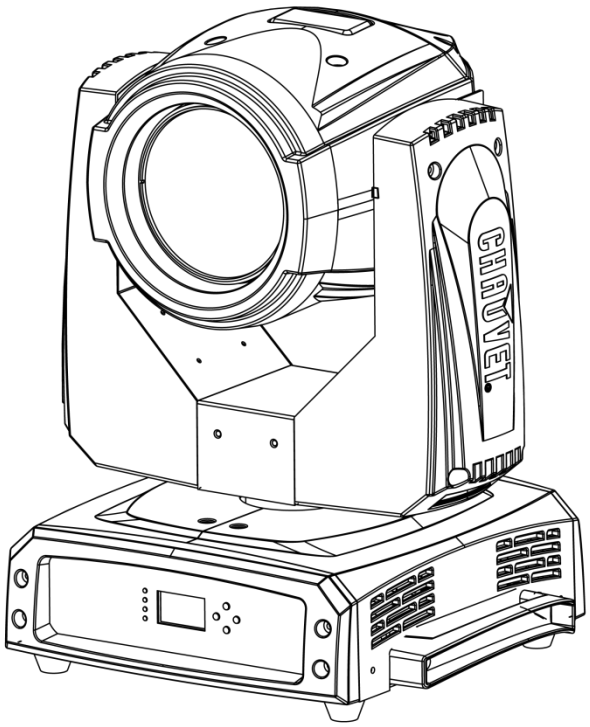
CHAUVET PROFESSIONAL

Legend™ 230SR BEAM

Service Manual



Edition Notes

The Legend™ 230SR Beam Service Manual Rev. 2 covers the procedures for Lamp, Power, Display, and Error Code troubleshooting for this product. Chauvet released this edition of the Legend™ 230SR Beam Service Manual in April 2015.

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Document Printing

For better results, print this document in color, on letter size paper (8.5 x 11 in), double-sided. If using A4 paper (210 x 297 mm), configure your printer to scale the content accordingly.

Intended Audience

Any people in charge of servicing this product should completely read this Service Manual and familiarize themselves with the procedures to be performed, before performing the procedures.

Opening the Legend™ 230SR Beam to perform any procedure within this Service Manual voids any warranties from Chauvet.

Disclaimer

Chauvet believes that the information contained in this Service Manual is accurate in all respects. However, Chauvet assumes no responsibility for any errors or omissions in this document. Chauvet reserves the right to revise and make changes to the content of this document without obligation that Chauvet notify any person or company of such revision or changes. This does not in any way constitute a commitment by Chauvet to make such changes. Chauvet may issue a revision of this Service Manual or a new edition to incorporate such changes.

Document Revision

The Legend™ 230SR Beam Service Manual Rev. 2 is the second edition of this manual. Go to www.chauvetprofessional.com for the latest version.

Author	Date	Editor	Date
R. Isenstadt	04/09/15	A. Leon	04/13/15

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SAFETY NOTES

Read all of the following Safety Notes before working with this product. These notes include important information about this product.

All electrical connections must be in accordance with local codes.

Prior to performing any of the procedures described in this Service Manual, make sure to disconnect the product from power.

- Read all instructions prior to beginning any procedure.
- Wear safety glasses or goggles to protect your eyes.
- Do not perform any procedure in or near a wet location.
- This product may be hot. Keep away from flammable materials.
- Wait until the product is at room temperature before handling.
- Do not touch the lamp with bare fingers.
- The light source may be hot. Make sure the lamp is cool before re-lamping the fixture.
- When discarding any parts or product, be sure to follow all applicable local laws or regulations.

Features

- Osram Sirius 230 W lamp
- Input voltage 100 to 240 VAC, 50/60 HZ (auto-ranging)
- Power and Current: 415 W, 3.43 A @ 120 V, 60 Hz
- Power and Current: 401 W, 2.02 A @ 208 V, 60 Hz
- Power and Current: 385 W, 1.75 A @ 230 V, 50 Hz
- IP20 rating, dry locations only

All Procedures

With all service procedures performed on the Legend™ 230SR Beam, be sure to do the following:

1. Unless otherwise instructed, turn the fixture off and disconnect it from power. Some service procedures may require that the product be powered on. Be sure to use caution when servicing a product that is connected to power.
2. Only remove the panels and screws necessary to perform the desired procedure.
3. Isolate the specific parts to be serviced or repaired. Some parts may require removal.
4. Adjust, repair or remove the components according to the procedure.
5. Reattach all panels and screws.
6. Test the product to make sure it operates properly.

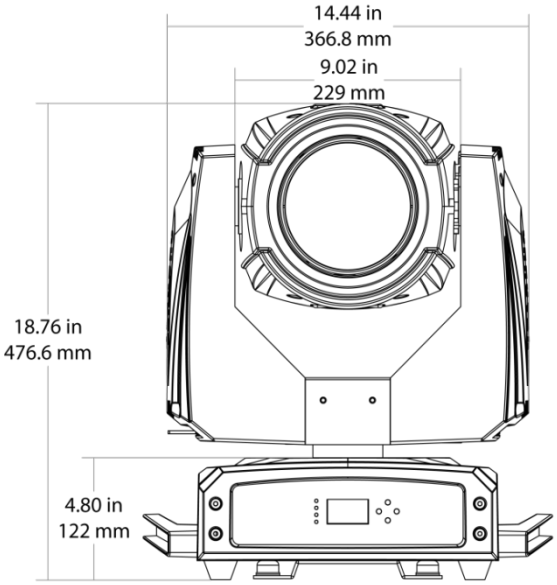
Suggested Tools and Accessories

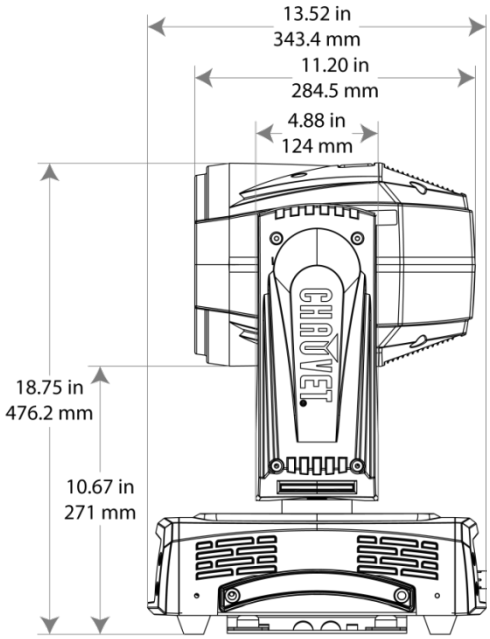
- Phillips-head screwdrivers
- Flat-head screwdrivers
- Allen, or hex, keys; assortment of 2 mm to 8 mm
- Pliers
- Multimeter
- Adjustable wrench
- Tweezers
- Drop magnet
- Gloves
- Safety glasses or goggles
- Flashlight or adjustable lamp
- Cutter
- Silver and black permanent markers

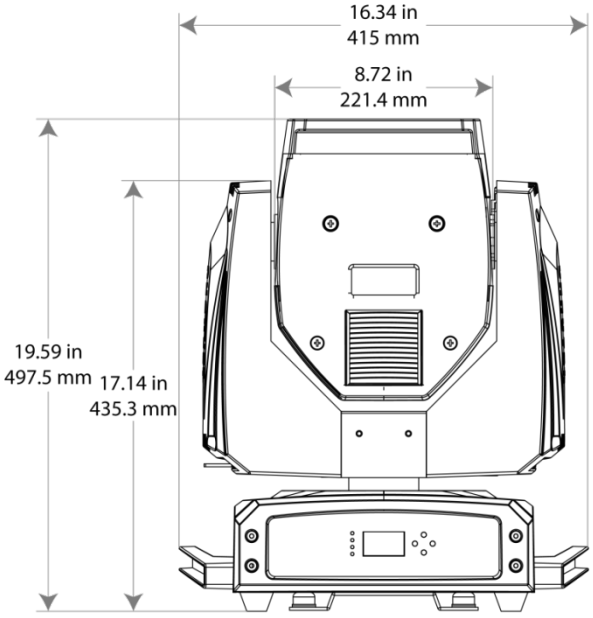
Be sure to follow all instructions and cautionary statements that may accompany any tools and accessories you obtain.

