

# Single-Mode Manual Air Recovery System

Installation Instructions

Range Rover 4.0 / 4.6

**Please read these installation instructions before installing this product**



**DO NOT CUT THE MARS AIR LINES** – Make sure there is plenty of slack in the MARS lines when you connect the lines to the manual fill valve assembly. If there is too much slack, form a loop at the fill valve assembly and push the lines in front of the headlight. The EAS system and MARS use a type of connector that forms a seal around the *outside* diameter of the air line. It is extremely important to make sure both the factory air lines and the MARS air lines are not pinched or deformed at their ends. Since the connectors seal around the outside of the air lines, any imperfection at the seal presents a perfect opportunity for a leak. If trimming is done to *any* air line, be sure to use a razor or other suitable cutting tool. Cut the line at a 90° angle and free of any burrs.

The Manual Air Recovery System uses a connector that converts the tube diameter from 6mm to ¼ inch. The factory Land Rover air lines are 6mm and the MARS air lines are ¼ inch. The converting connector is labeled appropriately on each end of the release collar. Leaks will develop if the factory Land Rover air lines are not connected to the 6mm side of the converting connector!

Another situation to avoid is an extreme angle at the point of connection. If an air line is not at a 90° angle at the connector, there is a greater chance for a leak. Stress at the point of connection will cause the air line to deform and not seal properly.

## Locate and Mount Fill Valve Assembly

1. Push the expanding nut into the large hole on the core support; in front of the air cleaner box.
3. Adjust the bracket so the vertical wings on the bracket are touching the core support.
4. Tighten the bolt to secure the mounting bracket.



## Route MARS Air Lines to the Valve Block

1. Route the MARS air lines to the valve block / EAS compartment
  - \* Keep air lines away from hot and moving parts
  - \* Secure air lines to prevent any unwanted abrasion or stress

## Connect MARS Air Lines to the Factory Air Lines

1. Release the air lines at the valve block. Push the collar that surrounds the air line in using a flat-blade screwdriver. **DO NOT PRY THE COLLAR.**
2. While pushing the collar in, pull the air line out. Once the line is free, gently move it aside.
3. Clean the area surrounding the collar making sure to keep dirt and debris away from the air line and air spring connector.
4. Firmly push each factory air line into its corresponding MARS air line connector.
  - \* Air Line locations are in the following order (see picture)



Rear Driver	Front Passenger
Rear Passenger	Front Driver