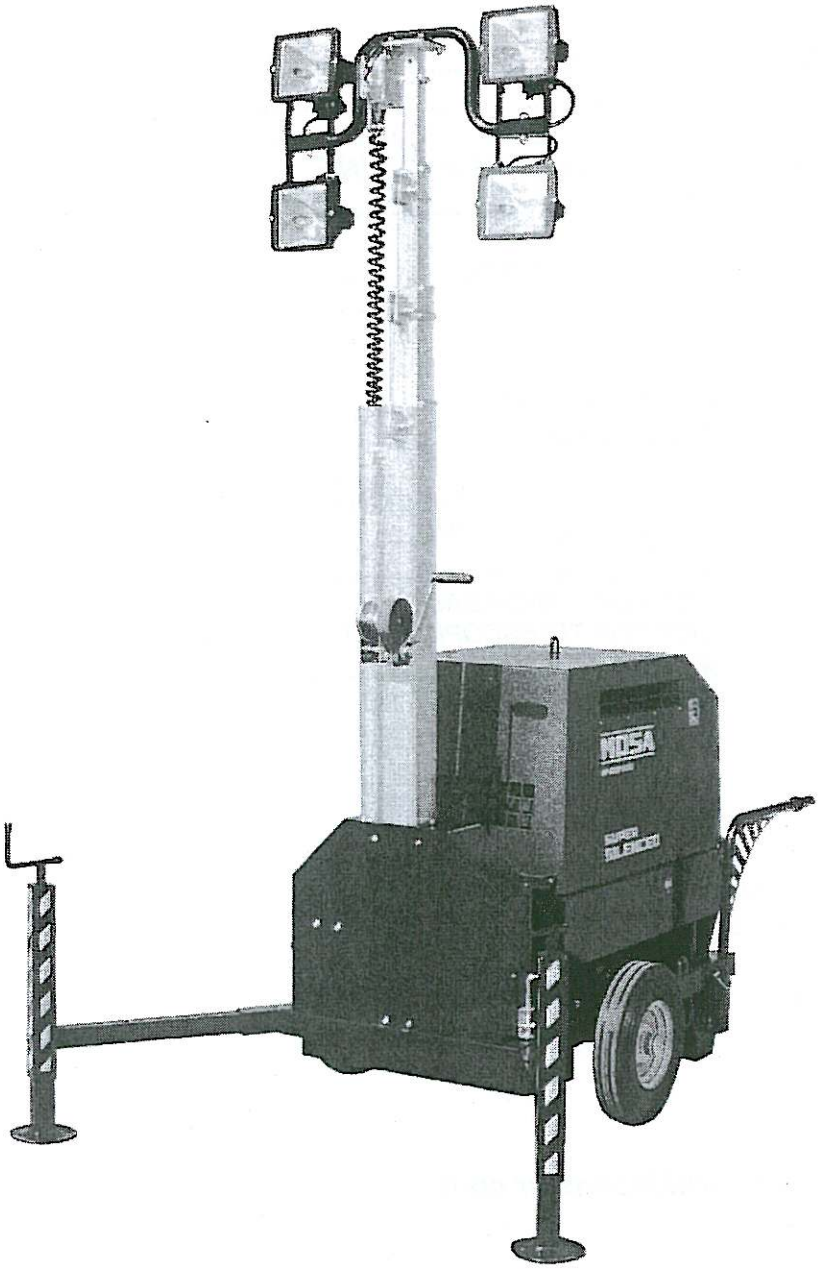


MOSA StarLight SL55

5.5 metre 4x500w Halogen Lighting Tower

OWNER'S MANUAL

TL002-01-04-00
25-05-2005

INDEX

Contact Details:-

MOSA
56 South Nelson Road
South Nelson Industrial Estate
Cramlington
Northumberland
NE23 9WF

Tel: 01670-590300
Fax: 01670-590301
Email: mosa.sales@wilkinsonstar.com

1. *USE & MAINTENENCE*

Before installation or operation of the machine and before every new operation, always read the instruction manual fully to ensure correct and safe operation of the Mosa StarLight SL55 tower.

Note: The manufacturer may make improvements or modifications to the product or its accessories as described in this manual without updating the manual. Specifications and image shown are subject to change without prior notice.

2. *GENERAL INFORMATION*

The lighting tower is designed, produced and tested to meet current European norms and compliance requirements.

2.1 *EQUIPMENT DOCUMENTATION OF THE LIGHTING TOWER*

Included with this manual are the following documents:

- *Instruction manual and use of the lighting tower (this manual).*
- *Spare parts list for the lighting tower.*
- *Warranty*
- *CE Certificate*

3. *GENERAL DESCRIPTION OF THE MACHINE*

The Mosa StarLight SL55 5.5mtr lighting tower has been produced in consideration of the following characteristics:

- *Compact design*
- *Reliability*
- *High quality construction*

The materials used in the construction of the Mosa StarLight SL55 guarantee not only extreme strength of the tower, but extended service life protected from harsh conditions with the use of galvanised and powder coated surfaces.

The ease of use is evident through safe, one man operation of the tower and ease of movement. The floodlight bulb's used on the Mosa StarLight SL55 tower are individually checked and tested for product quality.

4. *TECHNICAL SPECIFICATION*

4.1 *ELECTRICAL INPUT*

230 Volt 50 Hz

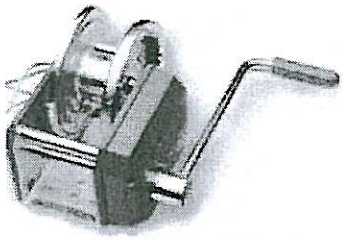
4.2 *LIGHTING TOWER SPECIFICATION*

Maximum height	**5.5 metres**
Tower raising method	***Manual***
No. of sections	**4**
Raise/lower cable construction	***S/steel 133 wires***
Electrical coiled cable	**7G 1,5 mq**
Electrical coiled cable	**H07RN-F**
Electrical cable for the lightingsystem	**H07RN-F**
Maximum cable load	**1000 Kg**
Maximum wind stability	**50mph (80 Km/h)**
Electrical box construction	***Aluminium 100x100***
Degree of protection of the electrical box	**IP 55**
Presscable of the floodlights	**PG 11**
Presscable for the extension	**PG 13**
Minimum dimension (L x W x H mm)	**1470 x 1060 x 2120**
Maximum dimension (L x W x H mm)	**2300 x 1570 x 5500**
Weight	**110 Kg**

4.3 *PNEUMATIC*

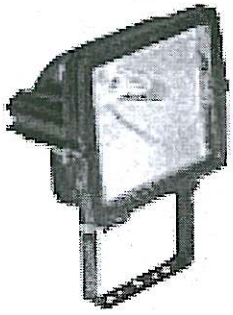
Pneumatic cylinder dimension	**400x90**

4.4 *MANUAL WINCH*



Model	**351**
Code	**244.893**
Protection treatment	**Hot galvanised**
Maximum load	**350 Kg**
To raise	**Rotate in right direction**
To lower	**Rotate in left direction**

4.5 *FLOODLIGHT*



Lamp type	***Halogen***
Power output	**4x500 W**
Degree of protection	**IP 65**
Body construction material	**Aluminium**
Constructor material	**Ceramic**
Dimension (L x W x H mm)	**210 x 130 x 255**

5. *SPECIFICATION OF THE WINCH*

- ***SAFETY:*** *the load is always safe and under control thanks to the automatic pressure brake with anti-slip mechanism*
- ***STRENGTH:*** *The robust construction of the winch mechanism incorporates precision CNC engineered components designed to withstand arduous use.*
- ***LONG LIFE:*** *The special coating applied to the external surface of the winch ensures excellent corrosion resistance.*

6. *OPERATING INSTRUCTIONS*

6.1 *CHECKS BEFORE USE*

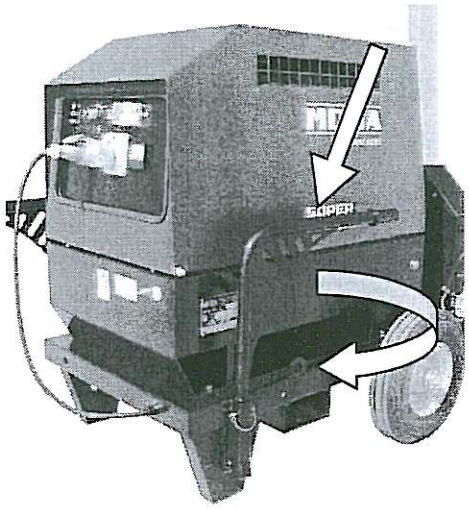
Prior to use it is necessary to check that all the parts of the tower are:

- *In good working order and free from defects. Pay particular attention to the winch mechanism, stainless steel cable and the lighting rig. If in doubt consult the supplier*
- *Check that all of the parts listed in the spare parts section are included*
- ***NOTE:** In the unlikely event of any damage or defects always notify the supplier prior to assembly or operation of the tower*

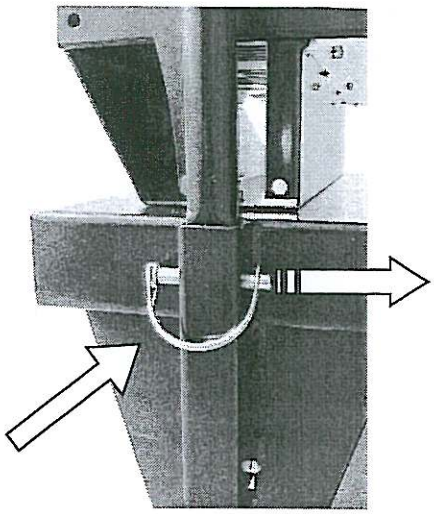
6.2 *INSTRUCTIONS FOR THE USE OF THE LIGHTING TOWER*

- ***Always ensure the tower is in the lowered position**, first turn the handles from the inner to the outer position (Fig.1) by removing the retaining clip (Fig.2) and lifting the handle into the forward facing position (Fig.3).*
- *When stationary and prior to use the stabilisers must be extended and the tower positioned on dry, level ground with the adjustable jackleg lowered by means of the rotary handle (Fig. 5).*

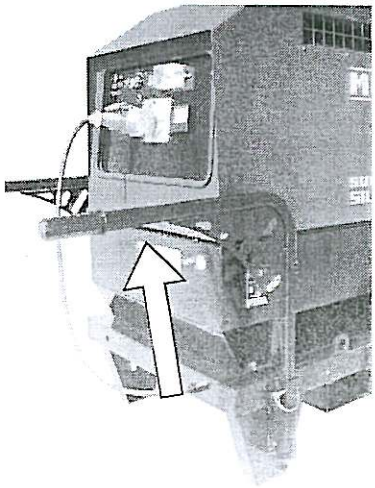
(Fig. 1)



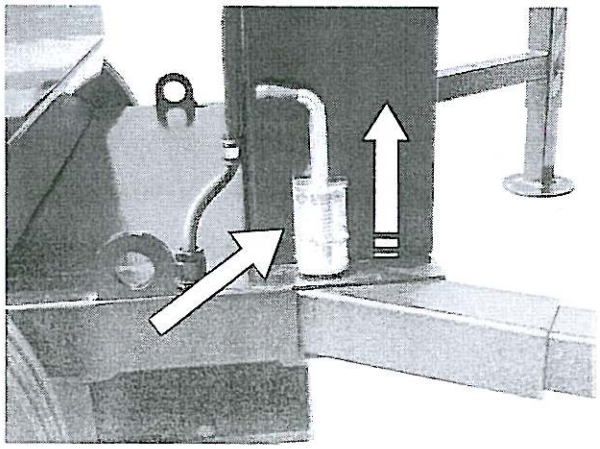
(Fig. 2)



(Fig. 3)



(Fig. 4)

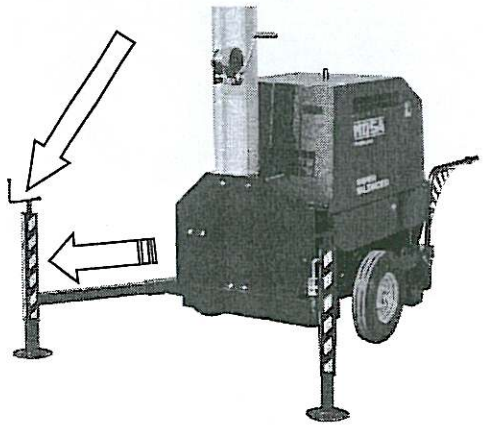


- *Rotate the handle of the manual winch to raise the tower. The automatic brake of the winch will stop the tower at the preferred height when the handle is released (Fig. 6).*
- *Switch on the generating set and ensure the ELCB circuit breaker on the front panel of the generating set is in the "OFF" position*
- *Connect the blue 110v 16A plug of the lighting tower to the corresponding blue 110v 16A socket of the generating set (Fig. 7).*
- *To operate the lights switch the circuit breaker on the front panel of the generating set to the "ON" position.*
- *To turn the lamps off switch the circuit breaker on the front panel of the generating set to the "OFF" position.*

