



User Instruction & Installation Manual
LX230RC 100 Watt 12v/24v/110v/240v
H.I.D Xenon Searchlight

Product Reference Number:

A6091-LX230RC 24v
A6098-LX230RC 12v
A6103-LX230RC 240v
A6119-LX230RC 110v



Manufacturer's details:

Francis Searchlights Ltd
Union Road, Bolton
Lancashire, BL2 2HJ, UK
Tel: +44 (0) 1204 558960
Fax: +44 (0) 1204 558979
<http://www.francis.co.uk>
E-mail: sales@francis.co.uk

Distributor details:



Manual Part Number: **C26125**

Issue: 4

12.3.14

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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 whilst handling;
- 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 LX230RC 100watt H.I.D Xenon searchlight has the following features:

- All marine grade materials and fixings;
- Stove enamel painted;
- Full 365° horizontal rotation;
- Vertical movement $\pm 20^\circ$;
- Instant lamp re-strike. No cooling down time required;
- Economical 3000 hour lamp life;
- Toughened front glass;
- Colour temperature 6000K;
- Sealing to IP66.

The searchlight also performs to the following optical data:

- Xenon H.I.D light source
- Lamp Wattage - 100 Watts;
- Supply voltage – 9.5v to 30v DC;
- Peak Beam Candlepower – 3,100,000lux;
- Range – 1,761 metres;
- Adjustable lamp focus, 5° spot to 29° flood;
- Temperature range: -40°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.

In the case of cabin control models, a centre hole is also required to allow the mechanism to pass through.

Fit the 'O' ring in position and bolt the searchlight down securely. On an uneven surface it is necessary to use a suitable sealant, such as silicone, 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.
- 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:

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 beam of the searchlight can be adjusted to give a variety of beam types. See the last note on lamp removal & fitting.

The searchlight is also fitted with a breather at the rear of the searchlight which ensures a steady airflow to prevent any vacuum forming within the barrel.

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 cover should not be removed from the lamp prior to use for safety reasons, as there is a remote possibility of the lamp shattering violently, especially if it is subjected to mechanical shock or vibration;
- 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;
- Do not twist or bend the 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.
- 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;
- Before the protective sleeve 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;**
- All packaging and the protective sleeve must be retained for re-use. Whenever removing a lamp, the protective sleeve must always be used for safety reasons;

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.

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 Ballast and check all connections as per the wiring diagram C26124 or C26220. On operation if the lamp does not light, switch off supply and check all fuses;

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.

- 1) 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 25,000 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 barrel. If found to be faulty a new ignitor must be fitted.

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 LX230RC 100w H.I.D Xenon See dwg C26112 for aid

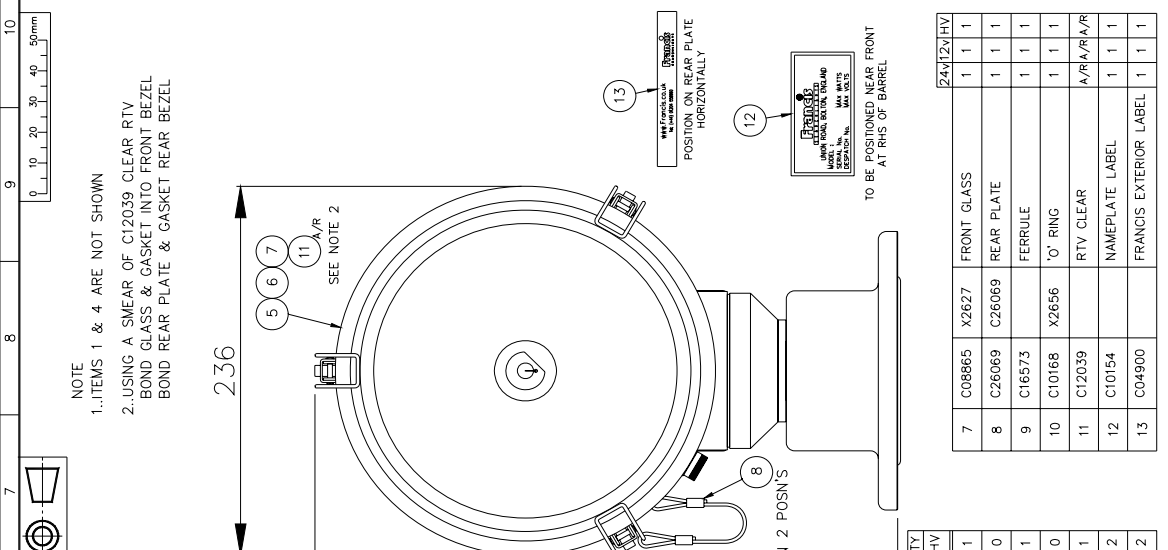
Ensure all screws are retained carefully in a safe position

- Remove lamp from packaging, ensuring protective jacket is still in place;
- Remove front & rear bezels from searchlight by unfastening the six clips ;
- Remove the four M3 cap head screws that fasten the reflector to the tilt bracket.
- Remove reflector & unclip lamp leads.
- Unscrew lamp attachment from the reflector.
- Release the M4 grub screw in the lampholder.
- Remove lamp from the holder.
- Unscrew the two M3 countersunk head screws that hold the lampholder onto the lampholder attachment being careful not to lose the M4 spacing nut behind the lampholder.
- The lamp can now be fully removed by freeing one lead at a time through the centre bore.
- Remove new lamp from protective packaging.
- Replace the lamp by reversing the above procedure.
- For ease, attach the lamp leads from the front of searchlight before attaching the reflector. Then take up the slack in the leads from the rear of the searchlight once the reflector is back in position.
- **NOTE: A smaller spot of beam can be achieved by removing one M4 nut from both sides of the lampholder; also a larger spot of beam can be achieved by adding an M4 nut to both sides of the lampholder.**

