AUTO SPOT 150

American DJ®

Auto Spot 150™

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User Instructions

American DJ
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Los Angeles CA. 90058
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Unpacking: Thank you for purchasing the Auto Spot 150™ by American DJ®. Every Auto Spot 150™ has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your fixture for any damage and be sure all equipment necessary to operate the unit has arrived intact. In the event damage has been found or parts are missing, please contact our toll free customer support number for further instructions. Please do not return this unit to your dealer without contacting customer support first.

Introduction: The Auto Spot 150™ is a six channel, moving head, intelligent DMX fixture. The fixture can operate in three different operating modes; stand alone, sound-active, or in a Master/Slave configuration. The Auto Spot 150™ comes with several build in programs and is best used in multiples of four. When used as a stand alone unit or when used in multiples linked in a master/slave configuration the optional IRC/2 controller may be used. The optional controller will access different programs and control a blackout function. *For best results use fog or special effects smoke to enhance the beams projections.* ***During the initial start-up or use of this product a light smoke or smell may arise from the unit. This is a normal process and is cause by the heat associated with the lamp.***

Customer Support: American DJ® provides a toll free customer support line, to provide help and to answer any question should you encounter problems during your set up or initial operation. You may also visit us on the web at www.americandj.com for any comments or suggestions. Service Hours are Monday through Friday 9:00 a.m. to 5:00 p.m. Pacific Standard Time.

      Voice: (800) 322-6337
      Fax: (323) 582-2610
      E-mail: support@americandj.com
For service parts visit http://parts.americandj.com

Warning! To prevent or reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.

Warning! *This may cause severe eye damage. Avoid looking directly into the light source at all times!*

For Your Own Personal Safety, Please Read and Understand This Manual Completely Before You Attempt To Install Or Operate This Unit!

- To reduce the risk of electrical shock or fire, do not expose this unit rain or moisture
- Do not spill water or other liquids into or on to your unit.
- Be sure that the local power outlet match that of the required voltage for your unit.
- Do not attempt to operate this unit if the power cord has been frayed or broken.
- Do not attempt to remove or break off the ground prong from the electrical cord. This prong is used to reduce the risk of electrical shock and fire in case of an internal short.
- Disconnect from main power before making any type of connection.
- Do not remove the cover under any conditions. There are no user serviceable parts inside.
- Never operate this unit when it's cover is removed.
- Always be sure to mount this unit in an area that will allow proper ventilation. Allow about 6" (15cm) between this device and a wall.
- Do not attempt to operate this unit, if it becomes damaged.
- This unit is intended for indoor use only, use of this product outdoors voids all warranties.
- Always mount this unit in safe and stable matter.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
- Cleaning -The fixture should be cleaned only as recommended by the manufacturer. See page 7 for cleaning details.
- Heat -This fixture should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- The fixture should be serviced by qualified service personnel when:
  - A. Objects have fallen, or liquid has been spilled into the appliance.
  - B. The appliance has been exposed to rain or water.
 - C. The appliance does not appear to operate normally or exhibits a marked change in performance.

Caution! There are no user serviceable parts inside this unit. Do not attempt any repairs yourself, doing so will void your manufactures warranty. In the unlikely event your unit may require service please contact your nearest American DJ® dealer.

During operation the housing may become extremely hot. Avoid touching the unit with bare hands while in use.

American DJ® will not accept any liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to this unit.
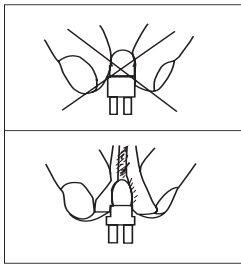
This fixture is fitted with a discharge lamp which is highly susceptible to damage if improperly handled. Never touch the lamp with your bare fingers as the oil from your hands will shorten lamp life. Also, never move the fixture until the lamps have had ample time to cool. Remember, lamps are not covered under warranty conditions.

This unit emits intense UV radiation which is harmful to the eyes and skin. The intense luminance of the lamp can cause severe damage to the retina. Never operate this unit without it's covers, these covers have been specially designed to shield against UV radiation.

Epileptic Warning: *Those suffering from epilepsy should avoid looking directly into the lamp at all times.*

Avoid switch the fixture on and off repeatedly in short intervals as this will reduce lamp life and intensity.

To achieve the intensity associated with discharge lamps, these lamps use gas sealed in a high pressure environment to emit a brilliant output. Due to the high pressure involved with the construction of the lamp, the lamp may explode during prolonged extensive use. This risk is increased with age, added care is encouraged when dealing with older lamps. Extreme caution should be used when operated this or any fixture fitted with a gas discharge lamp. Never open this unit while in use.