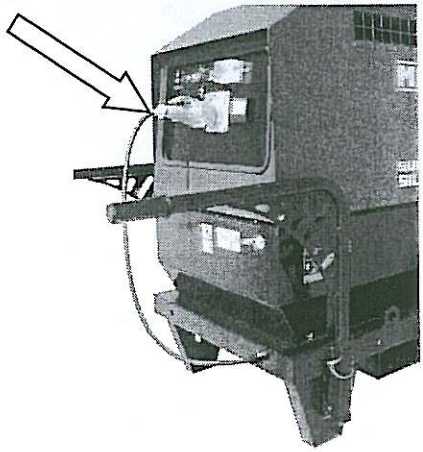
IMPORTANT – Allow a minimum of 5 minutes interval before restarting lights to prevent damage

- *To lower the tower, turn the handle in the opposite direction (Fig. 8).*
- *Lighting tower serial number (Fig. 8)*

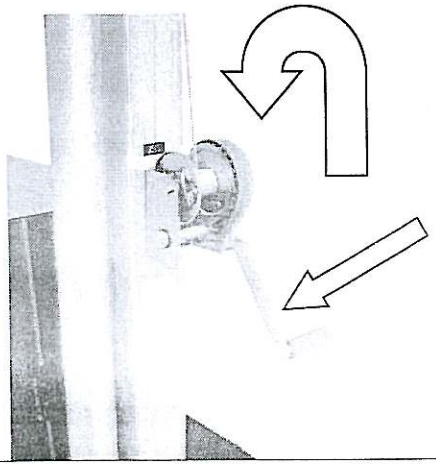
(Fig. 5)



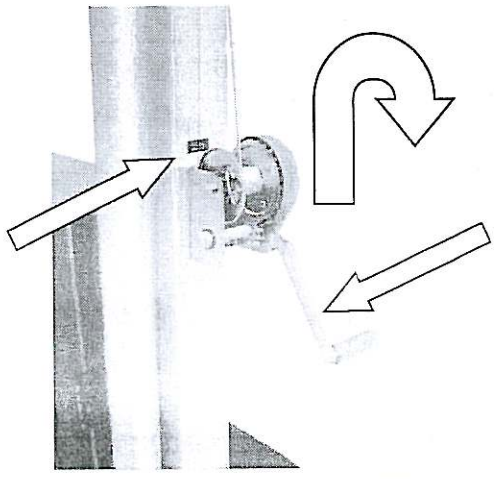
(Fig. 7)



(Fig. 6)

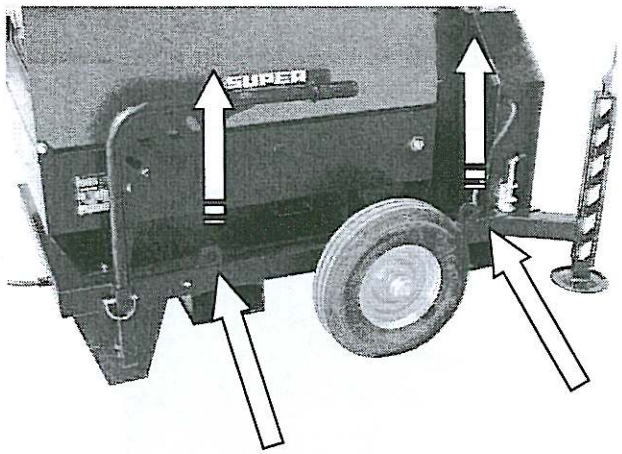


(Fig. 8)

