



## User Instruction & Installation Manual

### LX300 Remote Control 300 watt Xenon Searchlight



#### Product Reference Number:

A7045 – LX300RC Explorer 300w 240v

A7046 – LX300RC Explorer 300w 115v

#### *Manufacturer's details:*

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Manual Part Number: C26721

9.2.15 Issue: 1

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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 Xenon 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.**

- Because of the high internal pressure within the lamp, there is a risk of explosion in either a hot or cold state;
- During operation this lamp emits intense UV radiation which is harmful to the eyes and skin. Suitable protection should be worn;
- The high luminance of the arc can cause severe damage to the eye if viewed directly. ALWAYS wear suitable protective goggles when viewing the lamp;
- Always use protective sleeves supplied with the lamp;
- 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;
- 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 disposing of lamps, return the lamp, via the supplier, to the lamp manufacturer in its complete packaging;
- 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 LX300RC 300watt searchlight has the following features:

- Constructed from stainless steel;
- Parabolic super pure aluminium reflector;
- Powder Coated & stove enamel paint finish;
- 420° horizontal rotation;
- Vertical movement  $\pm 40^\circ$ ;
- Variable speed 1-15°/sec (Pan), 1-5°/sec (Tilt);
- RS485 connectivity & auto home positioning;
- Remote focus facility;
- Internal self-regulating heater;
- Economical 1000 hour lamp life;
- Toughened front glass;
- Luminous flux 7600;
- Colour temperature 6000K;
- Sealing to IP66 Gearbox, IP56 Searchlight & IP56 PSU;

The searchlight also performs to the following optical data:

- Xenon light source
- Lamp Wattage - 300 Watts;
- Supply voltage – 110v/240v AC 1Ph 50/60 Hz;
- Peak Beam Candlepower – 12.1 million lux;
- Range – 3487 metres;
- Adjustable lamp focus, 1° spot to 10° flood;
- Temperature range: -50°C

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. 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.

## 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 below indicates the maximum length of cable to be used for the supply cable to the power supply unit:

Searchlight	115v 300w	240v 300w
Cable Size (mm <sup>2</sup> )	Distance Max	Distance Max
1.5	57 MTRS	247 MTRS
2.5	93 MTRS	404 MTRS
4.0	147 MTRS	640 MTRS
6.0	229 MTRS	997 MTRS
10.0	384 MTRS	1869 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**

A typical installation and connection routine for the LX300RC searchlight is as follows:

Referring to wiring diagram C26709, a supply is fed to the power supply unit, which then provides a common feed to the motor gearbox, searchlight and joystick panel.

The searchlight has been pre-wired with 3 metres of cable from the motor gearbox to junction box provided. The searchlight head is pre-wired along with the connecting cable to the motor gearbox.

Cables required to be connected by the customer:-

2 pair twisted screened cable from the joystick panel to the junction box.

4 core 1.5mm cable from the PSU to the junction box.

3 core 2.5mm cable from the PSU to the junction box.

Supply cable to the PSU.

When the light is in operation the output from the PSU should be 20v at 15 amps.

## **Basic Operation**

When the searchlight is turned on an 115v/240v supply is fed to the PSU. This in turn generates a sufficient voltage to the ignitor in order that the ignition voltage is achieved and the Xenon lamp strikes.

After the lamp has lit, the PSU regulates the voltage through the ignitor so that the lamp operates within its design parameters.

## 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. (See Fig 1 below for aid to instructions)

To operate the panel press panel button (1), the button will light up & the joystick (4) is now operational. To switch the lamp on or off press the lamp button (2)

The speed of movement depends on the more pressure applied to the joystick (4) the faster the searchlight moves. When in the desired position the joystick should be released so that it returns to dead centre.

The beam of the searchlight can be adjusted to give a variety of beam types. Using the focus button (3) 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 focus button at the desired position.

To return the searchlight to Factory set auto home position (forward and horizontal) simply switch off the joystick panel using the panel button (1) and then press the lamp button (2), the searchlight will then move to the per-programed home position.

To set a new Home position, move the searchlight to the desired home position, switch off the panel (1), move the joystick to the downward position ↓ and simultaneously press the Lamp button (2), and then the Lamp button (2) will flash, to indicate the new programed Home position.

There is the option for added slave panels, the slave panel has all the features of the main control panel i.e. joystick, focus and on/off.

Slave Panel control, to take control of a Slave Panel when a Main Panel is on, press the Panel button (1) twice, the panel button will illuminate, allowing you to control the searchlight from the Main Control Panel & vice versa when switching back to the Main Panel.

When the lamp is switched on, this will illuminate the Lamp button (1) on both the Main & Slave Control panel, also when the Focus button (3) is pressed, both Focus buttons will be illuminated.

