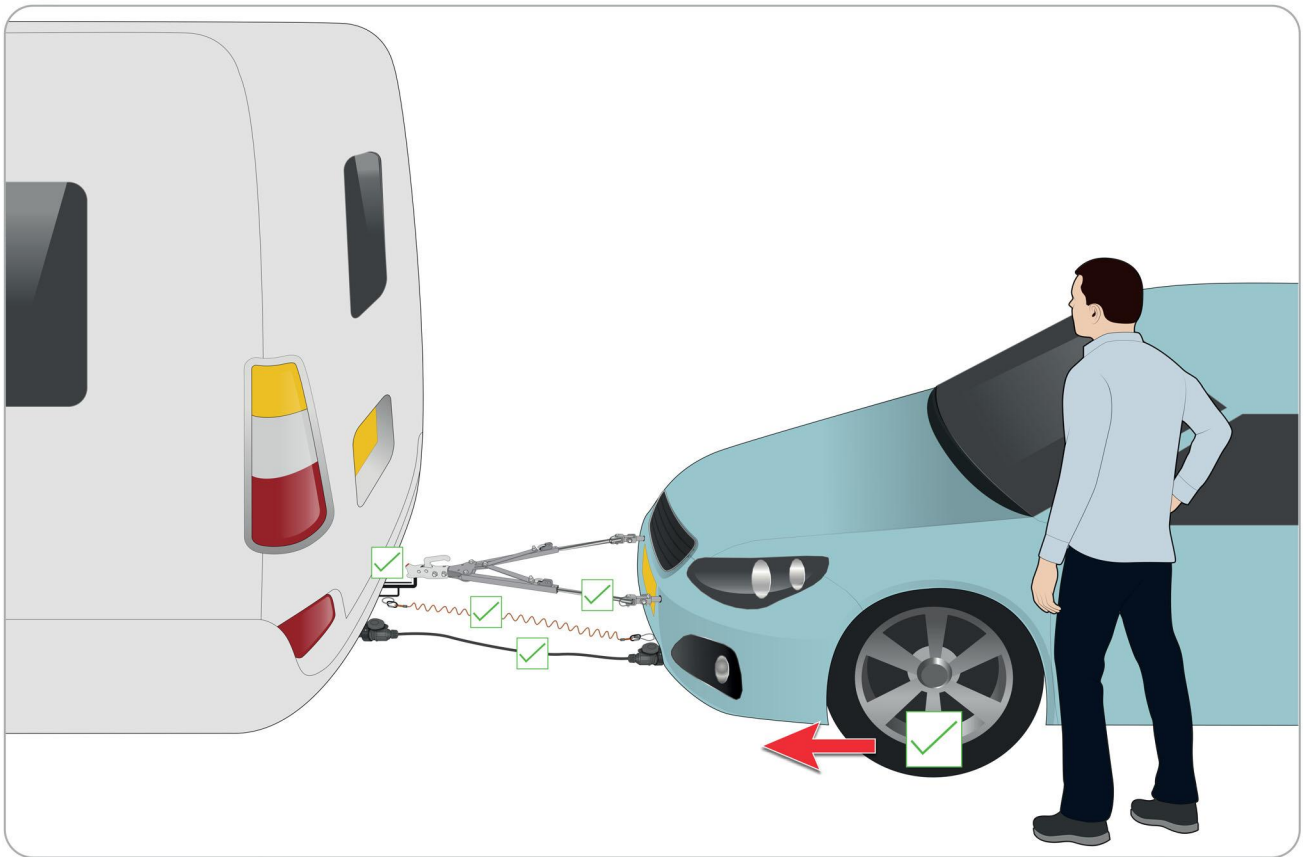


Tow A Frame



A FRAME USER GUIDE
SAFER TOWING

QUICK GUIDE

- 1.** Remove cover from tow eyes at front of car.
- 2.** Push Pozilock pin in all the way, rotate clockwise until stops – test pull pin is secure.
- 3.** Extend A frame legs [Tow TOUGH] fully secure with D pins.
- 4.** Open A frame legs wide enough to align ends with the tow pins in the front of the vehicle.
- 5.** Connect offside first secure with D Pin – Rest the hitch on the floor.
- 6.** Connect nearside secure with D pin.
- 7.** Use Tow WEDGIT [if available] to lock A frame in the horizontal position ready to align the tow hitch and tow ball.
- 8.** Align tow car and motorhome in a straight line, wheels straight facing the direction of travel.
- 9.** Move hitch (handle up) over tow ball and press down.
- 10.** When correctly locked the handle will snap shut to horizontal position and the green locked indicator will also be visible.
- 11.** Connect emergency breakaway switch cable.
- 12.** Switch over rear number plate.
- 13.** Fit rear reflective triangles – visible to the rear.
- 14.** Switch unit on in car.
- 15.** Remove breakaway pin – observe brake pedal actuation (movement) and pump engagement.
- 16.** Refit breakaway pin – connect to secure place on rear of motorhome.

- 17.** In car check transmission in neutral.
- 18.** Check steering lock disabled.
- 19.** Check ignition off and dash asleep/no display visible.
- 20.** Connect electrical cable.
- 21.** Check all rear lighting is working and reflective triangles visible.
- 22.** Tow GLIDE Double lock A frame.
 - a) Pull away in a straight line for about 20 feet – you may hear or feel the legs lock
 - b) You **MUST** get out to check the pins are in the UP position (LOCKED) if so, fit the second D pin in the leg to double lock the leg.
 - c) You **MUST** only tow when the A frame legs are locked, and double lock D pins are both correctly fitted and secured.