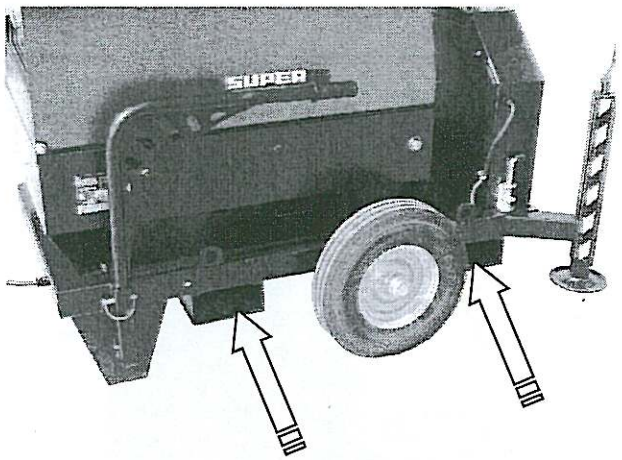


- ***In the lowered position only***; *the tower can be lifted using four lifting eyes located on each corner of the base (Fig. 9).*
- ***In the lowered position only***; *the tower can be moved by fork lift truck using the fork lift pockets on the base of the tower (Fig. 10).*

(Fig. 9)



(Fig. 10)



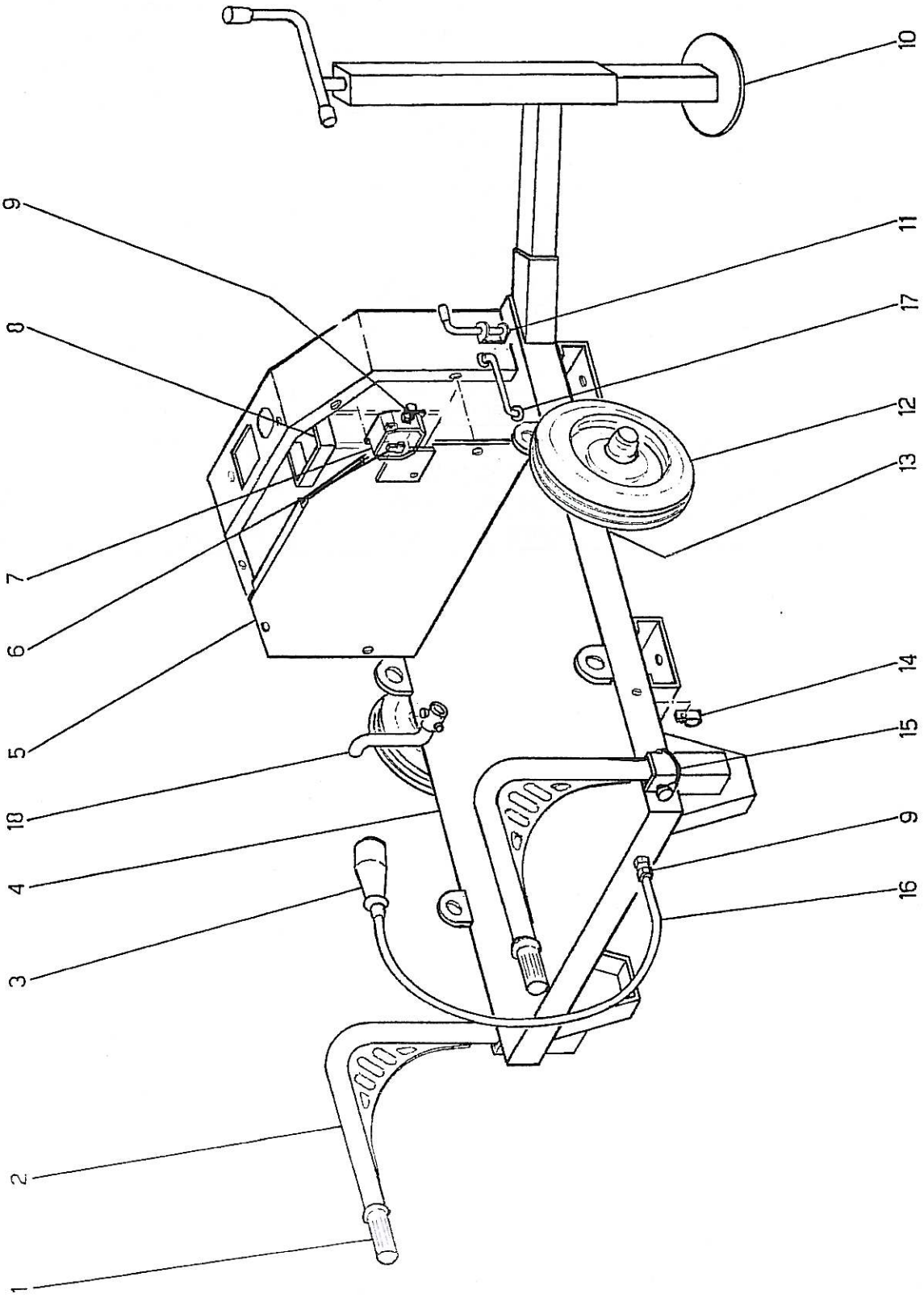
Mosa StarLight SL55 - 5,5mtr 4x500w Halogen

