GF 401/...

O dB Mobile GlassFix® Antenna for the 450 MHz Band

DESCRIPTION

- Half-wave, 0 dB mobile antenna for the 450 MHz band using the GlassFix® mounting principle.
- Mounting on car window glass no holes required.
- Double-adhesion procedure ensures fast and reliable fixing.
- Internal matching unit feeds external antenna through window glass.
- Half-wave design no ground plane required.
- High positioning gives performance equal to conventionally mounted car roof antenna.
- FME FastCabling system (cable to be ordered separately).
- Simple tuning procedure by means of tuning screw on matching unit.
- Easy removable whip for car wash.
- Swivel joint for 180° angle adjustment.
- If removal of antenna installation is necessary, a quick dismantling procedure leaves no trace of the installation.



NOTE

GF antennas are not suitable for car models with windows that have heat reflective coating.

ORDERING DESIGNATIONS

TUNING RANGE	TYPE NO.
380 410 MHz	GF 401/s
406 470 MHz	GF 401/I
430 470 MHz	GF 401/h

To select the correct model for a specific CELLULAR network please consult the survey of cellular network frequencies which can be found under USEFUL DATA in our catalogues. This survey also states preferred tuning centre frequencies.

SPECIFICATIONS

ELECTRICAL		
MODEL	GF 401/	
ANTENNA TYPE	1/2 λ mobile GlassFix®antenna	
FREQUENCY 450 MHz band covered by three tunable models		
IMPEDANCE	Nom. 50 Ω	
POLARIZATION	Vertical	
GAIN	0 dB (acc. to EIA RS-329-1)	
BANDWIDTH	DWIDTH ≥ 10 MHz @ SWR ≤ 1.5 ≥ 18 MHz @ SWR ≤ 2.0	
SWR	≤ 1.3 @ f.res.	
MAX. POWER	25 W	
MECHANICAL		
MATERIALS	Whip: Stainless steel and black-chromed brass Mount and indoor unit: Environment-proof plastics Corrosion-safe and corrosion-protected metals	
CABLE	FME-cable to be ordered separately	
COLOUR	Black	
HEIGHT	EIGHT Approx. 28 cm	
WEIGHT	Approx. 65 g	
MOUNTING	On car windows with silicone glue (52 mm x 47 mm obstruction-free mounting area required)	
GLASS THICKNESS	2.5 – 7.0 mm	

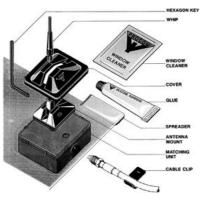
FME-SYSTEM ACCESSORIES

FME-CABLES	
LENGTH	TYPE NO.
1 m	1 m FME
2 m	2 m FME
3 m	3 m FME
4 m	4 m FME
5 m	5 m FME
6 m	6 m FME
4 m white	4 m FME-white
6 m white	6 m FME-white
12 m white	12 m FME-white
18 m white	18 m FME-white

For further information about other types of FME-cables please compare the cable data sheets under accessories in our catalogue.

FME-CONNECTORS		
CONNECTOR	ORDER NO.	
FME-FME	FME-FME	
Prolongation	FME-P	
N	FME-N	
FSMA	FME-FSMA	
BNC	FME-BNC	
TNC	FME.TNC	
UHF	FME-UHF	
Mini-UHF	FME-MUHF	
Elbow-MUHF	FME-EMUHF	
Elbow-BNC	FME-EBNC	
Elbow-TNC	FME-ETNC	
SMA	FME-SMA	

ASSEMBLY DETAILS



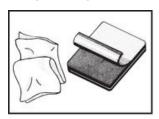


INSTALLATION

1. BEFORE INSTALLATION

- When selecting mounting location take into consideration: positions
 of back view mirror, wiper blade paths and defogger wires (when
 mounting on rear window). The driver's view should not be
 obstructed.
- Max. allowed curvature of the glass surface on the mounting spot is 2 mm deflection per 100 mm length.
- Environmental- and car temperature must be above 15° C at installation, and surfaces to be glued must be dry and clean.

2. INSTALLATION



 Clean both sides of the windscreen, where the antennamount and the matching unitare to be fitted and then remove the protective foil from the antennamount.



Fit mount to screen and press firmly Apply glue along the edge between mount and glass.



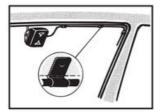
3. Apply glue to the cover.



 Fit the cover and press down firmly The antenna whip can now be fitted.



 Remove the protective foil on the matching unit.



 Fit matching unit by pressing it firmlyinto position. Secure cable using clips provided.

3. AFTER INSTALLATION

 Allow the silicone gluings to dry off 2 hours at a temperature above 15° C. To ensure full strength of the glue, it is recommended to keep the whip off the mount for 24 hours.

4. TUNING INSTRUCTIONS

- Insert a forward/reflection-type wattmeter between the transmitter and the antenna.
- Key the transmitter and observe the forward and the reflected power.
- Adjust the tuning screw on the matching unit until minimum returned power is obtained.

REINSTALLATION KIT

A reinstallation kit including all necessary parts for transfer of the antenna to another vehicle is available under order No. »GF-RK«.

WARNING

SAFETY PRECAUTIONS

Antennas mounted on the windscreen may cause relatively high field strengths in the passenger cabin and near the dashboard.

- To prevent health hazard due to RF radiation, persons must not be closer than 30 cm to the antenna whip (transmitter output power to the matching unit: 20 watts). (DIN 57 848).
- 2. The RF signals at the dashboard may cause interference in the car's electronic equipment such as broadcast radio, computer automatics, braking systems, electronic ignition, relays etc. Some cars are more susceptible to disturbances than others.

 It is the respectibility of the installer to carry out a thereuse sheek.

It is the responsibility of the installer to carry out a thorough check of the proper functioning under any conditions of such circuits before finishing installation.

The enclosed silicone adhesive contains acetic acid and fungicides. Keep out of reach of children and dispose properly.



PROCOM A/S reserve the right to amend specifications without prior notice.

29/11/2010