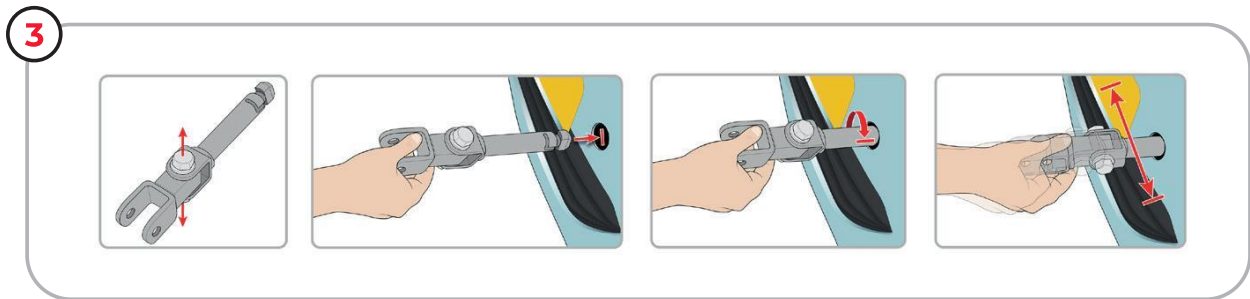


You MUST log mileage to record use

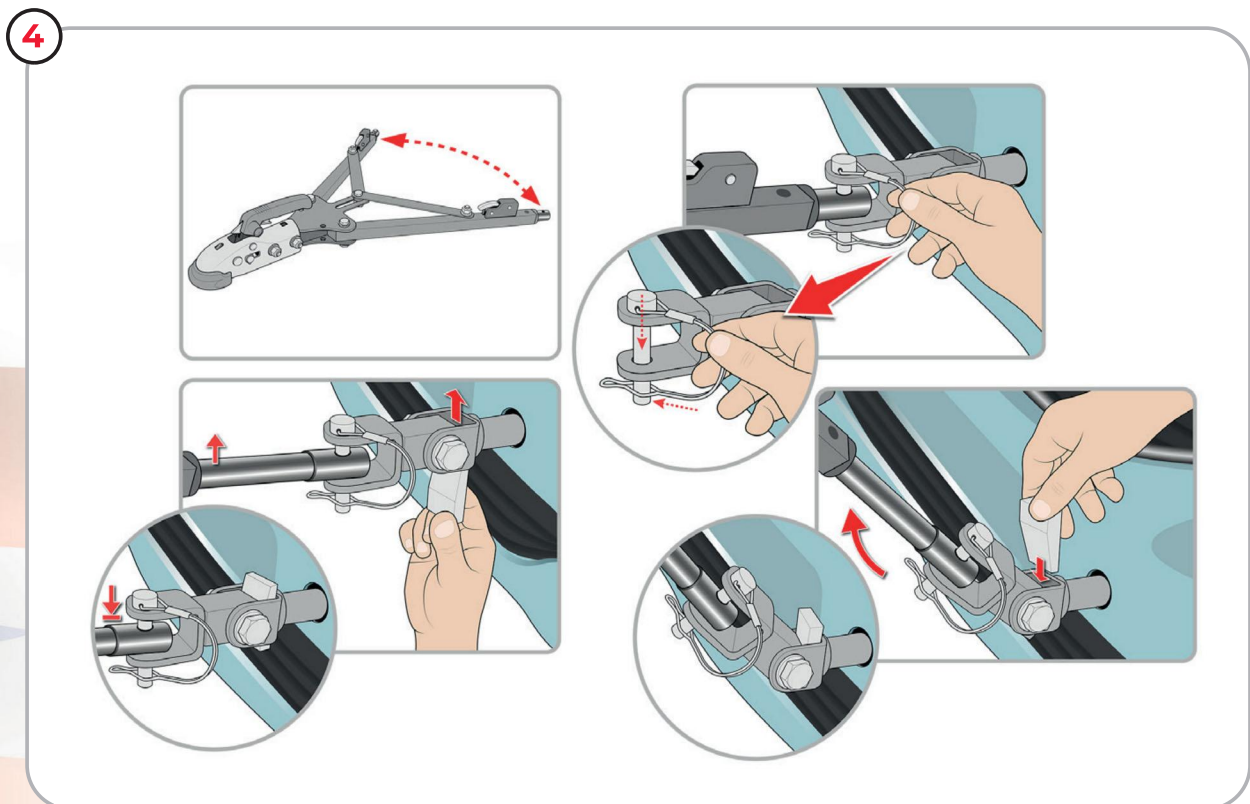
- **You MUST follow essential servicing plan**
- **If any components are not working correctly you MUST NOT tow**