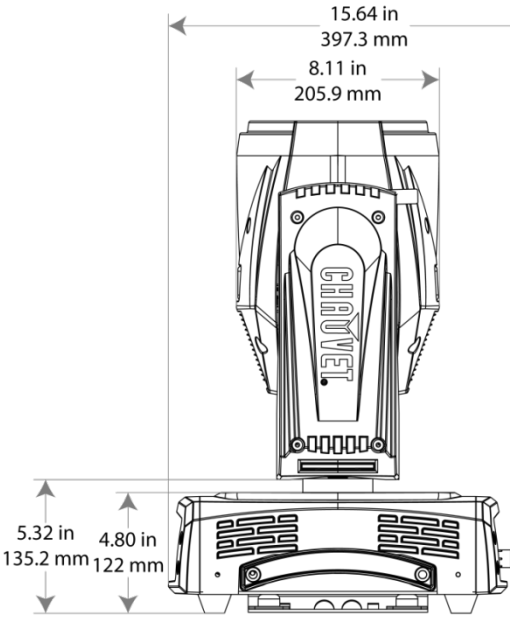
1. VIEWS

General Views



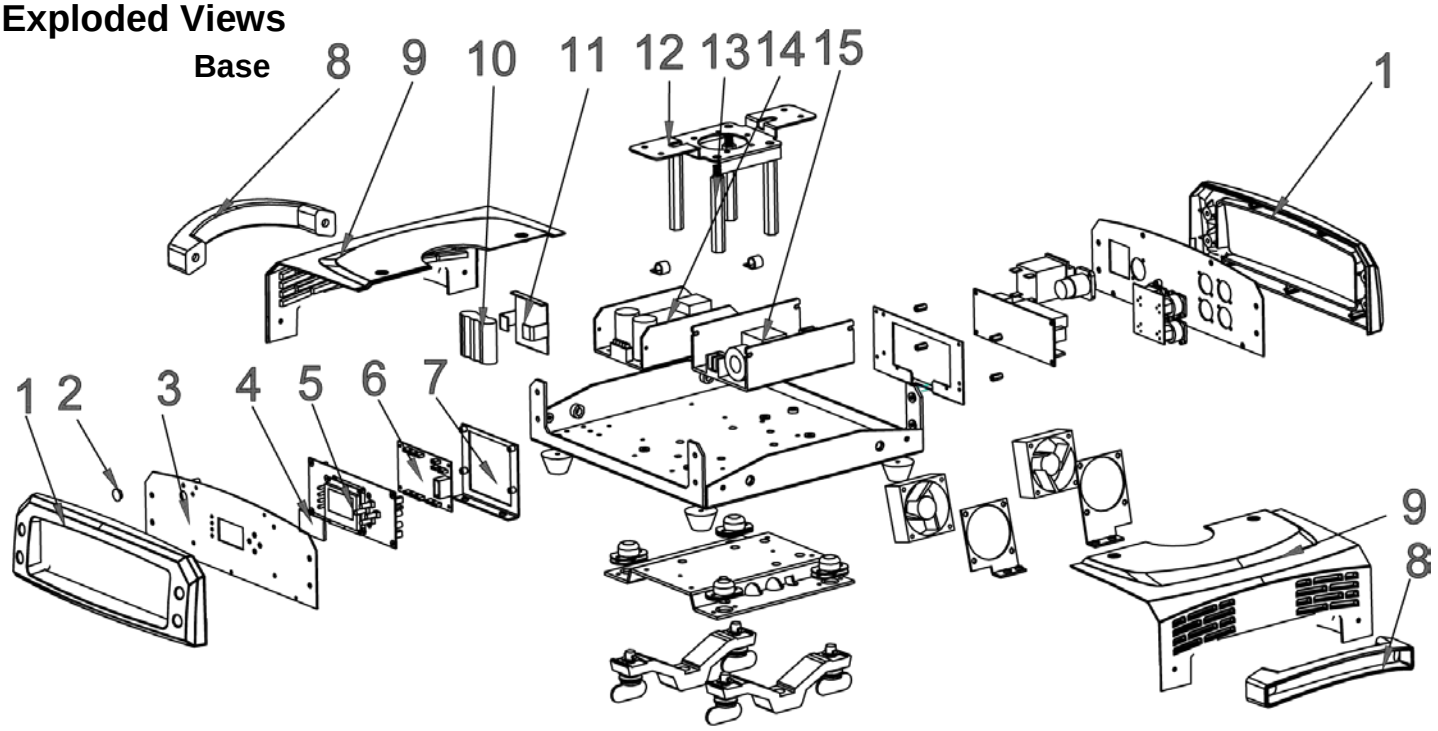






Exploded Views

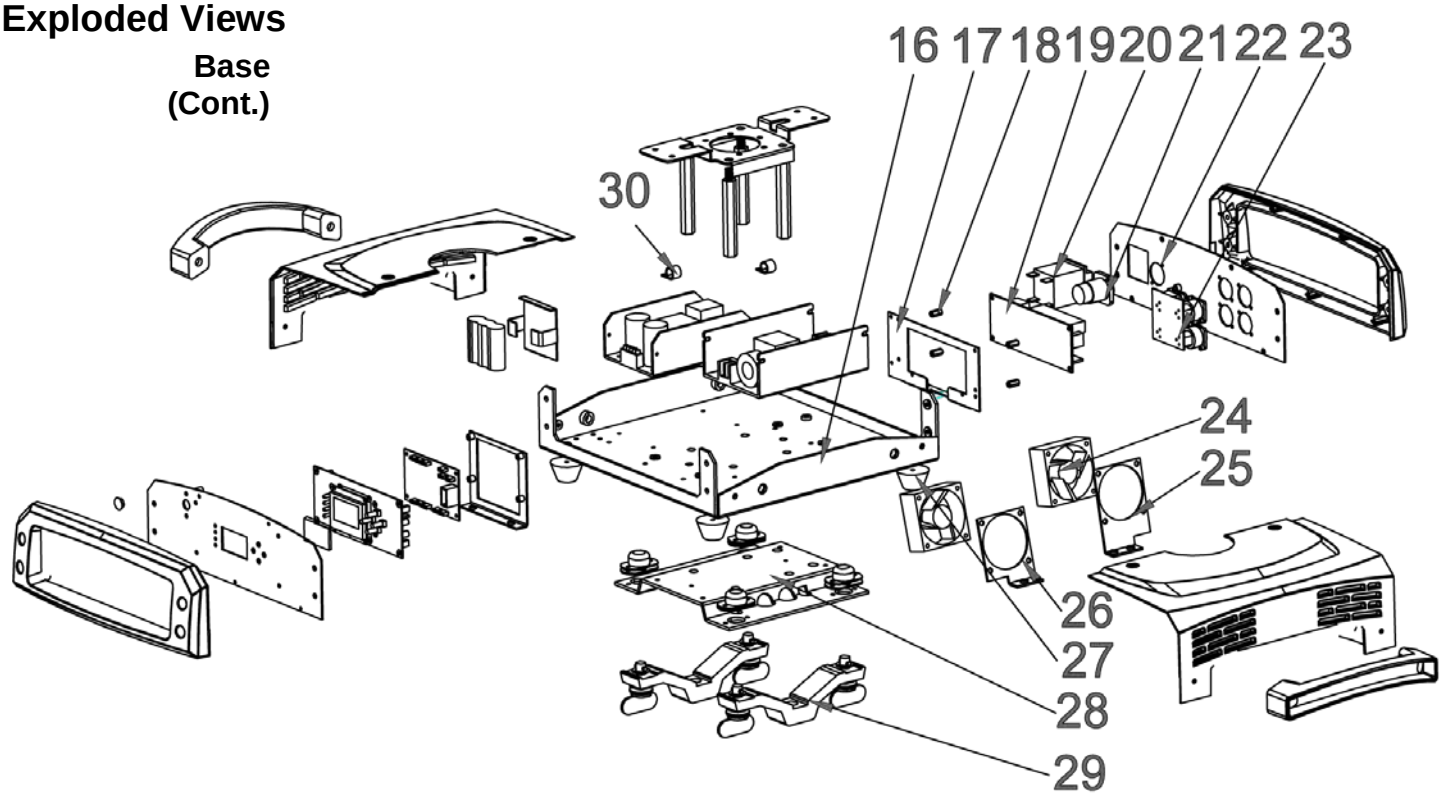
Base



Part	Description	Part No.
1	Bottom side box	PTC3005001412
2	Plastic plugs	PTC3005000165
3	Base front plate	PTC4041300470
4	Plexiglass	PTC3005000866
5	Display/Master PCB	PTC2010156100
6	XY axis driver (B driver)	PTC2010156200
7	XY axis driver plate fixed plate	PTC4041460010
8	Handle	PTC3005001409
9	Base cover	PTC3005001411A
10	NiMH battery pack	PTC3028000049
11	Battery mounting plate	Not Available
12	Base frame plate	PTC4041300450
13	Stand post	PTC3002001146
14	Boost power supply, output 390 VDC, 400 W	PTC3007013184
15	Switching power supply, output 28 VDC, 280 W	PTC3007013183

Exploded Views

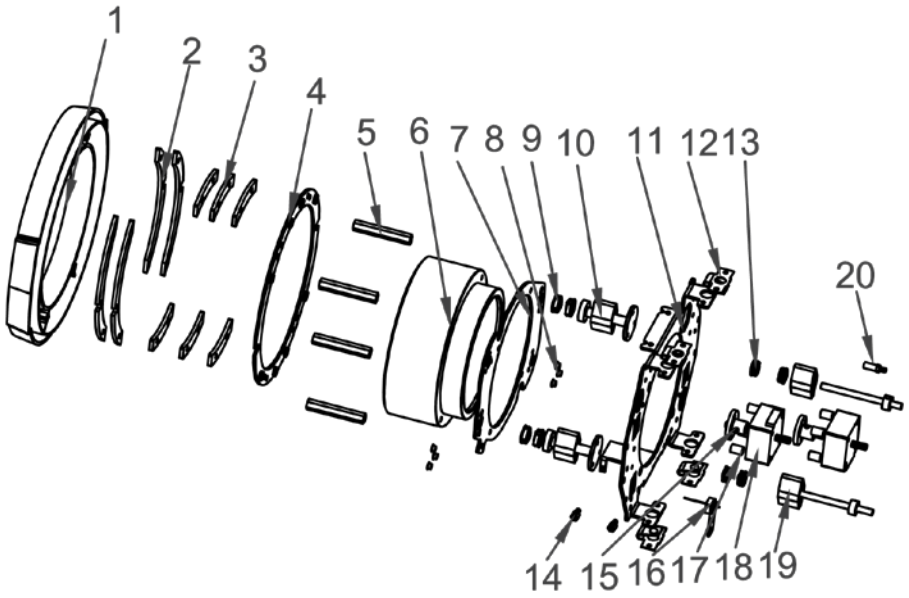
Base (Cont.)