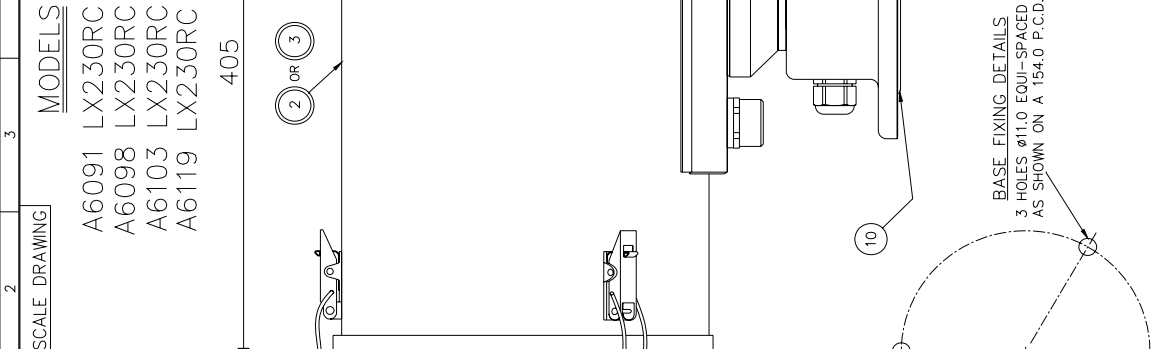
9 – General Assembly and Wiring Diagrams

Drawing Number	Description
A6091	A6091 LX230RC 100w G.A (24v) A6098 LX230RC 100w G.A (12v) A6103 LX230RC 100w G,A (240v) A6119 LX230RC 100w G,A (110v)
C26124	Wiring Diagram 12/24v
C26220	Wiring Diagram 240v
C26334	Wiring Diagram 110v
C25888	Wiring Diagram Schematic of the H.I.D Unit
C26112	Reflector Assembly
C21623	Control Panel 24/240v
C26221	HV Junction Box (110v/240v Only)

DATE & INTS	11
MODIFICATION DETAILS	
ISS No	1
AS FIRST DRAWN	6/12 LW
ISS No	2
MODIFICATION	COBB865 WAS C15248 4,1,4 (EC1542) LW



ITEM	PART No.	DRG No.	DESCRIPTION	QUANTITY	24V/12V/HV
1	C26129	C26129	JUNCTION BOX ASSY	1	0 1
1	C26225	C26225	JUNCTION BOX ASSY	0	1 0
2	C26105	C26105	BARREL ASSY 24v	1	0 1
3	C26174	C26174	BARREL ASSY 12v	0	1 0
4	C26221	C26221	HV JUNCTION BOX ASSY	0	0 1
5	C21119	C21119	FRONT BEZEL	2	2 2
6	C21141	C20567	FRONT GLASS GASKET	2	2 2



FRANCIS SEARCHLIGHTS LIMITED · UNION ROAD · BOLTON · BL2 2HJ	©2012	A2	CONT ON SHEET
FINISH	DESCRIPTION	PART No./DRG No.	SHT
		LX230RC 12/24V GA	A6091
DRAWN LW	DATE 6.12	TOLERANCES	
CHECKED	SCALE 1:2	Cast: ±	
ALL DIMENSIONS IN MILLIMETRES		Angular: ±	

FIRST USED ON LX230RC 100W 12V GA
 DO NOT SCALE DRAWING
 MODELS
 A6091 LX230RC 24V GA
 A6098 LX230RC 12V GA
 A6103 LX230RC 240V GA
 A6119 LX230RC 110V GA
 THIRD ANGLE PROJECTION
 NOTE
 1. ITEMS 1 & 4 ARE NOT SHOWN
 2. USING A SMEAR OF C12039 CLEAR RTV BOND GLASS & GASKET INTO FRONT BEZEL BOND REAR PLATE & GASKET REAR BEZEL
 3. HOLES Ø11.0 EQUI-SPACED AS SHOWN ON A 154.0 P.C.D.
 TO BE POSITIONED NEAR FRONT AT RHS OF BARREL
 STANDARD PRACTICE
 Rebur all cut/machined edges
 Break corners R0.25(Min) U.O.S.
 FRANCIS SEARCHLIGHTS LIMITED

NO.	DESCRIPTION	DATE	BY
1	AS FIRST DRAWN	8.12	LW
2	HEATER ADDED	8.12	LW
3	RESISTOR & THERM	8.14	LW
4	SWITCH	8.15	LW

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STANDARD PRACTICE	Refer to catalogue for details of these components.
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FRANCIS SEARCHLIGHTS LIMITED	BOLTON	BL2 2HU
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WIRING DIAGRAM	LX230RC	100w	HID	12/24v
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FINISH	MATERIAL
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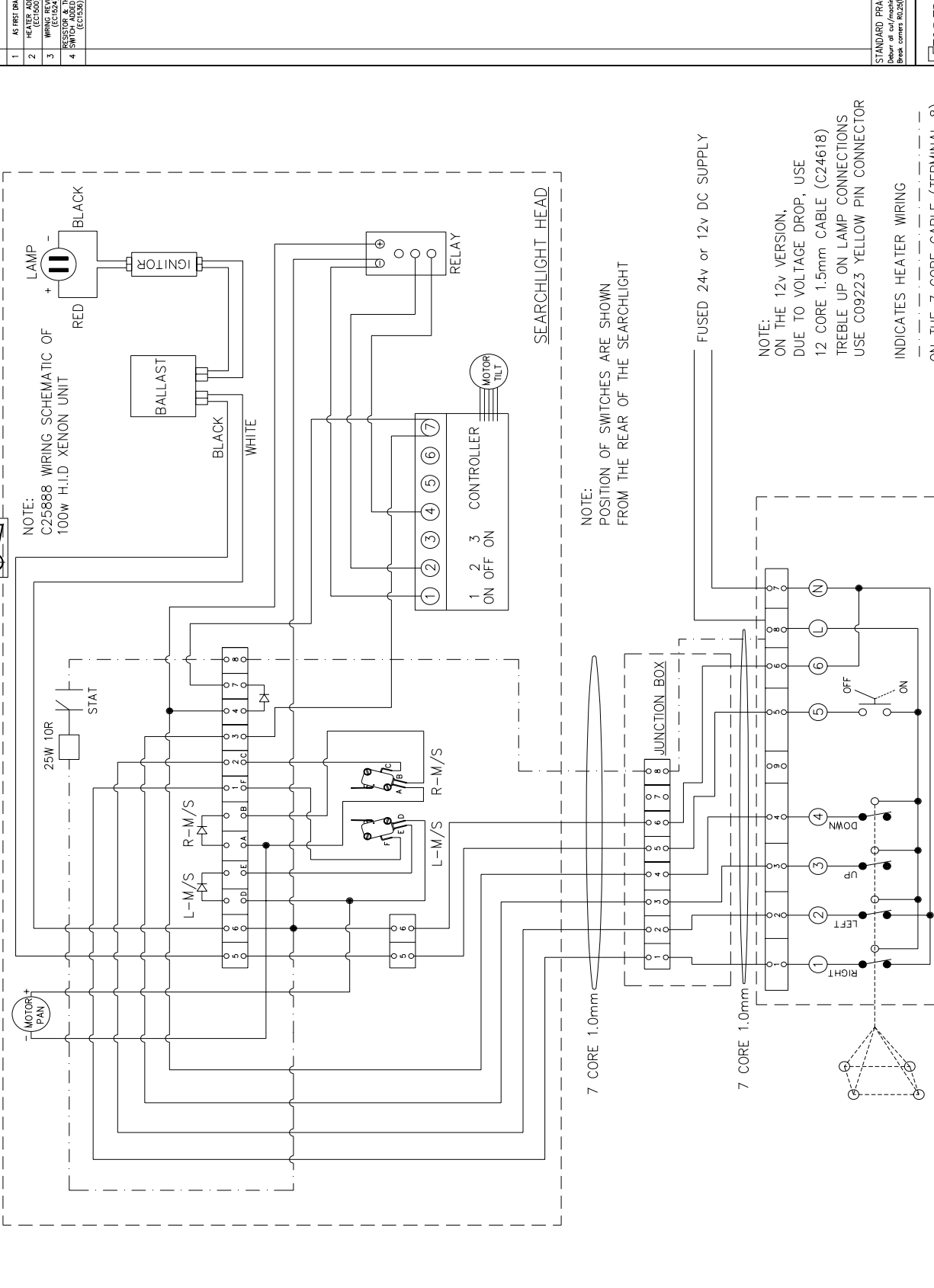
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NOTE: POSITION OF SWITCHES ARE SHOWN FROM THE REAR OF THE SEARCHLIGHT