1 Align both Tow vehicle and vehicle to be towed as a trailer, ready to be connected.

2 Remove tow eye covers.



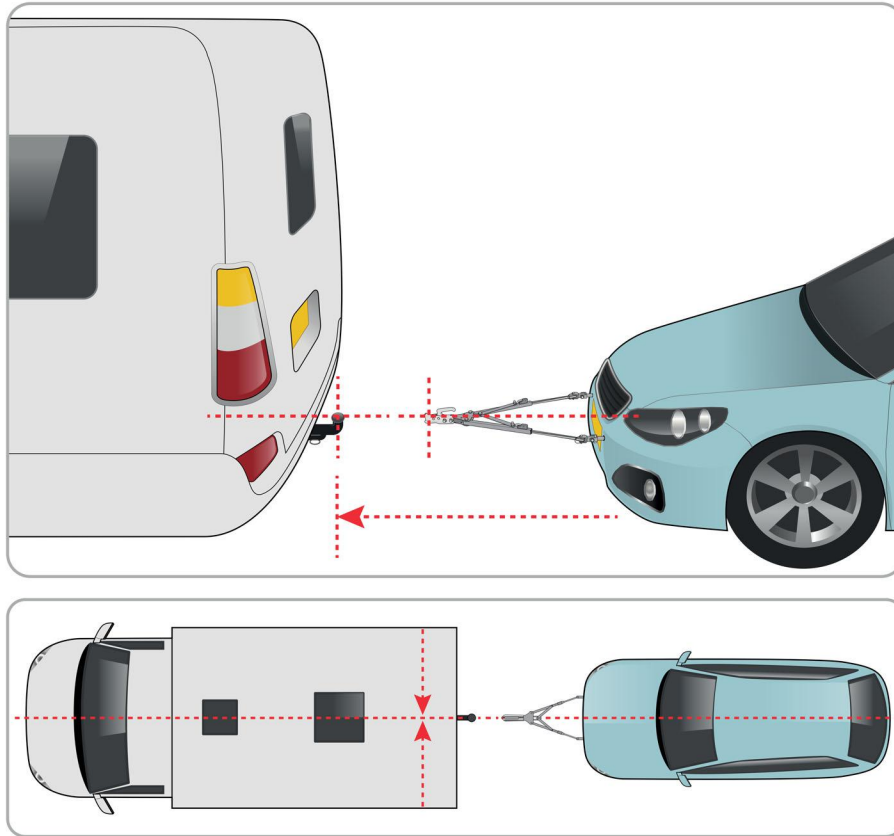
Locate and insert Pozilock pins fully, turn clockwise until they locate and lock in position – test pull the pin to ensure correctly locked.



Open A frame wide to allow connection – use D Pins to secure A frame to Tow Pins.

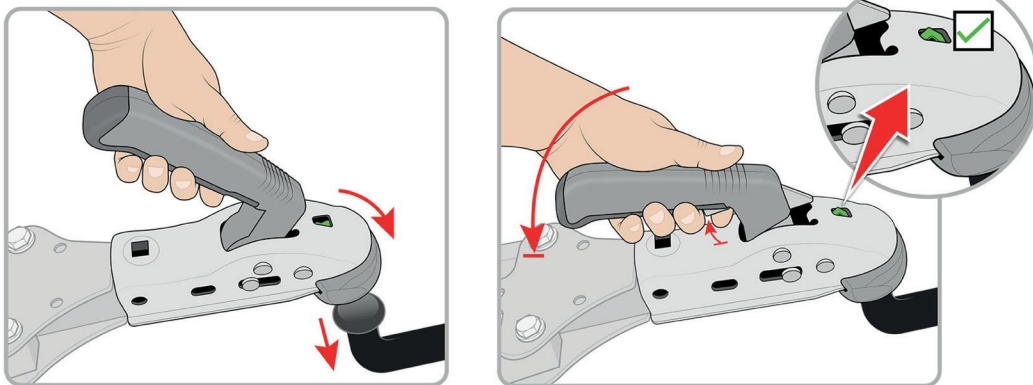
- If available use the Tow WEDGIT to lock the A frame horizontally – allowing for easier alignment of the tow hitch to tow ball, for manoeuvring use only.
- **You MUST NOT drive on the public road with A frame attached if not connected to the Tow ball.**

5



Align both vehicles carefully and with caution move close enough to enable connection of the tow hitch to the tow ball, always connect on flat even ground.

6



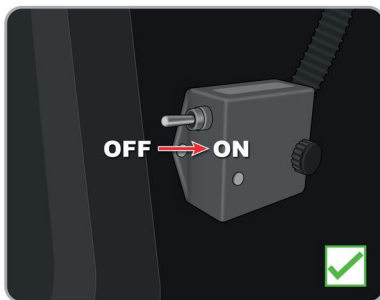
Correctly lock the Tow hitch over the tow ball, the hitch handle will snap shut (Caution!) to lock in the horizontal position and the green connection indicator on the hitch will be visible – If these are not both correct you **must not** tow.

7



Connect emergency breakaway cable to breakaway pin – you **must** secure it to suitable secure location at the rear of the motorhome.