6.3 *ELECTRICAL CONNECTION - GENERAL*

- *Connect the 230 V 16A 2p+T EEC single phase plug of the lighting tower to the generating set.*
- *The correct minimum cable cross section must be observed relative to the voltage of the lamps and the power source used.*
- *Check that the operating voltage and frequency of the generating set corresponds to the voltage and the frequency of the system in use.*
- *Always connect the tower to a power supply with suitable ELCB protection.*
- *Always ensure the supply cables, electrical connections, plugs and sockets are not damaged or worn, if so replace immediately using a qualified electrician.*
- *Regularly check the condition of the lamps*

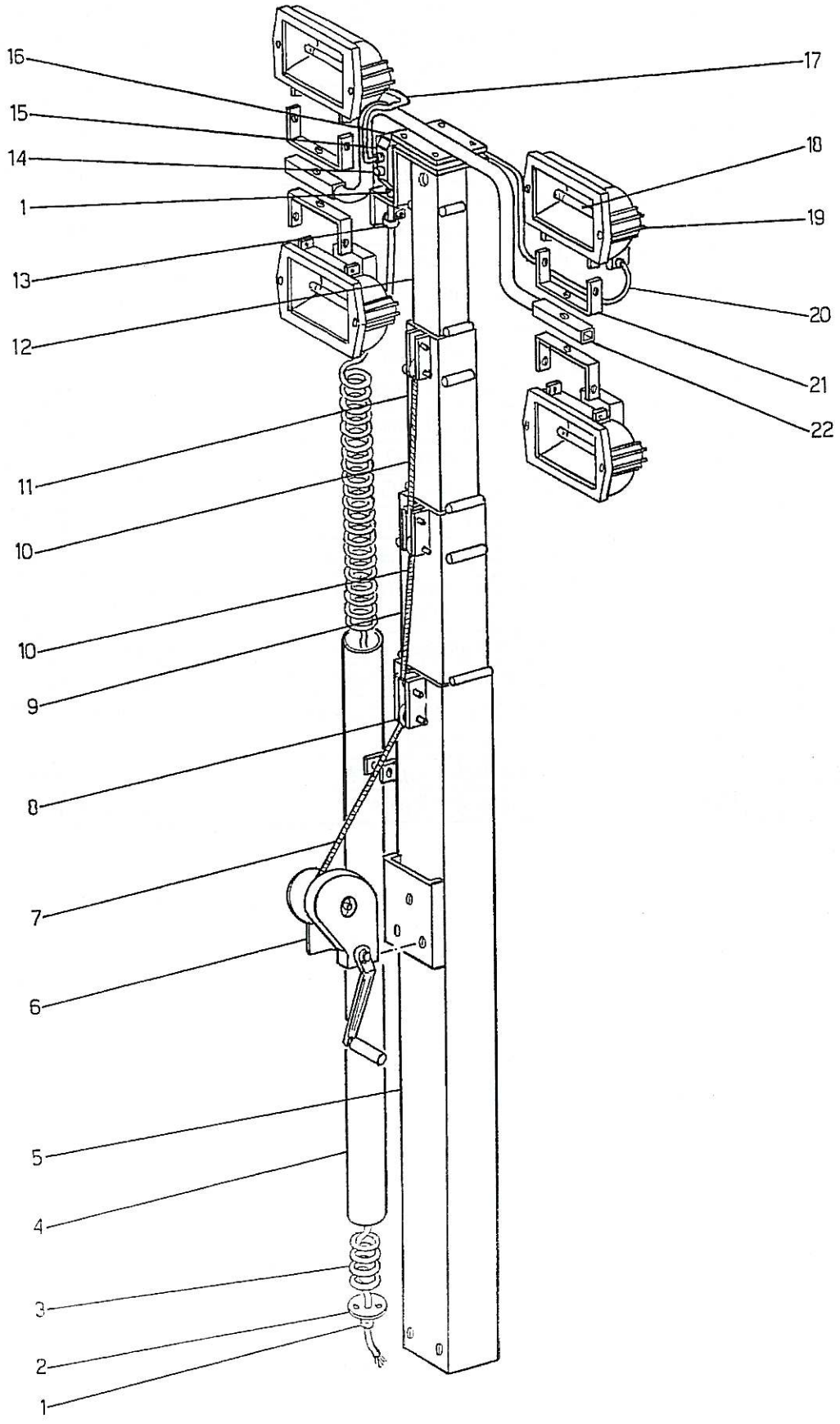
7. *PARTS LIST*

7.1 *SPARE PARTS LIST FOR TOWER BASE*



Item	Code	Description	Descrizione
1	1024	*Rubber grip handle*	Manopola in gomma
2	8041	*Handle*	Maniglia
3	1063	*230 V 16 A 2p+T EEC single phase plug*	Spina maschio 230 V 16 A 2p+T CEE
4	8042	*Frame*	Basamento
5	8043	*Cover*	Coperchio
6	6241	*Z6-1 clamp*	Morsetto Z6-1
7	7753	*Electrical terminal box*	Scatola contatti elettrici
8	8044	*Lighting tower support*	Supporto torre faro
9	7781	*PG13 presscable*	Pressacavo PG13
10	8045	*Jackleg Stabilizer*	Stabilizzatore
11	7654	*Stabilizer lock pin*	Perno bloccaggio stabilizzatore
12	8046	*400x90 wheel*	Ruota 400x90
13	8047	*Axle*	Assale
14	1055	*N°10 clamp*	Fascetta N°10
15	1007	*Handle*	Fermo per maniglia
16	CA01030 25-2600	*H07RNFG3G2,5 (l. 2600) electric cable*	Cavo elettrico H07RNFG3G2,5 (l. 2600)
17	7661	*Rubber wire holder*	Passacavo in gomma
18	8412	*Silencer extension*	Prolunga terminale marmitta