Part	Description	Part No.
16	Base	PTC4041300400
17	Ballast fixed plate	PTC4041300480
18	Plastic studs	PTC3002000981
19	Electronic ballast	PTC3007015053
20	Protection switch	PTC3003000342
21	Neutrik® PowerCON® socket	PTF1001002302
22	Base after the board	PTC4041300440
23	DMX 3pin & 5pin PCB	PTC2010133300
24	Fan RDH6025B2, 24 VDC/0.14 A	PTC3014001136
25	Pedestal fan fixed board	PTC4041400160
26	Pedestal fan fixed board 1	PTC4041300430
27	Machine feet	PTC3005000287
28	Chassis	PTC4041300490
29	Quick lock Omega hanging bracket	PTJ5038280050
30	Wire holder (RoHS)	PTC3005000272

Exploded Views

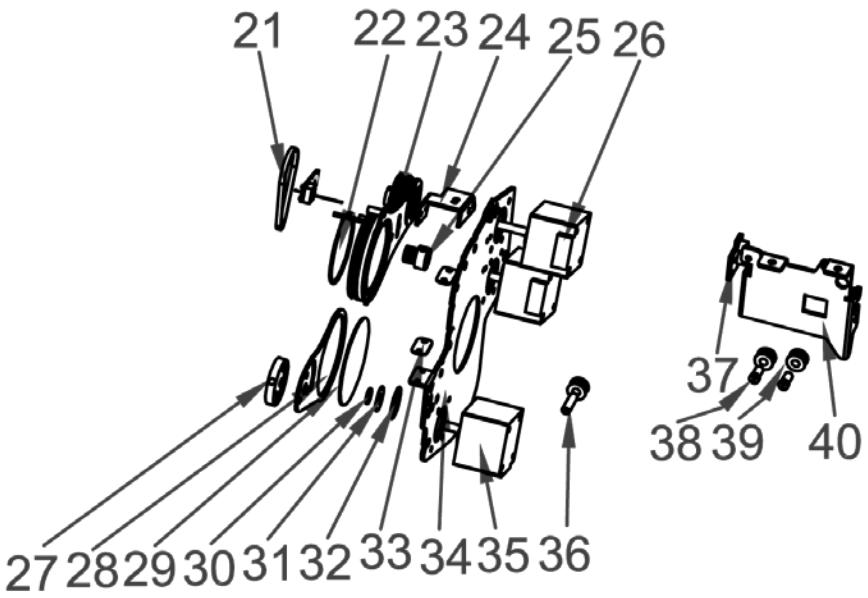
Head



Part	Description	Part No.
1	Lens plastic (RoHS)	PTC3005001410
2	Counterweight (RoHS)	Not Available
3	Counterweight1 (RoHS)	Not Available
4	Head fixed plastic plate1 (RoHS)	PTC50413005801100
5	Lens fixed column (RoHS)	PTC3002001153
6	Lens (RoHS)	PTC3015000425
7	Head lens adjustment board (RoHS)	PTC4041300020
8	Flange positioning column (RoHS)	PTC3002001203
9	Clamp-diagonal branch bearing (RoHS)	PTC3021000175
10	Slider component 2 (RoHS)	PTC3002001151
11	Head lens fixed board (RoHS)	PTC4041300030
12	Buckle 2 (RoHS)	PTC3026013028
13	Clamp-diagonal branch bearing (RoHS)	PTC3021000174
14	Stud (RoHS)	PTC3002000652
15	Head focusing flange (RoHS)	PTC3002001154
16	XP-700SZAhall element board B (RoHS)	PTC2010103900
17	Head motor mounting post (RoHS)	PTC3002001155
18	Focus motor (RoHS)	PTC3010002022
19	Slider component 1 (RoHS)	PTC3002001150
20	Plungers (RoHS)	PTC3002001202

Exploded Views

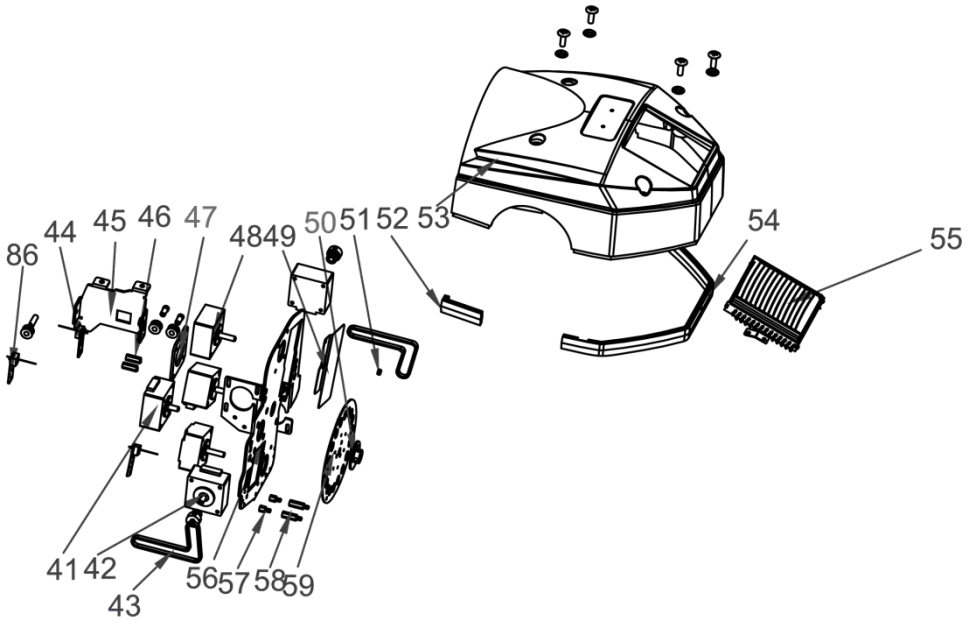
Head (Cont.)



Part	Description	Part No.
21	Timing belt (RoHS)	PTC3022000140
22	8-Facet prism (RoHS)	PTC3015000426
23	Prism block (RoHS)	PTC3002001164
24	Prism hall element fixed plate (RoHS)	PTC4041300090
25	Color film capstan (RoHS)	PTC3002000850
26	Prism motor (RoHS)	PTC3010002017
27	Soften flange (RoHS)	PTC3002001205
28	Soften the fixed plate glass (RoHS)	PTC4041300110
29	Soften striped glass (RoHS)	PTC3015000398
30	Nylon washer (RoHS)	PTC3005000289
31	Shock pads (RoHS)	PTC4041300530
32	Shock washer (RoHS)	PTC3021000066
33	Belt platen (RoHS)	PTC4041300080
34	Fixed plate of the head assembly (RoHS)	PTC4041300060
35	Frost Motor (RoHS)	PTC3010002016
36	Prism round pillar (RoHS)	PTC3002000874
37	Gobo hall element fixed plate (RoHS)	PTC4041300100
38	Focus with pillars (RoHS)	PTC3002000871
39	Belt pulley (RoHS)	PTC3002000855
40	Head right fixing plate (RoHS)	PTC4041300050

Exploded Views

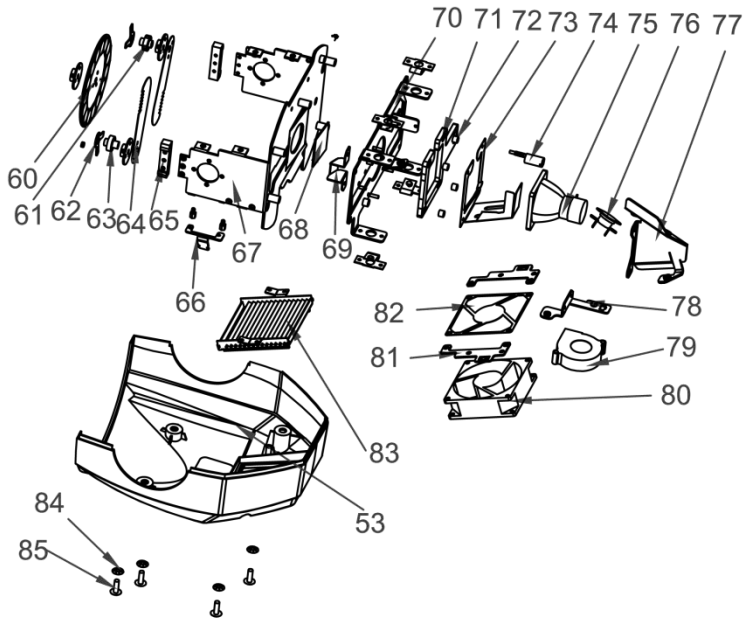
Head (Cont.)