8



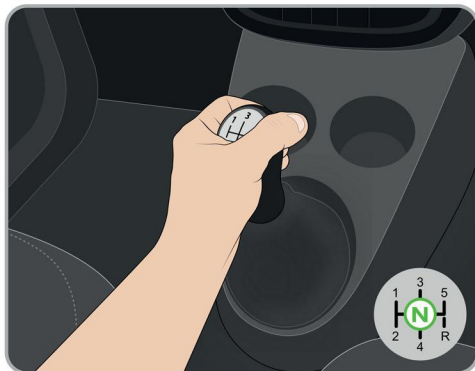
Inside car Switch G force sensor ON for towing.

9



ONLY when the tow ball is connected and safe to do so release parking brake (cover the foot brake in case the vehicle moves – if vehicle static proceed).

10



Ensure the vehicle is correctly in neutral.

11



Insert key in ignition barrel, turn on fully then off again fully, ensure the dash is not illuminated and you **must** leave the key in the ignition to disable the steering lock.

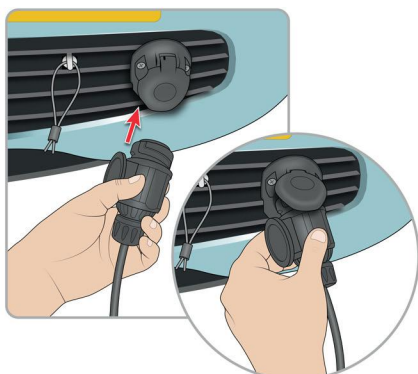
12



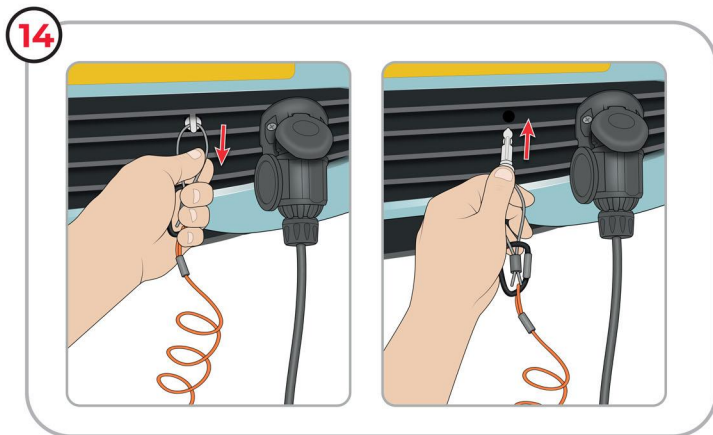
Check the steering lock is disabled and the steering wheel free to move by turning left and right half a turn.

- ❗ With Automated manual transmission ensure foot is on brake pedal – select neutral with gear lever – check dash displays “N” Neutral and switch ignition off fully but leave key in lock to disable steering lock..
- ❗ Models with starter button ignition **must** have suitable bypass or mode to disable the steering lock when towing, close the vehicle and you **must** lock the car.

13



Only connect the vehicle lighting if the tow vehicle is NOT running, connect the electrical cables, make sure they are not dragging on the floor and correctly secured – used shoulder D pins as cable guides, ensure base of d pins are correctly located (clipped over the end). **Never have both vehicles running if the electrical cable is connected.**



You **must** remove the break-away pin to test and prime the system.

- ❗ You **must** hear the pump running
- ❗ You **must** check the brake pedal is depressed by the actuator

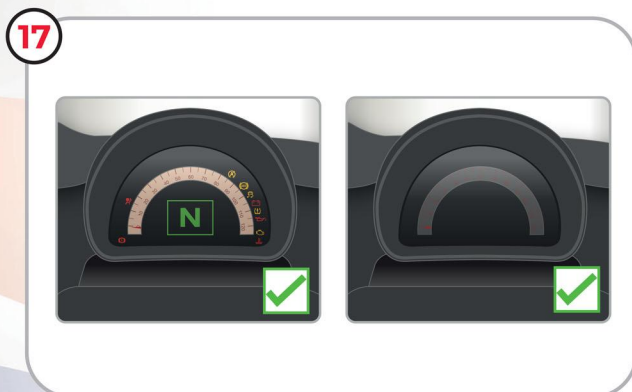
✓ If yes to both refit the breakaway switch and safe to tow.