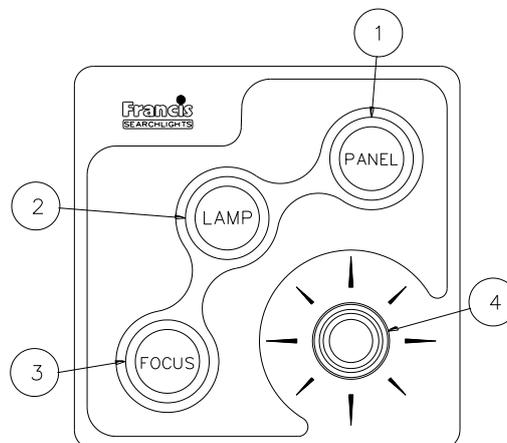


Fig 1

## 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;
- Ensure that the power rating of the lamp to be fitted is suitable for the lamphouse and power supply equipment;
- 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;
- When inserting or removing a lamp, always hold it securely by its' base in order to prevent breakage between base and bulb;
- The lampholder must not exercise mechanical tensions on the lamp, neither during insertion or operation. Contacts must not discolour during use;
- For safety reasons, the lamp should be replaced once it has reached its' average life, and not later than 1.25 times the stated life. With continuing use the risk of the lamp exploding increases due to alterations within the quartz;
- When fitting the lamp 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.**

## 7- Fault Finding

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

Please refer to the following table for the trouble-shooting of Xenon lamps.

Fault	Cause	Remedy
<ul style="list-style-type: none"> <li>■ Wrong Polarity</li> </ul>	<ul style="list-style-type: none"> <li>■ Lamp incorrectly fitted</li> <li>■ Faulty wiring</li> </ul>	<ul style="list-style-type: none"> <li>■ Anode (large electrode) must always be on top in vertical burning position</li> <li>■ Check polarity, transpose connections if necessary</li> </ul>
<ul style="list-style-type: none"> <li>■ Cap overheated</li> <li>■ Cap temperature above 230°C</li> </ul>	<ul style="list-style-type: none"> <li>■ Faulty contacts</li> <li>■ Cooling equipment defective</li> </ul>	<ul style="list-style-type: none"> <li>■ Check terminals, tighten or renew</li> <li>■ Check cooling equipment and replace if necessary</li> </ul>
<ul style="list-style-type: none"> <li>■ Arc unsteady</li> </ul>	<ul style="list-style-type: none"> <li>■ Lamp operated outside current control range</li> <li>■ Magnetic stabilisation for horizontal operation defective</li> </ul>	<ul style="list-style-type: none"> <li>■ Correct current setting</li> <li>■ Check magnetic stabilisation</li> </ul>
<ul style="list-style-type: none"> <li>■ Bulb draws in air</li> </ul>	<ul style="list-style-type: none"> <li>■ Crack in graded seal caused by overheated cap</li> <li>■ Maximum cap temperature 230°C</li> </ul>	<ul style="list-style-type: none"> <li>■ Check terminals - tighten or renew</li> </ul>
<ul style="list-style-type: none"> <li>■ Glass erosion on fused quartz bulb</li> </ul>	<ul style="list-style-type: none"> <li>■ Lamp operated outside current control range</li> <li>■ Lamp service life exceeded</li> </ul>	<ul style="list-style-type: none"> <li>■ Correct current setting</li> <li>■ Check meter</li> </ul>
<ul style="list-style-type: none"> <li>■ Electrodes damaged</li> <li>■ Premature blackening</li> </ul>	<ul style="list-style-type: none"> <li>■ Current ripple too high</li> <li>■ Auxiliary mirror incorrectly adjusted</li> </ul>	<ul style="list-style-type: none"> <li>■ Have power supply inspected</li> <li>■ Adjust auxiliary mirror</li> </ul>
<ul style="list-style-type: none"> <li>■ Asymmetrical blackening of lamp (in horizontal burning position)</li> </ul>	<ul style="list-style-type: none"> <li>■ Lamp operated too long in same position</li> </ul>	<ul style="list-style-type: none"> <li>■ Turn lamp through 180° after half service life</li> </ul>

## **Failure of Lamp to ignite**

In the event of the lamp failing to light the following steps should be taken:

- 1) Check that the supply is connected to the input of the PSU and check all connections as per the wiring diagram. On operation if the lamp does not light, switch off supply and check all fuses;
- 2) On your command get an operator to switch on the light for approximately 2 seconds. During this time listen for any noise (cracking or hissing) coming from the igniter housed in the rear of the searchlight. If this arcing is heard switch off the supply. Remove the front and rear bezels to expose the two supply leads to the lamp. Using a dry cloth wipe these leads to remove any dust, moisture or condensation that may have formed around the inside of the barrel. Replace the front and rear bezels, ensuring the latches are securely fastened, and perform the check again, listening for the cracking. If the lamp still fails to ignite, switch off at the supply and replace the lamp in accordance with the safety procedures within the manual and the manufacturer's information.

**Any further tests to be carried out with regards to lamp failure must be conducted by a competent electrical engineer and should not be carried out in an explosive atmosphere.**

- 3) Before a xenon lamp will ignite, the electrically insulated gas between the electrodes must be ionised. This is done by the ignitor which produces a high frequency voltage (up to 14,000 volts or higher). Switching the lamp on activates the ignitor. A cracking or hissing noise should be heard. The ignitor is housed within the rear of the searchlight. If found to be faulty return to Francis Searchlights Ltd for evaluation and repair.