Part	Description	Part No.
41	Gobo wheel motor (RoHS)	PTC3010002020
42	Zoom motor (RoHS)	PTC3010002018
43	Rubber belt (RoHS)	PTC3022000139
44	XP-700SZA hall element board G (RoHS)	PTC2010104400
45	Head left fixing plate (RoHS)	PTC4041300050
46	Hexagonal stud (RoHS)	PTC3002001201
47	Motor pad (RoHS)	Not Available
48	Color wheel motor (RoHS)	PTC3010002019
49	Motor shading plate (RoHS)	Not Available
50	Color wheel flange (RoHS)	PTC3002000274
51	Strobe positioning studs (RoHS)	PTC3002001149
52	Seal/Gasket (RoHS)	PTC3005001415
53	Upper and lower covers (RoHS)	PTC3005001413
54	Seal/Gasket (RoHS)	PTC3005001416
55	Heat sink/Cooling vent	PTC4041300540
56	Gobo fixed plate (RoHS)	PTC4041300070
57	DB44 plungers (RoHS)	PTC3002001204
58	Iron column (RoHS)	PTC3002001019
59	Gobo wheel (RoHS)	PTC3011000380
86	XP-700SZAhall element board C (RoHS)	PTC2010104001

Exploded Views

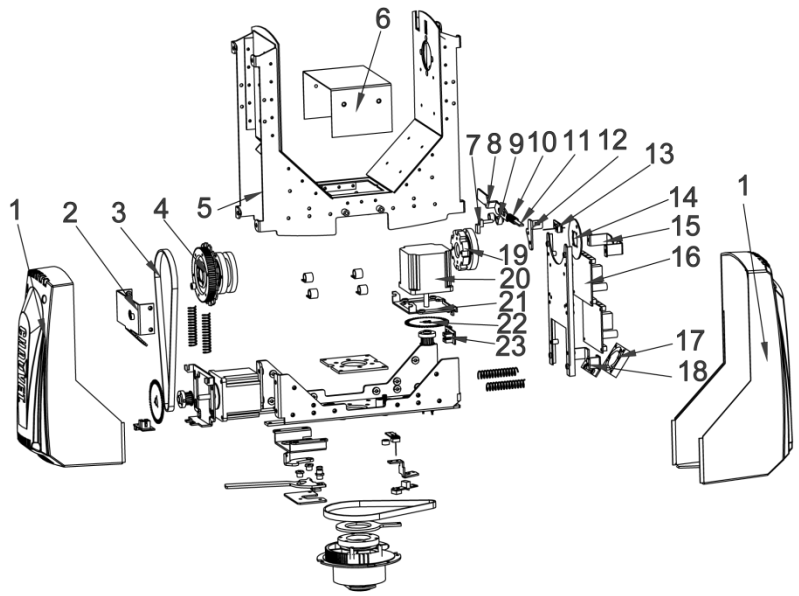
Head (Cont.)



Part	Description	Part No.
60	Color wheel (RoHS)	PTC4041300150
61	Stroboscopic piece positioning flange2 (RoHS)	PTC3002001163
62	Strobe sheet positioning plate (RoHS)	PTC4041300130
63	Stroboscopic piece positioning flange1 (RoHS)	PTC3002001162
64	Shutter assembly (RoHS)	PTC3002001207B
65	Lens assembly of the head fixed block (RoHS)	PTC3002001152
66	Assorted cable head board (RoHS)	Not Available
67	Head frame plate (RoHS)	PTC4041300160
68	High color temperature insulation glass (RoHS)	PTC3027001469
69	Turbo fan wind guide plate (RoHS)	Not Available
70	Reflector fixed board (RoHS)	Not Available
71	Dimmer board (RoHS)	PTC4041300230
72	Lamp adjustment fixed column (RoHS)	PTC3002001148
73	Guard light board (RoHS)	PTC4041300210
74	Centrifugal screw (RoHS)	PTC3002001147
75	Osram Sirius 230 W LAMP	PTC3018007004
76	Temperature switch (RoHS)	PTC3003000343
77	Insulation panels (RoHS)	PTC4041300200
78	Turbo fan fixed plate (RoHS)	PTC50413006501100
79	Turbo fan (RoHS)	PTC3014001158
80	Fan 24 VDC 8025, 0.15 A (RoHS)	PTC3014001083
81	Fan fixed-plate (RoHS)	Not Available
82	Fan shading plate (RoHS)	Not Available
83	Heat sink/Cooling vent	PTC4041300540
84	Retaining ring (RoHS)	PTC3026011016
85	Bolt 1 (RoHS)	PTC3026013025

Exploded Views

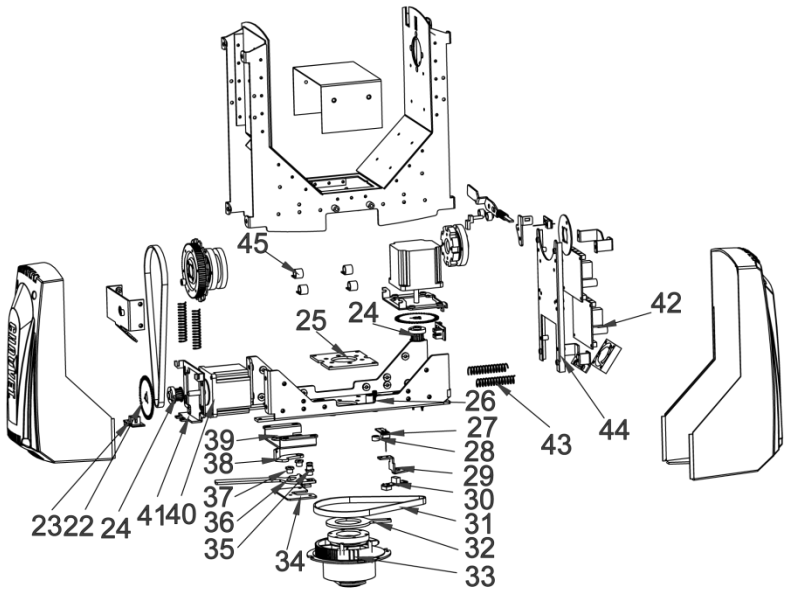
Arm



Part	Description	Part No.
1	Arm cover	PTC3005001541
2	Mechanical arm positioning plate	PTC4041300300
3	Tilt belt 486-3M	PTC3022000142
4	Y-axis seat assembly	PTC3002001161
5	Arm hardware components	PTC4041300250
6	Arm shelf board	PTC4041300310
7	Y-axis positioning block	PTC3002001156
8	Y-axis arm self-locking handle	PTC4041300370
9	Y-axis self-locking studs	PTC3002001157
10	Y-axis self-locking spring	PTC3021000172
11	Y-axis self-locking arm support plate	PTC4041300380
12	Y-axis self-locking arm fixing plate	PTC4041300360
13	XP-700SZA hall element plate B	PTC2010103900
14	Hall element y-axis arm positioning plate	PTC4041300290
15	Arm norse board	PTC4041300350
16	D driver (RoHS)	PTC2010156301
17	Fan 40x40x10 24V, 0.09A	PTC3014001137
18	Arm fan mounting plate	PTC4041300390
19	Y-axis self-locking assembly	PTC3002001160
20	Pan motor 24HC2011-01	PTC3010002021
21	Pan motor fixing plate	PTC4041300270
22	Optical positioning plate	PTC4040950060
23	Optical sensor	PTC2010014100

Exploded Views

Arm (Cont.)



Part	Description	Part No.
24	Driving wheel	PTC3002000880
25	Arm stiffener	PTC4041300320
26	Arm shelf board	PTC4041300310
27	Hall element plate F	PTC2010085600
28	Plungers	PTC3002000579
29	Arm x-axis Hall element fixing plate	PTC4041300280
30	XP-5R hall element plate finished board	PTC2010156400
31	Pan belt	PTC3022000137
32	Blanks	PTC4040160760
33	Spindle core assembly	PTC3002000845
34	Self-locking plate	PTC4040620130
35	Self-locking spring post	PTC3002000853
36	Self-locking handle	PTC4041300610
37	Self-locking pillar	PTC3002000854
38	Self-locking spring plate	PTC4040620150
39	Self-locking motherboard	PTC4040620140
40	Tilt motor	PTC3010002007
41	Tilt motor fixing plate	PTC4041300260
42	C driver	PTC2010156300
43	X-axis shock spring	PTC3021000106
44	Arm drive plate fixed plate	PTC4041300340
45	Wire holder	PTC3005000272

2. TROUBLESHOOTING

General Troubleshooting

Some of the issues that the Legend™ 230SR Beam may exhibit are included in the table below, along with the corrective actions to take.