To optimize the performance of this product, please read these operating instructions carefully to familiarize yourself with the basic operations of this unit. These instructions contain important safety information regarding the use and maintenance of this unit. Please keep this manual with the unit, for future reference.

The Auto Spot 150™ carries a one year limited warranty. Please fill out the enclosed warranty card to validate your purchase. All returned service items whether under warranty or not, must be freight pre-paid and accompany a return authorization (R.A.) number. The R.A. number must be clearly written on the outside of the return package. A brief description of the problem as well as the R.A. number must also be written down on a piece of paper and included in the shipping carton. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. You may obtain a R.A. number by contacting our customer support team on our toll free customer support number. All packages returned to the service department not displaying a R.A. number on the outside of the package will be returned to the shipper at the shippers cost.

- Micro-Stepping Motors for Smooth Color and Gobo Transitions
- DMX-512 Protocol Compatible (Uses Six DMX Channels)
- Independent Gobo and Color Wheels
- 7 Rotating Gobos + Spot - All Replaceable
- 9 Colors, Plus White - Split Color Compatible
- Three Different Operating Modes
    Master/Slave
    Stand Alone
    Sound Active
- Internal Microphone with Volume Sensitivity Knob
- LL-HTI150 Discharge Lamp, 120v/150w, 750 Hours
- Standard 13° Focused Beam Angle
- Manual Focus Lens
- Variable Strobe (1-12 fps)
- 540° Pan Movement (Full movement in 2.8 seconds)
- 270° Tilt Movement (Full movement in 1.6 seconds)

FRONT
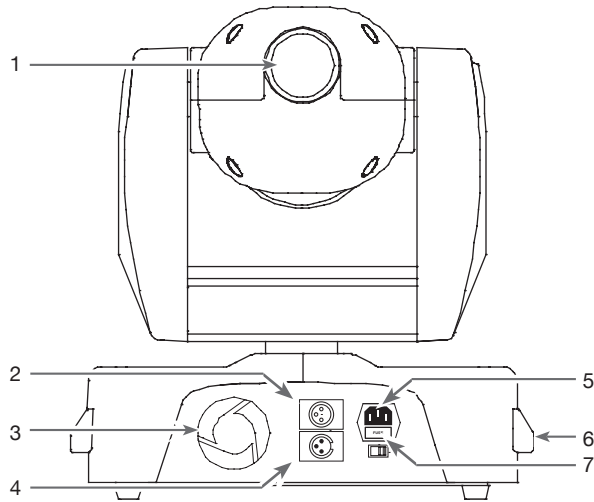
REAR

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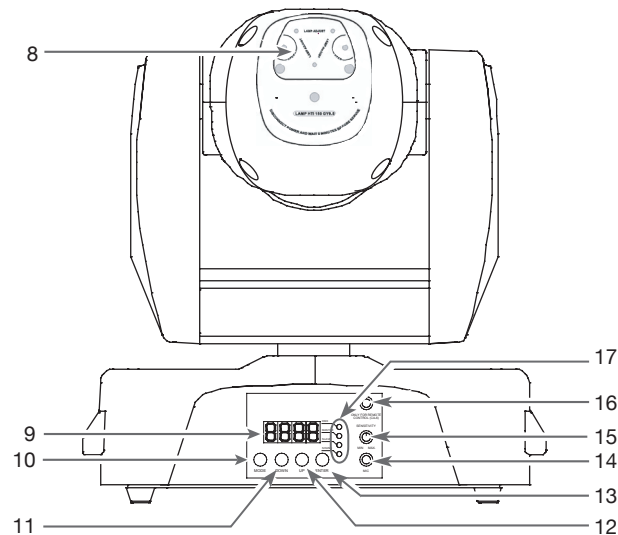
1.   Lens Assembly - This high quality lens is a fully focusing. Focus the lens by manually turning the lens in a clockwise or counter-clockwise direction until the desired effect is achieved.

2.   XLR DMX Input Jack - This jack is used to receive an incoming

DMX signal or Master/Slave signal.

3.   Cooling Fan - This unit is equipped with a high velocity variable fan to aid in the cooling process. This fan is designed to vary its' velocity at different operating temperatures, to provide better cooling when the unit reached higher operating temperatures associated with long usage. Be sure to never obstruct the cooling fan during normal usage. Also, be sure to keep this vent clean at all times. A blocked or malfunctioning cooling system may shorten lamp life and unit reliability.

4. XLR Output Jack - This jack is used to transmit the incoming DMX signal to another DMX fixture, or transmit a Master/Slave signal to the next Auto Spot 150™ in the chain. For best results in DMX or Master/Slave mode terminate this jack if it is the last unit in the chain. See "Terminator" on page 11.