## **Failure of Remote Focus Facility**

The remote focus mechanism is controlled by a small electric motor situated on the rear bulkhead assembly within the searchlight barrel. If the focus of the light fails the following procedure should be adopted:

- 1) Remove the rear bezel from the searchlight barrel and examine focus mechanism. If parts have become loose, tighten fasteners. The mechanism operates on a cam action and this should be checked for correct positioning;
- 2) If the mechanism is okay, check the supply to the motor. This can be done by simply placing a multimeter across the motor terminals;
- 3) If supply is present, this indicates that the motor has failed. Replace the focus motor ensuring that the assembly is correct;
- 4) If no supply is present trace all wiring back.

**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:

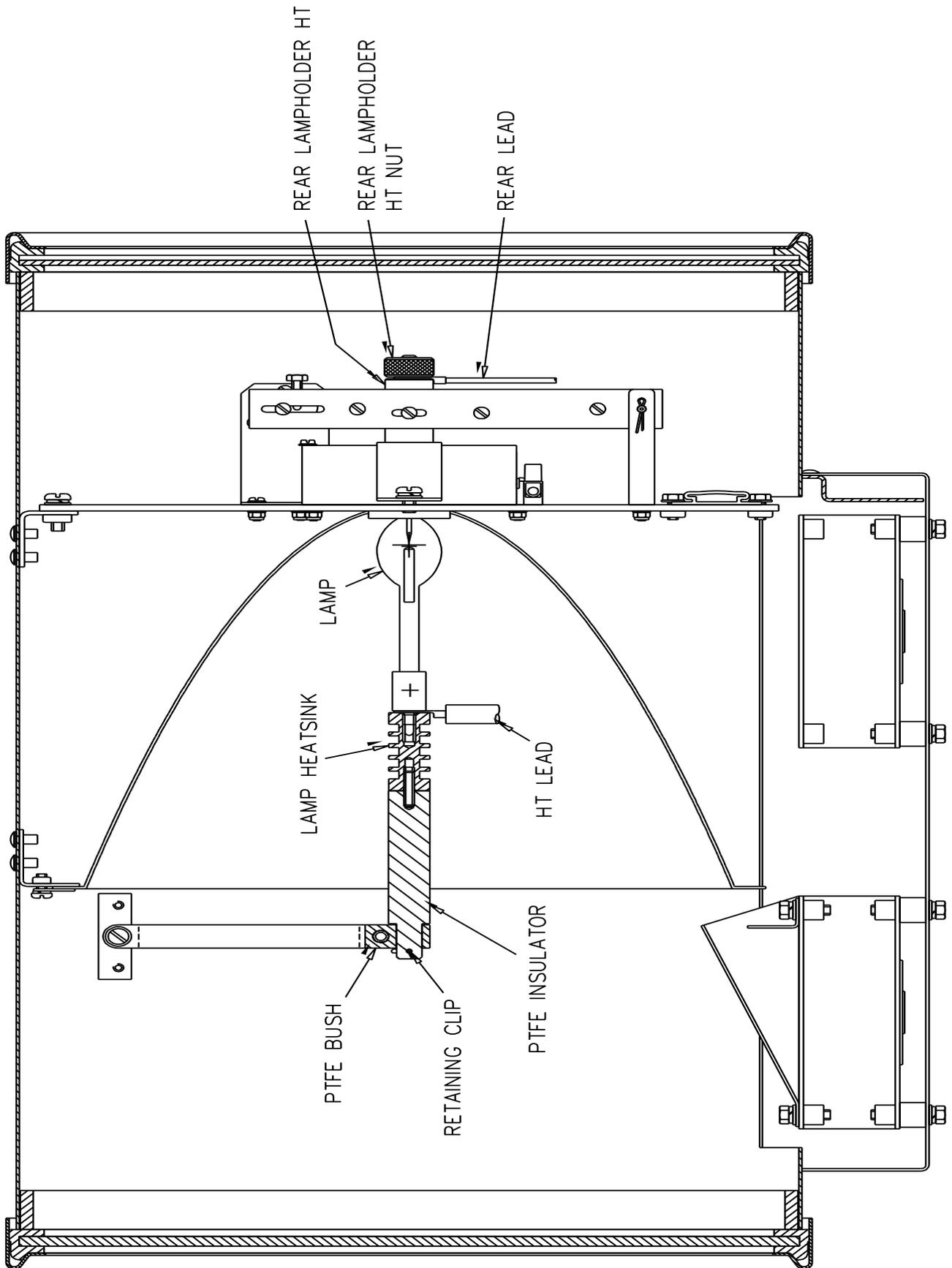
- Maintenance checks should be conducted before every voyage or at least every three months;
- Before checking, disconnect the equipment from the supply;
- Visually inspect the condition of the equipment;
- Any major or minor structural damage should be rectified immediately in order to reduce sympathetic 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 or metal polish;
  - Clean the reflector if required;
  - 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;
- 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.**

