INSTALLATION INSTRUCTIONS

88233-3
88233-3R

BELLOWS KIT

SAFETY TIPS : - It is recommended that our kits be installed by a qualified mechanic.

- Always wear appropriate PPE during installation.
- Ensure the vehicle is secure and supported before starting the installation.
- Be sure to read through the instructions before commencing & follow any kit specific guides.
- Do not attempt to inflate the air bags when they are not secured to the vehicle.
- Any time the vehicle will be worked on or lifted onto a hoist, it is recommended to set the air bags to the minimum 5psi pressure beforehand.
- Keep these fitting instructions in the vehicle at all times and make sure anyone who works on the vehicle is informed of the correct procedure of use.

PRE-INSTALLATION NOTES :

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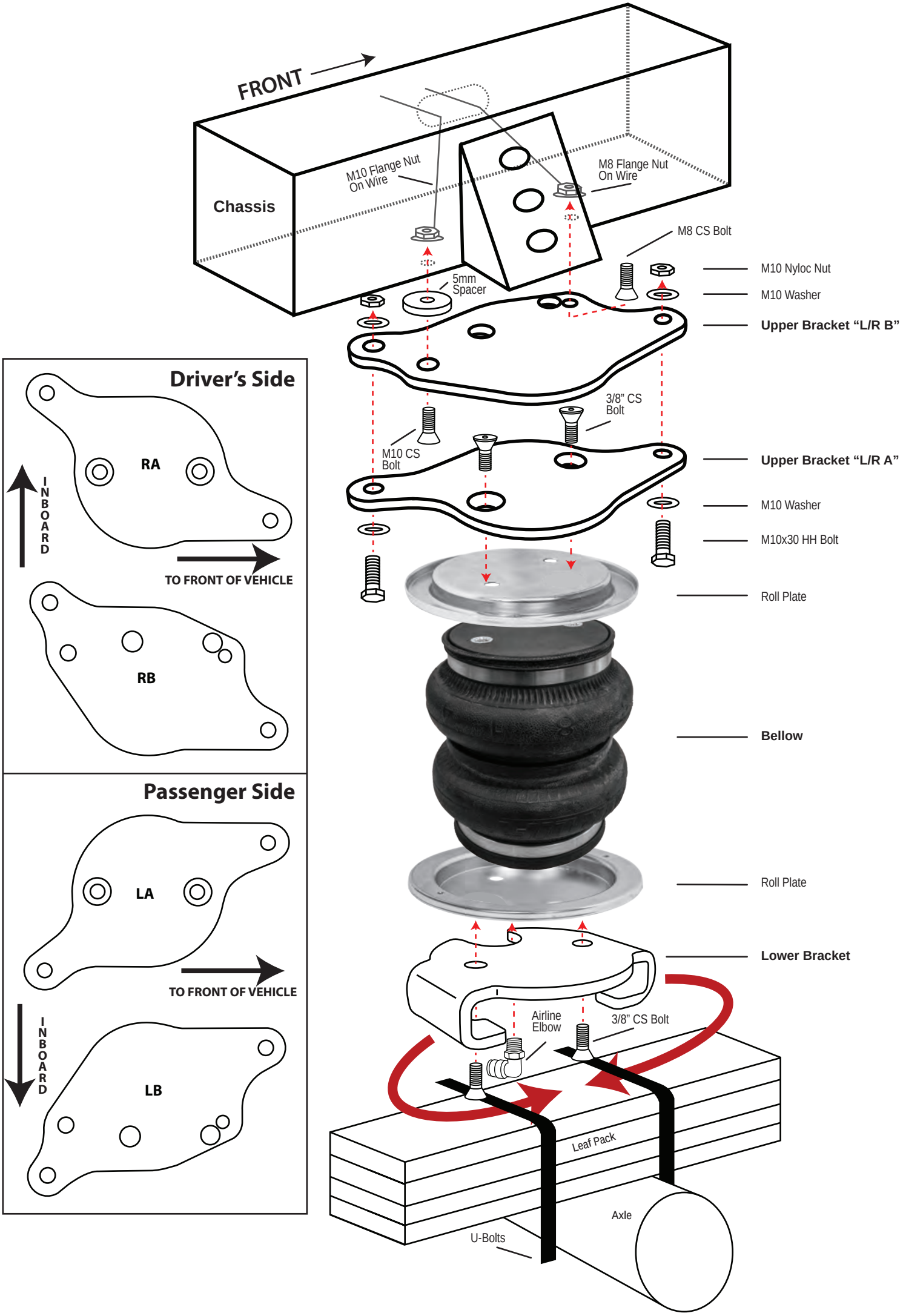
KIT CONTENTS :