5.   Power Cord Inlet - This unit is equipped with a removable I.E.C. power cord. Be sure to only use the power cord included with the unit, this cord is designed to match the electrical requirements of the unit. Other cord may cause the unit to overheat or malfunction. Because Voltage may vary from venue to venue, when connecting this unit to a power supply be sure to connect to a matching power outlet. Never use this fixture if the ground prong has been removed or broken off. The ground prong is designed to reduce the risk of fire or electrical shock in the event the unit suffers from an internal short.

6. Carrying Handle - The includes built-in carrying handles. Be sure to always handle the unit by the built-in handles. Never lift or carrying the unit by head or yoke. Pulling on or transporting the unit by moving head may severely damage the unit and will void the unit warranty.

7. Fuse Holder - This housing stores a 5 amp (3 amp 220v) GMA protective fuse. Never defeat the fuse, the fuse is designed to protect the electronics in the event of sever power fluctuations. Always be sure to replace the fuse with an exact match as to the one being replaced, unless otherwise told to do so by an authorized American DJ® service technician.

8. Lamp Assembly and Access Plate - This plate access the lamp socket assembly. The unit includes a spring mounted LL-HTI150 120v/150w discharge lamp. Be sure to only replace with same type

lamp. After replacing a lamp be sure the lamp is centered in the reflector. See page 20 for details on installing and optimizing replacement lamps. Never operate this unit with the lamp exposed, this lamp emits strong UV radiation.

9 Digital Display - This display is detail the menu and operating functions.

10. Menu Button - This button is used to access the unit's main system menu and programming functions.

11. Down Button - This button is used to scroll backwards when navigating through the system menu.

12. Up Button - This button is used to scroll forward when navigating through the system menu.

13. Enter Button - This button is used to select and confirm a function when working in the system menu.

14. Microphone - This microphone receives external low frequencies to trigger the unit in Sound-Active and Master/Slave mode.

15. Audio Sensitivity Knob - This knob adjust audio sensitivity of the INTERNAL MICROPHONE (14). Turning the sensitivity knob in the clockwise direction will increase the sensitivity to sound. Turning the knob in the counter clockwise direction will decrease the fixture's sensitivity to sound.

16. IRC Controller Jack - This jack is for use with the optional IRC controller only. Do not attempt to connect an audio signal this jack, this will damage the PC board and void your manufactures warranty!

17. Indicator LED's - The color coded LED's will visually display the unit's current operating mode. A glowing LED will indicate an active function.

Power Supply: Before plugging your unit in, be sure the source voltage in your area matches the required voltage for your American DJ® Auto Spot 150.™ The American DJ® Auto Spot 150™ is available in a 120v and 220v version. Because line voltage may vary from venue to venue, you should be sure your unit voltage matches the wall outlet voltage before attempting to operate you fixture. Also be sure to only use the included I.E.C. power cable supplied with the unit, this cable matched the voltage and current requirements of the unit.

DMX-512: *DMX is short for Digital Multiplex. This is a universal protocol used by most lighting and controller manufactures as a form of communication between intelligent fixtures and controllers.* A DMX controller sends DMX data instructions from the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA "IN" and DATA "OUT" XLR terminals located on all DMX fixtures (most controllers only have a DATA "OUT" terminal).

DMX Linking: DMX is a language allowing all makes and models of different manufactures to be linked together and operate from a single controller, as long as all fixtures and the controller are DMX compliant. *To ensure proper DMX data transmission, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. Therefore, the first fixture controlled by the controller could be the last fixture in the chain. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.*

Data Cable (DMX Cable) Requirements (For DMX and Master/Slave Operation): The Auto Spot 150™ can be controlled via DMX-512 protocol. The Auto Spot 150™ is a six channel DMX unit. The DMX address is set electronically using the controls on the side panel of the unit. Your unit and your DMX controller require a standard 3-pin XLR connector for data input and data output (Figure

Figure 1

1). If you are making your own cables, be sure to use standard two conductor shielded cable (This cable may be purchased at almost all professional sound and lighting stores). Your cables should be made with a male and female XLR connector on either end of the cable. Also remember that DMX cable must be daisy chained and can not be split.

Notice: Be sure to follow figures two and three when making your own cables. Do not use the ground lug on the XLR connector. Do not connect the cable's shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR's outer casing. Grounding the shield could cause a short circuit and erratic behavior.

