



User Instruction & Installation Manual

FH300 Remote Control Variable Speed Twin Head Metal Halide Searchlight



Product Reference Number:

A6074 – FH300RC 575w Twin Head 240v

Manufacturer's details:

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1 - Introduction

It is imperative that this manual is read carefully and understood before installing your equipment. For your future reference please keep this manual in a safe place.

Thank you for specifying a product from the Francis Searchlights range. All Francis products are designed to give complete customer satisfaction and are manufactured to the highest engineering standards in order to ensure optimum performance and service life.

The Francis FH range combines features proven over many years service in the most hazardous conditions in both marine and land installations.

In order to prolong the life and performance of your product, we recommend that you only specify Francis Searchlights spare parts. This will also ensure that any warranties on your equipment will not be invalidated. Information on spares ordering and parts is provided in this manual.

Should you ever need to contact Francis Searchlights Ltd. regarding your equipment, please quote the Product Serial Number at all times.

2 - Safety Precautions

The following instructions must be adhered to, in order to ensure a safe working environment and the safety of the user.

Note: When unpacking or manoeuvring the searchlight into its fixing position, suitable lifting points must be used in order to prevent damage to the equipment or personal injury.

- Prevent rain, snow, condensation and water droplets from contacting the lamp as this may cause bulb failure and possible shattering;
- Quartz halogen bulbs run with a high internal pressure in excess of atmospheric. Whilst the construction is inherently strong, there is a slight risk of the bulb shattering;
- Never look directly into an illuminated searchlight as this may cause severe damage to eyesight. If it is necessary to inspect a lamp whilst in operation, always wear suitable protective goggles;
- Should it be necessary to examine the lamp with the front bezel removed, always use a protective shield and wear goggles to ensure a safe working environment;
- Never attempt to clean a lamp whilst in use;
- Searchlights get hot. Never touch the unit when lit and always allow 15 to 20 minutes for cooling down after turning the searchlight off;
- Never place anything on or cover the searchlight when in use;
- Ensure the lamp has cooled sufficiently before removal;
- If undue force appears necessary to remove the lamp, the equipment should be inspected by a competent person or contact the manufacturer;
- When breaking a lamp for disposal, care must be taken to ensure the glass fragments are safely contained. This operation must be performed out of doors in free air. In all circumstances refer to the lamp manufacturers instructions packed with the lamp;
- Due to the vast range of lamps available it may appear possible that more powerful lamps can be used in the equipment than for which it was designed. Even when the unit will physically accept a higher wattage or voltage lamp, this substitution is not recommended and is dangerous. This action will also void any warranties on the equipment.

Always refer to the lamp manufacturer's technical data when dealing with lamps.

3 - Technical Information

This product has been designed to operate in accordance with the product specification.
The FH300RC Twinhead searchlight has the following features:

- All marine grade materials and fixings;
- Parabolic glass reflector;
- Stove Enamel Power Coating paint;
- Instant lamp re-strike. No cooling down time required;
- Economical 750 hour lamp life;
- 385° horizontal rotation;
- Vertical movement +45° to -45°;
- Motor speed 0-20°/sec fast, 0-10°/sec slow (Pan)
0-10°/sec fast, 0-5°/sec slow (Tilt);
- Remote focus facility;
- Thermostatically controlled internal heater. (Optional);
- Toughened front glass;
- Luminous flux 49000;
- Colour temperature 6000K;
- G.R.P. control gear protected to IP66;

The 240v searchlight also performs to the following optical data:

- Metal Halide light source G22;
- Lamp Wattage - 575 Watts;
- Supply voltage - 220/240V;
- Peak Beam Candlepower – 13,600,000 lux with standard Glass
- Peak Beam Candlepower – 10,880,000 lux with UV Glass
- Range – 3685 metres;
- Range UV – 2948 metres
- Divergence – 2.5°;
- Temperature range: -50°C (with heaters fitted);

In order that the searchlight operates correctly it is imperative that competent personnel are responsible for the installation, operation and servicing of this equipment. Failure to adhere to this advice may cause premature failure or incorrect operation of the searchlight, which may damage the equipment or cause personal injury.

4 - Unpacking and Installation Instructions

The following instructions should be read and fully understood prior to installing the equipment to ensure that the correct procedures are followed, and all safety precautions are observed.

Note: If the equipment has been in storage for a considerable amount of time, it is advisable to conduct a routine maintenance check on all parts before installation.

Safety Precautions

This equipment should not be connected to an electrical supply before being installed. Installation procedures should be adhered to in order to ensure a safe working environment and reduce the risk of damage or personal injury.

Preparing the Mounting Position

Mark out and drill the fixing holes through the deck, 4 Holes Ø12.5mm on a 350 PCD. If anti-vibration mounts are to be fitted, the fixing holes for the mounts should also be marked out and drilled. Prior to manoeuvring the searchlight into its' fixing position, the AV mounts should be fitted to the base. When in the desired position, bolt the searchlight firmly down. On an uneven surface it may be necessary to use a suitable sealant such as silicone, in order to ensure a weatherproofed joint.

5 - Electrical Installation

For safety purposes, only competent personnel should perform the electrical installation. All equipment should be installed to current Electrical Regulations and Standards.

In order to obtain the maximum light output from the searchlight, it is essential that the full operating voltage of the lamp fitted be applied to the lampholder contacts.