2x	[58439] - Bellows for 88233-3
	[58437] - Bellows for 88233-3R
1x	[12-233-3LA] - Upper Bracket | LHS A
1x	[12-233-3RA] - Upper Bracket | RHS A
1x	[12-233-3LB] - Upper Bracket | LHS B
1x	[12-233-3RB] - Upper Bracket | RHS B
2x	[12-233-3C] - Upper Bracket To Chassis Spacer
4x	[11951] Roll plates
2x	[33606] 90° air line swivel fitting
8x	3/8" Countersunk Bolts
4x	M10x30 Hex Head Bolts
8x	M10 Flat Washers
4x	M10 Nyloc Nuts
2x	M8x30 Countersunk Bolts
2x	M8 Flange Nuts on Wire
2x	M10x30 Countersunk Bolts
2x	M10 Flange Nuts on Wire
1x	[15655] 5m Nylon air line + hardware kit

Please contact our team for any issues or concerns you may have.
Polyair Springs | **Ph:** 02 9516 1182 | **Email:** info@polyair.com.au
Sales Office : 407 Princes Hwy, Sydenham, NSW 2044
Website : polyair.com.au


FRONT
Chassis
M10 Flange Nut On Wire
M8 Flange Nut On Wire
M8 CS Bolt
M10 Nyloc Nut
M10 Washer
Upper Bracket "L/R B"
5mm Spacer
3/8" CS Bolt
M10 CS Bolt
Upper Bracket "L/R A"
M10 Washer
M10x30 HH Bolt
Roll Plate
Bellow
Roll Plate
Lower Bracket
Airline Elbow
3/8" CS Bolt
Leaf Pack
Axle
U-Bolts
Driver's Side
RA
INBOARD
TO FRONT OF VEHICLE
RB
Passenger Side
LA
TO FRONT OF VEHICLE
INBOARD
LB

INSTALLING THE AIR BAGS

1. **Raise and Support Vehicle**
   - Raise the vehicle by the chassis using a hoist or jack stands.
   - Ensure the vehicle is stable, secure, and properly supported before beginning installation.
   - Note: The axle will need to be raised later during this procedure.

2. **Loosen U-Bolts**
   - Loosen the U-bolts enough to remove the factory bump stop from the leaf spring pack.
   - Leave the U-bolts loose at this stage.

3. **Install Airline Elbow (Part No. 33606)**
   - Thread the Airline Elbow into the air bellow by hand until finger tight.
   - Using a spanner, tighten the fitting an additional **1½ turns only.**

   Important: Over-tightening may cause air leaks and will void the warranty.