NOTE: ON THE 12v VERSION, DUE TO VOLTAGE DROP, USE 12 CORE 1.5mm CABLE (C24618) TREBLE UP ON LAMP CONNECTIONS USE C09223 YELLOW PIN CONNECTOR

INDICATES HEATER WIRING ON THE 7 CORE CABLE (TERMINAL 8) MASK EARTH CABLE & USE AS EXTRA LIVE

FUSED 24v or 12v DC SUPPLY

16	INSTRUMENT DETAILS	DATE
15	US No	A
14	1	AS FIRST DRAWN
13	2	WIRING REVISED
12	3	BY (E.C.1095)
11	4	RESISTOR & THERMO
10		BY (E.C.1095)
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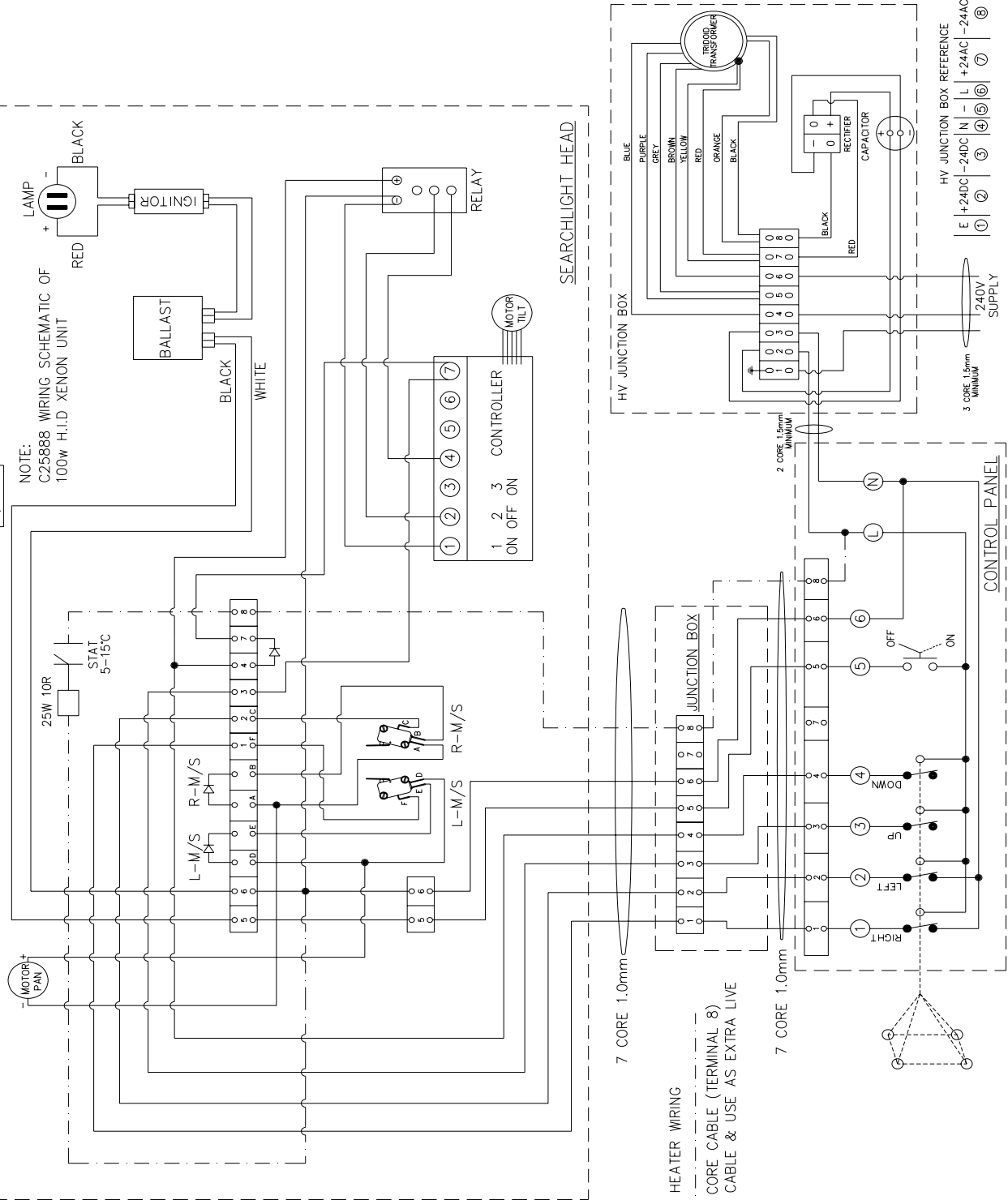
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6		BY (E.C.1095)
5		BY (E.C.1095)
4		BY (E.C.1095)
3		BY (E.C.1095)
2		BY (E.C.1095)
1		BY (E.C.1095)