Symptom	Possible Cause	Corrective Action
Product does not respond	No power to the product	Check power connection and power main
Product does not respond to DMX controller	DMX not connected properly	· Check DMX cables and connections · Check address setting and DMX polarity · Check pins on DMX cables · Try another DMX controller · Check for interference from nearby high-voltage cables
	Display not functioning	Replace display PCB
Fuse keeps blowing	Electrical load placed on the product may be too high	Check total load on the product
One of the channels is not working	Stepper motor might be damaged	Replace stepper motor
	Cable connected to PCB may be broken	Check connection or replace cable to PCB
Lamp working intermittently	Voltage too high or too low	Connect product to suitable voltage for this product
Loss of DMX Signal	Incorrect wires used	Use only DMX cables

Lamp Malfunction

If the Legend™ 230SR Beam's Osram Sirius 230 W lamp is not igniting or not functioning properly, despite every other part of the product functioning, the malfunction can be caused by:

- A faulty lamp*
- A faulty temperature sensor
- A faulty boost power supply
- A faulty electronic ballast
- Disconnected or faulty wires/cables

*For instructions on replacing the lamp, see the product's User Manual.

No Power

If the Legend™ 230SR Beam is not powering up, the malfunction could be caused by:

- A faulty power socket
- A faulty fuse*
- A faulty fuse holder
- A faulty power switch
- A faulty switching power supply
- Disconnected or faulty wires/cables

*For instructions on changing the fuse, see the product's User Manual.

Display Malfunction

Replace the LCD display if:

- All cables/wires are plugged in correctly, fans are running, but the display is not turning on
- The display is displaying abnormally, distortedly, or incompletely
- The error code **Memory Initial Fail** appears

Error Codes

In many cases when a part or function fails, the Legend™ 230SR Beam will show one or more specific error codes on the display. The error codes are as follows:

Pan Encode Error

This error code appears when the CPU does not detect movement of the pan assembly. When it appears, it can mean:

- The moving head is obstructed (e.g., the pan lock is on)
- The pan belt is broken*
- The pan motor is faulty
- The pan optical sensor is faulty
- The XY axis driver is faulty
- There is a disconnected or faulty cable

*See Replacing the Pan Belt.

Pan Reset Error

This error code appears when the CPU does not detect the pan assembly has finished resetting. When it appears, it can mean:

- The pan sensor is faulty
- The moving head is obstructed (e.g., the pan lock is on)
- The pan belt is broken*
- The pan motor is faulty
- The pan optical sensor is faulty
- The XY axis driver is faulty
- There is a disconnected or faulty cable

*See Replacing the Pan Belt.

Tilt Encode Error

This error code appears when the CPU does not detect the tilt assembly is moving. When it appears, it can mean:

- The moving head is obstructed (e.g. the tilt lock is on)
- The tilt belt is broken*
- The tilt motor is faulty
- The tilt optical sensor is faulty
- The XY axis driver is faulty
- There is a disconnected or faulty cable

*See Replacing the Tilt Belt.

Tilt Reset Error

This error code appears when the CPU does no detect the tilt assembly has finished resetting. When it appears, it can mean:

- The tilt sensor is faulty
- The moving head is obstructed (e.g. the tilt lock is on)
- The tilt belt is broken*
- The tilt motor is faulty
- The tilt optical sensor is faulty
- The XY axis driver is faulty
- There is a disconnected or faulty cable

*See Replacing the Tilt Belt.

Zoom Reset Fail This error code appears when either the zoom assembly fails to reset or the CPU does not detect when the zoom assembly has finished resetting. It can mean:

- Something mechanical has failed (e.g., broken belt, broken shaft, slider seized, etc.)
- Either of the zoom motors are faulty
- The zoom sensor is faulty
- The zoom magnet is weakened or missing
- The D driver is faulty
- A cable is disconnected or faulty

See Removing the Modules.

Focus Reset Fail This error code appears when either the focus assembly fails to reset or the CPU does not detect when the focus assembly has finished resetting. It can mean:

- Something mechanical has failed (e.g., broken belt, broken shaft, seized slider, etc.)
- Either of the focus motors are faulty
- The focus sensor is faulty
- The focus magnet is weakened or missing
- The D driver is faulty
- A cable is disconnected or faulty

See Removing the Modules.

Gobo Reset Fail This error code appears when the Gobo wheel fails to reset. It can mean:

- The Gobo wheel is obstructed or damaged
- The Gobo motor is faulty
- The Gobo sensor is faulty
- The C driver is faulty
- A cable is disconnected or faulty

Color Reset Fail This error code appears when the color wheel fails to reset. It can mean:

- The color wheel is obstructed damaged
- The color motor is faulty
- The color sensor is faulty
- The C driver is faulty
- A cable is disconnected or faulty

Prism Reset Fail This error code appears when the prism fails to reset. It can mean:

- The prism mechanism is obstructed or damaged
- The prism motor is faulty
- The prism sensor is faulty
- The C driver is faulty
- A cable is disconnected or faulty

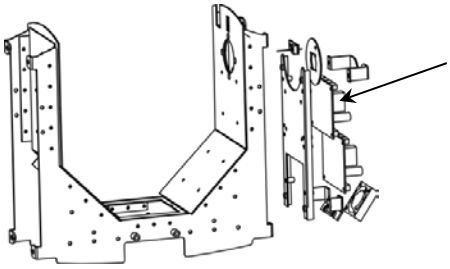
See Removing the Modules.

R-Prism Reset Fail This error code appears both when the Prism Rotation fails to reset and when the Prism fails to reset. It can mean:

- The prism has failed to reset (See Prism Reset Fail.)
- The prism rotation mechanism is obstructed or damaged
- The prism rotation motor is faulty
- The C driver is faulty
- A cable is disconnected or faulty

See Removing the Modules.

CPU-D Error This error code appears when the display does not receive the correct signal from the D driver. The D driver is the highest PCB on the yoke of the product. It controls the frost, zoom, and focus mechanisms, as well as the yoke fan. This error code can mean:

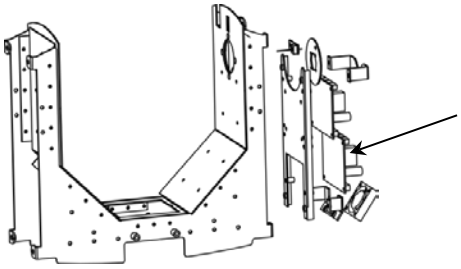


- The D driver is faulty
- The D driver is not getting power
- A signal cable is disconnected or faulty

If **CPU-C Error** also appears, see CPU-C Error. The problem may be in the C driver.

If **CPU-B Error** also appears, see CPU-B Error. The problem may be in the XY axis driver

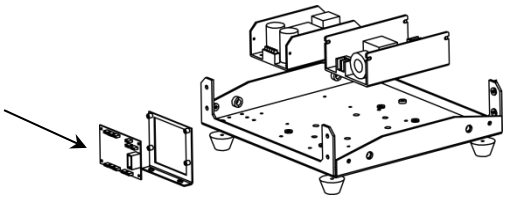
CPU-C Error This error code appears when the display does not receive the correct signal from the C driver. The C driver is the lowest PCB on the yoke of the product. It controls the color wheel, Gobo wheel, prism, and shutter mechanisms, as well as several fans. This error code can mean:



- The C driver is faulty
- The C driver is not getting power
- A signal cable is disconnected or faulty

If **CPU-B Error** also appears, see CPU-B Error. The problem may be in the XY axis driver.

CPU-B Error This error code appears when the display does not receive the correct signal from the XY axis driver. The XY axis driver is the PCB in the base of the product that is directly connected to the display and the switching power supply. It controls the pan and tilt mechanisms, and sets the time for the electronic ballast to ignite the lamp. This error code can mean:



- The XY axis driver is faulty
- The XY axis driver is not getting power
- A signal cable is disconnected or faulty

Lamp Too Hot Low Power This error code appears when the ambient temperature is above 104 °F (40 °C) and Low Power mode has been activated.

Lamp Too Hot Power Off This error code appears when the ambient temperature is above 110 °F (43.3 °C) and the lamp has shut off for safety.

Both of these error codes can mean:

- The product is being operated in an extreme temperature environment
- A fan in the moving head is faulty
- The temperature sensor is faulty
- The C driver is faulty
- The XY axis driver is faulty
- A cable is disconnected or faulty

Lamp Startup Fail See Lamp Malfunction.

Maintenance Fixture This means the Fixture Maintenance timer has expired. This is to remind the user to perform necessary cleaning and maintenance on the product, such as dust removal, lens cleaning, checking for loose or frayed wires, etc. Reset the timer after performing the maintenance.

Memory Initial Fail This means the display PCB must be replaced.

3. REPLACING PARTS

Replacing the Pan Belt

The Legend™ 230SR Beam's pan belt may become frayed over time and possibly eventually break. The procedure for replacing the pan belt is as follows:

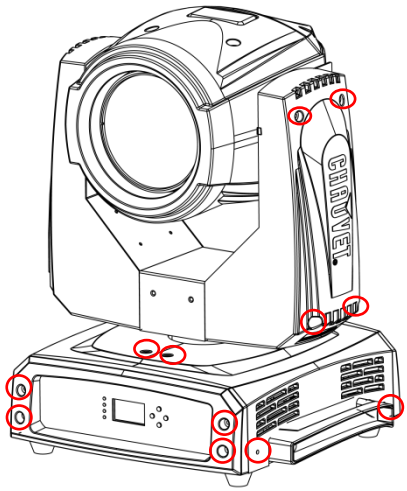
Disconnect the product from AC power before opening.