### **Notes for Lamp Fitting/Removal for LX300RC 300w Xenon**

To fit lamp:

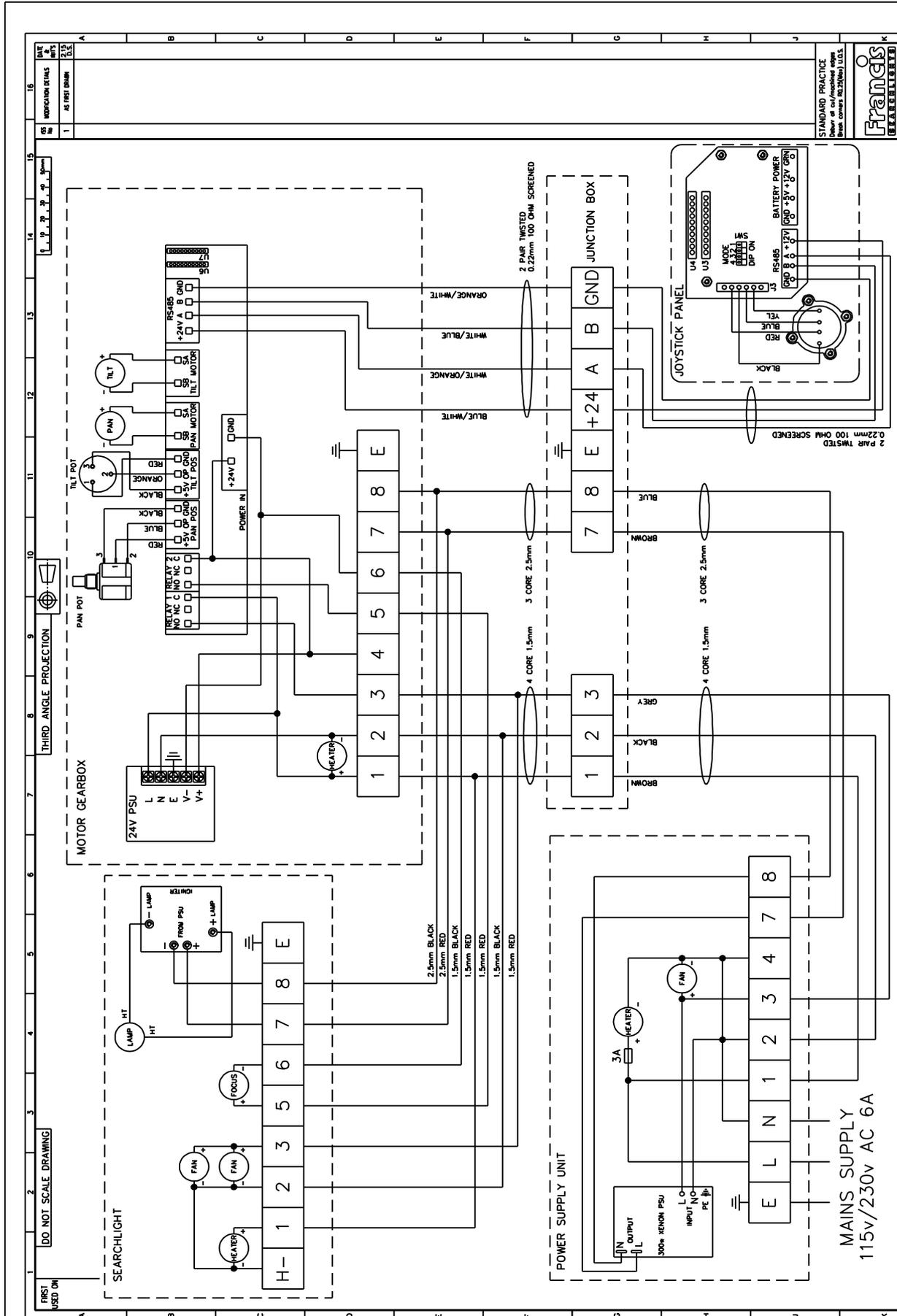
- Remove lamp from packaging;
- Remove front and rear bezels from searchlight by unfastening the latches;
- Screw the lamp into the rear lampholder HT, fit rear black lamp lead and secure with rear lampholder HT nut;
- Place the HT lead (large white lead) over the front of the lamp (positive) and secure in position using the lamp heatsink;
- Now screw the PTFE insulator into the lamp heatsink and ensure that the HT lead is tightly secured to prevent any arcing;
- Place the PTFE bush over the insulator and fix mechanism in position by pushing the retaining clip through the insulator;
- Replace front and rear bezel assemblies and fasten down clips securely, ensuring bezels are central to barrel and a good seal is achieved;
- Reverse this procedure for lamp removal.



