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Radaray 82-120 Infrared Foul Conversion (RK82-120)

Radaray 82-120 Infrared Foul Conversion Theory

By replacing the old Radaray PC Board and removing the old incandescent optic head. You are able to convert the old Radaray foul unit to infrared. The RK82-120 main pc does all the logic functions and emits infrared across to the reflectors.

Installation Instructions

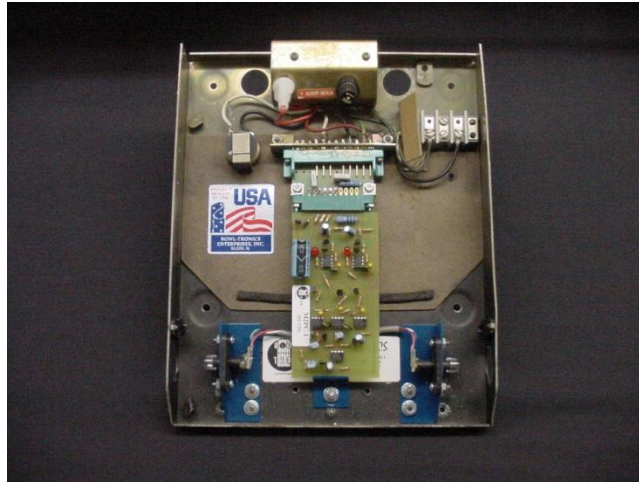
Remember to remove power before performing any installation!!

Installing the Radaray 82-120 Kit

Remove the large cover from the base unit. Remove the lens cap assembly from the cover. The infrared beam must travel unobstructed from optic to reflector so the lens must be removed. Remove the old PC board and light socket assembly from the foul unit. Save the hardware, as this will be used for mounting the optics. Remove the lens and retainer from the base unit. The hole size where the lens was must be at least 7/8". This can be accomplished by using a hole punch or drill bit. After punching the hole the inside of the cover around the holes should be painted flat black, this prevents any light from being reflected back off the inside of the cover. Two inches around the hole should be sufficient. The two wires that were connected to the light source sockets will have to be removed. Cut the white wire at the ground connector behind the PC connector. Cut the blue wire and cap it with a wire nut.

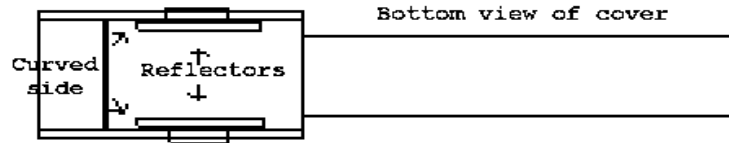
Plug in the new circuit board and mount the retainer bracket in place. Mount the optics bracket in the position where the old light source sockets used to be. Place flat washers on the mounting studs and tighten down with the kep nuts from saved hardware. Make sure that the optics are mounted straight with the foul line and use the optic alignment LED's to align the optics. The LED's will be lit when the optics are aligned. The LED's on the PC board will be opposite of the optics due to PC board orientation.

Remove the lens cap and plug button from the small division housing. Mount the reflectors on the inside of the cover (*see illustration below*). Before replacing the large cover test the unit for proper operation. CAUTION!!!! DO NOT TOUCH ANY PART OF THE PC BOARD OR OPTICS TO THE FRAME!!!! The frame has a voltage potential that can damage the PC board.



Remove the old lens and housing from the small division cap across from the unit and mount the reflector as shown in the illustration below.

Pop fit the new reflector on the inside of the cover with the curved side facing forward.



For repair visit: www.bowl-tronics.com/service

Fill out our service request form and ship to the address that is shown.

Notes:
