

## **IMPORTANT**

### **Preventative Maintenance and Safety Inspections**

The Smart-Tow system A-Frame and Vacuum Power Braking system must be inspected, tested and maintained on a regular basis as follows.

#### **Safety Inspection**

Prior to each and every towing event (journey) the security and condition of the tow points must be checked. Ensure the threads are screwed fully in and are tight without any play. Ensure the "D" pins are correctly inserted, locked and show no signs of damage. Also check the security and integrity of the A-Frame making sure all bolts and connections are tight, secure and without any play.

The correct function of the SmartBoxDUO electronic vacuum braking system must be checked. With the rig hitched and connected check the operation and functionality of the following :-

1. Test pull the breakaway pin to ensure the brakes operate,
2. Test the sensitivity and correct adjustment of the G sensor. With someone in the towing vehicle have them apply the foot brake whilst you adjust the G sensor sensitivity. The brakes should operate on the lowest sensitivity. Adjust until on the threshold of operation then de-sensitise upwards by approx 10mm to ensure the system does not over operate in normal use. Caution: over sensitivity over a long period may cause damage to the pump unit, CMS bar, A-Frame or other components.
3. Test functionality of all lights, including sidelights, stop lights, indicators, fog lights etc.

Particular attention must be made to the 50mm ball hitch and its connection with the towball – two green indicators act as a guide to correct connection.

## **Preventative Maintenance**

There is a minimum recommended inspection & maintenance procedure that must be carried out by an Authorised Smart-Tow Installation Centre every 12 months or 5,000 towed miles whichever occurs soonest. This will include, amongst other things:-

1. Inspection of A-Frame for loose or damaged components, correct function of the A-Frame and Coupling Hitch.
2. Inspection of CMS Bar for tightness or damage, tow points for damage or cracking, wear/damage to thread and locating pin holes, other checking as may be deemed necessary by vehicle type.
3. Check Electrical socket functions.
4. Operation of the Breakaway Switch and inspection for any corrosion.
5. Inspection of U/J Joints & Pins for loose or damaged components & correct function.
6. Operation and performance of vacuum pump unit.
7. Operation and performance of in car G Sensor & Control box.
8. Operation and performance of all air & vacuum connections for wear/damage +pipes and brake switch operation indicators if any.
9. Operation and performance of brake Air Piston together with connecting wire cable and anchor point for signs of wear/damage.
10. Operation of vehicle Lights and condition of connections to towing vehicle.
11. Any other related function critical to the safe and correct operation of the Smart-Tow System.
12. Record Vehicle Model, Reg number, VIN number, Mileage and Date.

NB: Failure to adhere to the Preventative Maintenance schedule and Safety Inspections will invalidate any extended warranty of the Product.

If you have any questions or concerns regarding these instructions please call your Install Centre directly or Smart-Tow on 07950 968348.