Method of Electrical Connection

- 1) Disconnect the supply before working on the electrical system;
- 2) The searchlight must be connected to a fused electrical supply, using suitably sized cable;
- 3) If the searchlight is located a considerable distance from the supply, provision must be made in the cable size in order to overcome the voltage drop. The following table should be used for indication purposes only:

Searchlight	240v 575w
Cable Size (mm ²)	Distance Max
1.5	129 MTRS
2.5	210 MTRS
4.0	333 MTRS
6.0	520 MTRS
10.0	871 MTRS

- 4) Whenever possible cable terminations should be made below deck and with approved terminal devices;
- 5) If a spare auxiliary fuse or circuit breaker is not available, one of the correct type and rating should be fitted and connected to a positive supply. It is advisable to locate a bus bar or main connection and avoid any direct connection to the supply;

Installation Guidelines

Standard

A typical installation and connection routine for the FH300RC Twin Head searchlight is as follows:

Referring to wiring diagram C27806, the Mains supply is fed into each control gear, which then provides a common feed to the motor gearbox, control panel and the searchlight.

The searchlight has been pre-wired with 3 meters of cable from the gearbox to junction box & to the Control Gear Enclosure.

Cables required to be connected by the customer: -

8 cores 1.5mm cable from the Junction Box to the Control Panel.

12 cores 0.5mm cable from the Junction Box to the Control Panel.

The searchlight head is pre-wired along with the connecting cable to the motor gearbox.

6 - Operating Instructions

This equipment is designed for use out of doors, in free air. Never place anything on or cover the searchlight when in use as this may present a hazard.

The searchlight can be remotely positioned via the joystick control panel, with the facility for movement up, down, left and right. When in the desired position the joystick should be released so that it returns to its' home position, dead centre.

The beam of the searchlight can be adjusted to give a variety of beam types. Using the yellow remote focus button on the joystick panel, the desired beam can be achieved for any particular application. The beam will move continuously through 'spot' to 'flood'. In order to fix the beam type; simply release the button at the desired position.

The heaters specified on this equipment are self-regulating and will shut off when they reach the dew point temperature.

This product should not be used for any purpose other than for which it was designed. Any modifications to the product should not be undertaken without consulting the manufacturer.

Setting to Work

Safe service in use necessitates the strict observance of the following precautions.

- Any article fabricated from quartz or glass is inherently fragile and care should therefore be taken, at all times, when handling lamps;
- Eye protection must be worn when handling lamps that have been removed from their packaging materials. The protective jacket should not be removed from the lamp for safety reasons, as there is a remote possibility of the lamp shattering violently, especially if it is subjected to mechanical shock or vibration;
- Always isolate the equipment from the supply before inserting a lamp;
- Before inserting the lamp ensure that all contacts are clean. Contacts must be renewed at the slightest sign of corrosion. Sanding or filing down corroded areas is not recommended as this will only make the conducting surface between the pin and lampholder smaller, thus causing the lamp to overheat;
- Do not twist or bend the fused quartz bulb when fitting the lamp as mechanical stresses MUST be avoided;
- The lamp must be capable of unimpeded expansion when it warms up to operating temperature. Mechanical forces must not be applied to the fused quartz bulb;
- Before the protective jacket is removed, suitable protection must be worn i.e face mask and gloves with wrist protection;
- Never touch the quartz bulb with bare hands, as fingerprints will make the glass cloudy and cause a severe loss of light. This may also cause recrystallisation and thus weaken the bulb material. Should the bulb be inadvertently touched, remove fingerprints with methylated spirit and a clean, soft paper towel. The bulb should then be wiped with distilled water. NOTE: ALWAYS WEAR MASK AND GLOVES DURING CLEANING);

In all circumstances the lamp manufacturer's data should be referred to when dealing with lamps.

When fitting the lamp:

- Always isolate the equipment from the supply when inserting a lamp;
- Ensure the circuit is suitably fused;
- Ensure the lamp is of the correct power rating and type;
- Check lampholder is in good condition. If the contacts show any sign of corrosion, replace the lampholder;
- Check the lampholder is in a good dry condition. Never allow water to collect in the lamp fitting or come into contact with the lamp.

To fit the lamp:

- Loosen all the latches on the front of the searchlight, remove the front bezel assembly and store in a safe place;
- For easier access the light shield/spill ring may be removed by undoing the fasteners;
- Cut open one end of the protective sleeve surrounding the lamp;
- Using the sleeve to prevent the fingers coming into contact with the lamp, position the two pins above the holes in the lampholder;
- Gently push the lamp into the lampholder and remove the protective sleeve;
- Replace the light shield/spill ring and front bezel assembly, ensuring the latches are securely fastened.

Testing

Upon correct installation and connection to an electrical supply, the equipment can be tested in order to ensure its' correct performance. A competent person with some knowledge of electrical equipment must carry out this work.

Equipment required: Multi-meter with leads
 Ammeter

Using the equation $P=VI$, the approximate power output of the equipment can be calculated in the following way:

- Using the multi-meter, take a voltage reading;
- Using the ammeter, take an amp reading from the live cable to the lamp;
- Multiply these figures together to give an approximate wattage (Power output).

For example:

Using a 24v 150w Tungsten halogen lamp:
Voltage reading = 24v; Amps reading = 6 amps

Therefore, Wattage = $24 \times 6 = 144$ watts

7- Fault Finding

All fault finding must be conducted by a competent person or qualified Electrical Engineer.

Failure of Lamp to light

Causes:

- 1) Power not supplied;
- 2) Fuse blown;
- 3) Failed lamp

Remedy:

- 1) Check voltage at supply. If supply is not present the fault is at the customer supply. If power is present, see remedy 2;
- 2) Check fuse for visual failure. If none noticeable check fuse for continuity using a multi-meter. If fuse found to be faulty, replace with new part and test equipment again for correct working order. If found to be working correctly see remedy 3;
- 3) Firstly, check supply at lampholder connecting block (within searchlight barrel). If supply is present, disconnect unit from power supply before removing the lamp. If noticeable damage to filament is present, the lamp will have failed. The lamp can also be checked for continuity using a multi-meter. Replace lamp ensuring all precautions and instructions previously outlined in this manual are adhered to.

Failure of Remote Focus

Causes:

- 1) Power not supplied;
- 2) Faulty connections;
- 3) Failed motor

Remedy:

- 1) Check voltage at supply. If no supply present fault is at customer supply. If power is present, see remedy 2;
- 2) Check all wiring connections on motor and terminal rail, in accordance with the wiring diagram. If found to be correct, see remedy 3;
- 3) Remove focus motor and apply 24v DC directly across terminals. If motor does not rotate the unit has failed. A new focus motor should be fitted to the lampholder assembly.

NOTE: If a fault occurs on the pan and tilt gearbox, the unit should be returned to Francis Searchlights Limited for fault evaluation and repair.

8 - Maintenance and Servicing

In order to prolong the service life and performance of your searchlight, the following maintenance guidelines are recommended:

- Maintenance checks should be conducted before every voyage or at least every three months;
- Before checking, disconnect the equipment from the supply;
- Visually inspect the condition of the equipment;
- Any major or minor structural damage should be rectified immediately in order to reduce sympathetic wear;
- After inspection it may be necessary to clean the inside of the searchlight. The following procedure should be adhered to:
 - Remove the front bezel;
 - Clean the front glass inside and out using a proprietary glass cleaner;
 - Clean the reflector if required;
 - Check the reflector mounting gaskets. If signs of corrosion or damage are evident, replace as necessary;
 - Ensure that the lampholder is free from corrosion or other damage;
- It is advisable to check all seals and gaskets for signs of degradation. Renew if necessary;
- The searchlight is fitted with a breather unit. This ensures a steady airflow in order to prevent any vacuum forming within the barrel.
- Upon completing all maintenance requirements, the searchlight should be tested for full working order (approximately 20 minutes).

If in any doubt as to the correct servicing procedures to adopt please contact your distributor/agent or the manufacturer who will be able to advise the best course of action for your product.

9 - Wiring Diagram and General Assembly

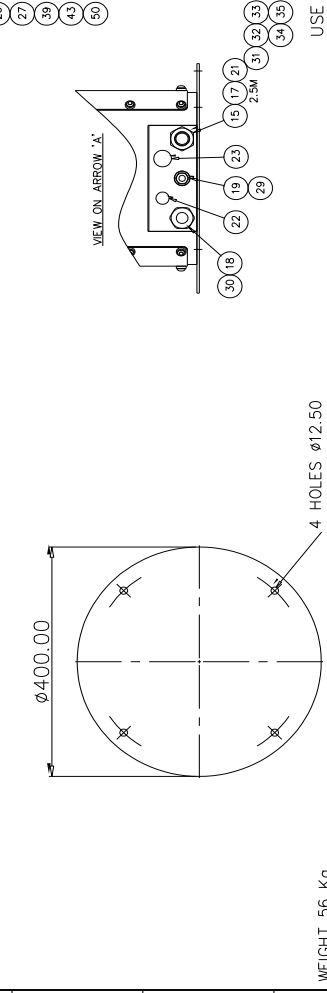
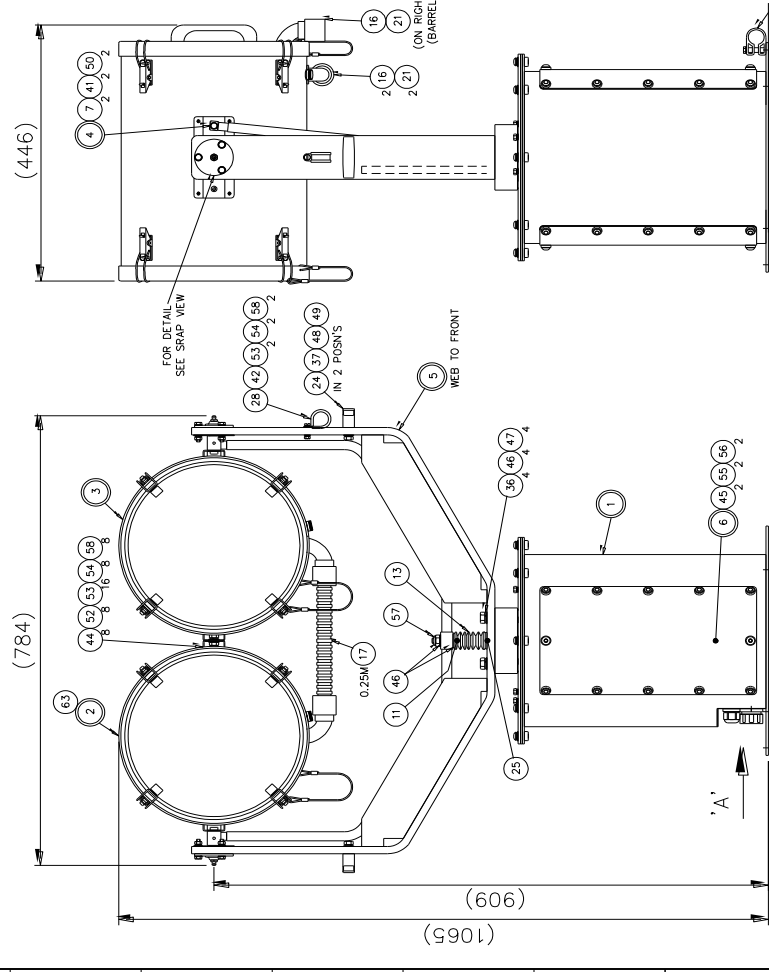
Drawing Number	Description
A6074	FH300RC 575w 240v Twin Head General Assembly
C27806	Wiring Diagram
C27799	Control Gear Assembly
C26263	Junction Box Assembly
C24885	Control Panel

ITEM No	DESCRIPTION	DATE	BY
1	AS PER DRAWING	31.13	L.W.
2	REWORK APPROVED BY [Signature]	31.13	L.W.
3	ISSUE & SERIAL BROUGHT UP TO DATE	31.13	L.W.

ITEM PART No.	DRG No.	DESCRIPTION	QTY
1	C27030	HYBRID MOTOR UNIT ASSY HW	1
2	C26253	BARREL ASSY (LEFT)	1
3	C26254	BARREL ASSY (RIGHT)	1
4	C26260	U-PIECE ASSY	1
5	C26268	CRUTCH SUB ASSY	1
6	C23174	TERMINAL RAIL ASSY	1
7	C23329	U-PIECE BUSH	2
8	C24980	TRUNNION SCREW	2
9	C10331	044 003 SHALLOW BEARING COVER	2
10	C23869	CRUTCH SHIM INSIDE	2
11	C21583	BELLOWS TOP BUSH	1
12	C24944	BEARING	2
13	C20281	BELLOWS	1
14	C11094	GREASE NIPPLE	2
15	C24952	M25 CONDUIT GLAND	1
16	C24953	M25 90° CONDUIT GLAND	3
17	C24954	M25 CONDUIT - 2.75M	1
18	C15450	GLAND M25	1
19	C10158	GLAND M20	1
20	C16505	SILICONE TUBE (2M CLEAR)	4
21	C24711	M25 SEALING WASHER	4
22	C20684	BLANKING PLUG	1
23	C23529	BLANKING PLUG	1
24	C20943	LIFTING HANDLE	2
25	C21987	O' RING	1
26	C24644	M25 CABLE CLEAT	1
27	C24649	M25 CABLE CLEAT BUSH	1
28	C27295	M25 CABLE CLEAT (30DE)	1
29	C20241	CABLE 12 CORE 0.5mm(4M)	1
30	C15448	CABLE 10 CORE 1.5mm(4M)	1
31	C13872	CABLE 1.5mm RED (10M)	1
32	C13873	CABLE 1.5mm BLACK (5.5M)	1

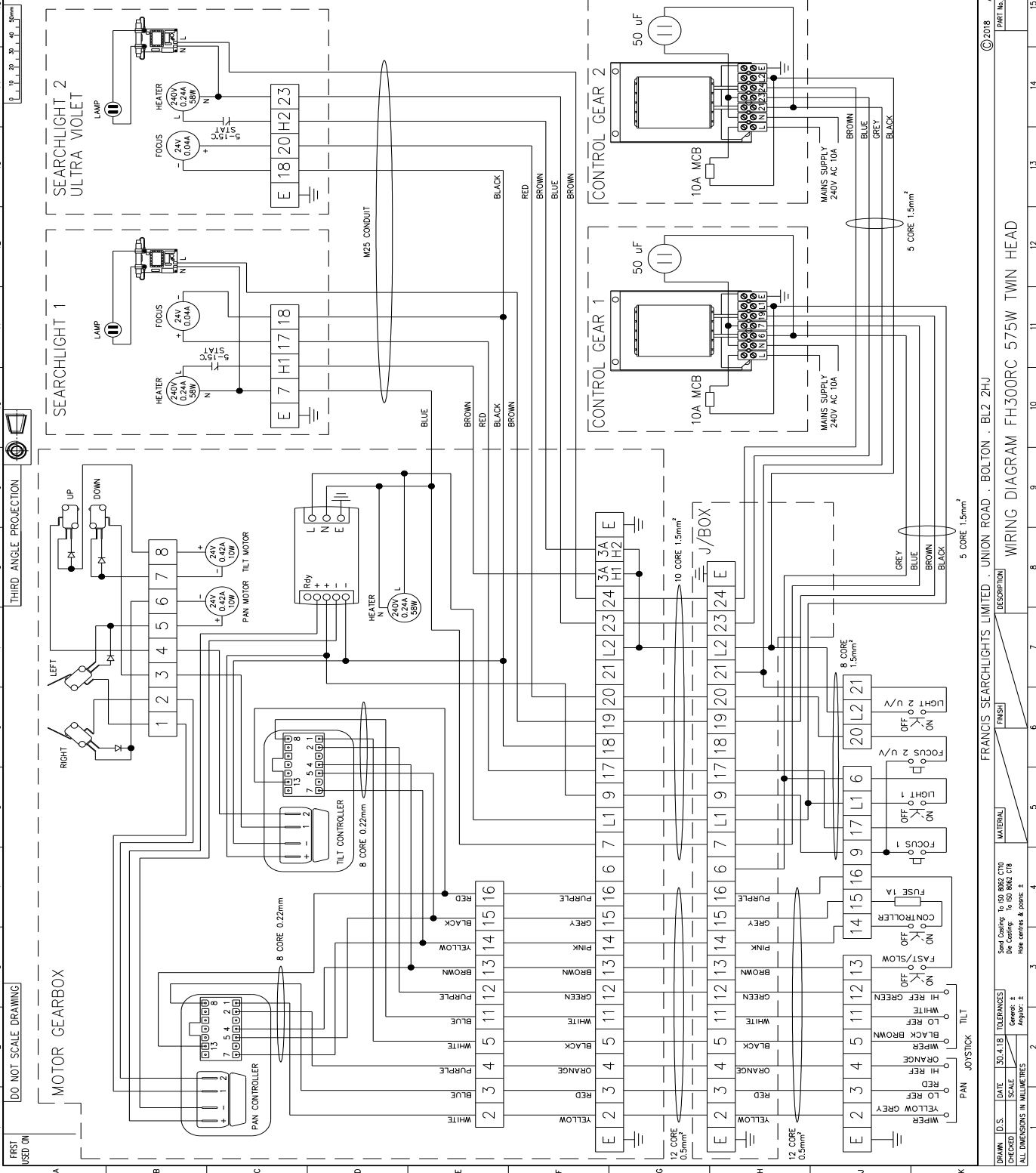
ITEM PART No.	DRG No.	DESCRIPTION	QTY
33	C15112	CABLE 1.5mm G/Y (5.5M)	1
34	C15938	CABLE 1.5mm BLUE (11M)	1
35	C26799	CABLE 1.5mm BROWN (21M)	1
36	C08088	SCREW M10 x 30 HEX HD	4
37	C09208	SCREW M8 x 30 HEX HD	2
38	C21398	SCREW M8 x 16 BTN HD	2
39	C10733	SCREW M6 x 12 HEX HD	1
40	C09580	SCREW M6 x 25 HEX HD	2
41	C10210	SCREW M5 x 20 PAN HD	1
42	C10142	SCREW M5 x 12 CSK HD	1
43	C16335	SCREW M5 x 12 HEX HD	8
44	C14644	WASHER M10 PLAIN	6
45	C08091	WASHER M10 S/C SPRING	4
46	C15313	WASHER M8 PLAIN	6
47	C06999	WASHER M8 S/C SPRING	6
48	C15041	WASHER M6 PLAIN	15
49	C06997	WASHER M6 S/C SPRING	15
50	C10554	WASHER M5 NYLON	8
51	C15273	WASHER M5 PLAIN	18
52	C08392	WASHER M5 S/C SPRING	18
53	C09231	WASHER M4 PLAIN	2
54	C04376	WASHER M4 S/C SPRING	2
55	C08793	NUT M10 NYLON	1
56	C12355	NUT M5 FULL NUT	10
57	C08352	NUT M6 FULL NUT	6
58	C06267	LABEL ISOLATE SUPPLY	6
59	C22036	LABEL DANGER 230v	6
60	C21464	CONNECTOR	4
61	C15828	M25 BLANKING PLUG	1
62	C23528	GREASE	A/R

FOR WIRING USE ITEMS 60 62



NOTE:
 ATTACH ITEMS 60 & 61 TO SEARCHLIGHTS REAR COVER, MOTOR UNIT COVER & JUNCTION BOX LID

WEIGHT 56 Kg
 MOVEMENT +45° -45°



11
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2
1

DATE 4.18 D.S.
MODIFICATION DETAILS
ISS No 1 AS FIRST DRAWN

11
10
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1

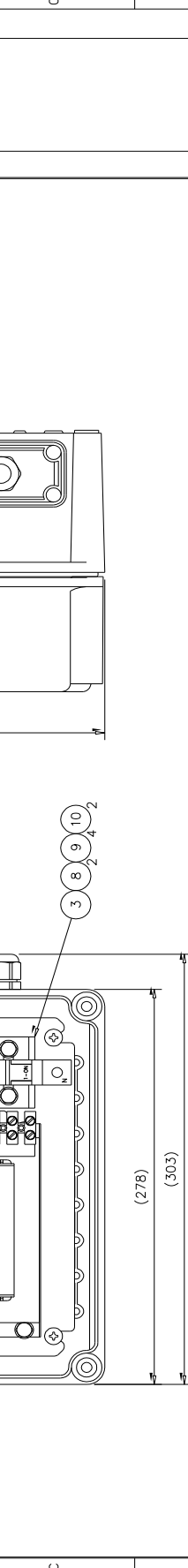
0 10 20 30 40 50mm

THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

FIRST USED ON
FH300RC
575W TWIN
A6074

VIEW WITH LID REMOVED
CHASSIS PLATE FIXINGS SUPPLIED WITH ENCLOSURE



ITEM	PART No.	DRG No.	DESCRIPTION	QTY
1	C27797	C27797	CHASSIS PLATE SUB ASSY	1
2	C23640	C23640	ENCLOSURE DRILLING	1
3	C27064	C24143	DIN RAIL	1
4	C10158		M20 CABLE GLAND	2
5	C20537		BALLAST	1
6	C26986		10 AMP MCB	1
7	C20235		50 MFD CAPACITOR	1
8	C10733		M6 x 12 HEX HD SCREW	6
9	C06997		M6 PLAIN WASHER	8
10	C10554		M6 S/C SPRING WASHER	6

STANDARD PRACTICE
Debur all out/machined edges
Break corners R0.25(Max) U.S.S.

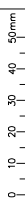
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Francis SEARCHLIGHTS
PART No./DRG No. C27799 1
SHT 1

FRANCIS SEARCHLIGHTS LIMITED · UNION ROAD · BOLTON · BL2 2HJ
DESCRIPTION 575W CONTROL GEAR ASSY (FH300RC TWIN HEAD)
FINISH
MATERIAL
Sand Casting: To ISO 8062 CT10
Die Casting: To ISO 8062 C18
TOLERANCES
General: ±
Angular: ±
Hole centres & posns: ±
SCALE T:2
ALL DIMENSIONS IN MILLIMETRES

DO NOT SCALE DRAWING

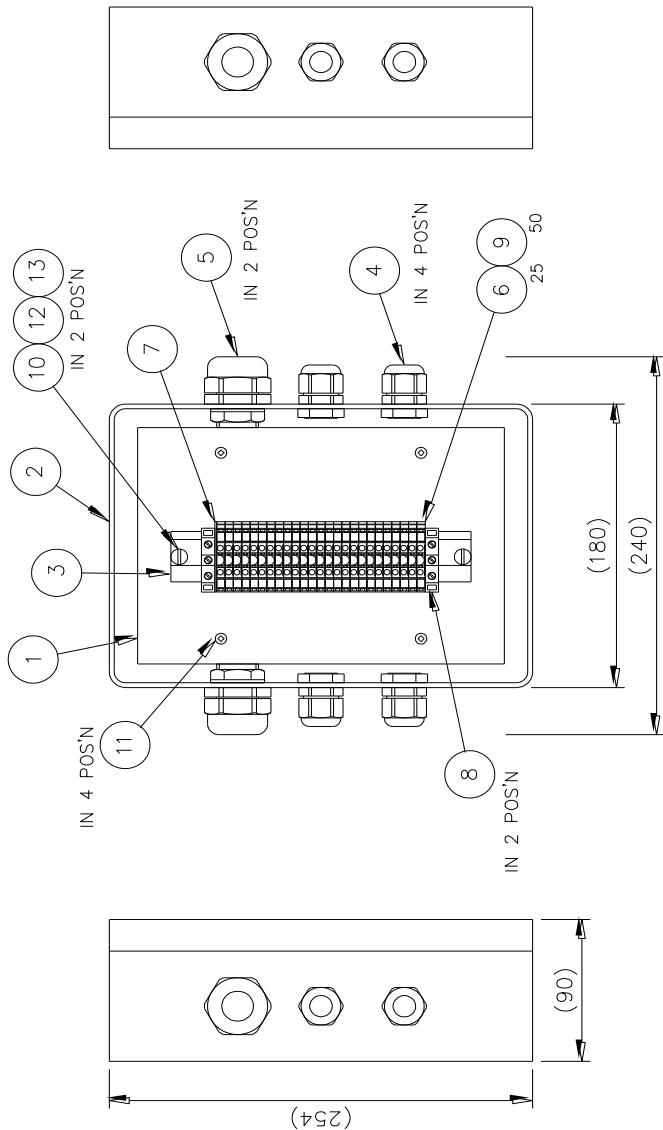
THIRD ANGLE PROJECTION



MODIFICATION DETAILS	DATE & AMT'S
1 AS FIRST DRAWN	3.10 LW
2 C25839 WAS C22505 (EC1609)	1.16 LW
3 GLAND CONFIG CHANGED (EC1696)	4.18 LW

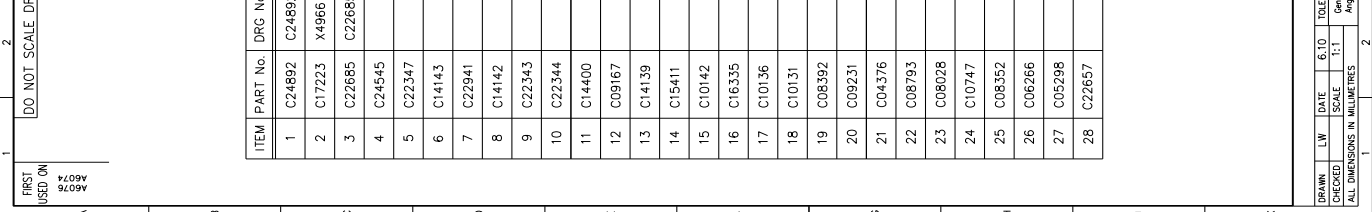
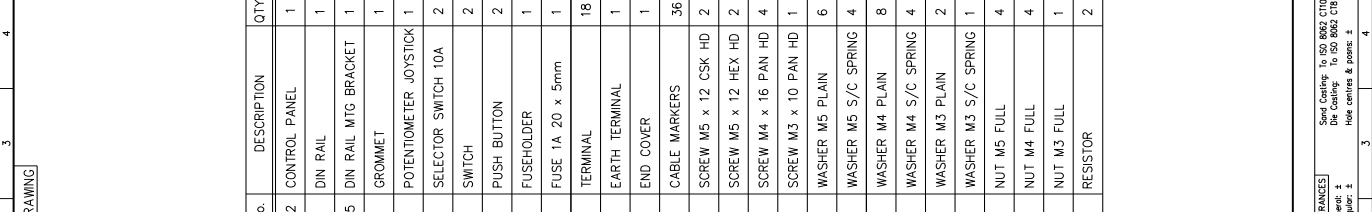
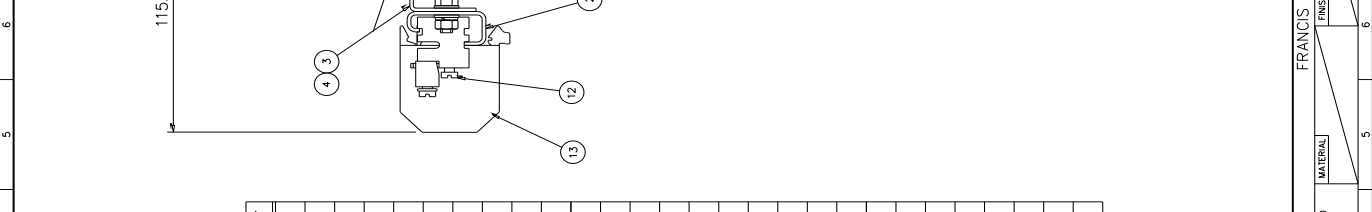
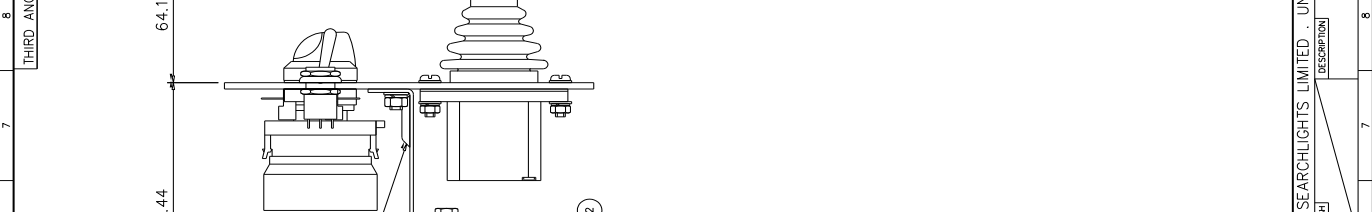
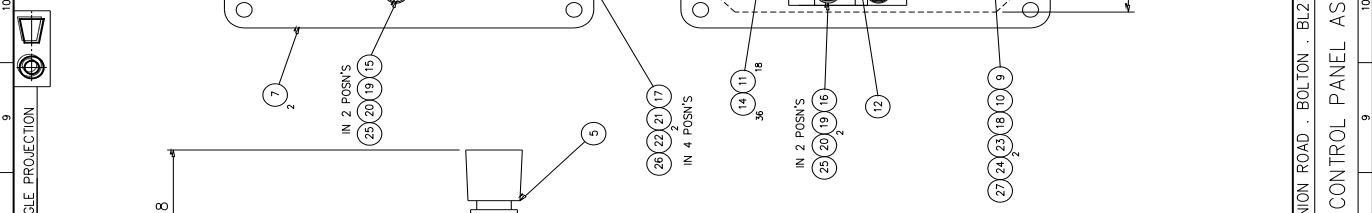
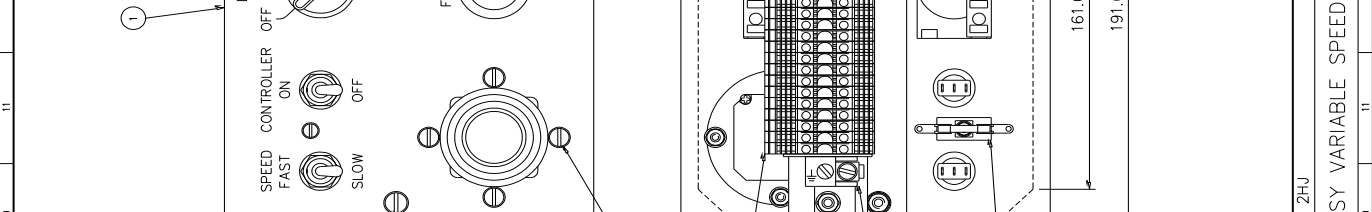
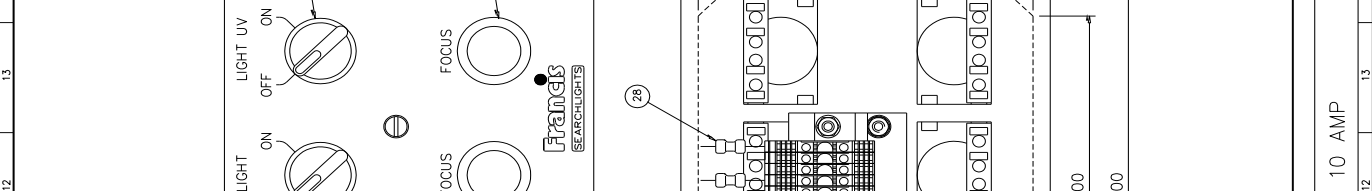
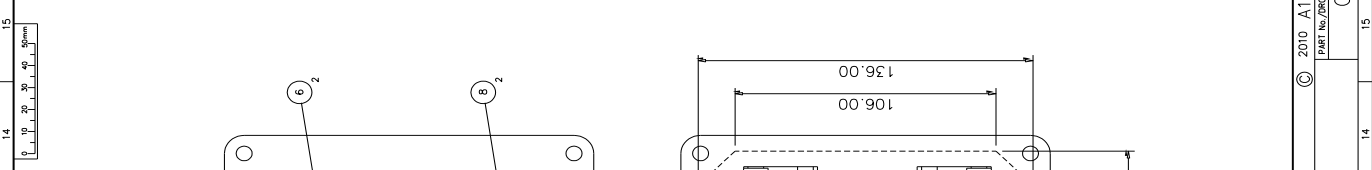
FIRST USED ON
FH300
TWIN HEAD
A6074