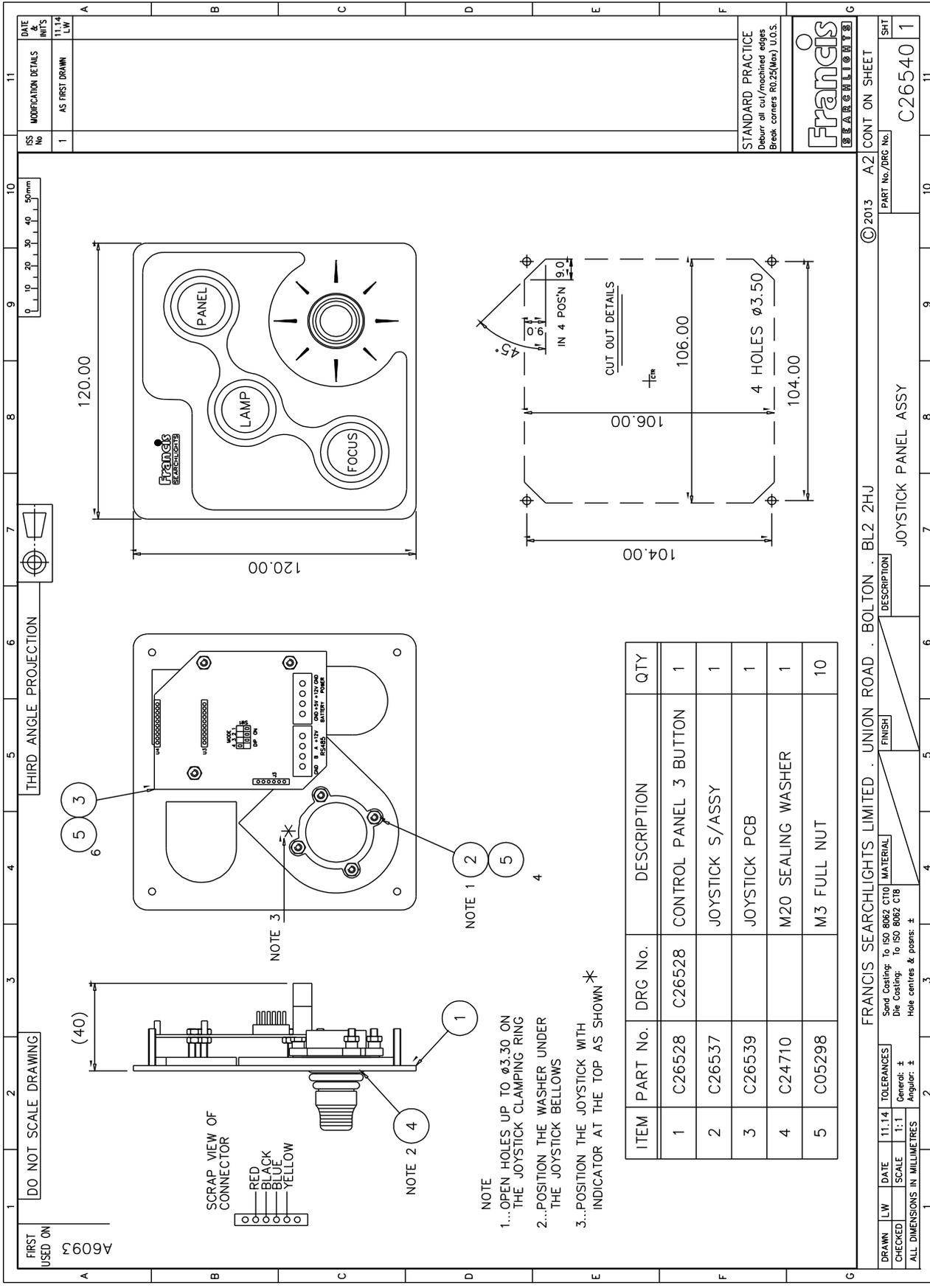
## 9 - Wiring Diagram & General Assembly Drawing

<b>Drawing Number</b>	<b>Description</b>
A7045 & A7046	LX300RC 300w Xenon G.A.
C26709	Wiring Diagram
C26540	Joystick Panel Assembly
C26731 & C26732	PSU Enclosure Assembly
C26724	Junction Box Assembly





DATE	3.2.15	REVISIONS	None	Scale	1:1	Author	1
CHECKED		SCALE	1:1	General	1	Appr'd	1
DRAWN		DATE		300w XENON PSU			
				3A FUSE			
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DATE & HNTS	11.14 LW
MODIFICATION DETAILS	
ISS No	1
AS FIRST DRAWN	

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

**Francis**  
 SEARCHLIGHTS

© 2013	A2	CONT ON SHEET
PART No./DRG No.	C26540	
SHT	1	

ITEM	PART No.	DRG No.	DESCRIPTION	QTY
1	C26528	C26528	CONTROL PANEL 3 BUTTON	1
2	C26537		JOYSTICK S/ASSY	1
3	C26539		JOYSTICK PCB	1
4	C24710		M20 SEALING WASHER	1
5	C05298		M3 FULL NUT	10