Step 1:

Turn the product off and disconnect from power.

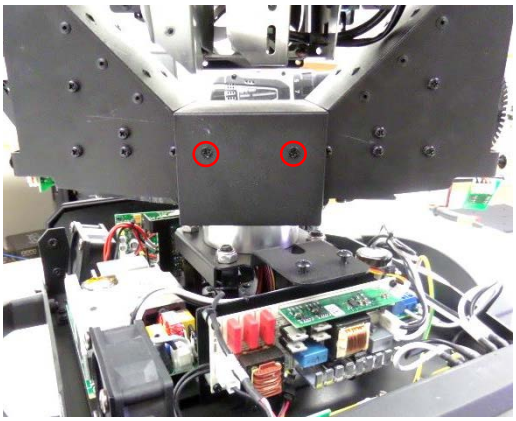
Step 2:

a. Remove the arm cover to expose the pan assembly by removing 4 Phillips-head screws.
b. Remove both base covers by removing 8 Phillips-head screws.
c. If necessary, detach the front and back base plates from the base by removing 8 Phillips-head screws.



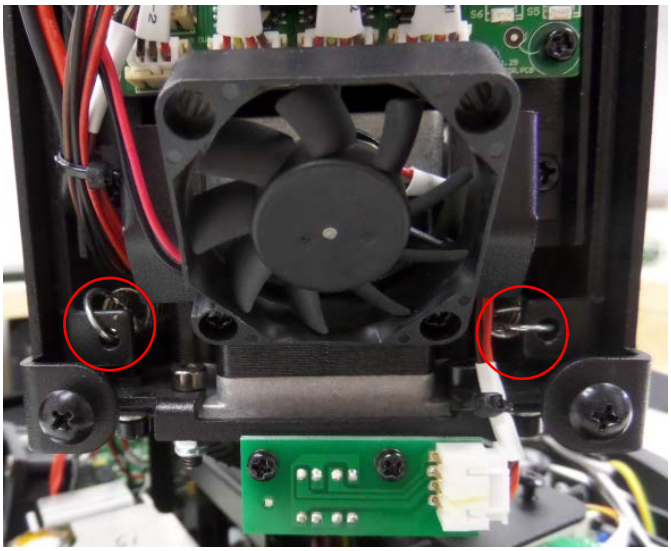
Step 3:

Remove the arm shelf board by removing 4 Phillips-head screws.



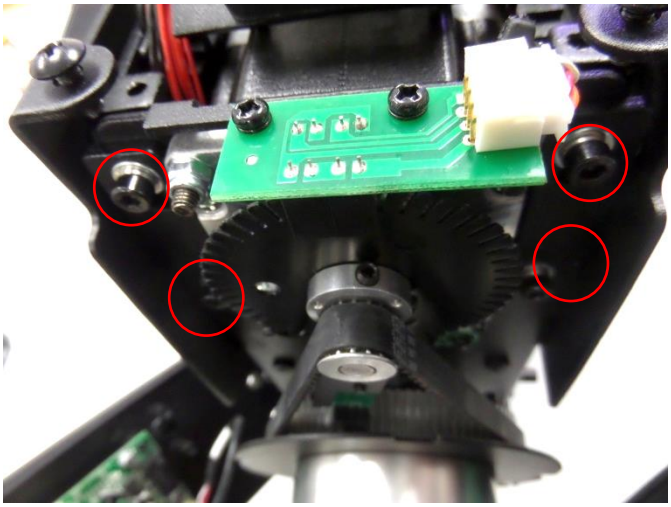
Step 4:

CAREFULLY lift the tension springs off of their loops.



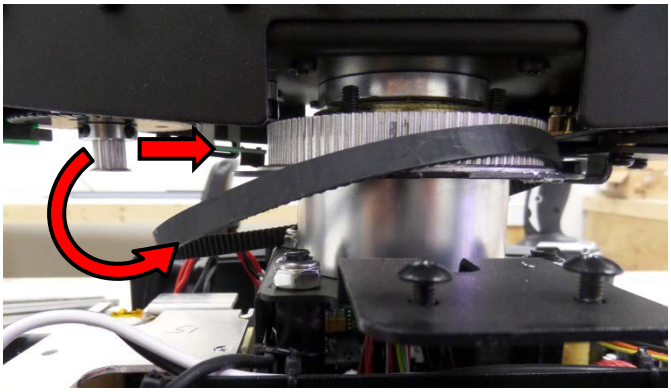
Step 5:

Free the pan motor fixing plate by loosening 4 hexagonal screws.



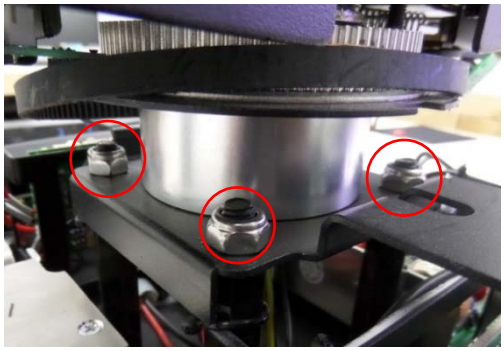
Step 6:

Push the pan motor fixing plate in as far as it can go and slip the old pan belt off of the driving wheel.



Step 7:

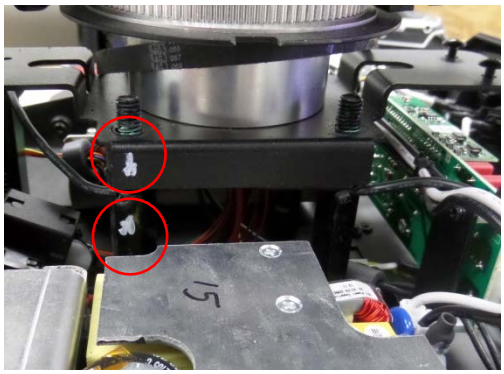
Remove the 4 nuts that secure the moving head to the base.



Step 8:

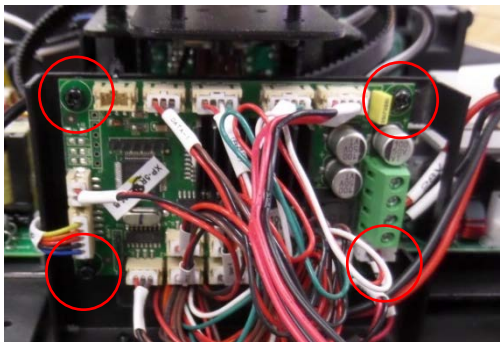
Mark one of the corners of the base frame plate with the corresponding post as shown before continuing.

This provides a guide for putting the product back together. Skipping this step can lead to pan reset errors.



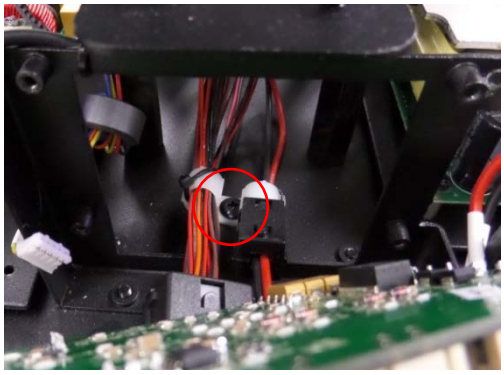
Step 9:

Detach the XY axis driver by removing 4 Phillips-head screws.



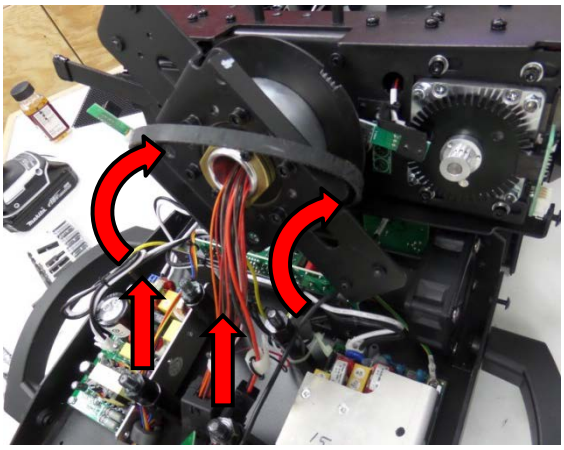
Step 10:

Detach the battery cables by removing 1 Phillips-head screw.



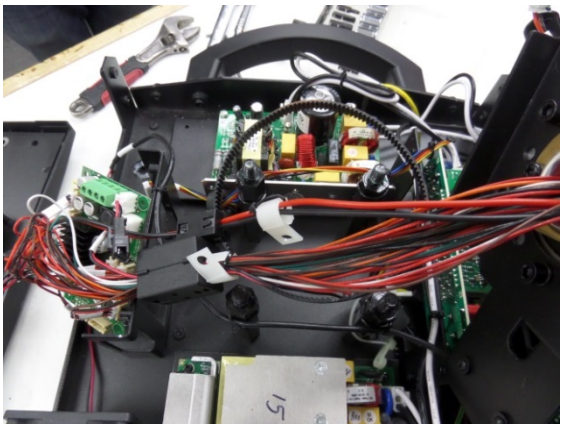
Step 11:

CAREFULLY lift the moving head from the posts and lay it on its side. The old pan belt can now be slipped around the base frame plate.