FIRST USED ON LK230RC A6091

DO NOT SCALE DRAWING

NOTE:
C25888 WIRING SCHEMATIC OF
100W H.I.D. XENON UNIT



INDICATES HEATER WIRING
ON THE 7 CORE CABLE (TERMINAL 8)
MASK EARTH CABLE & USE AS EXTRA LIVE

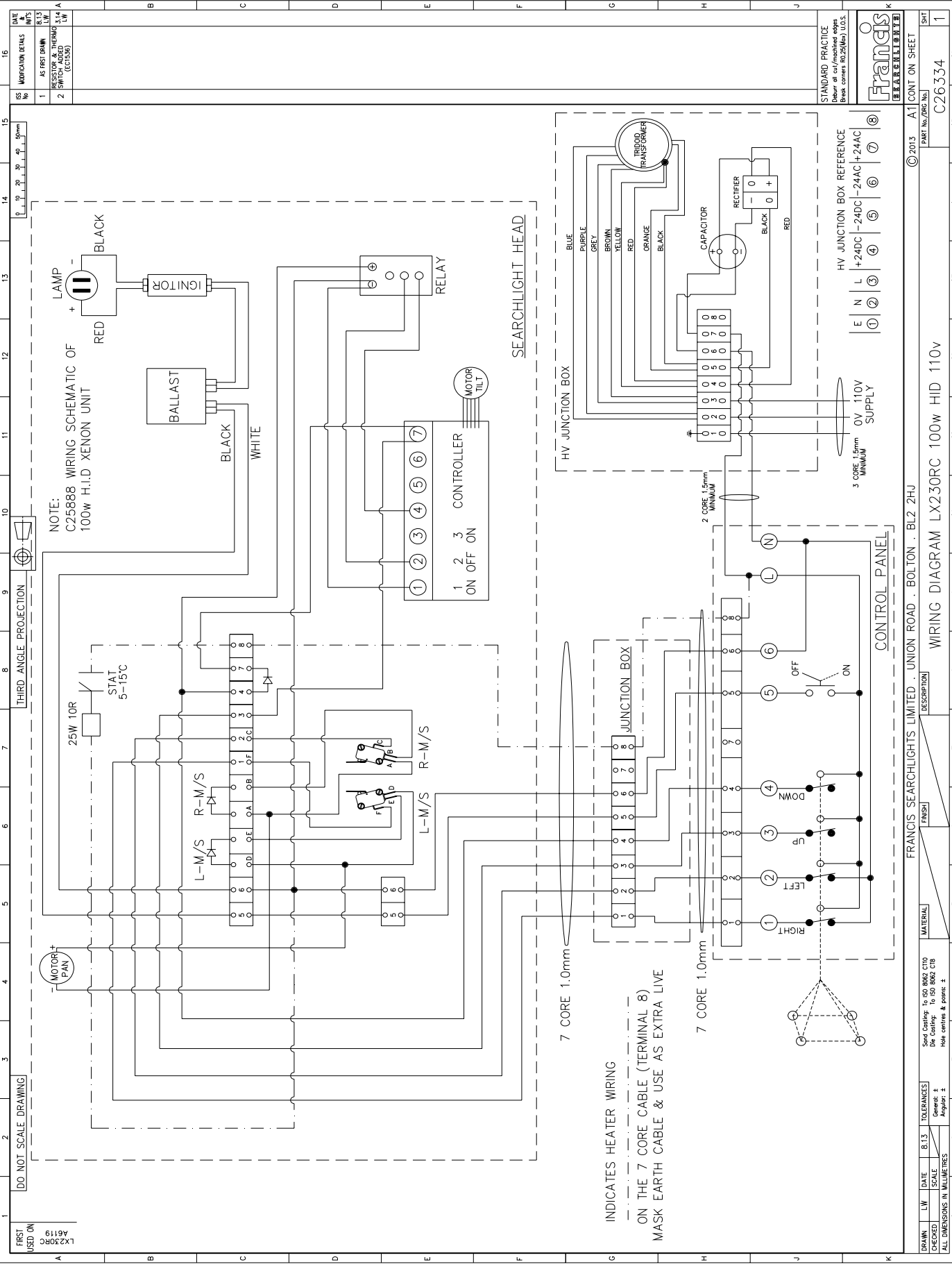
STANDARD PRACTICE
Colour all out/matched steps
Break covers R0.2(N/A) U.S.S.

Francis
SEARCHLIGHTS LIMITED

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PART NO./REV. No C26220
SHT 1

FRANCIS SEARCHLIGHTS LIMITED . UNION ROAD . BOLTON . BL2 2HU
WIRING DIAGRAM LK230RC 100W HID 240V

DRAWN	LW	DATE	2.13	TOLERANCES
CHECKED				See Centre to ISO 8065 CTD Die casting to ISO 8065 C7B Hole centres & pins: ±
				Angular: ±
				ALL DIMENSIONS IN MILLIMETRES



NOTE:
C25888 WIRING SCHEMATIC OF
100W H.I.D XENON UNIT

INDICATES HEATER WIRING
ON THE 7 CORE CABLE (TERMINAL 8)
MASK EARTH CABLE & USE AS EXTRA LIVE

STANDARD PRACTICE
Refer all cut/matched edges
Break corners R<2R(Max) U.O.S.