✗ If not Do not tow unless fully functioning as described.



You **must** fit the number plate of tow vehicle to rear of towed vehicle, you **must** fit obligatory rear reflective triangles.

16 Now you **must** check all the rear lighting is correctly working on both vehicles.

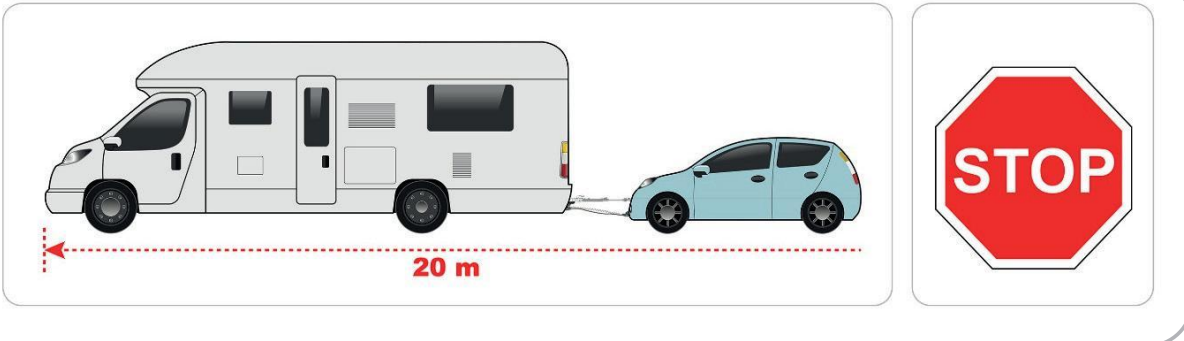


The dash display/screen **must** be fully asleep e.g., no display showing before towing. (Some models may take 2 mins to go to sleep), if practicable close the car and lock it.

- ❗ Leaving the ignition on will drain battery and may cause ESP/ABS to activate independently this **MUST** be fully off and the display asleep before towing.

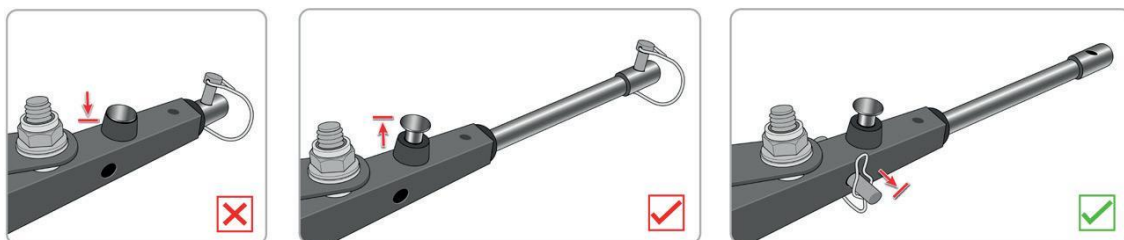
[TOW GLIDE+ GLIDE DOUBLELOCK]

18

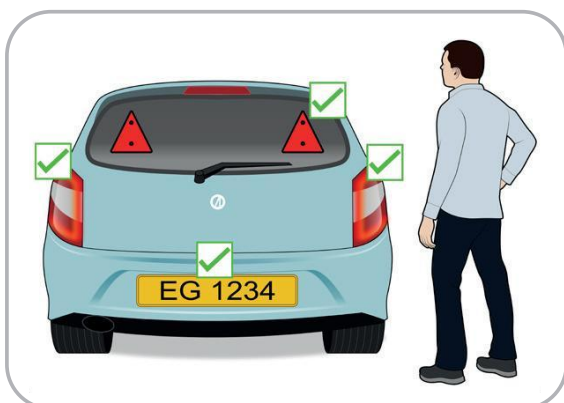


Pull away in a straight line until the legs lock (you may hear or feel it locate), stop carefully and you **must** get out and check the legs are fully extended and locked (both buttons up) if correctly locked you **must** fit the double lock pins before you are ready to tow.