Figure 2

XLR Pin Configuration
Pin 1 = Ground
Pin 2 = Data Compliment (negative)
Pin 3 = Data True (positive)
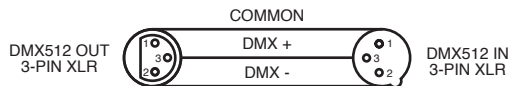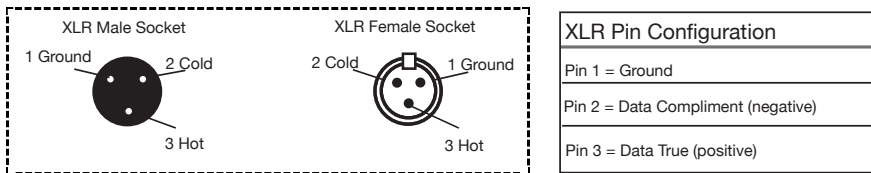
Figure 3

Special Note: Line Termination. When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behavior. A terminator is a 90-120 ohm 1/4 watt resistor which is connected between pins 2 and 3 of a male XLR connector (DATA + and DATA -). This unit is inserted in the female XLR connector of the last unit in your daisy chain to terminate the line. Using a cable terminator (ADJ part number Z-DMX/T) will decrease the possibilities of erratic behavior.
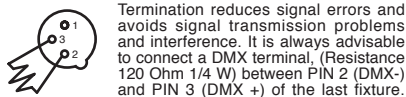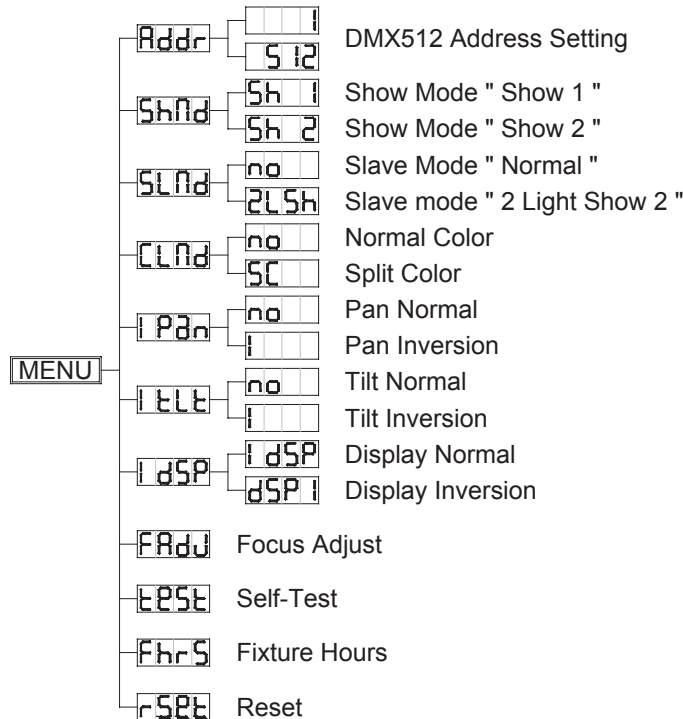

Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

Figure 4

5-Pin XLR DMX Connectors. Some manufactures use 5-pin XLR connectors for DATA transmission in place of 3-pin. 5-pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors in to a 3-pin line a cable adaptor must be used, these adaptors are readily available at most electric stores. The chart below details a proper cable conversion.

3-Pin XLR to 5-Pin XLR Conversion		
Conductor	3-Pin XLR Female (Out)	5-Pin XLR Male (In)
Ground/Shield	Pin 1	Pin 1
Data Compliment (- signal)	Pin 2	Pin 2
Data True (+ signal)	Pin 3	Pin 3
Not Used		Pin 4 - Do Not Use
Not Used		Pin 5 - Do Not Use

On-Board System Menu. The Auto Spot 150™ comes with an easy to navigate system menu. This next section will detail the function of each command in the system menu.

Menu Button - To access the system commands located the *MENU BUTTON (10)* on the side of the unit. Tapping this button in any mode will activate the system menu. Continue to tap the *MENU BUTTON (10)* until you reach function you wish to change. When you reach the function you wish to change tap the *ENTER BUTTON (13).* When a function is selected the menu will begin to flash, use the *UP (12)* and *DOWN (11) BUTTON* to change the function. Once your changes are made tap the *ENTER BUTTON (13)* again to lock the change in the system, if the *ENTER BUTTON (13)* is not selected within eight seconds the system will automatically return to menu section. To exit without making any changes tap the *MENU BUTTON (10)* again. When all your changes have been made the system menu will automatically display the mode after eight seconds. The next section will define the menu selections.

