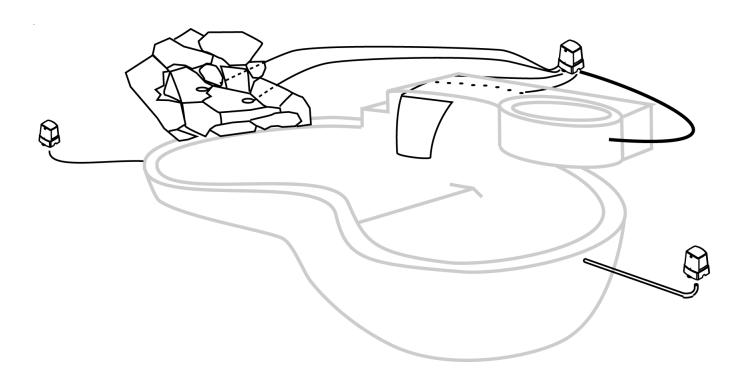




6004-AS INSTALLATION MANUAL AUTO SYNCHRONIZED ILLUMINATORS



WARNING: DO NOT INSTALL WITHIN 1.5M (5 FT.) OF A POOL, SPA, OR HOT TUB. ADVERTISSEMENT: NE PAS INSTALLER A MOINS DE 1,5 M D'UNE PISCINE OU D'UNE CUVE DE RELAXATION.

79-15015-00 REV. C

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CONTROL OPTIONS

RM-400 WIRELESS REMOTE BY FIBERSTARS NOTE: MAXIMUM 2 LIGHT UNITS PER RM-400

EXTERNAL AUTO CONTROL (JANDY AQUALINK, COMPOOL, AQUADYNE, ETC.) **NOTE:** Do not use Dimmable relays on Metal Halide!

LIGHT SWITCHES

WIRING THE 6004-AS AUTO SYNC SYSTEM:

- 1) **FOR POWER** the 6004-AS series illuminator draws 4.4 amps at start up and has a run current usage of 1.8 amps. Use these to determine the appropriate size and number of switches or relays (non-dimming) needed for power. In the most common installations all power wires can be hooked up to the same switch.
- 2) **FOR COLOR WHEEL** the key to the Auto Sync system is that **ALL** color wheel wires **MUST** be hooked up to the same switch.

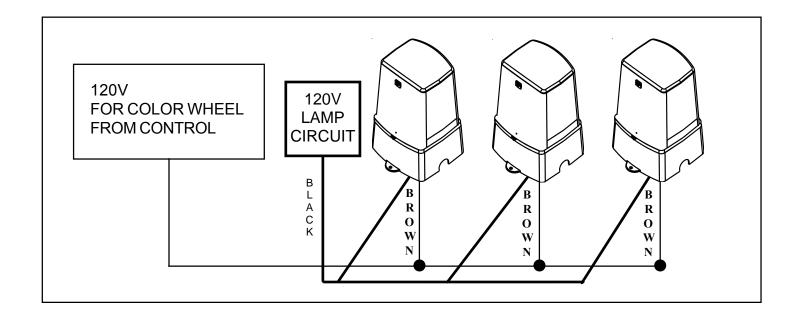
HOW IT WORKS!

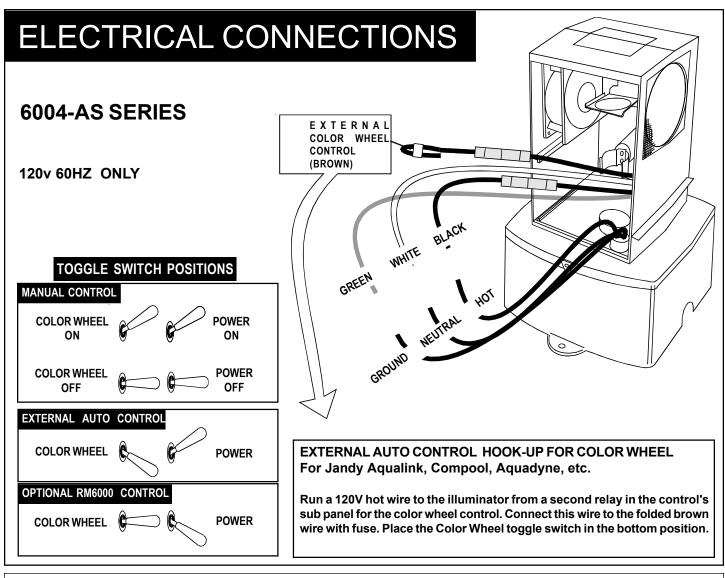
Before switching on the 6004-AS illuminators make sure color wheel switch is in the OFF position.

Turn the power on to the illuminators, the color wheels will rotate to the **HOME** position. This action takes about 15 seconds. At this time all AS units should be holding on the same color.

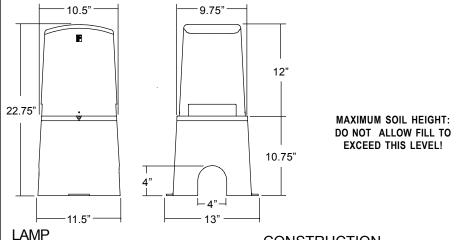
After the color wheels have reached there home positions the color wheels can be switched on. The units should now be in sync.

When shutting down the system always turn the color wheels OFF so the next time the lights are turned on the color wheels can return to their home position again assuring synchronization.





SPECIFICATIONS



Type: Metal-Halide, proprietary design

Lamp life: 6000 hrs average

Cool down restrike period: 3 minutes

Replacement p/n: Y20-6000

CONSTRUCTION

Case: High Impact Polycarbonate Ventilation: 110 cu ft/min air volume

Acoustic rating: 50dB(A)

Weight: 20 lbs.