19



- ✘ Leg unlocked button-down
- ✓ Leg Locked Button UP
- ✓ D pin inserted for double lock



READY TO TOW

Remember your overall length is much greater. Avoid blocking yellow hatched areas, junctions and exits and crossings, the towed unit will cut the corner so drive accordingly.

DISCONNECTING

You **must** always ensure the safety of everyone around you when manoeuvring vehicles, do not allow yourself or another to be in a position where you may be injured.

Always connect and disconnect on a level and flat surface.

- 1.** Apply vehicle handbrake ON.
- 2.** Switch G force unit OFF in car.
- 3.** Disconnect emergency breakaway cable (You **must** leave emergency breakaway pin in place in the switch – Only remove for test or emergencies) – Inspect for damage or wear, lubricate and clean off before storage.
- 4.** Disconnect electrical connectors – Inspect for damage or wear, lubricate and clean off before storage.
- 5.** Disconnect hitch from Tow ball (Caution it may be under tension).
- 6.** Disconnect A frame – Inspect for damage or wear, lubricate and clean off before storage. Store with legs shortened.
You **must** never tow with the legs in the storage position.
- 7.** Disconnect tow pins – turn anticlockwise 90 degrees – pull carefully to remove – Inspect for damage or wear, lubricate and clean off before storage.
- 8.** Refit tow eye cover/grommets.
- 9.** Change rear number plate – ensure each vehicle is displaying the correct number plate – store any spare number plate.
- 10.** Remove rear reflective triangles – inspect for damage or wear, clean before storage.
- 11.** Remove key from ignition and secure vehicle.

TECHNICAL



Overview of seven pins (ISO 1724*)

Pin	Function	Colour
1 / L	Left Indicator Light	Yellow
2 / 54g	Fog Light	Blue
3 / 31	Earth	White
4 / R	Right Indicator Light	Green
5 / 58R	Right Rear Light	Brown
6 / 54	Brake Light	Red
7 / 58L	Left Rear Light	Black

Extra pin (optional)

2a	Mistlampuitschakeling	Grey
----	-----------------------	------

* Specifies a seven-pin wiring kit for a 12-volt electrical system.



Overview of thirteen-pin (DIN 11446*)

Pin	Function	Colour
1 / L	Left Indicator Light	Yellow
2 / 54g	Fog Light	Blue
3 / 31	Earth	White
4 / R	Right Indicator Light	Green
5 / 58R	Right Rear Light	Brown
6 / 54	Brake Light	Red
7 / 58L	Left Rear Light	Black
8	Reversing Lights	Pink
9	Constant power	Orange
10	Ignition connected power	Dark Grey
11	Earth (pin 10)	White / Black
12	Trailer Recognition	Light Grey
13	Earth (for pin 9)	White / Red

Extra pool (optional)

14 / 2a	Mistlamp uitschakeling	Grey
---------	------------------------	------

* Specifies a thirteen-pin wiring kit for a 12-volt electrical system.

TROUBLESHOOTING

After removing emergency pin with system live no pump operating

Check fuse by battery, Check battery voltage, Check the electrical contacts inside the emergency breakaway switch – test for continuity, Check relay inside pump housing.

Pump works but brake pedal does not move when tested

Check anchor cable from piston to bulkhead is not damaged or faulty, check the air line for correct pressure/no leaks.

