

5. MAINTENANCE (First Line)

PREVENTATIVE MAINTENANCE

The best form of preventative maintenance is to regularly and thoroughly check the mast and accessories directly after use and/or before the equipment is put away for storage. Any damage to the mast or ancillary equipment, which has been detected during operation or prior to storage, can be noted and rectified. The equipment when used again should be fully functional.

WARNING

IT IS DANGEROUS TO OPERATE EQUIPMENT WHICH IS FAULTY

CHECKING THE ANCILLARY EQUIPMENT

Check the condition of all equipment, antenna adapters and mast mounting brackets and fittings. Pay special attention for any signs of damage to the drop head pins and their cords or wires on equipment such as field legs, field bases, mounting brackets and roof trolleys. The pins should be attached firmly to the appropriate item by their cords or wires.

Ensure that all bolts are free from rust, and, where necessary, grease the threads wiping off any excess.

GUYS

All guys should be sound with no fraying. They must be firmly attached to their tensioners at one end and the carbine/snap hooks at the other. Make a check to ensure that the tensioner is operational. The carbine/snap hooks should fully open and close freely.

WARNING

DO NOT CUT THE GUY, REDUCING ITS OVERALL LENGTH, AS THIS COULD AFFECT THE PICKET RADIUS AND THE GUYING SAFETY OF THE MAST

AIR SUPPLY EQUIPMENT

Check that all air supply equipment such as handpumps, control valves, compressors and hoses are functioning correctly. Examine the air hoses for splits and check that the hose clips and the connectors and bayonet sockets are free from damage, mud and dirt.

For servicing of the Handpump refer to the next section Overhaul and Repair (Second or Third Line).

For servicing of any of the compressors refer to the manufacturer's information leaflet supplied with the compressor or contact Clark Masts Systems Ltd.

CHECKING THE MAST

At the mast head check that the mast socket is clean and clear from obstructions and that the antenna clamp screw is lubricated and is not damaged. (Refer to the Lubrication Diagram at the end of this section).

Check all cable guides, if fitted, for damage. On masts fitted with combined mast collars oil all clamp handles.

Check for free rotation of the top roller guy collars and any other guy collars, which are fitted. All lugs on the guy collars should be checked for damage and if the lugs are unusable the whole casting should be replaced, as mast must be guyed correctly for safety.

The mast sections should be checked to ensure that they are clean from any wind-blown sand or dust. Periodically clean the exterior of the mast using a soft cloth. In particular wipe clean the outside of the tube sections.

Check for the presence of a thin film of silicone grease on the mast sections. If the surfaces are dry and patchy they will need to be lubricated (refer to the Lubrication Diagram at the end of this section).

If a mast is fitted with a mounting collar check the fittings and the bubble level. If the bubble level is not functioning properly then it should be replaced.

If a ST roof bearing, (Cat. No. 1976) is fitted Texaco Multifax EP2 grease or similar specification must be applied to the grease nipple on the upper casting.

At the base of the mast check that the bayonet socket and safety drain valve are clean and free from any mud or dirt.

A pressure test on the mast and a test on the pressure relief/drain valve should be carried out at least every 12 months. Refer to the end of Section 6 for the appropriate procedure for mast testing.

LUBRICATION

The lubrication diagram shows the main points, which require regular attention. The period between lubricants being applied will vary according to the type of service. As a guide, however, the mast should be greased after 50 extensions. All other points should receive attention at least every six months.

CAUTION

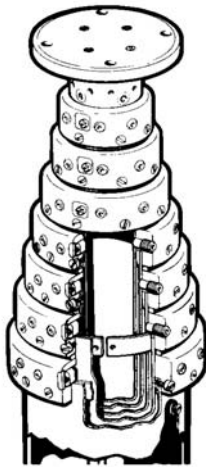
DO NOT ALLOW MINERAL OIL OR GREASE TO COME INTO CONTACT WITH THE MAST SECTIONS, MAST SECTION RUBBER SEALS OR PISTONS, AS THEY WILL BE IMMEDIATELY DAMAGED.

DO NOT USE GREASE CONTAINING MOLYDISULPHIDE.