DO NOT SCALE DRAWING

FIRST USED ON  
 A6093

- SCRAP VIEW OF CONNECTOR
- RED
  - BLACK
  - BLUE
  - YELLOW

- NOTE
- 1... OPEN HOLES UP TO  $\phi 3.30$  ON THE JOYSTICK CLAMPING RING
  - 2... POSITION THE WASHER UNDER THE JOYSTICK BELLOWS
  - 3... POSITION THE JOYSTICK WITH INDICATOR AT THE TOP AS SHOWN\*

FRANCIS SEARCHLIGHTS LIMITED . UNION ROAD . BOLTON . BL2 2HJ

Send Casting: to ISO 8062 CT10  
 Die Casting: to ISO 8062 CT8  
 Hole centres & posits:  $\pm$

FINISH

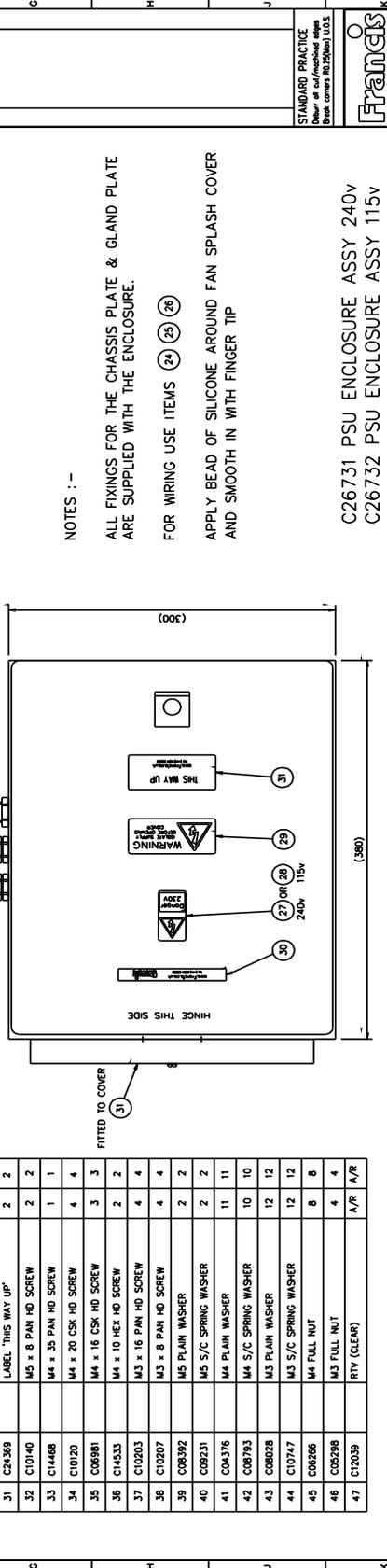
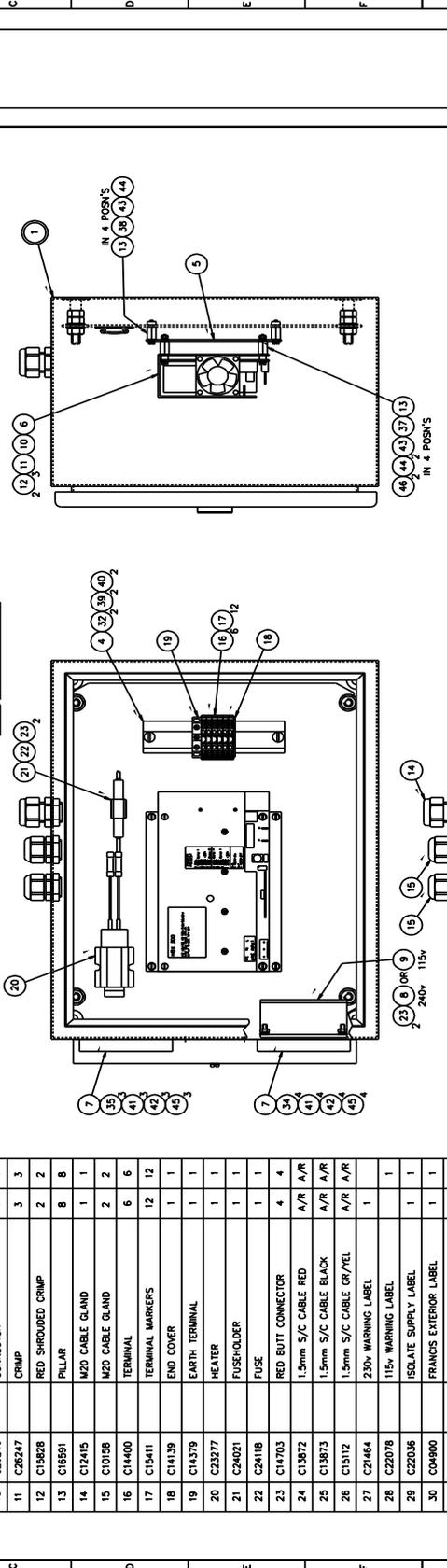
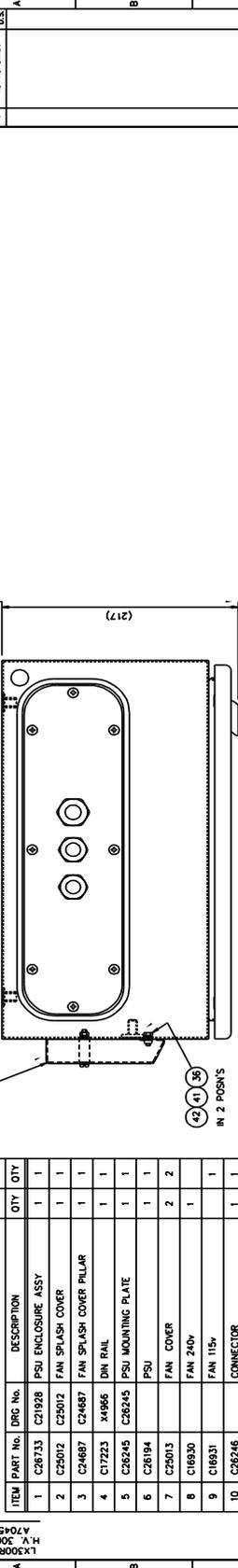
DESCRIPTION