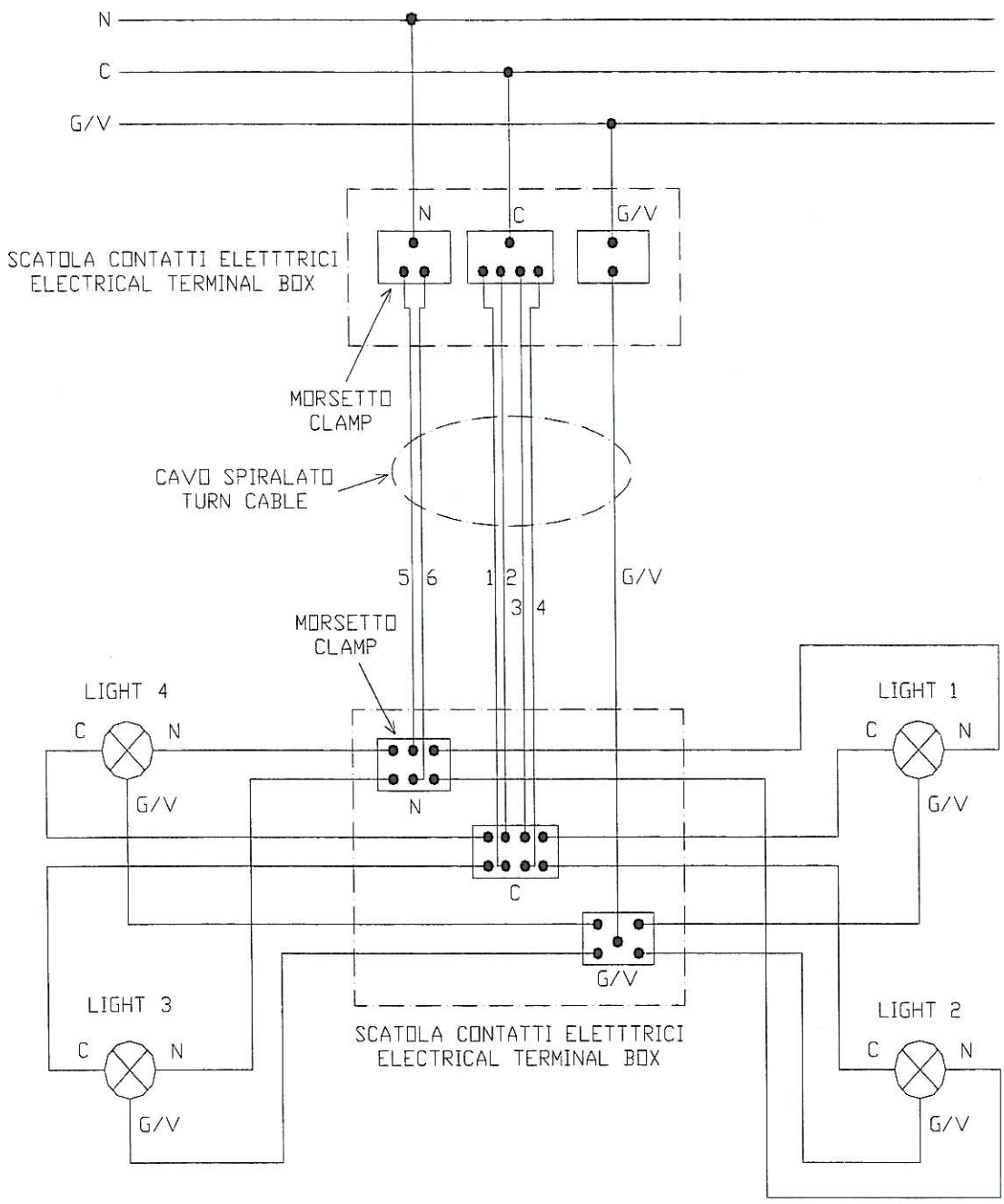
7.2 *SPARE PARTS LIST FOR TELESCOPIC MAST*



Mosa StarLight SL55 - 5,5mtr 4x500w Halogen

Item	Code	Description	Descrizione
1	7781	*Presscable PG13*	Pressacavo PG13
2	6451	*Nylon bush*	Boccola nylon stringicavo
3	6437	*Turn cable*	Cavo spiralato
4	8048	*Channel for electric cable*	Canalina per cavi elettrici
5	8049	*1° section mast*	Palo (1° parte)
6	1001	*Hand winch (351)*	Argano manuale (351)
7	C004-2200	*1°section steel cable (l 2200 Ø 4)*	Cavo acciaio 1°parte (l 2200 Ø 4)
8	6228	*Wheel for steel cable*	Ruota per cavo acciaio
9	8050	*2° section mast*	Palo (2° parte)
10	C004-1450	*2°section steel cable (l 1450 Ø 4)*	Cavo acciaio 2°parte (l 1450 Ø 4)
11	8051	*3° section mast*	Palo (3° parte)
12	8052	*4° section mast*	Palo (4° parte)
13	1055	*Clamp N10*	Fascetta N10
14	7051	*Presscable PG11*	Pressacavo PG11
15	6241	*Z6-1 clamp*	Morsetto Z6-1
16	7754	*Electrical terminal box*	Scatola contatti elettrici
17	CA01030 10-1150	*H07RNF3G1 electric cable (l. 1150)*	Cavo elettrico H07RNF3G1 (l. 1150)
18	1082	*500 W halogen lamp*	Lampada alogena 500 W
19	8053	*1130 punto disano floodlight*	Proiettore disano 1130 punto
20	CA01030 10-1000	*H07RNF3G1 electric cable (l. 1000)*	Cavo elettrico H07RNF3G1 (l. 1000)
21	1018-A	*Floodlight support*	Supporto proiettore
22	8054	*Plate for lights*	Asta porta fari

8. *WIRING DIAGRAM*



LEGENDA -*NOTE*:

N = FASE - *PHASE*
C = NEUTRO – *NEUTRAL*
G/V = MASSA - *EARTH CONNECTION*