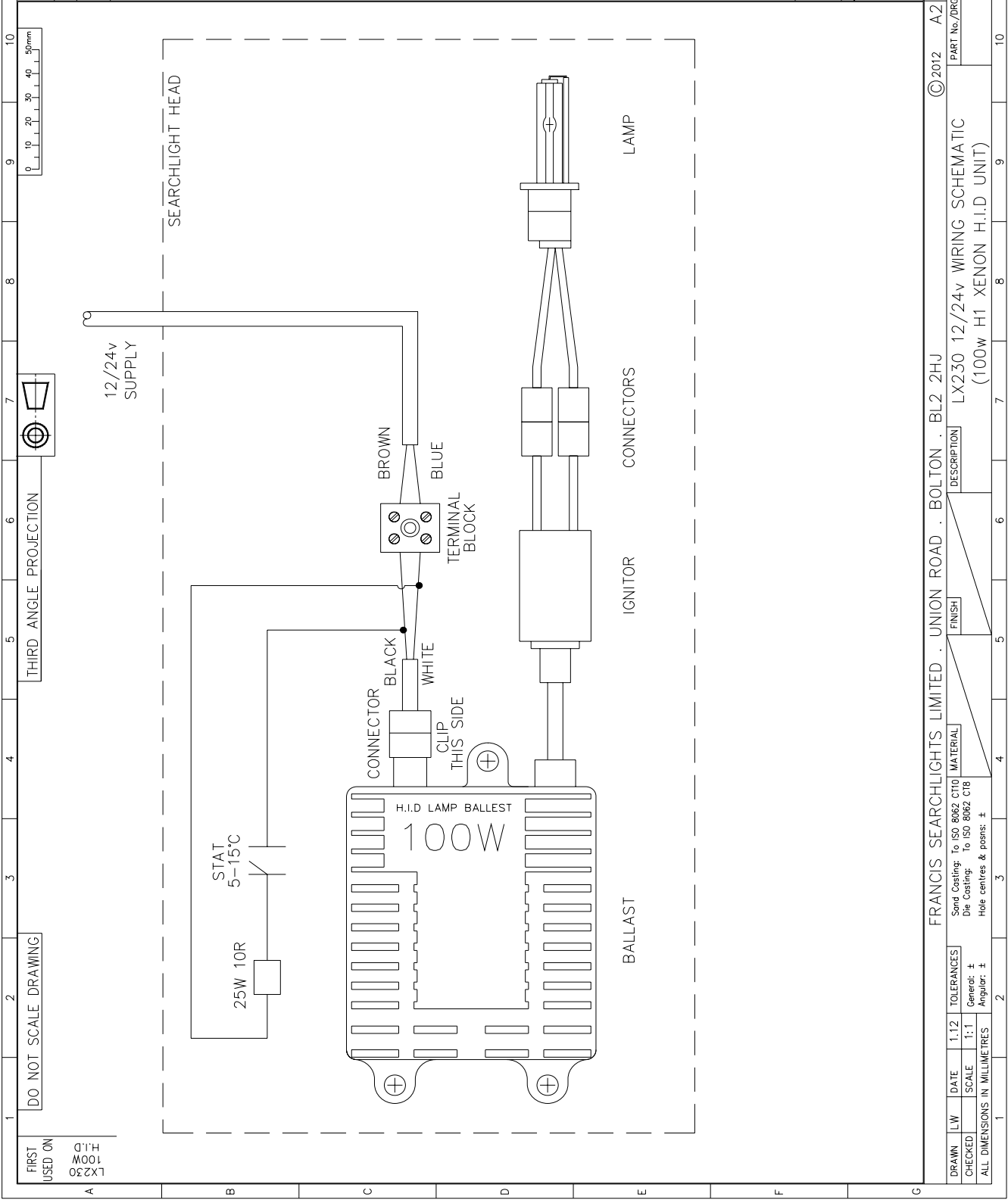
Francis
SEARCHLIGHTS LIMITED

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PART NO./REV. No
C26334

REV	DATE	BY	DESCRIPTION
1			AS FIRST DRAWN
2			REVISOR & INTERIM (C14 A)
			2 FINISH (C1335)

DRAWN	LW	DATE	8.15	TOLERANCES	FINISH	DESCRIPTION
CHECKED				See Centre: To ISO 8062 C10 Die Casting: To ISO 8062 C18		FRANCIS SEARCHLIGHTS LIMITED . UNION ROAD . BOLTON . BLZ 2HU
ALL DIMENSIONS IN MILLIMETRES				General: ± Angular: ±		WIRING DIAGRAM LX230RC 100W HID 110V

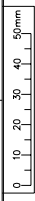
11	10	9	8	7	6	5	4	3	2	1																																	
<table border="1"> <tr> <td>ISS No</td> <td>1</td> <td>2</td> </tr> <tr> <td>MODIFICATION DETAILS</td> <td>AS FIRST DRAWN</td> <td>RESISTOR & THERMO SWITCH ADDED (EC1536)</td> </tr> <tr> <td>DATE (M/F)</td> <td>L/V</td> <td>L/W</td> </tr> <tr> <td>DATE (M/F)</td> <td>3.14</td> <td>LW</td> </tr> </table>											ISS No	1	2	MODIFICATION DETAILS	AS FIRST DRAWN	RESISTOR & THERMO SWITCH ADDED (EC1536)	DATE (M/F)	L/V	L/W	DATE (M/F)	3.14	LW																					
ISS No	1	2																																									
MODIFICATION DETAILS	AS FIRST DRAWN	RESISTOR & THERMO SWITCH ADDED (EC1536)																																									
DATE (M/F)	L/V	L/W																																									
DATE (M/F)	3.14	LW																																									
<table border="1"> <tr> <td>STANDARD PRACTICE</td> <td colspan="10">Deburr all cut/machined edges Break corners R0.25(Max) U.O.S.</td> </tr> </table>											STANDARD PRACTICE	Deburr all cut/machined edges Break corners R0.25(Max) U.O.S.																															
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<table border="1"> <tr> <td>FRANCIS SEARCHLIGHTS</td> <td colspan="10">© 2012 A2 CONT ON SHEET</td> </tr> <tr> <td>PART No./DRG No.</td> <td colspan="10">LX230 12/24v WIRING SCHEMATIC</td> </tr> <tr> <td>SHT</td> <td colspan="10">C25888 1</td> </tr> </table>											FRANCIS SEARCHLIGHTS	© 2012 A2 CONT ON SHEET										PART No./DRG No.	LX230 12/24v WIRING SCHEMATIC										SHT	C25888 1									
FRANCIS SEARCHLIGHTS	© 2012 A2 CONT ON SHEET																																										
PART No./DRG No.	LX230 12/24v WIRING SCHEMATIC																																										
SHT	C25888 1																																										



DO NOT SCALE DRAWING	THIRD ANGLE PROJECTION	12/24v SUPPLY	BROWN	BLUE	TERMINAL BLOCK	IGNITOR	CONNECTORS	LAMP	SEARCHLIGHT HEAD
----------------------	------------------------	---------------	-------	------	----------------	---------	------------	------	------------------

FIRST USED ON	LX230	H.I.D	100W
CHECKED	General: ±	Angular: ±	
ALL DIMENSIONS IN MILLIMETRES	1:1		
1	2	3	4
5	6	7	8
9	10	11	