JOYSTICK PANEL ASSY

DRAWN	LW	DATE	11.14	TOLERANCES
CHECKED		SCALE	1:1	General: $\pm$ Angular: $\pm$
ALL DIMENSIONS IN MILLIMETRES				

DO NOT SCALE DRAWING

ITEM	PART No.	DRG No.	DESCRIPTION	240v 115v	QTY	QTY
1	C26733	C21928	PSU ENCLOSURE ASSY		1	1
2	C25012	C25012	FAN SPLASH COVER		1	1
3	C24687	C24687	FAN SPLASH COVER PILLAR		1	1
4	C17223	X4986	DIN RAIL		1	1
5	C26245	C26245	PSU MOUNTING PLATE		1	1
6	C26194		PSU		1	1
7	C26013		FAN COVER		2	2
8	C16930		FAN 240v		1	1
9	C16931		FAN 115v		1	1
10	C26246		CONNECTOR		1	1
11	C26247		CRIMP		3	3
12	C19828		RED SHROUDED CRIMP		2	2
13	C16591		PILLAR		8	8
14	C12415		M20 CABLE GLAND		1	1
15	C10198		M20 CABLE GLAND		2	2
16	C14400		TERMINAL		6	6
17	C15411		TERMINAL MARKERS		12	12
18	C14139		END COVER		1	1
19	C14379		EARTH TERMINAL		1	1
20	C23277		HEATER		1	1
21	C24021		FUSEHOLDER		1	1
22	C24118		FUSE		1	1
23	C14703		RED BUTT CONNECTOR		4	4
24	C13872		1.5mm S/C CABLE RED	A/R	A/R	A/R
25	C13873		1.5mm S/C CABLE BLACK	A/R	A/R	A/R
26	C15112		1.5mm S/C CABLE GR/YEL	A/R	A/R	A/R
27	C21464		230v WARNING LABEL		1	1
28	C22078		115v WARNING LABEL		1	1
29	C22036		ISOLATE SUPPLY LABEL		1	1
30	C04900		FRANCIS EXTERIOR LABEL		1	1
31	C24369		LABEL "THIS WAY UP"		2	2
32	C10140		M5 x 8 PAN HD SCREW		2	2
33	C14468		M4 x 35 PAN HD SCREW		1	1
34	C10120		M4 x 20 CSK HD SCREW		4	4
35	C06981		M4 x 16 CSK HD SCREW		3	3
36	C14533		M4 x 10 HEX HD SCREW		2	2
37	C10203		M3 x 16 PAN HD SCREW		4	4
38	C10207		M3 x 8 PAN HD SCREW		4	4
39	C08392		M5 PLAIN WASHER		2	2
40	C09231		M5 S/C SPRING WASHER		2	2
41	C04376		M4 PLAIN WASHER		11	11
42	C08793		M4 S/C SPRING WASHER		10	10
43	C08028		M3 PLAIN WASHER		12	12
44	C10747		M3 S/C SPRING WASHER		12	12
45	C06286		M4 FULL NUT		8	8
46	C02928		M3 FULL NUT		4	4
47	C12039		RTV (CLEAR)	A/R	A/R	A/R



NOTES :-  
 ALL FIXINGS FOR THE CHASSIS PLATE & GLAND PLATE ARE SUPPLIED WITH THE ENCLOSURE.  
 FOR WIRING USE ITEMS (24) (25) (26)  
 APPLY BEAD OF SILICONE AROUND FAN SPLASH COVER AND SMOOTH IN WITH FINGER TIP

