



# Installation instructions

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Thank you for buying the Nibotechnics Neptune.

Symbols used adjacent to the text in these instructions:



**Danger** Means: electrical hazard warning, failure to understand and obey this warning may result in electrical shock.



**Warning** Means: failure to understand and obey this warning may result in injury to you or to others.

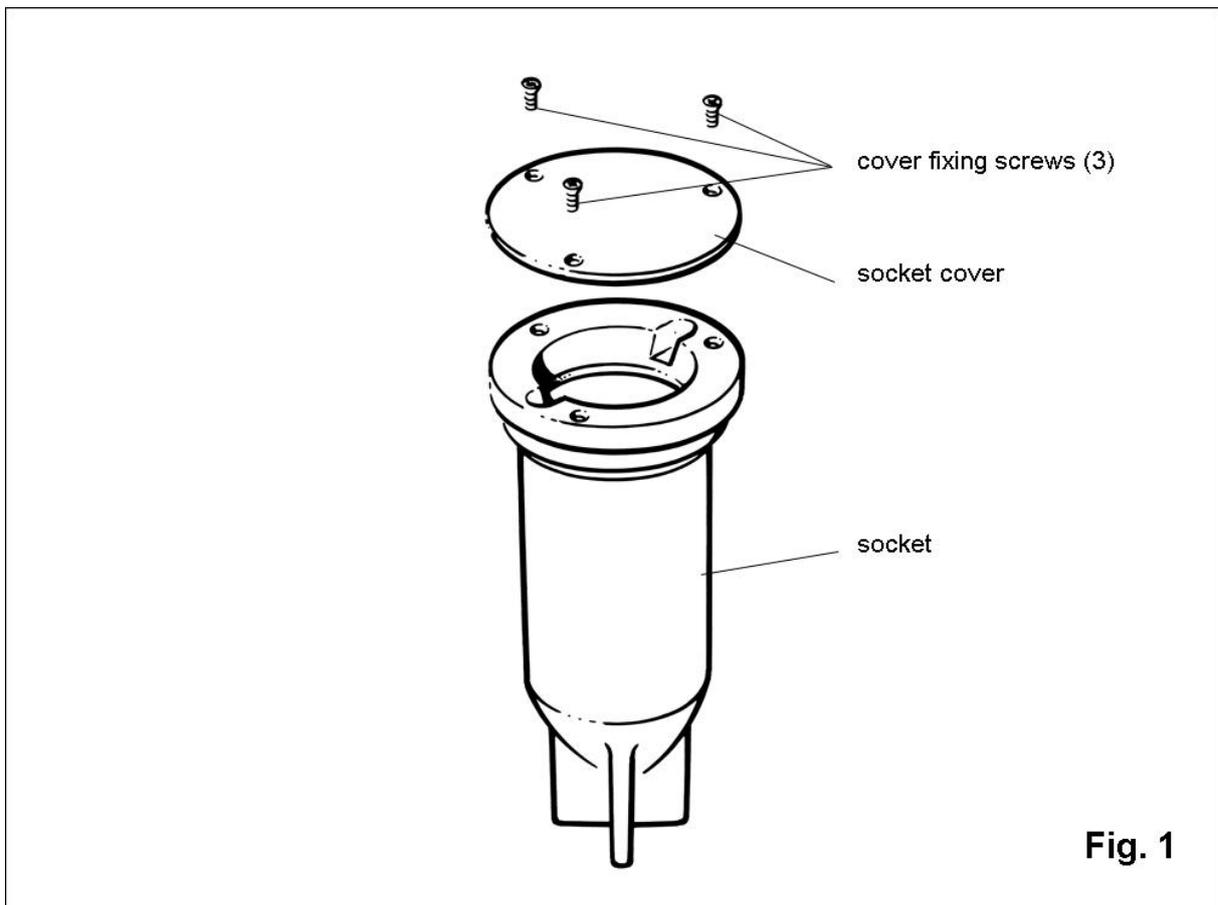


**Caution** Means: failure to follow these instructions may cause damage to all or parts of the system or equipment

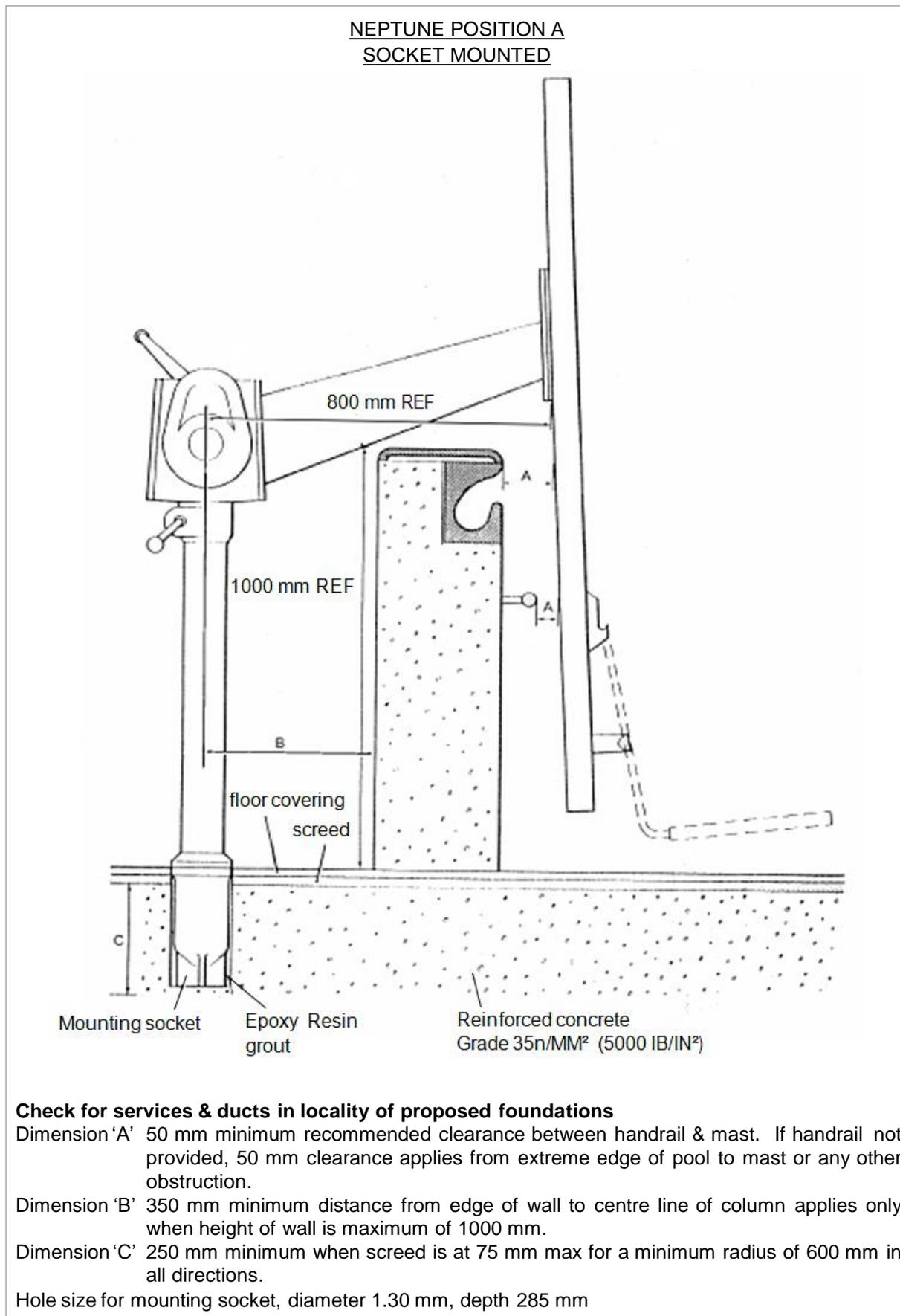


**Note** Means: this is important information for the correct use of this system or equipment

## 1. Parts referred to in these instructions

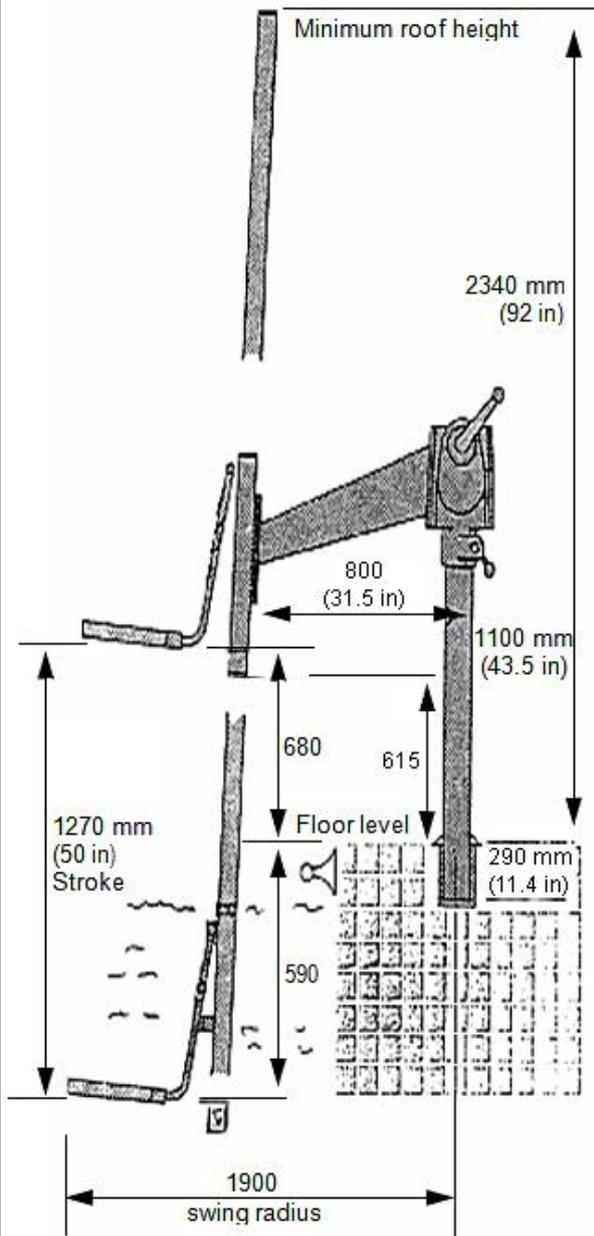


## 2. Introduction



## GENERAL MEASUREMENTS

Deck level pools  
Boom position B



Space requirements  