ISS No	MODIFICATION DETAILS	DATE & INT'S
1	AS FIRST DRAWN	5/12 LW
2	LAMP ADDED (EC1542)	4/11 LW

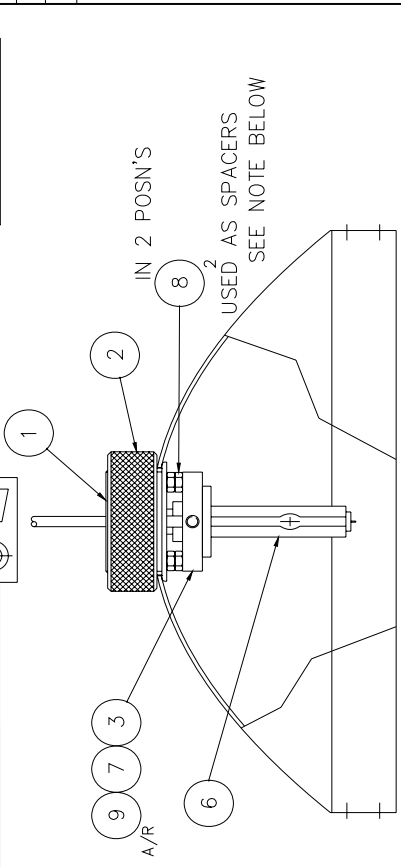


THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

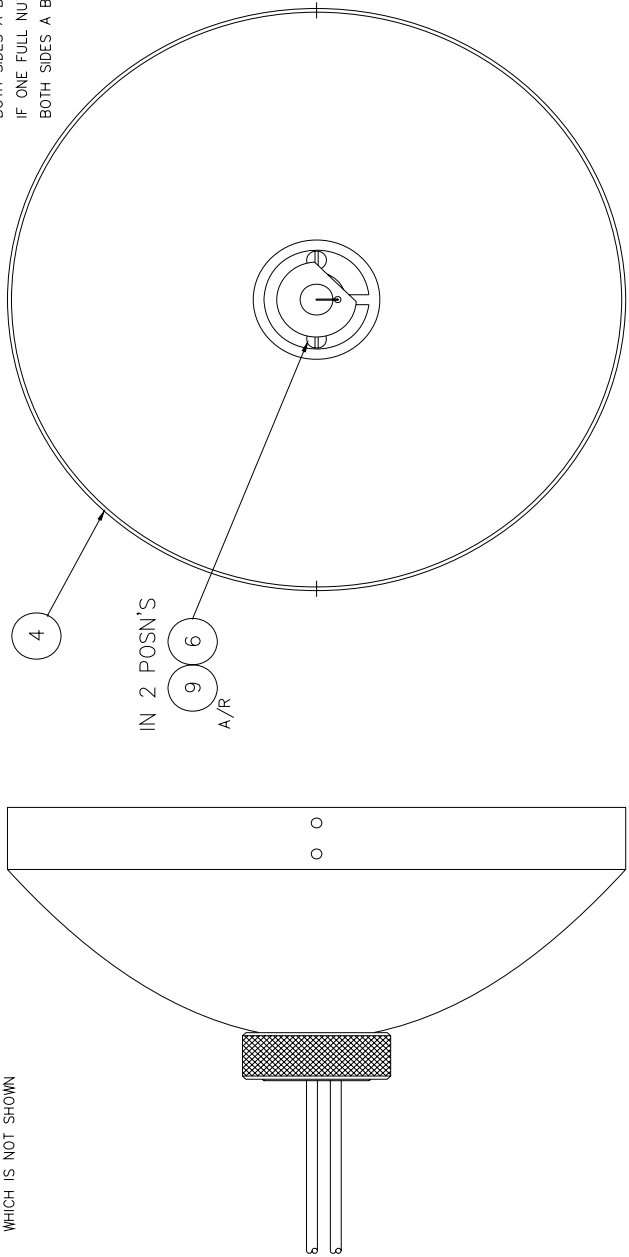
FIRST USED ON
C26105
100w
LX230RC

ITEM	PART No.	DRG No.	DESCRIPTION	QTY
1	C26091	C26091	LAMPHOLDER ATTACHMENT	1
2	C26092	C26092	LAMPHOLDER NUT	1
3	C26090	C26090	LAMPHOLDER	1
4	C25988	C25988	REFLECTOR	1
5	C25857	C25857	100w XENON UNIT	1
6	D25858	C25857	100w XENON LAMP	1
7	C14643		M3 x 16 CSK HD	2
8	C14437		M4 x 6 GRUBSCREW	1
9	C06266		M4 FULL NUT	4
10	C13853		LOCTITE (MEDIUM)	A/R



STANDARD IS TWO M4 FULL NUTS EACH SIDE
IF ONE FULL NUT IS REMOVED FROM BOTH SIDES A BETTER SPOT IS ACHIEVED
IF ONE FULL NUT IS ADDED TO BOTH SIDES A BETTER FLOOD IS ACHIEVED