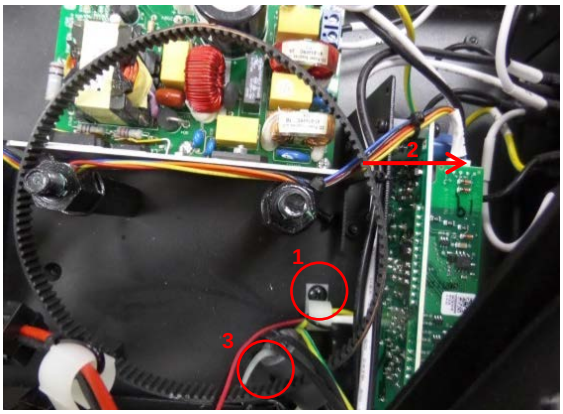
Step 12:

Unplug the display completely and remove the power cables from the switching power supply and XY axis driver. Then, pull the XY axis driver and all attached cables through the old pan belt.



Step 13:

Free the ground cables that pass through the pan belt by removing one Phillips-head screw each (total of 2, but second one not pictured), and cut one zip tie (3).



Step 14:

Unplug any other cables (e.g., the lamp cable from the electronic ballast) that may still pass through the pan belt, and remove the belt completely.

Step 15:

Reverse the steps to put the new pan belt on. Be sure to align the base frame plate with the markings that were made in Step 8.

Replacing the Tilt Belt

The Legend™ 230SR Beam's tilt belt may become frayed over time and possibly eventually break. The procedure for replacing the tilt belt is as follows:

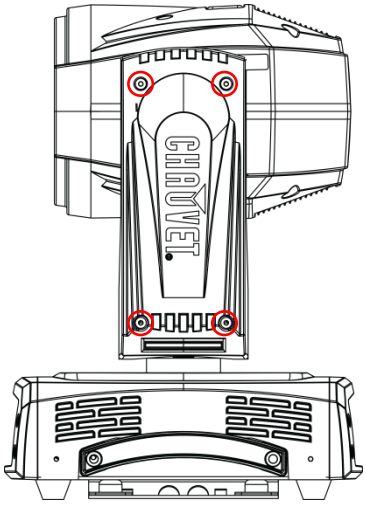
Disconnect the product from AC power before opening.

Step 1:

Turn the product off and disconnect from power.

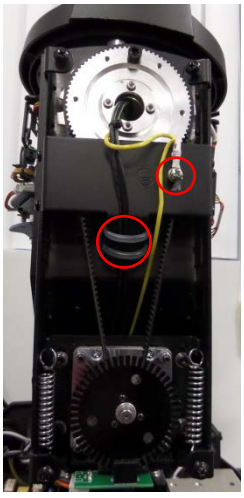
Step 2:

Remove the arm cover to expose the tilt assembly by removing 4 Phillips-head screws.



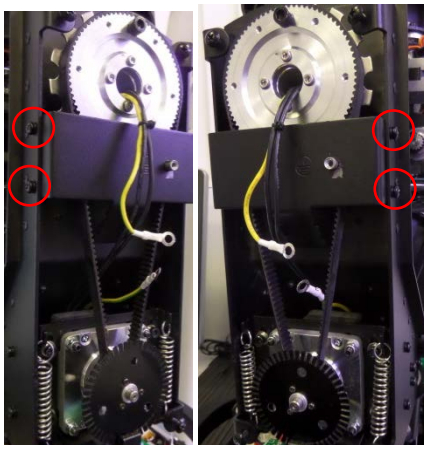
Step 3:

a. Detach the yellow and green ground cables by removing 1 Phillips-head screw.
b. Carefully cut the zip-ties securing 2 wires to the mechanical arm positioning plate. Do NOT cut the plastic tubes, they will be needed to re-secure the wires.



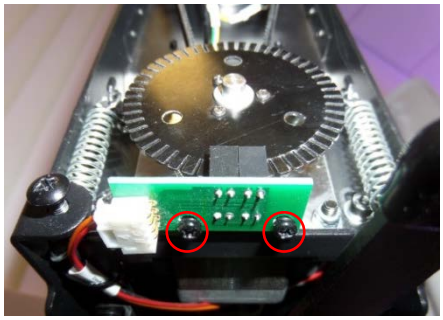
Step 4:

Detach the mechanical arm positioning plate by removing 4 Phillips-head screws, and pull it out from behind the wires.



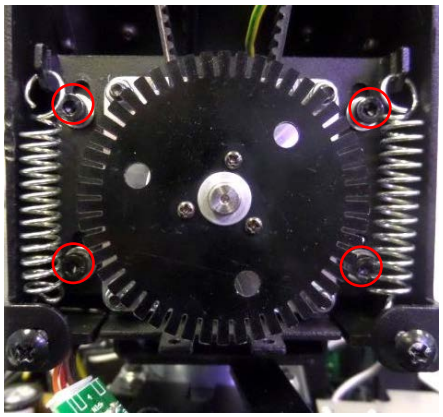
Step 5:

Detach the optical sensor by removing 2 Philips-head screws.



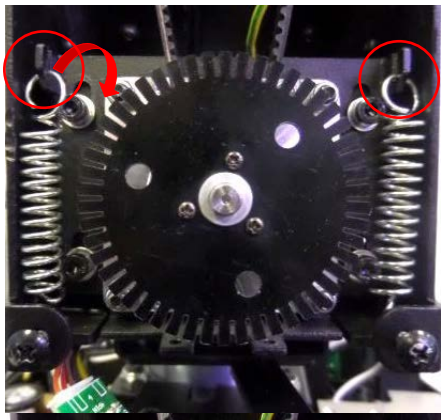
Step 6:

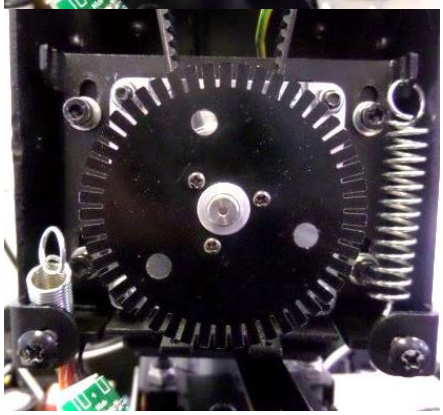
Loosen the 4 hexagonal screws on the tilt motor fixing plate.



Step 7:

Free the tilt motor fixing plate by CAREFULLY lifting the tension springs out of their hooks.





Step 8:

If necessary, slide the old tilt belt off of the Y-axis seat assembly first, before removing it from the driving wheel and the optical positioning plate.

Step 9:

Slide the new tilt belt onto the driving wheel first, before slipping it onto the Y-axis seat assembly.

Step 10:

Reverse from step 7 to secure everything back in place.

Removing the Modules

The Legend™ 230SR Beam is designed so the focus and zoom assemblies are easily removable from the rest of the product, in two separate modules. In the event that a part in either of the modules fails, the procedure for removing the modules is as follows:

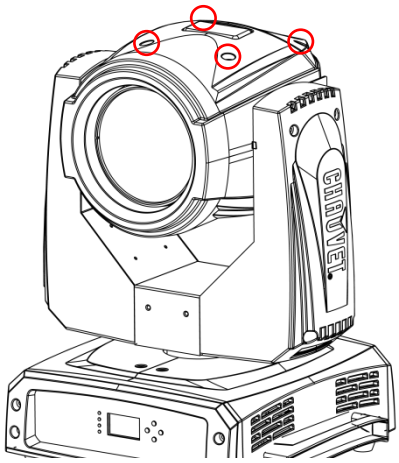
Disconnect the product from AC power before opening.

Step 1:

Turn the product off and disconnect from power.

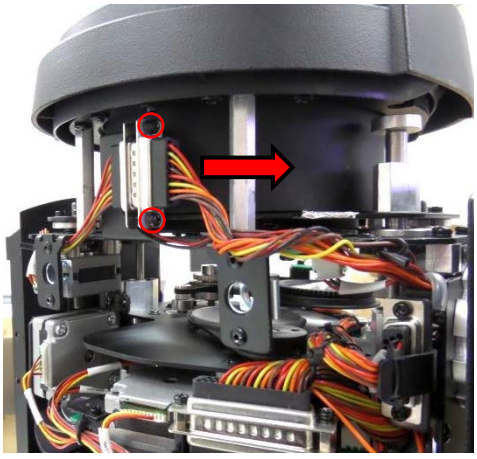
Step 2:

Remove both head covers by removing 8 Phillips-head ¼-turn screws.



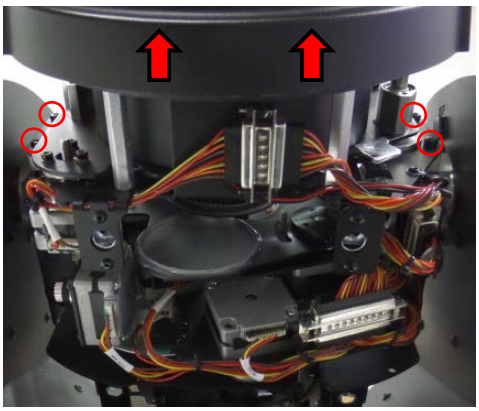
Step 3:

Disconnect the large vertical connector on the focus module by removing 2 Phillips-head screws and unplugging it.