	`1`	DMX512 Address Setting
`Addr`	`512`	
`ShMd`	`Sh 1`	Show Mode " Show 1 "
	`Sh 2`	Show Mode " Show 2 "
`SLMd`	`no`	Slave Mode " Normal "
	`2LSh`	Slave mode " 2 Light Show 2 "
`CLMd`	`no`	Normal Color
	`SC`	Split Color
`1 Pan`	`no`	Pan Normal
	`1`	Pan Inversion
`1 tLt`	`no`	Tilt Normal
	`1`	Tilt Inversion
`1 dSP`	`1 dSP`	Display Normal
	`dSP1`	Display Inversion
`FAdJ`		Focus Adjust
`tPSt`		Self-Test
`FhrS`		Fixture Hours
`rSEt`		Reset

(Menu branches to the above items)

`Addr` **DMX-512 Address Setting**

Tap the **MENU BUTTON (10)** until `Addr` is shown in the display. Pressing the **ENTER BUTTON (13)** will cause the display to blink and allow the DMX address to be changed. Use the **DOWN (11)** and **UP (12)** buttons to change the DMX address. Once the address has been selected, press the **ENTER BUTTON (13)** to continue the setup functions or after 8 seconds to automatically return to the main menu. To return to the main menu without making any adjustments to the DMX address press the **MENU BUTTON (10)** again.

`ShMd` **Show Mode**

Tap the **MENU BUTTON (10)** until `ShMd` is shown in the display. Pressing the **ENTER BUTTON (13)** will cause the display to blink and allow the show mode to be changed. Use the **DOWN (11)** and **UP (12)** buttons to select either `Sh 1` (show 1) or `Sh 2` (show 2). Once the mode has been changed, press the **ENTER BUTTON (13)** to continue the setup functions or after 8 seconds to automatically return to the main menu. To return to the main menu without changing the show modes press the **MENU BUTTON (10)** again.

`Sh 1` Show 1 mode - Larger rooms, Tilt movement angle 210.°
`Sh 2` Show 2 mode - Smaller rooms, Tilt movement angle 90.°

`SLMd` **Slave Mode -** This function allows the unit to operate as a slave.

Tap the **MENU BUTTON (10)** until `SLMd` is shown in the display. Pressing the **ENTER BUTTON (13)** will cause the display to blink and allow the slave mode to be activated. Use the **DOWN (11)** and **UP (12)** buttons to toggle between `no` (normal) and `2LSh` (slave) mode. `no` will cause the unit to operate as a "master" and `2LSh` will cause the unit to function as a "slave." Once the mode has been selected, press the **ENTER BUTTON (13)** to continue the setup functions or after 8 seconds to automatically return to the main menu. To return to the main menu without making any adjustments press the **MENU BUTTON (10)** again.

`CLMd` **Color Mode -** This item turn the split color function on or off.

Tap the **MENU BUTTON (10)** until `CLMd` is shown on the display. Pressing the **ENTER BUTTON (13)** will cause the display to blink and allow the color mode to be changed. Use the **DOWN (11)** and **UP (12)** buttons to

select either `no` (normal) or `SC` (split color) mode. Once the mode has been changed, press the **ENTER BUTTON (13)** to continue the setup functions or after 8 seconds to automatically return to the main menu. To return to the main menu without making any adjustments press the **MENU BUTTON (10)** again.

`I PAn` **Pan Inversion**

Tap the **MENU BUTTON (10)** until `I PAn` is shown on the display. Pressing the **ENTER BUTTON (13)** will cause the display to blink and allow the pan function to be changed. Use the **DOWN (11)** and **UP (12)** buttons to select either `no` (normal) or `I` (pan inversion) mode. Once the mode has been changed, press the **ENTER BUTTON (13)** to continue the setup functions or after 8 seconds to automatically return to the main menu. To return to the main menu without making any changes, press the **MENU BUTTON (10)** again.

`I tLt` **Tilt Inversion**

Tap the **MENU BUTTON (10)** until `I tLt` is shown on the display. Pressing the **ENTER BUTTON (13)** will cause the display to blink and allow the tilt function to be changed. Use the **DOWN (11)** and **UP (12)** buttons to select either `no` (normal) or `I` (tilt inversion) mode. Once the mode has been changed, press the **ENTER BUTTON (13)** to continue the setup functions or after 8 seconds to automatically return to the main menu. To return to the main menu without making any changes, press the **MENU BUTTON (10)** again.

`I dSP` **Display Inversion -** This function will flip the display read out by 180°. Inverting the display will allows it to be read when the unit is hung from the ceiling.

Tap the **MENU BUTTON (10)** until `I dSP` is blinking on the display. Pressing the **ENTER BUTTON (13)** will cause the display to blink and allow the display mode to be changed. Use the **ENTER** button to change to the mode `dSP I` (display inversion), It will automatically store after 8 seconds. Or press the **ENTER** button again to return to `I dSP` (display normal). To return to the main menu without making any adjustments press the **MENU BUTTON (10)** again.