ITEM 5 IS THE BALLAST & IGNITOR WHICH IS NOT SHOWN



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

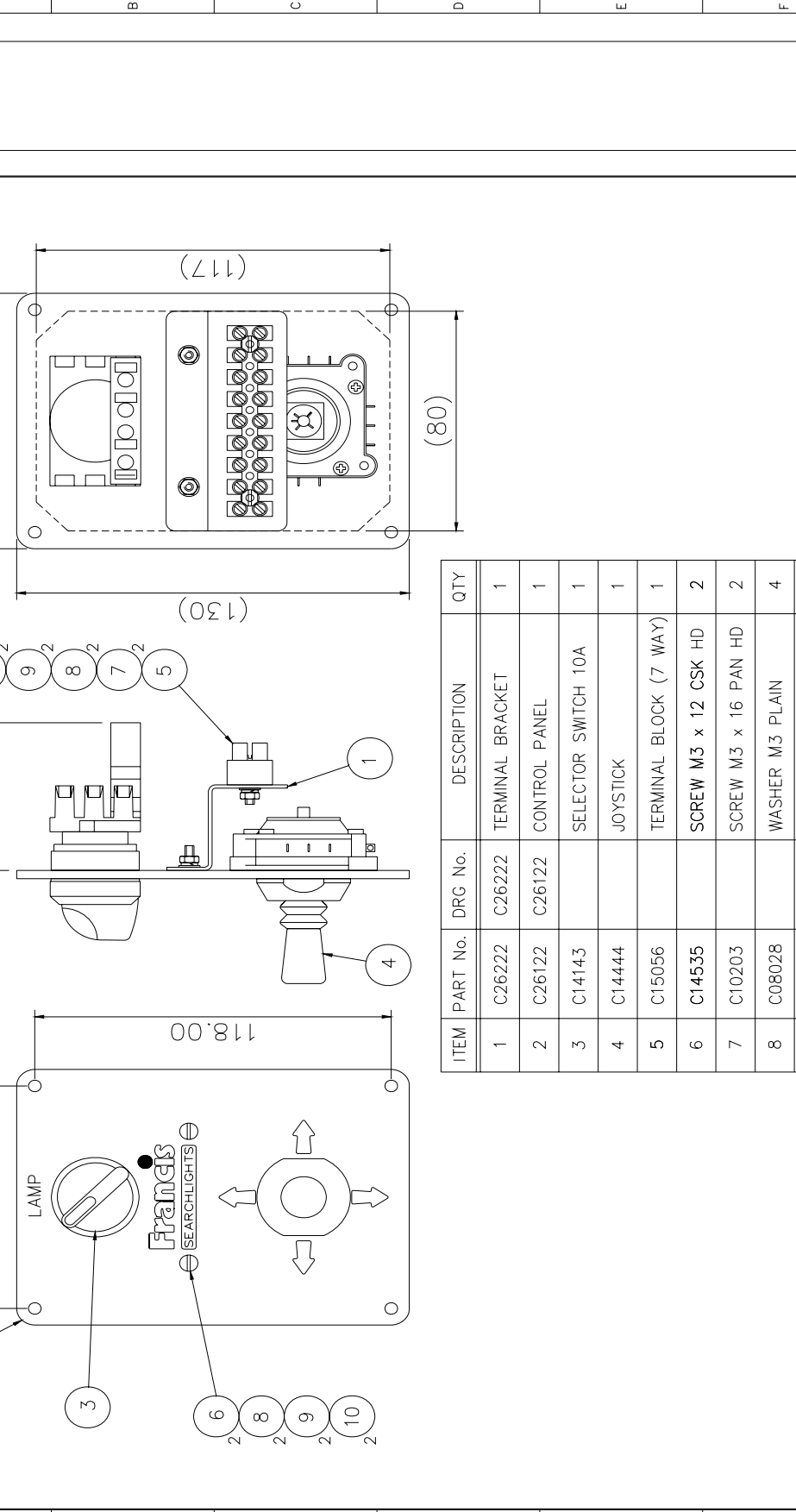


FRANCIS SEARCHLIGHTS LIMITED · UNION ROAD · BOLTON · BL2 2HJ	© 2012 A2 CONT ON SHEET																								
<table border="1"> <tr> <td>DRAWN</td> <td>LW</td> <td>DATE</td> <td>5/12</td> <td>TOLERANCES</td> <td>Sand Casting: To ISO 8062 CT10</td> </tr> <tr> <td>CHECKED</td> <td></td> <td>SCALE</td> <td>1:1</td> <td>General: ±</td> <td>Die Casting: To ISO 8062 C18</td> </tr> <tr> <td colspan="4">ALL DIMENSIONS IN MILLIMETRES</td> <td>Angular: ±</td> <td>Hole centres & posns: ±</td> </tr> </table>	DRAWN	LW	DATE	5/12	TOLERANCES	Sand Casting: To ISO 8062 CT10	CHECKED		SCALE	1:1	General: ±	Die Casting: To ISO 8062 C18	ALL DIMENSIONS IN MILLIMETRES				Angular: ±	Hole centres & posns: ±	<table border="1"> <tr> <td>PART No./DRG No.</td> <td>C26112</td> </tr> <tr> <td>DESCRIPTION</td> <td>REFLECTOR ASSEMBLY (LX230RC)</td> </tr> <tr> <td>SHT</td> <td>1</td> </tr> </table>	PART No./DRG No.	C26112	DESCRIPTION	REFLECTOR ASSEMBLY (LX230RC)	SHT	1
DRAWN	LW	DATE	5/12	TOLERANCES	Sand Casting: To ISO 8062 CT10																				
CHECKED		SCALE	1:1	General: ±	Die Casting: To ISO 8062 C18																				
ALL DIMENSIONS IN MILLIMETRES				Angular: ±	Hole centres & posns: ±																				
PART No./DRG No.	C26112																								
DESCRIPTION	REFLECTOR ASSEMBLY (LX230RC)																								
SHT	1																								

11
10
9
8
7
6
5
4
3
2
1

DATE & INTS
MODIFICATION DETAILS
ISS No
1
2
AS FIRST DRAWN
TERMINAL RAIL CHANGED (EC1524)

8.12 LW
11.13 LW
A



ITEM	PART No.	DRG No.	DESCRIPTION	QTY
1	C26222	C26222	TERMINAL BRACKET	1
2	C26122	C26122	CONTROL PANEL	1
3	C14143		SELECTOR SWITCH 10A	1
4	C14444		JOYSTICK	1
5	C15056		TERMINAL BLOCK (7 WAY)	1
6	C14535		SCREW M3 x 12 CSK HD	2
7	C10203		SCREW M3 x 16 PAN HD	2
8	C08028		WASHER M3 PLAIN	4
9	C10747		WASHER M3 SPRING	4
10	C05298		NUT M3 FULL	4

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

FRANCIS SEARCHLIGHTS LIMITED . UNION ROAD . BOLTON . BL2 2HU
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PART No./DRG No.
C26123
SHT
1
CONTROL PANEL ASSY (LX230RC)

11
10
9
8
7
6
5
4
3
2
1

DO NOT SCALE DRAWING
THIRD ANGLE PROJECTION
FIRST USED ON
LX230RC
A6091

ALL DIMENSIONS IN MILLIMETRES
TOLERANCES
General: ±
Angular: ±
Sand Casting: To ISO 8062 CT10
Die Casting: To ISO 8062 CT8
Hole centres & posns: ±