Alko hitch wont lock or open correctly

Check for debris or damage or wear, lubricate clean and dry.

Tow GLIDE leg wont lock

Check for debris or damage – if you can fully extend leg – and double lock you can tow for emergency purposes only, Send unit for inspection/repair as soon as practicable.

Tow GLIDE leg won't extend freely

Check, clean and lubricate.

Hitch won't release after towing

Both vehicles **must** be on the flat and level or there may be tension present preventing release, if the vehicles cannot be moved to release tension alternatively try removing the D pins at the Pozilock pin end first – gentle rocking of vehicle may help.

The car is braking the motorhome

- The G force sensor will be more sensitive if travelling downhill – if normal braking is resumed on the flat/level this is normal.
- Check the sensitivity setting of the G force sensor – it should be between 2 o'clock and 3 o'clock position.
- Check the G force sensor has not been physically moved – it should be nose up 5 degrees from horizontal.
- Reset the sensitivity following this media clip from manufactured Demco: <http://shorturl.at/guvR1>

The towed vehicle lights are not working when connected

- Disconnect both vehicles and test the tow car and tow vehicle independently.
- If lighting is not working test continuity of the connecting cable.
- Check socket on the motorhome for correct connection.
- Check socket on the tow car for correct connection

ESSENTIAL SERVICING GUIDE

FULL SERVICE must be carried out at least every two years or 10,000 towed miles whichever sooner.

3 hrs approx.

- Remove front of the vehicle and inspect CMS crash bar for damage or corrosion or fatigue
- Check and test tow pins for damage wear or fatigue, ensure correct alignment.
- Check and test pump operation
- Check and test breakaway cable unit operation
- Check and test universal joints
- Check and test A frame for wear damage or fatigue
- Check and Test Tow hitch for operation and wear
- Check and test all vacuum pipes for leaks
- Check and test piston and cable tension and condition on brake actuator
- Check and test all electrics
- Check and test G sensor calibration
- Check and test function of the system
- Road test and report any defects
- Check A frame hitch torque 86 Nm – check hitch wear indicator – check hitch locking mechanism
- Check A frame legs for smooth operation and wear – Lubricate glide legs with silicone grease

ESSENTIAL SERVICING GUIDE

SAFETY CHECK AND TEST must be carried out yearly or 5000 towed miles whichever sooner.

1.5 hrs approx.

- Check and test breakaway cable unit function
- Check and test tow pins and A frame for damage wear or fatigue
- Check and test vacuum pipes for leaks
- Check and test piston and cable tension on brake pedal
- Check and test electrics and G sensor
- Check and test function of system
- Road test and report any defects

Servicing is mandatory.

Safety check and test system

Every year (1) or 5000 towed miles, whichever sooner.

Full Service

Every two (2) years or 10,000 towed miles, whichever sooner.

Should any faults be found these will be subject to further charges.

SERVICE HISTORY

Installation Date _____ Installed By _____

Serial Number _____ VRM _____

Mileage _____

■ SERVICE A

Date _____ Name _____ Mileage _____

Notes _____

■ SERVICE B

Date _____ Name _____ Mileage _____

Notes _____

■ SERVICE A

Date _____ Name _____ Mileage _____

Notes _____

■ SERVICE B

Date _____ Name _____ Mileage _____

Notes _____

■ SERVICE A

Date _____ Name _____ Mileage _____

Notes _____

■ SERVICE B

Date _____ Name _____ Mileage _____

Notes _____

	Date	Mileage Start	Mileage End	Total
1.	_____	_____	_____	_____
2.	_____	_____	_____	_____
3.	_____	_____	_____	_____
4.	_____	_____	_____	_____
5.	_____	_____	_____	_____
6.	_____	_____	_____	_____
7.	_____	_____	_____	_____
8.	_____	_____	_____	_____
9.	_____	_____	_____	_____
10.	_____	_____	_____	_____

Tow A Frame