`I dSP` Display normal mode for the fixture putting on the floor.

`dSP I` Display inversion mode for the fixture fixing under ceiling.

`FAdJ` **Focus Adjust -** This turns the light on and holds the head steady at different angles, so the unit can easily be focused. Also use this function to optimize the lamp (see lamp optimization on page 20).

Tap the **MENU BUTTON (10)** until `FAdJ` is blinking in the display. Tapping on **ENTER BUTTON (13)** will move the head to different angles and hold it steady. With each tap of the **ENTER BUTTON (13)** the pan angles will change and tilt will hold steady at 90°. The available pan angles are as follows; 0°, 90°, 180°, and 270°. To return to the main menu press the **MENU BUTTON (10)**.

`tESt` **Self-Test -** This function activates the units internal test mode.

Tap the **MENU BUTTON (10)** until `tESt` is blinking in the display. Tap **ENTER BUTTON (13)** and the unit will run the built-in self-test program. To return to the main menu press the **MENU BUTTON (10)**.

`FhrS` **Fixture Hours -** The function tracks the unit's operating hours. Use this function to track the usage hours on the lamp.

Tap the **MENU BUTTON (10)** until `FhrS` is blinking in the display. Tap **ENTER BUTTON (13)** and the display will detail the unit's working hours. To return to the main menu press the **MENU BUTTON (10)**.

`rSEt` **Reset -** This function resets the unit to the default settings.

Tap the **MENU BUTTON (10)** until `rSEt` is blinking in the display. Tap **ENTER BUTTON (13)** and the reset process will begin. The reset function can take up to 60 seconds. To return to the main menu press the **MENU BUTTON (10)**.

Operating Modes: The Auto Spot 150™ can operate in three different modes. This next section will detail the differences in the operating modes.

• *Stand alone mode -*
The unit will react to sound, chasing through the built-in programs. You can also use the optional IRC/2 Remote Control to blackout and other functions.

• *Master/Slave mode -*
You can daisy chain up to 16 units together to get a synchronized light show without the need of an external controller. The units will react to sound chasing through the several built-in programs. You can also use the optional IRC/2 Remote Control to blackout and other functions.

• *DMX control mode -*
This function will allow you to control each individual fixtures traits with a standard DMX-512 controller such as the LSC® Show Designer.™

Universal DMX Control: This function allows you to use a universal DMX-512 controller such as the American DJ® DMX Operator™ or LSC® Show Designer™ to control head movement, the color wheel, gobo wheel, and the shutter (strobe). A DMX controller allows you to create unique programs tailored to your individual needs.

1. The Auto Spot 150™ uses six DMX channels. Channel 1 controls pan, channel 2 controls tilt, channel 3 controls color, channel 4 controls gobo wheel, channel 5 controls gobo rotation, and channel six control the shutter. See page 22 for detailed description of the DMX traits.
2. To control your fixture in DMX mode, follow the set-up procedures on pages 10-14 as well as the set-up specifications that are included with your DMX controller.
3. Use the controller's faders to control the various DMX fixture traits.
4. This will allow you to create your own programs.
5. Follow the instruction on page 14 to set the DMX address.
6. For longer cable runs (more than a 100 feet) use a terminator on the last fixture.
7. For help operating in DMX mode consult the manual included with your DMX controller.

Stand-Alone Operation (Sound Active): This mode allows a single unit to run to the beat of the music. Only use this mode when running a single unit, or when running several units as individuals.

1. This unit is automatically designed to go into sound-active mode when it does not sense a DMX signal. The unit comes with two preprogrammed shows built-in, each show will react to low frequencies via the internal microphone. You may change the show or invert the pan and tilt functions by in the system menu by following the directions on page 15.
2. Adjust the audio sensitivity knob on the side of the unit to make the unit more or less sensitive to sound. Turning the sensitivity knob in the clockwise direction will increase the sensitivity, turning the knob in the counter-clockwise direction will decrease the fixture's sensitivity to sound.
3. The optional *IRC/2 Controller* may be used with this mode to control blackout, slow scan, and strobe functions.

Master-Slave Operation (Sound Active): This function will allow you to link up to 16 units together and operate without a controller. The units will be sound activated. In Master-Slave operation one unit will act as the controlling unit and the others will react to the controlling units programs. Any unit can act as a Master or as a Slave.

1. Using standard XLR microphone cables, daisy chain your units together via the XLR connector on the rear of the units. Remember the Male XLR connector is the input and the Female XLR connector is the output. The first unit in the chain (master) will use the female XLR connector only - The last unit in the chain will use the male XLR connector only. For longer cable runs we suggest a terminator at the last fixture.
2. Follow the procedures on page 14 to set the master and slave units.
3. The optional *IRC/2 Controller* may be used with in this operation for blackout, slow scan, and strobe function.
4. After all the units settings have been set and are plugged in, adjust the sensitivity knob on the rear of the master unit to make them react to sound.