FIRST USED ON
A691

DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION

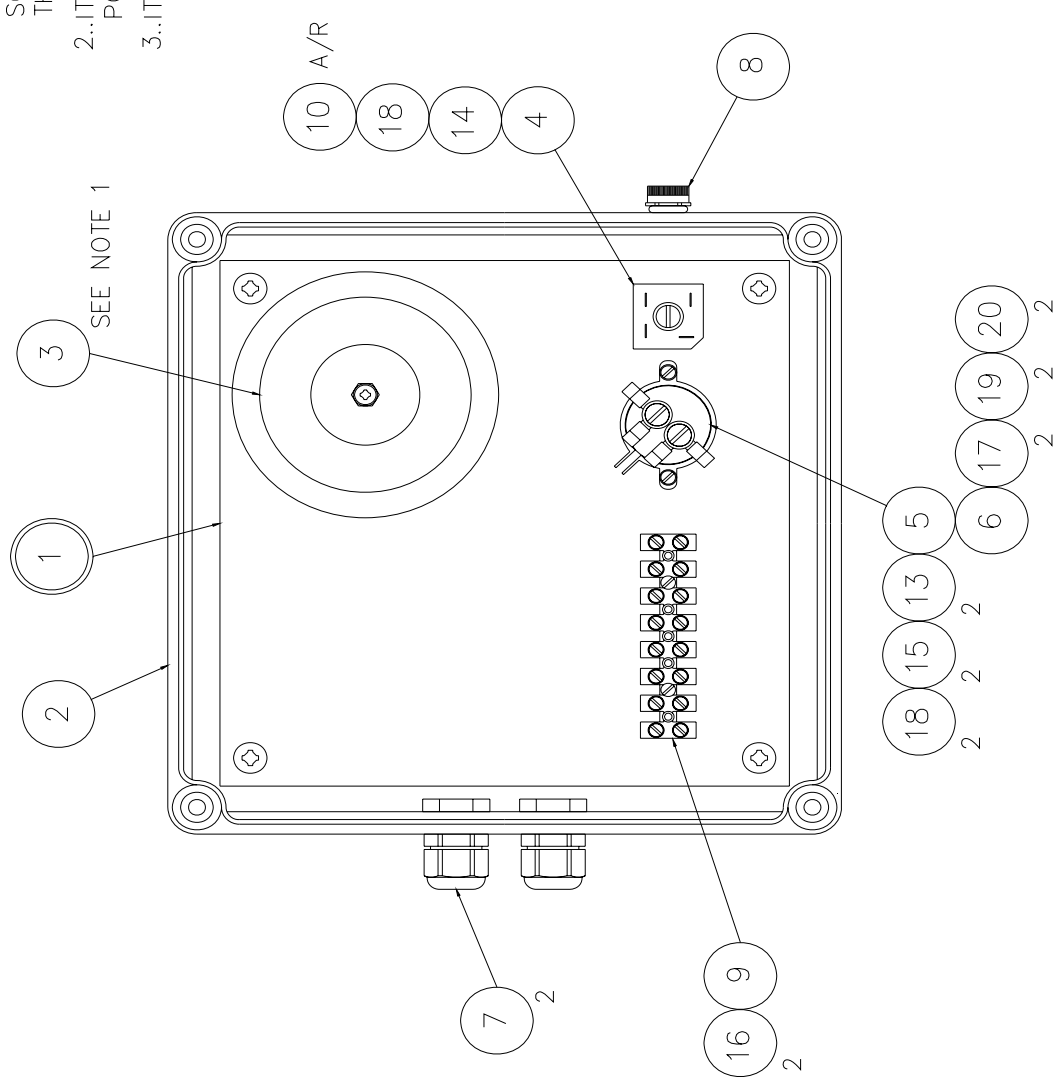
DATE & INTS
16
AS PER DRAWING

NOTE
1..USE SCREW & FIXINGS PROVIDED
SCREW NUT FULLY ONTO SCREW
SO SCREW DOES NOT PROTRUDE
THROUGH CHASSI PLATE

2..ITEMS 11 & 12 NOT SHOWN
POSITION CENTRAL ON LID

3..ITEMS 21, 22 & 23 NOT SHOWN

BOX DIM'N 180 x 180 x 130



ITEM	PART No.	DRG No.	DESCRIPTION	QTY
1	C26218		CHASSIS PLATE ASSY	1
2	C26217		ENCLOSURE	1
3	C24813		TRANSFORMER	1
4	C24072		RECTIFIER	1
5	C24823		CAPACITOR	1
6	C26946		CAPACITOR CLIP	1
7	C10158		GLAND	2
8	C22268		BREATHER ASSY	1
9	C15133		TERMINAL STRIP 32A	1 (6 WAY)
10	C14232		HEATSINK COMPOUND	A/R
11	C21464		LABEL DANGER 230V	1
12	C20336		LABEL ISOLATE SUPPLY	1
13	C14695		RING TAG	4
14	C10620		SCREW M5 x 16 PN HD	1
15	C10206		SCREW M5 x 12 PN HD	2
16	C10203		SCREW M3 x 16 PN HD	2
17	C10131		SCREW M3 x 10 PN HD	2
18	C08392		WASHER M5 PLAIN	3
19	C08028		WASHER M3 PLAIN	2
20	C10747		WASHER M3 S/C SPRING	2
21	C13872		CABLE 1.5mm RED	A/R
22	C13873		CABLE 1.5mm BLACK	A/R
23	C15112		CABLE 1.5mm G/Y	A/R

STANDARD PRACTICE
Debur all cut/machine edges
Break corners R0.25(0.010) U.S.



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PART No./REV No.
C26221

FRANCIS SEARCHLIGHTS LIMITED . UNION ROAD . BOLTON . BL2 2HU
HV JUNCTION BOX ASSEMBLY (LX230 HV)
DRAWN: LW DATE: 2/13 TOLERANCES: 1:1
CHECKED: LW DATE: 1/13
ALL DIMENSIONS IN MILLIMETRES
Screw Casting to BS 9000 CTD
Die Casting to ISO 9000 CTD
Risk centres & parts: 1
Approved: 1
Approved: 2

10 – Spare Parts List

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

Part Number	Description
D25858	100w Xenon Lamp
C25857-01	100w Ballast & Ignitor Unit
C08865-00	Front glass
C12888-00	Front Glass Infra Red (Optional)
C08835-00	Front glass gasket
C22268-01	Breather Assembly
C25988-00	Reflector
C23805-00	Relay 24v (Model A6091)
C26172-00	Relay 12v (Model A6098)
C26129-01	Junction Box Assembly
C26117-00	Control Board
C26171-01	Stepper Motor Assembly
C26170-00	Pan Motor
C21211-32	Pan Motor Gear
C10168-00	Base 'O' ring
C26103-00	Bearing Housing Gasket
C21567-00	Heater (Optional)
C26404-00	Resistor (Heater)
C24889-00	Thermal Switch
C24813-00	Transformer (Model A6103 HV Only)

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.