4. **Assemble Bellow and Brackets**
   - Position the roll plates on both ends of the bellow. - *(Lower end only if fitting a Cradle Kit)*
   - Attach the lower bracket to the end of the bellow that has the airline fitting.
   - Align the cut-out in the lower bracket with the airline fitting (see Page 2).
   - Secure using 2 x 3/8” countersunk bolts.
   - Attach the “Upper Bracket L/R B” to the opposite end of the bellow using 2 x 3/8” countersunk bolts (Follow bracket orientation diagram on Page.2) - (*Install Upper Bracket L/R B to Cradle if you are fitting a Cradle Kit).*

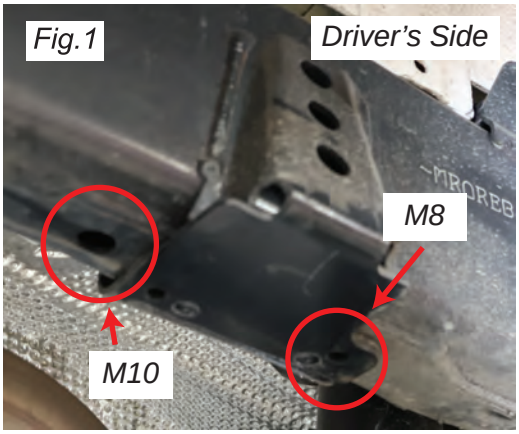
5. **Install Assembly to Leaf Springs**
   - Position the assembled unit onto the leaf springs.
   - The feet of the lower bracket sit underneath & are secured by the U-bolts.
   - Ensure the airline fitting faces inboard (toward the center of the vehicle).
   - Leave the assembly slightly loose at this stage to allow for final alignment adjustments.

6. **Secure Upper Bracket**
   - Prepare the Flange nuts : There is a hole on the inner side of the chassis, take both the M8 & M10 flange nuts on wire, and bend the wires to be able to feed the nut to the bottom of the chassis where the holes are (Fig.1)
   - Place the Upper Bracket B up against the chassis with the 5mm spacer in the orientation shown on page 2 - feed the M10 Countersunk bolt through the bracket & 5mm spacer, tighten to the flange nut.
   - Do the same with the M8 Countersunk. Ensure sure both sides are tight.

7. **Secure Assembly To Upper Bracket**
   - Raise the axle until the upper brackets meet and line up. - (*Skip if installing Cradle Kit).*
   - Secure upper brackets together with the M10x30 Hex Head bolts, M10 washer either side & M10 Nyloc nut as shown on page 2.

8. **Final Alignment and Tightening**
   - Ensure the assembly is as perpendicular as possible.
   - Tighten the U-Bolts down to vehicle manufacturer’s spec.
   - Check all other hardware is tight.

See next page for airline installation



INSTALLING THE AIR LINES

If you are fitting a Polyair compressor kit, follow those instructions from here.

A. Choose an ideal location for the Schrader valves. This location is best to be somewhere easy to reach.

B. Roughly guide the air hose from your valve location to the air bags to check the length will be adequate. If more is needed, please contact us to purchase additional air hose.

C. Drill an 8mm hole in your chosen location Or mount the Tow Mount Bracket if this was optioned.

D. Cut the air hose into two equal lengths with a hose cutter or any sharp, flat blade that will provide a clean, square cut.

E. Mount the Schrader valves in the orientation shown in Fig.A

F. Route the air hose from the Schrader valves along the frame of the vehicle to the air bags.
Note:
- Make sure to leave slack in the air line for any suspension movement.
- Do not run the air line against any sharp edges.
- Do not run the air line in a bend tighter than 90 degrees.
- Keep air line minimum 75-100mm clear of any heat source.