ELECTRICAL

Voltage required: 120VAC 60Hz Power consumption: 200 Watts Start current load: 4.4 amps Current usage: 1.8 amps

INSTALLATION GUIDELINES

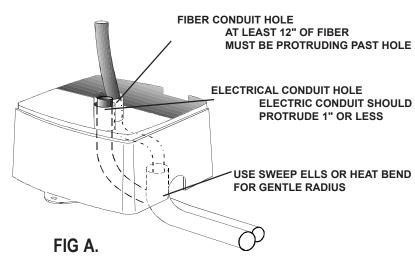
REFER TO THE DIAGRAM ON THE FRONT OF THIS MANUAL FOR THE FOLLOWING PROCEDURES

- 1) SEE OUR GENERAL INSTALLATION MANUAL FOR FIBER AND CONDUIT INSTALLATION IN THE POOL. THIS MANUAL COVERS THE 6004-AS ILLUMINATOR INSTALLATION ONLY.
- 2) CUT THE FIBER CONDUITS SO THEY WILL ENTER THE INSTALLATION BASE APPROXIMATELY HALF WAY. CUT THE ELECTRICAL CONDUIT SO IT WILL PROTRUDE PAST THE CONDUIT HOLE 1" OR LESS (FIG A.). PULL ALL FIBER OPTIC CABLES AT LEAST 12" THROUGH THE TOP OF THE INSTALLATION BASE.
- 3) FOLLOW THE PORT ASSEMBLY PROCEDURES ON THE BACK OF THIS MANUAL.
- 4) PLACE THE CHASSIS ON THE INSTALLATION BASE. SECURE THE ILLUMINATOR WITH THE TWO SCREWS SUPPLIED. SNAP THE PORT INTO THE CLIP ON THE CHASSIS. MAKE SURE IT SEATS FIRMLY INTO THE CLIP (FIG B.).
- 5) MAKE THE ELECTRIC CONNECTIONS AS SHOWN ON THE PREVIOUS PAGE. MAKE SURE NO WIRES INTERFERE WITH THE COOLING FAN OR COLOR WHEEL.
- 6) a) IF INSTALLING IN THE GROUND:

BACKFILL HALF WAY UP THE INSTALLATION BASE. ALLOW AMPLE HEIGHT FOR TOP SOIL AND LANDSCAPING. DO NOT ALLOW THE VENTS ON THE BOTTOM OF THE ILLUMINATOR TO BE BLOCKED. THIS WILL CAUSE THE ILLUMINATOR TO OVERHEAT AND SHUT OFF.

b) IF SURFACE MOUNTING:

USE PROPER SECURING SCREWS FOR THE SURFACE TYPE YOU ARE ATTACHING TO, USING THE 2 HOLES PROVIDED ON THE BASE. EXAMPLE: FOR CONCRETE, USE PROPER CONCRETE SCREWS. FOR WOOD SURFACE. USE PROPER WOOD SCREWS



APPROVED CONDUITS FOR USE WITH FIBER OPTIC CABLES

- •White PVC conduit/ pipe SCH 40 or SCH 80
- •Gray PVC Conduit/pipe SCH 40 or SCH 80
- •Flexible PVC pipe
- Black poly pipe
- •Any other suitable conduit

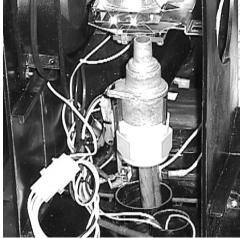
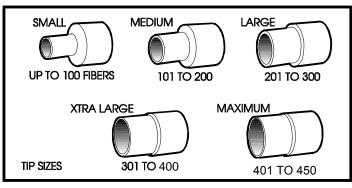
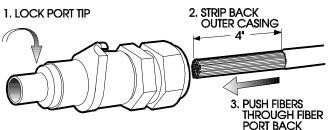


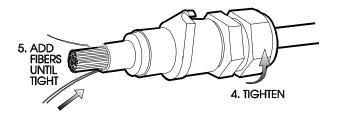
FIG B.

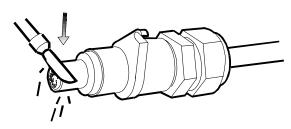
PORT ASSEMBLY/FIBER TERMINATION

- A) Insure that the total fiber count of all fiber tubings is 450 or less. If you have more than 450 individual fibers, you will need a second illuminator. The maximum capacity of the 6004 illuminator port is 450 fibers.
- B) Insert the proper size tip into the port and twist with pliers to lock (fig. 1).
- C) Strip back all fiber casings no less than 4 inches (fig. 2). Take care not to nick the fibers.
- D) Insert the bare fibers into the port so ALL fibers protrude past the port tip (fig 3). Tighten the port compression nut down on the fiber casing (fig 4).
- E) IMPORTANT: If the port tip is not completely full, insert scrap individual fibers into the tip until it is completely full (fig. 5). This will keep the lit fibers perpendicular to the lamp, and prevent the fibers from overheating.
- F) Plug in the hot knife (p/n FS-118) and allow it to heat up. Apply firm downward pressure on the fibers, with the blade touching the port tip at a slight angle (fig 6). Do not saw at the fibers. Allow the heat of the knife to slowly trim the fibers. Ease the pressure as the knife almost completes the cut. Unplug the hot knife and place it in a safe place to cool.









6. APPLY STEADY DOWNWARD FORCE WITH HOT KNIFE DO NOT SAW BACK AND FORTH

Fiberstars, Inc.