C26731 PSU ENCLOSURE ASSY 240v  
 C26732 PSU ENCLOSURE ASSY 115v

DATE	BY	CHKD	APP'D	DESCRIPTION
19.12.15				1st ISSUE

ITEM	DESCRIPTION	QTY
1	AS FIRST DRAWN	1

DATE	BY	CHKD	APP'D	DESCRIPTION
19.12.15				1st ISSUE

DATE	BY	CHKD	APP'D	DESCRIPTION
19.12.15				1st ISSUE

DATE	BY	CHKD	APP'D	DESCRIPTION
19.12.15				1st ISSUE

DATE	BY	CHKD	APP'D	DESCRIPTION
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19.12.15				1st ISSUE

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DATE	BY	CHKD	APP'D	DESCRIPTION
19.12.15				1st ISSUE

DATE	BY	CHKD	APP'D	DESCRIPTION
19.12.15				1st ISSUE

STANDARD PRACTICE  
 Drawn at cad/mechanical stage  
 Break covers 02.25(Min) U.S.S.

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CONT ON SHEET

FRANCIS

BL2 2HJ

PSU ENCLOSURE ASSY

C26731

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DATE	16
BY	
DESCRIPTION	
AS FIRST DRAWN	

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NO	
AS FIRST DRAWN	

0	10	20	30	40	50
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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THIRD ANGLE PROJECTION
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DO NOT SCALE DRAWING
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FIRST USED ON
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DATE	10.2.15
SCALE	1:1
TOLERANCES	
General	
Angular	

CHECKED	
ALL DIMENSIONS IN MILLIMETRES	

DRAWN	
DATE	10.2.15
SCALE	1:1
TOLERANCES	
General	
Angular	

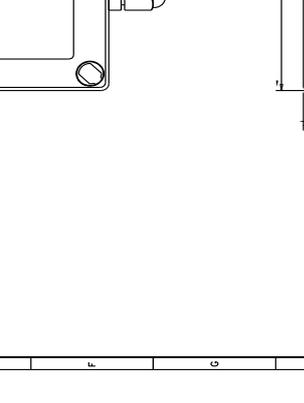
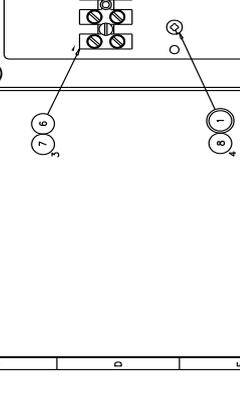
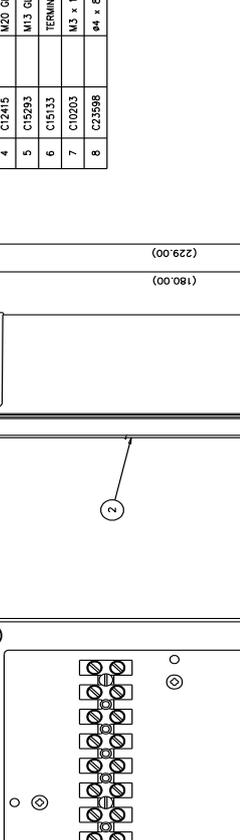
FINISH	
DESCRIPTION	
MATERIAL	
FRANCIS SEARCHLIGHTS LIMITED . UNION ROAD . BOLTON . BL2 2HU	

STANDARD PRACTICE
Detail of cut/meshed edges
Break corners R0.25mm U.S.

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A1 CONT ON SHEET
PART NO. (REV. No)
C26724 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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ITEM	PART No.	DRG No.	DESCRIPTION	QTY
1	C23602	C23602	CHASSIS PLATE ASSY	1
2	C26723	C26684	JUNCTION BOX DRILLING	1
3	C10158		M20 GLAND	2
4	C12415		M20 GLAND	2
5	C15293		M15 GLAND	2
6	C15133		TERMINAL BLOCK 32A	1
7	C10203		M5 x 16 PAN HD SCREW	3
8	C23598		Ø4 x 8 PAN HD POLYWATE SCREW	4



FRANCIS SEARCHLIGHTS LIMITED

UNION ROAD . BOLTON . BL2 2HU

JUNCTION BOX ASSY

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PART NO. (REV. No)

C26724 1

16

## 10 – Spare Parts List

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

<b>Part Number</b>	<b>Description</b>
<b>Searchlight Spares</b>	
D21908	300w Xenon Lamp
C26194-00	300w P.S.U
C26195-00	Ignitor
C20645-00	Front Glass
C20567-00	Front Glass Gasket
C16410-00	Motor - Remote Focus
C22268-01	Breather Assembly
C24132-01	Searchlight Fan (240v)
C24450-01	Searchlight Fan (115v)
C16930-00	PSU Fan (240v)
C16931-00	PSU Fan (115v)
C21909-00	Reflector
C23277-00	Heater 115/240v
C20281-00	Bellows

### **Motor Gearbox Spares**

C23259-01	Pan Motor Assembly
C23267-01	Tilt Motor Assembly
C23234-00	Pedestal Sealing Gasket
C26595-01	Speed Controller PCB
C26545-00	PSU
C23277-00	Heater 115/240v

### **Joystick Panel Spares**

C26537-01	Joystick
C26539-00	Joystick Controller PCB

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.