with standard boom (800 mm)

Radius of swing with chair unit	1500 mm (59 in)
Radius of swing with stretcher	1900 mm (75 in)
Radius of swing with chair and legrest	2000 mm (79 in)

**Difference between underside of stretcher and end of mast.**

**Alternative boom lengths:**    1 metre (add 320 mm / 12" to swing radius)  
    1,2 metre (add 520 mm / 21" to swing radius)



Important: Before attempting to install the 'Neptune', read and thoroughly understand these Installation Instructions.



The Neptune socket should be installed into the pool side and held in position by grouting in place using an epoxy resin, or cast into a suitable area of concrete capable of withstanding 3.9 KN/M (2878 lbs/ft) overturning moment.

For size and specification of concrete area always consult Nibotechnics nv or their appointed distributor.

The installation method described in these instructions is for the epoxy resin method, for installation using a concrete slab the same criteria for the socket being vertical and the socket cover (when it is fitted) being level with the pool side flooring still applies.



Do not install a Neptune socket if the structural concrete (laid to the recommended specification) is less than 150 mm (6") thick (see Fig. 2).



If you are in any doubt as to the suitability of the site conditions, then contact Nibotechnics nv or their authorized distributor for advice prior to installation.



Wear suitable eye, ear, respiratory and hand protection when drilling, chiseling and handling resin substances and filler materials.

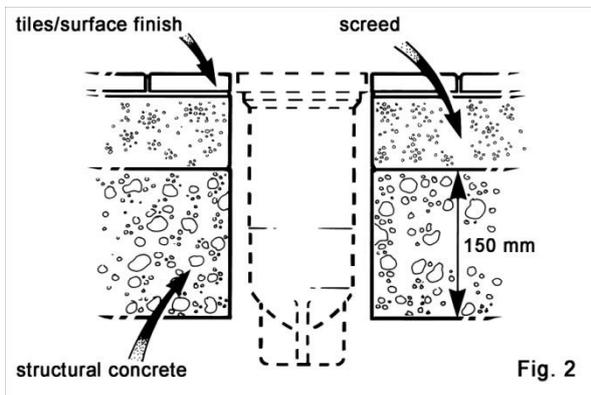


Fig. 2

Some information contained in these instructions may become outdated, due to improvements made to this product in the future. If you have any questions regarding these instructions or your hoist, please contact your approved distributor.

