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Prismaplus Installation Guide For service staff only

Version dated February 2006

Consult our website regularly for the most recent version of our manual www.prismaflex.com/products/pdf/Prismaplus-EN-Low-Res.pdf

Before you assemble and mount Prismaplus, think about the following...

- 1) A poor mounting will *always* result in problems and premature wear of the parts.
- It is preferable that the drive beam is supported throughout its length with a beam of sufficient size. If support brackets are used, they should not be far apart.
- It is extremely important that the top and drive beams are mounted completely horizontal & parallel, and that they do not tip forward or backward, or warp.
- 4) Always mount a rigid back cover (wind break) behind the sign, preventing wind turbulences and light shining through the prisms. You may fix the back cover right onto the upper and lower mounting rails. In snowy locations, cut out an opening along the lower end of the sign preventing accumulation of snow. This opening should be approx. 10 cm high and made throughout the length of the sign. Furthermore, in the event that there is space between sign and wind break, we strongly recommend side enclosures as well.
- 5) It is recommended to drill drainage holes (at least 8 mm diameter) every 500 mm through the bottom of the lower mounting rail to prevent accumulation of rain, snow or sand in the drive beam.
- 6) After the assembly, ensure that there are no mounting bolts or nuts inside the drive beam that could get in the way of the rotating parts.
- Check that there is a sufficient and equal gap between all the prisms (check all three faces). If needed, remove vinyl and paper cuttings from the gap.
- 8) To ensure a smooth wave movement, check that all shaft gears are lined up (see 6.4).
- For the split version, make sure to follow the recommended number of clips and distance between them (section 10). Furthermore, check that the blades are secured properly by the clips, both slide-in and snap-in (section 11).
- 10) All units of measure used in this Installation Guide are metric. Note that:
 - 1 inch = 25.4 mm
 - 1 foot = 304.8 mm





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3. IF SIGN IS WIDER THAN 4 M (more than 38 prisms)

...the mounting rails will consist of two or more sections.

- 3.1 Start with the shortest mounting rail sections and fix in the same manner as points 2.1 & 2.2
- 3.2 Remove side beam and end plates on the right-hand side.



4. FIXING MODULES ONTO THE TOP MOUNTING RAIL

4.1 Thread the nuts onto the screws and insert into the tracks.3 screws per top module (frame screw kit) and 1 screw per corner module (corner screw kit).



5. FIXING THE MOTOR MODULE ONTO THE BOTTOM MOUNTING RAIL

5.1 Thread the nuts onto the screws and insert into the tracks. In the lower track, 3 screws (frame screw kit) per drive module, plus 1 from the corner screw kit. In the upper track, 1 screw from the corner screw kit.



5. (CONT.) FIXING THE MOTOR MODULE ONTO THE BOTTOM MOUNTING RAIL

5.4 Place the motor cover edge to edge with the mounting rail and ...



5.5 With the socket wrench provided, tighten the nuts on the moter cover and the drive module. Ensure that the motor cover is lined up with the outer edge of the mounting rail (as per *Picture 2*).





6. FIXING DRIVE MODULES ONTO BOTTOM RAIL Note: if your sign has two motors, refer to section 7 as well.

6.1 Hang a drive module next to the motor module. Secure the shaft supports with the screws. Tighten the nuts with the socket wrench provided.



6.2 Fixing the remaining drive modules

Hang the second drive module onto the mounting rail and slide it until it meets the first one. Fasten the three shaft supports with screws and tighten nuts.

NOTE: Do not fit the shaft coupling between module one and two yet. This will be done at a later stage (ref. 6.5).



6. (CONT.) FIXING DRIVE MODULES ONTO BOTTOM RAIL Note: if your sign has two motors, refer to section 7 as well.

6.3 Fit the shaft coupling onto the right-hand shaft end of the second drive module. Fit the third module to the mounting rail.



6.4 Align the last cog of the module with the first one of the next module.
Fit the shaft coupling onto the shaft and tighten it. Turn the shaft to tighten both screws.

Proceed until all drive modules are fitted.

NO YES VIES VIES

6.5 Fit the last coupling between drive modules one and two. Turn the free end of the shaft with the wrench to align the shaft. Finally, hang the corner module as per 4.2. If your sign has 2 motors, refer to section 7 at this point.







8. FIXING SIDE BEAMS & END PLATES

Place the left-hand side beam and bottom end plate.

Place the right-hand beam in the same manner.



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9.1 Hang the cover plates onto the drive module.



9.2 Push on the cover plates until they snap into the correct position.



FOR SERVICE STAFF ONLY 10. CONNECTING THE CONTROL UNIT (BASIC OPTION PLUS - BOP) WARNINGS!





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FOR SERVICE STAFF ONLY 10. (CONT.) CONNECTING THE CONTROL UNIT (BASIC OPTION PLUS - BOP)



FOR SERVICE STAFF ONLY 11. BASIC OPTION PLUS (BOP) - FEATURES

11.1 Multi-sign synchronization

Connect SYNC OUT (13, 14, 15) on master to SYNC IN (13, 14, 15) on slave 1. To synchronize more than 2 signs, connect SYNC out on slave 1 to SYNC IN on slave 2, an so on.

NOTE: Do not forget to adjust switch 8 accordingly into the MASTER or SLAVE position.



Brown

Yellow

Green/White Green/White

Green/White

S

13 NC

1415

K