation valve.

Once the inflation valves are installed, inflate the bellows to the recommended pressure and check the fittings for air leaks. If a leak is detected at a tubing connection then check to make sure that the tube is cut as square as possible and that it is pushed completely into the fitting. If a leak is detected where the brass elbow fitting screws into the spring, then screw the elbow into the spring one additional turn until the leak stops.