Note: In Stand-Alone and Master-Slave operation the units will blackout to conserve lamp life when a sound source is not received.

Caution: *Always replace with the exact same type lamp and fuse, unless otherwise specified by an authorized American DJ® service technician. Replacing with anything other than the specified part can damage your unit and will void your manufactures warranty.*

Warning: *If you continue to blow lamps or fuses, STOP using the unit. Contact customer support for further instructions, you may have to return the unit for servicing. Continuing to use the unit may cause serious damage.*

Lamp Replacement: Caution! Never attempt to change the lamp while the fixture is plugged in. Always disconnect the main power and allow the unit ample time to cool before attempting to replace the lamp. Lamp replacement has been made simple by incorporating the use of a flip-up front cover that is retained by thumb screws.

1. Be sure to follow the proper handling procedures that deal with discharge lamps.
2. Remove the two larger thumb screws on the rear of the unit marked "OPEN."
3. After removing the thumb screws, gently slide out the socket assembly from the rear of the unit to expose the lamp.
4. Carefully remove the old lamp and discard it in the trash.
5. Replace the lamp with an exact match and reassemble in reverse order.
6. After replacing the lamp follow the optimization procedures on the next page to be sure the lamp is center in the reflector
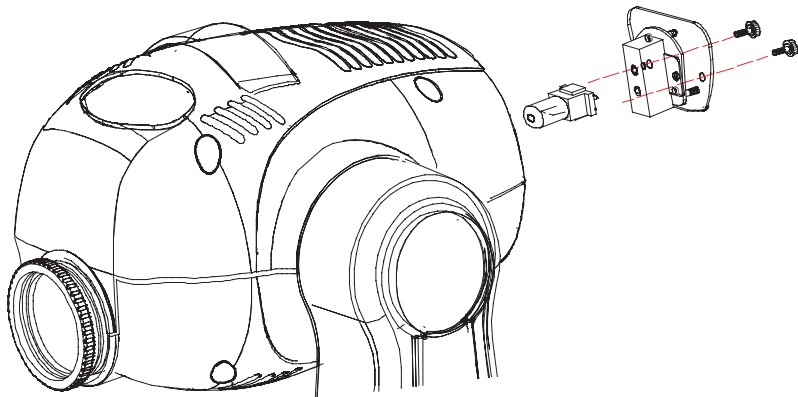
Optimizing Lamp Alignment: **This** procedure centers the lamp in the reflector. Proper optimization will increase lamp life and ensure a bright crisp output. Improper optimization may add a yellow tint to the lamp output and reduce intensity.

1. Be sure main power is disconnect and allow the unit to cool. If the you have just installed a new unit you can obviously skip this step.
2. Make a preliminary adjustment: Turn the three lamp adjustment thumb screws completely in (clockwise). Then back them each out (counter-clockwise) about three complete turns.
3. Turn the unit on and allow it to reset.
4. Using either a DMX controller or the control panel on the unit, strike the lamp and focus the light on a flat surface.
6. Center the hot-spot (the brightest part of the beam) using the 3 adjustment screws. Turn one screw at a time to drag the hot-spot diagonally across the projected image. If you cannot detect a hot-spot, adjust the lamp until the light is even.
7. To reduce a hot-spot, pull the lamp in by turning all three screws clockwise 1/4-turn at a time until the light is evenly distributed.
8. If the light is brighter around the edge than it is in the center, or if light output is low, the lamp is too far back in the reflector. "Push" the lamp out by turning the screws

Optimizing Screws

Optimizing Screws
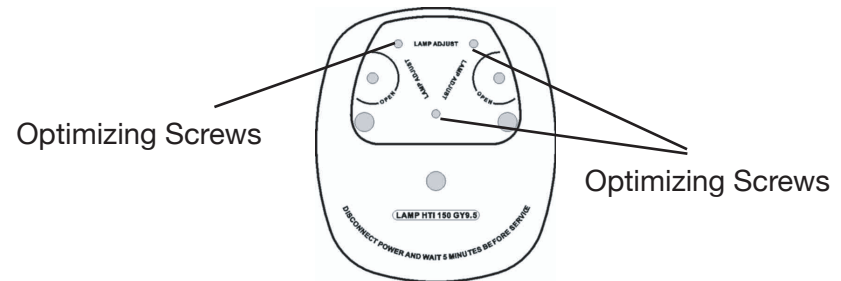
Fuse Replacement: Locate and remove the unit's power cord. Once the cord has been removed located the fuse holder located inside the power socket. Insert a flat-head screw driver into the power socket and gently pry out the fuse holder. Remove the bad fuse and replace with a new one. The fuse holder has a built-in socket for a spare fuse be sure not to confuse the spare fuse with active fuse.

Fixture Cleaning: Due to fog residue, smoke, and dust cleaning the internal and external optical lenses and mirror should be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates (I.e. smoke, fog residue, dust, dew). In heavy club use we recommend cleaning on a monthly basis. Periodic cleaning will ensure longevity, and crisp output.

1. Use normal glass cleaner and a soft cloth to wipe down the outside casing.
2. Use a brush to wipe down the cooling vents and fan grill.
3. Clean the external optics and mirror with glass cleaner and a soft cloth every 20 days.
4. Clean the internal optics with glass cleaner and a soft cloth every 30-60 days.
5. Always be sure to dry all parts completely before plugging the unit back in.

Trouble Shooting: Listed below are a few common problems that you may encounter, with solutions.

No light output from the unit;

1. Be sure you have connected your unit into a standard 120v wall outlet.
2. Be sure the external fuse has not blown. The fuse is located on the bottom panel of the unit.
3. Remove the lamp cover and be sure the lamp is seated in its socket properly. Occasionally lamps become loose during shipping be sure the lamp is push in to its socket all the way.
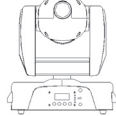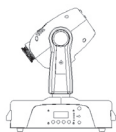4. Be sure the fuse holder is completely and properly seated.
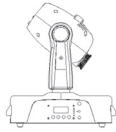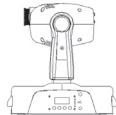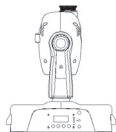
Unit does not respond to sound;

1. Low frequencies (bass) should cause the unit to react to sound. Tapping on the microphone, quiet or high pitched sounds may not activate the unit.
2. Be sure the *SENSITIVITY KNOB (5)* is not set to the minimum position (full counter-clockwise).

This chart below details the DMX traits. The individual trait can only be accessed an universal DMX controller.

Auto Spot 150 DMX Traits

CHANNEL 1 Pan	CHANNEL 2 Tilt	CHANNEL 3 Gobo	CHANNEL 4 Gobo Rotation	CHANNEL 5 Split Color / Full Color		CHANNEL 6 Shutter

1-YEAR LIMITED WARRANTY

A. American DJ® hereby warrants, to the original purchaser, American DJ® products to be free of manufacturing defects in material and workmanship for a period of 1 Year (365 days) from the date of purchase. This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.

B. For warranty service, send the product only to the American DJ® factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, American DJ® will pay return shipping charges only to a designated point within the United States. If the entire instrument is sent, it must be shipped in its original package. No accessories should be shipped with the product. If any accessories are shipped with the product, American DJ® shall have no liability whatsoever for loss of or damage to any such accessories, nor for the safe return thereof.

C. This warranty is void if the serial number has been altered or removed; if the product is modified in any manner which American DJ® concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the American DJ® factory unless prior written authorization was issued to purchaser by American DJ®; if the product is damaged because not properly maintained as set forth in the instruction manual.

D. This is not a service contract, and this warranty does not include maintenance, cleaning or periodic check-up. During the period specified above, American DJ® will replace defective parts at its expense, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of American DJ® under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of American DJ®. All products covered by this warranty were manufactured after January 1, 1990, and bear identifying marks to that effect.

E. American DJ® reserves the right to make changes in design and/or improvements upon its products without any obligation to include these changes in any products theretofore manufactured.

F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with products described above. Except to the extent prohibited by applicable law, all implied warranties made by American DJ® in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said period has expired. The consumer's and or Dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall American DJ® be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product.

G. This warranty is the only written warranty applicable to American DJ® Products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

H. Lamps are not covered under this or any other warranty, either written or implied.

Model:	**Auto Spot 150™**
Voltage:*	120v/60Hz or 220v/50Hz
Lamp:	LL-HTI150, 120v/150w
Dimensions:	15"(L) x 12"(W) x 18"(H)
	373mm x 295mm x 451mm
Colors:	9 Plus White
Gobos:	7 Rotating + Spot - All Replaceable
	27.8mm Outside/18 mm Viewable
Weight:	29 Lbs. / 13 kgs.
Fuse:	7A (120v) / 5A (220v)
Duty Cycle:	None
DMX:	6 Channels
Sound Active:	Yes
Working Position:	Any Safe, Secure Position
Warranty:	1 Year (365 days)

*Voltage is preset at the factory and is not user selectable

Please Note: *Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.*

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