Nibotechnics nv policy is one of continuous development, and therefore reserve the right to change specifications without notice.

### 3. Installing your Neptune

Determine the position of the socket with reference to the Nibotechnics assessment drawing. Small adjustments may be necessary to accommodate tile joints and avoid unnecessary damage to the floor.

Check visually, discuss with Pool Manager and scan floor with metal detector in order to detect any under floor services.

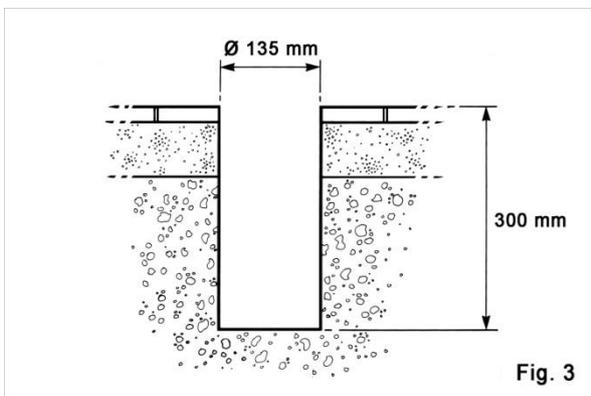


Fig. 3

Set up a suitable drilling machine and drill a hole 135 mm diameter by 300 mm deep and exact debris (see Fig. 3).

It is essential that the socket is installed so that the Neptune column (when fitted) is vertical, which means that the socket must be held vertical and secure until the holding resin has set.

A very useful purpose made device can be constructed prior to installation if resources are available. This holds the socket securely until the resin has set. See Fig. 5 for details.

Using the leveling device install the socket as follows:

Attach the socket to the device using the three M5x45/50 mm screws (see Fig. 5).

Lower the socket into the hole centrally and adjust using the outer thumbscrews and a spirit level, until the socket is vertical and the top of the socket is approximately 2 mm below the pool floor.

Mark the positions of the thumbscrews and lift the assembly out away from the hole.

Mix a sufficient quantity of resin (FOSROC LOKSET S25 - 2 Part, or equivalent - reading the instructions first) and pour carefully filling the hole approximately half full.

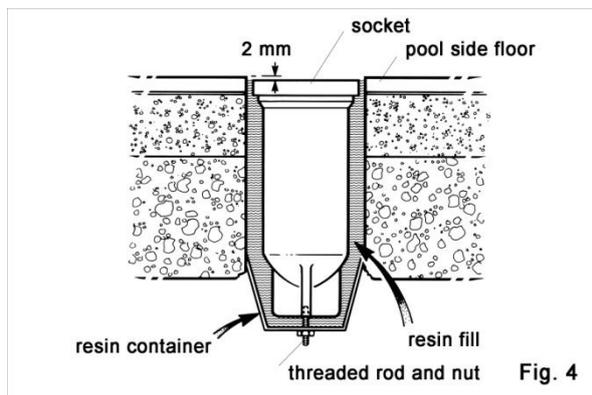
Replace the socket, still attached to the leveling device, repositioning the thumbscrews where originally sited.

Ensure the socket is bedded fully into position and top up the resin level as required until level with the top of the socket.

- **Note:** The resin will 'set' fairly quickly (approx 1 hour at 20°C) so ensure the socket is not moved while this process is carried out.

When the resin has set remove the leveling device.

- **Note:** If the leveling device is not available the same criteria apply, eg: ensuring the socket is level and held firmly until the resin has set.
- **Note:** If the 135 mm diameter cutter has broken through the concrete flooring, a resin retainer will have to be used, (eg. paint container, flower pot with covered holes etc), for this function wedge or tape a suitable container around the protruding socket before commencing the resin pour (see Fig. 4).



Another method to hold the container is to drill and tap the centre of the socket and use a length of threaded rod with a nut or bolt of suitable length (see Fig. 4).

Apply a light covering of silicone grease to the bore of the socket then position the cover plate (supplied) and screw it down with the three screws provided.

Do not use the Neptune for 24 hours after installation, to ensure the resin has cured sufficiently.