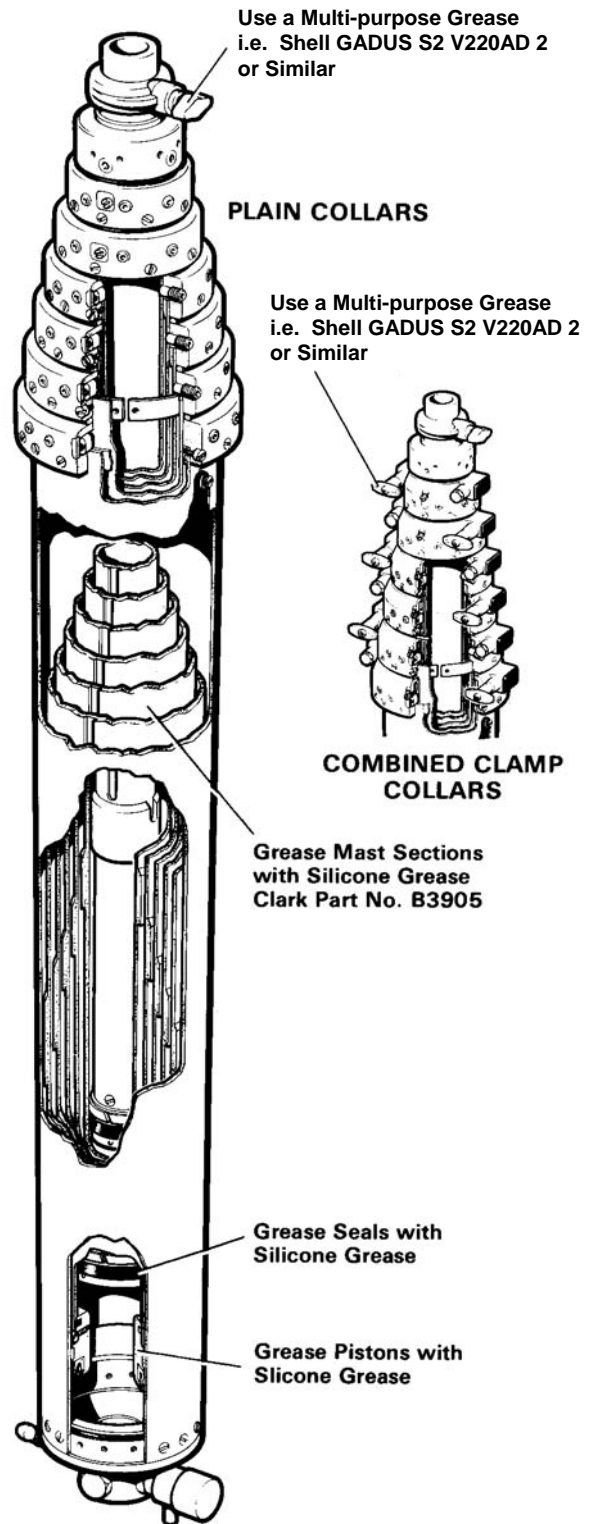
SUCH ACTION RENDERS VOID ALL CONSEQUENTIAL GUARANTEE CLAIMS

SILICONE GREASE

WHERE SILICONE GREASE IS RECOMMENDED USE ONLY CLARK MASTS PART NO. B3905.



MAST FITTED WITH TOP MOUNTING FLANGE



LUBRICATION DIAGRAM

SAFETY DATA SHEET

Cat No. B3905 Silicone Grease



1. HAZARDS IDENTIFICATION

1.1. Classification of the substance or mixture.

The product is not classified as hazardous pursuant to the provisions set forth in Directives 67/548/EEC and 1999/45/EC and/or EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

2. COMPOSITION / INFORMATION ON INGREDIENTS

2.1. Substance

Information not relevant.

2.2. Mixtures.

The product does not contain substances classified as being hazardous to human health or the environment pursuant to the provisions set forth in Directives 67/548/EEC and 1999/45/EC and/or EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

3. FIRST AID MEASURES

3.1. Description of first aid measures.

No harm to the staff authorised to use has been reported. However, in case of contact, inhalation or ingestion, the following general measures provided for a first aid shall be taken.

INHALATION: remove to open air. If respiration is difficult, administer artificial respiration and seek medical advice.

INGESTION: seek medical attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person.

EYES and SKIN: wash with plenty of water: if the irritation persists, seek medical advice.

3.2. Most important symptoms and effects, both acute and delayed.

No episodes of damage to health ascribable to the product have been reported.

3.3. Indication of any immediate attention and special treatment needed.

Follow doctor's orders.

4. HANDLING AND STORAGE

4.1. Precautions for safe handling.

Do not smoke while handling and use.

4.2. Conditions for safe storage, including any incompatibilities.

Store in a well-ventilated place; keep far away from sources of heat, bright flames and sparks and other sources of ignition.

5. EXPOSURE CONTROLS / PERSONAL PROTECTION

5.1. Exposure controls.

Observance of safety measures used in handling chemical substances.

RESPIRATORY PROTECTION

None required.

EYE PROTECTION

None required.

HAND PROTECTION

None required.

SKIN PROTECTION

None required.

6. PHYSICAL AND CHEMICAL PROPERTIES

6.1 Information on basic physical and chemical properties.

Appearance.	Paste
Colour.	Colourless
Odour.	Characteristic
Flash point.	150°C.
Solubility.	Immiscible with water
Ignition temperature.	400°C.

7. STABILITY AND REACTIVITY

7.1. Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.

7.2. Chemical stability.

The product is stable in normal conditions of use and storage.

7.3. Possibility of hazardous reactions.

No hazardous reactions are foreseeable in normal conditions of use and storage.

7.4. Conditions to avoid.

None in particular, however the usual precautions used for chemical products should be respected.

7.5. Incompatible materials.

Information not available.

7.6. Hazardous decomposition products

In the event of thermal decomposition of fire, vapours potentially dangerous to health may be released.

7.7. Toxicological information.

According to currently available data, this product has not yet produced health damages. Anyway, it must be handled carefully according to good industrial practices. This product may have slight health effects on sensitive people, by inhalation and/or cutaneous absorption and/or contact with eyes and/or ingestion.