Step 4:

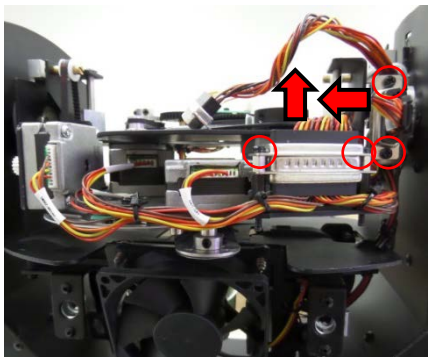
Remove the focus module by removing 4 Phillips-head screws and lifting it off of the moving head.



The Focus Module

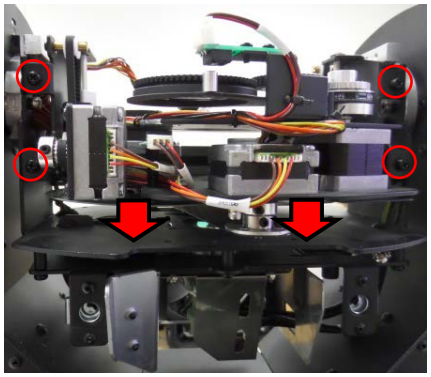
Step 5:

Disconnect the large horizontal and vertical plugs on the zoom module by removing 4 Phillips-head screws and unplugging them.

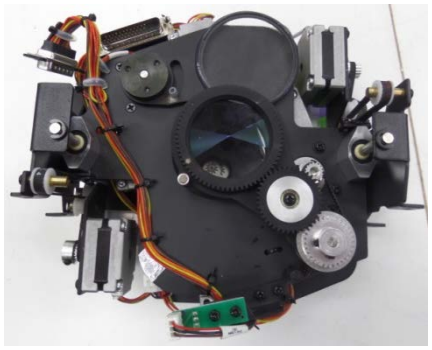


Step 6:

Remove the zoom module by removing 4 Phillips-head screws on the opposite side, and sliding the module out.



NOTE - In the case of bent or damaged parts (such as a shaft or bushing), do not attempt to repair the part itself. Replace the part completely.

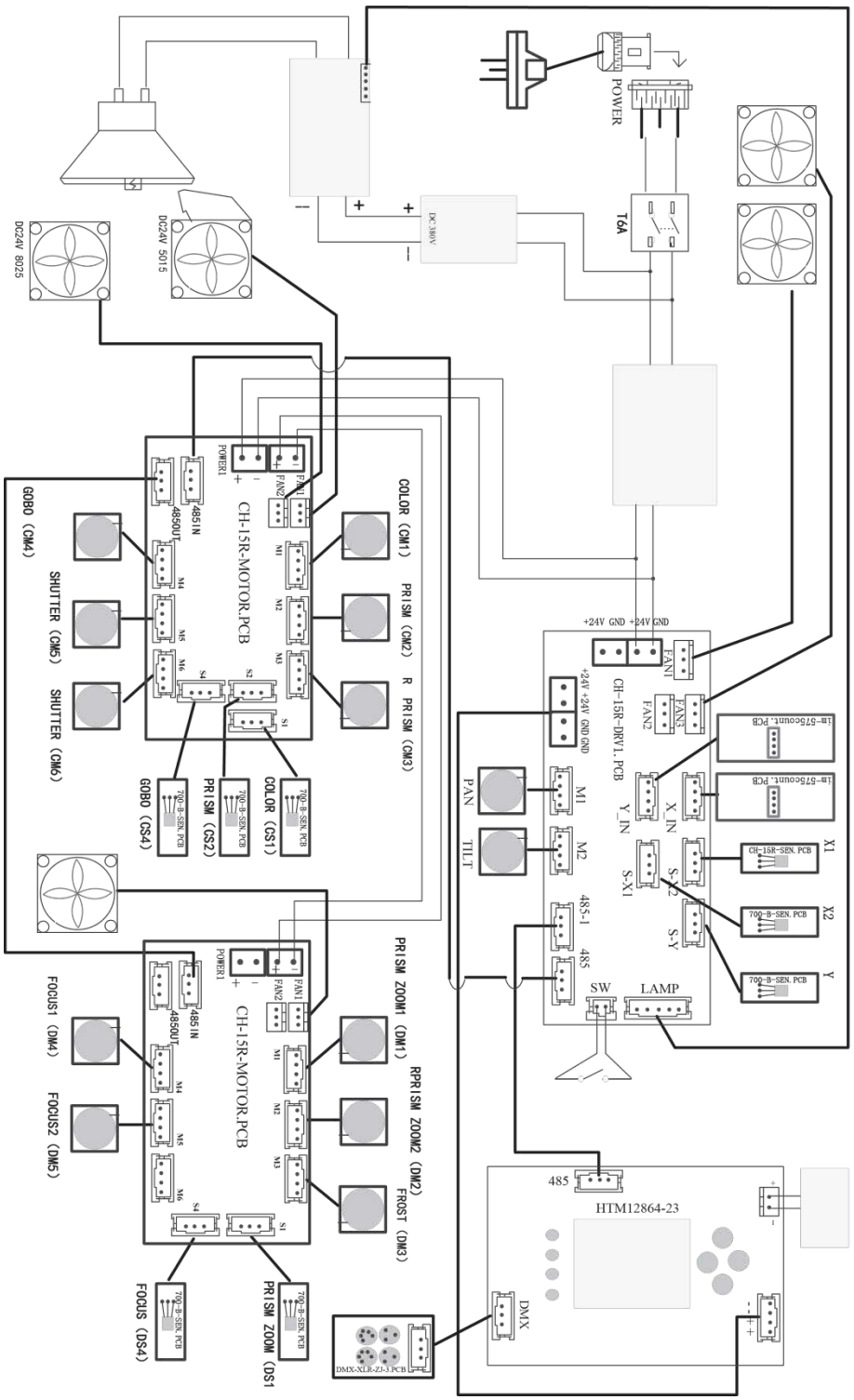


The Zoom Module

4. WIRING DIAGRAM

Wiring Schematics

The following image is the wiring diagram for the Legend 230SR Beam.



5. TECHNICAL INFORMATION

Product Maintenance

To maintain optimum performance and minimize product breakdowns:

- Make sure all screws are tightened and all terminals are firmly locked. Do this every 2 months, or as need dictates.
- Replace any cables or cable joints immediately once they have turned yellow.

Always disconnect the Legend™ 230SR Beam from power before performing any product maintenance.

To replace the cables or cable joints:

1. Unplug the product from power.
2. Wait until the product is at room temperature.
3. Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external vents.
4. Clean all external surfaces with a mild solution of non-ammonia glass cleaner or isopropyl alcohol.
5. Apply the solution directly to a soft, lint-free cotton cloth or a lens cleaning tissue.
6. Wipe any dirt or grime to the outside edges of the lens surface.

Do not touch the lamp with bare hands. If this happens, clean the lamp with isopropyl alcohol and wipe it with a lint-free cloth before turning the product on again.

Ordering Parts

The Chauvet Parts Store carries parts for the Legend™ 230SR Beam. Chauvet parts can be shipped directly to customers within the 50 U.S. states.

For current availability of parts and ordering details, visit the www.chauvetparts.com.

Products still under warranty must be serviced directly by a Chauvet technician or an authorized service center in order to not void the warranty.

6. TECHNICAL SPECIFICATIONS

Dimensions and Weight

Length	Width	Height	Weight
13.5 in (343 mm)	16.4 in (415 mm)	19.6 in (498 mm)	41.3 lb (18.7 kg)

Note: Dimensions in inches rounded to the nearest decimal digit.

Electrical

Power Supply Type	Range	Voltage Selection
Switching (internal)	100–240 V, 50/60 Hz	Auto-ranging

Parameter	120 V, 60 Hz	208 V, 60 Hz	230 V, 50 Hz
Consumption	415 W	401 W	385 W
Operating / Inrush current	3.43 A	2.02 A	1.75 A
Fuse	T 5 A, 250 V	T 5 A, 250 V	T 5 A, 250 V

Power I/O	US/Worldwide	Europe
Power input connector	Neutrik® powerCON®	Neutrik® powerCON®
Power output connector	N/A	N/A
Power cord plug	N/A	N/A

Light Source

Type	Power	Lifespan
Osram Sirius 230 W Lamp	230 W	2,500 hours

Photo Optic

Parameter	Standard Optics
Illuminance @ 15 m	96,000 lux
Beam angle	2.25°

Thermal

Max. External Temperature	Cooling System
113 °F (45 °C)	Fan-Assisted Convection

DMX

I/O Connectors	Connector Type	Channel Range
3- and 5-pin XLR	Sockets	15 or 18

Ordering

Legend™ 230SR Beam	Item Code	UPC Number
Legend™ 230SR Beam	06010560	781462209087

CONTACT US

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www.chauvetlighting.com

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World Wide Web www.chauvetlighting.eu

Outside the U.S., United Kingdom, Ireland, Mexico, or Benelux contact your dealer. Follow their instructions to request support or to return a product. Visit our website for contact details.

UL 1573
CSA C22.2 No. 166
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