

TRUCKER 14 - TRUCK MIRROR ANTENNA

Remove plastic protective cap to tune

Main adjustment
Cut radiator until
resonance is reached
(can be up to several cm)

Only for fine tuning
and correction

Fixing screw here



High-quality Lambda 5/8 mobile antenna including mirror mount and connection cable with PL plug. A low-loss, heavy-duty air coil enables all transmission powers common in mobile communications. The antenna is particularly suitable for mounting on the exterior mirrors of trucks and, thanks to its special design, can withstand extreme mechanical and weather-related loads. The antenna radiator is made of glass fiber with a strong inner conductor, the metal parts are made of chrome-plated steel or brass and aluminum (mirror holder).

Assembly:

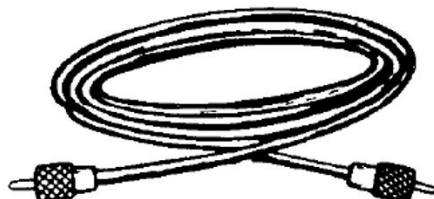
Attach the mirror holder to the holding strut of the mirror (by moving the holding bracket, installation can be done on both horizontal and vertical struts). In any case, make sure there is a good connection to the vehicle ground! Screw the trucker antenna onto the holder and connect the included cable. Before you start radio operation, a standing wave adjustment should be carried out.

Standing wave adjustment:

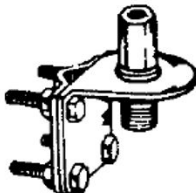
For standing wave adjustment you need an SWR meter that is looped between the radio and the antenna. Since the antenna is intended to be usable for a large frequency range from 26 MHz (CB) up to the 10 m band (30 MHz), the radiator is manufactured as standard for the lowest frequency (approx. 26 MHz) and is therefore slightly longer than necessary must therefore be sawn off until the best resonance (SWR) is achieved at the desired frequency (e.g. 27.065 MHz). The tuning also depends on the mirror holder and therefore only applies to the truck in question.

Pull off the top protective cap.

Measure the SWR at the lower and upper ends of the band (e.g. channels 1 and 40 or better still channel 41 (lowest German frequency) and channel 40) and carefully saw off 1 centimeter from the radiator several times if necessary and then measure again until you reach the best SWR in the middle of the band.



Mounting only on metallic mirror-holder



If you have sawn off too much, after loosening the grub screw you can pull out the metallic spotlight part in the cm area, fix it again and thus compensate for the piece that was sawn off too much. The antenna is of the correct length when the SWR degrades equally towards higher frequencies and lower frequencies. An antenna that is too long is better on the lower channels (around 41 or 1), while an antenna that is too short is better on the upper channels (around channel 40).

This antenna can also be used for frequencies in the amateur radio 10 m band by further shortening the radiator, but you should be particularly careful when doing this, as once the radiator has been shortened, it cannot be lengthened! Since there are many factors that can affect the standing wave ratio, if you have problems, please check the following:

Is the ground (minus) connection of the holder OK?

What is the quality of the cable or connector? Only use the included cable or good RG58-U quality!

If possible, carry out the standing wave adjustment outdoors and not in a garage or hall.

Too little ground area, especially on vehicles with a plastic roof or body.

The installation location is too low. Approximately 2/3 of the antenna should protrude above the vehicle roof.

Technical data:

Type: 5/8λ – Frequency range: 26 to approx. 30MHz

Bandwidth: 2400 KHz

Power (max.): 1000 watts PEP (SSB) - SWR: < 1:1.5 (in band center)

Impedance: 50 Ω

Length: max. 144 cm (unshortened), including foot 150 cm