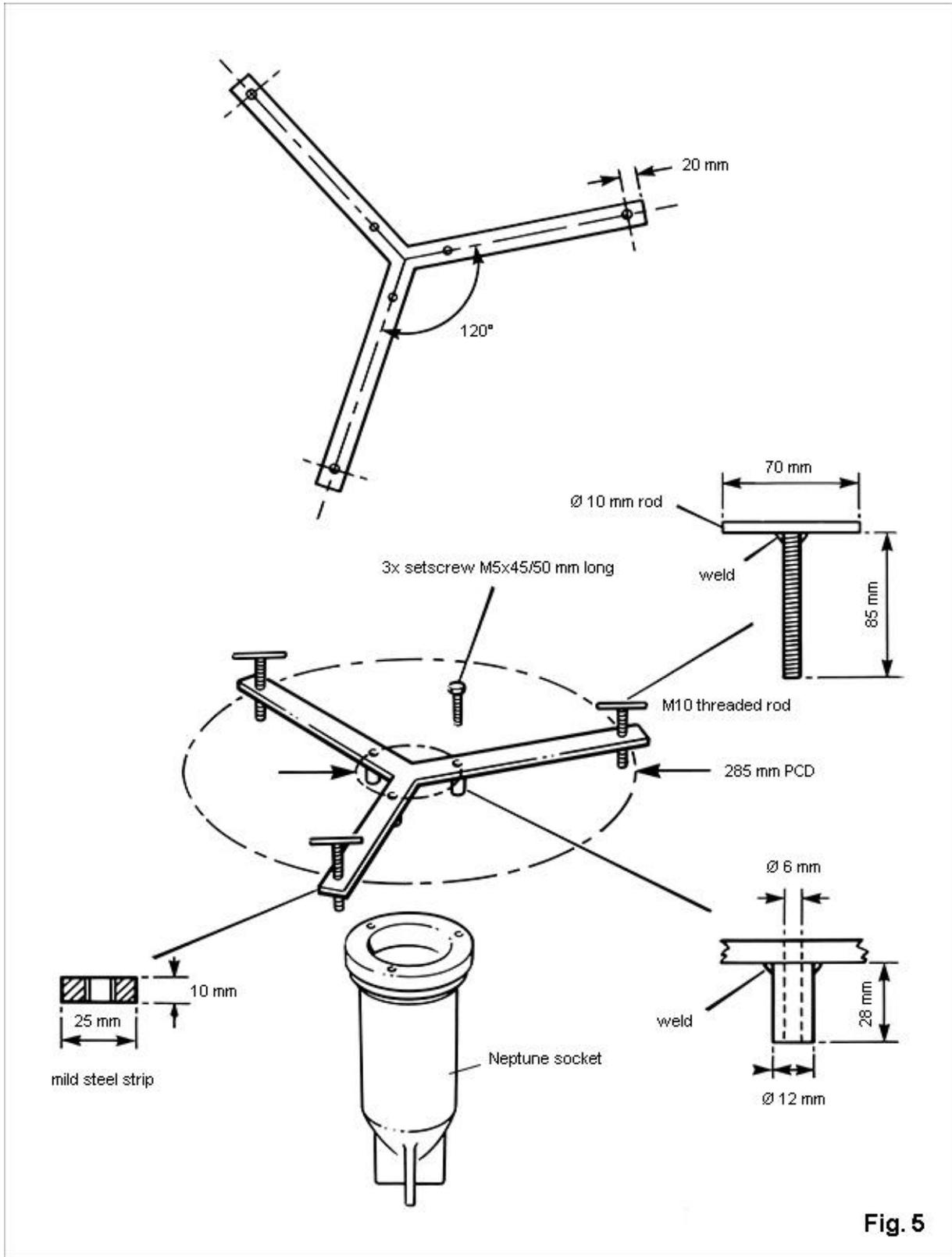


Fig. 5

*We strongly advise and warn that only Company Designated Parts, which are designed for the purpose, should be used on equipment and other appliances supplied by the Company, to avoid injuries attributable to the use of inadequate parts.*

*The Company's Conditions of sale make specific provision confirming no liability in such circumstances.*

*Our policy is one of continuous development, and we therefore reserve the right to change specifications without notice.*

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