ITEM	PART No.	DRG No.	DESCRIPTION	QTY	ITEM	PART No.	DRG No.	DESCRIPTION	QTY
1	C20230	C20230	CHASSIS PLATE ASSY	1	8	C14379		EARTH TERMINAL	2
2	C26262	C26262	ENCLOSURE DRILLING	1	9	C15411		TERMINAL MARKER	50
3	C25839	C25839	TERMINAL RAIL	1	10	C09895		SCREW M5 x 10 PAN HD	2
4	C10158		CABLE GLAND M20	4	11	C23598		SCREW ϕ 4 x 8 PAN POL.MATEHD	4
5	C15450		CABLE GLAND M25	2	12	C08392		WASHER M5 PLAIN	2
6	C14400		TERMINAL	25	13	C09231		WASHER M5 S/C SPRING	2
7	C14139		END COVER	1					



STANDARD PRACTICE
Debur all cut/machined edges
Break corners R0.25(New) U.O.S.





ITEM	PART No.	DRG No.	DESCRIPTION	QTY
1	C24892	C24892	CONTROL PANEL	1
2	C17223	X4966	DIN RAIL	1
3	C22685	C22685	DIN RAIL MTG BRACKET	1
4	C24545		GROMMET	1
5	C22347		POTENTIOMETER JOYSTICK	1
6	C14143		SELECTOR SWITCH 10A	2
7	C22941		SWITCH	2
8	C14142		PUSH BUTTON	2
9	C22343		FUSEHOLDER	1
10	C22344		FUSE 1A 20 x 5mm	1
11	C14400		TERMINAL	18
12	C09167		EARTH TERMINAL	1
13	C14139		END COVER	1
14	C15411		CABLE MARKERS	36
15	C10142		SCREW M5 x 12 CSK HD	2
16	C16335		SCREW M5 x 12 HEX HD	2
17	C10136		SCREW M4 x 16 PAN HD	4
18	C10131		SCREW M3 x 10 PAN HD	1
19	C08392		WASHER M5 PLAIN	6
20	C09231		WASHER M5 S/C SPRING	4
21	C04376		WASHER M4 PLAIN	8
22	C08793		WASHER M4 S/C SPRING	4
23	C08028		WASHER M3 PLAIN	2
24	C10747		WASHER M3 S/C SPRING	1
25	C08352		NUT M5 FULL	4
26	C06266		NUT M4 FULL	4
27	C05298		NUT M3 FULL	1
28	C22657		RESISTOR	2

DRWING	LW	DATE	SCALE	TOLERANCES	General	Surface	Form	Material	Description
CHECKED	J.W.	11/10/10	1:1	General: ±0.1 Holes: ±0.05	±0.1	±0.05	±0.05	FRANCIS SEARCHLIGHTS LIMITED	CONTROL PANEL ASSY VARIABLE SPEED 10 AMP

10 - Spare Parts List

The following spare parts can be ordered directly from the manufacturer:

Part Number	Description
Searchlight Spares	
D15764	575w Metal Halide Lamp
C10870-00	Lampholder – G22
C08890-00	Clear Front glass
C21849-00	UV Front Glass
C20567-00	Front / Rear Bezel Gasket
C08884-00	Reflector
C16880-00	Ignitor
C22268-01	Breather Unit Assembly
C14143-00	Switch - On/Off
C22941-00	Controller / Speed Switch
C14142-00	Switch – Focus
C22347-00	Joystick
C22344-00	Joystick Panel Fuse
C16410-00	Motor - Remote Focus
C16534-00	Motor Cover
C20281-00	Bellows
C24889-00	Thermal Switch
C26362-01	Heater Assembly
Motor Gearbox Spares	
C22403-01	Pan Motor Sub Assembly
C22287-00	Tilt Motor
C22380-00	Microswitch no lever
C22382-00	Microswitch with lever
C24030-01	'I' Drive Pan Speed Controller
C24060-01	'I' Drive Tilt Speed Controller
C23530-01	P.S.U.
C22381-00	Pedestal Top Sealing Gasket
C26441-00	Pedestal Cover Gasket
C23277-01	Heater
Control Gear Assy Spares	
C20537-00	Ballast
C20235-00	Capacitor
C26986-00	MCB 10Amp

In order to prolong the life and performance of your product, we recommend that you only specify Francis Searchlights spare parts. This will ensure that any warranties on your equipment will not be invalidated.

When ordering spare parts please contact the Sales Department at Francis Searchlights Limited. Please quote searchlight model and serial number at all times. This will enable a fast response to your spares' requirements.