G. Secure the air hose with the cable ties provided.

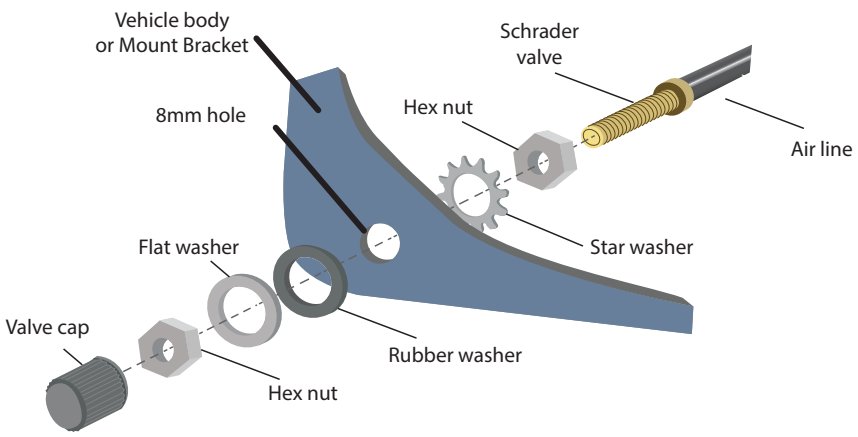
H. Inflate the air bags to 25psi and check all connections and air bags for leaks with soapy water.
(Make sure air bags are secure in the vehicle, never inflate unrestrained air bags).

I. If any leaks are detected, address the leak or contact Polyair for further assistance.

J. If no leaks appear, tighten or check over any parts that may have been loosened or removed during the installation process. Then place the vehicle back on the ground.

K. Adjust air pressure so the vehicle is sitting at correct ride height.

Sufficient air pressure must be maintained to prevent bottoming out and prolong the life of the air bags. A minimum of 5psi must be maintained at any time for unloaded vehicles. A vehicle with added weight may require additional pressure to maintain a "standard height". Contact Polyair for further advice if needed.



(Fig.A)

Follow the QR link below to view installation tips on our YouTube channel.

QUICK USAGE GUIDE

Please refer to the user guide included in this kit for detailed usage and maintenance.

POLYAIR LOAD ASSIST AIR BAGS DO NOT INCREASE THE VEHICLE'S GVM OR GCM

POLYAIR SYSTEMS ARE DESIGNED TO WORK ALONG SIDE THE VEHICLE'S EXISTING SUSPENSION AND IS NOT INTENDED TO BE A REPLACEMENT FOR SHOCK ABSORBERS OR LEAF / COIL SPRINGS.

IT IS STRONGLY RECOMMENDED THAT ANY POLYAIR KIT BE USED TO LEVEL VARYING OR TEMPORARY LOADS AND NOT SOLELY RELIED UPON FOR ANY HEAVY, PERMANENT WEIGHT.
ANY PERMANENT WEIGHT SHOULD BE LEVELED WITH THE CORRECT SHOCK & SPRING COMBINATION, THEN THE POLYAIR KIT USED FOR ADDITIONAL WEIGHT ABOVE THIS.

IF THE VEHICLE WILL BE RAISED ONTO A HOIST, IT IS ADVISED TO DEFLATE THE AIR BAGS TO THE MINIMUM 5PSI BEFORE HAND. THIS WILL PREVENT ANY HARM THAT MAY HAPPEN WITH THE AIR BAGS UNDER PRESSURE, PREVENT ANY UNDUE STRESS ON SUSPENSION COMPONENTS AND PREVENT DAMAGE TO THE AIR BAGS.

	MINIMUM PSI (UNLOADED)	MAXIMUM PSI	
RED SERIES	5 PSI	30 PSI	
ULTIMATE SERIES	5 PSI	60 PSI	
BELLOWS (ALL)	5 PSI	100 PSI	

AIR UP, THEN LOAD UP!
For in-coil air bag kits; It is highly recommended to inflate the air bags before loading the vehicle. E.g. Inflate air bag to maximum pressure (listed above), then load the vehicle or attach accessory to the tow hitch. Once everything is loaded up, deflate the pressure until the suspension sits at the correct height.
This height can be measured before hand for reference. Best practice is to measure center of wheel to guard on level ground when the vehicle has no load.

- Incorrect use of Polyair systems or failure to adhere to warnings & guidelines can result in damage to the air bags, various components or the vehicle itself and will not be covered by warranty.
- Never exceed the vehicle's GVM or GCM.

Head to our website to register your details to complete the product warranty. polyair.com.au/warranty