

```
1 2,02 an
RESISTORS
             2-546
8-47K2
                         6-34
10-10K
              6-347
                        12 物理 - 180~ ない*(2)
 1-15K
              1 -1M
                         198-4702 12W
1 - 4704
                          ALL R'S= 14W EXCEPT
              1 -2704
                                 THE 1800. 8 4700.
3-447
             1-2404
1 - 270x
             5 -1000
                              SUPPLIER CODE
1-14
             1 - 648
                           O-INTEK
1-343
             1-2-12
                          12) - FRASER ELEC.
 1-142
                         BELECTEUMINE
              2-5604
 4 -224
             1-200%
                          @ CARONAL
                         (3) BULT SUPPLY
 CAPACITORS (1)
4-In/BOU RAPIAL LEAD US
                       3-ZZMF/16U RADIAL LEAD , 20
 3 - 10m/10V RADIAL LEAD IL
                      4-,015mpd
                                             .20
                        2 - 4n7 DISC
  2 - 100m/10v " " 20
                                            20
  1 - . 02 m /100 Disc ,20
                        2 - 242 DISC.
                                              :20
  2 - 2 MEI/16U RAPHILLEADIN 1-100MEI/25U RADIAL LEAD 195
   1-1000mFd/100 RADIAL LEAD TO 1-470MFd/250 RADIAL CEAD .65
  1-10000150
                           1-InFd DISC.
                                                   ,20
  4-,01mFd 250V DISC. ,20
 DIUDES
                  20 - IN914/IN-1148 0
   4-1N4001 0
 TRANSISTORS.
    1-2N404A * (2)
                       12 - 2~3904.
 T.C. '5.
               1-4017
    1-555
                          1-4019
                                    1-4042
                                             1-3900 OR 3401
                                       1.50
  POTS
                             1- 4704 ORIM LOC TAPER
                         (3)
    4-10KLIN - RADIOHM
                                      1.00
   OTHER
             SEMI'S
    4-MOC3010 * OQ 1.86 4- IT-28 TRIAC * OQ, 73
    5 LEDS * (2) .20
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RZB

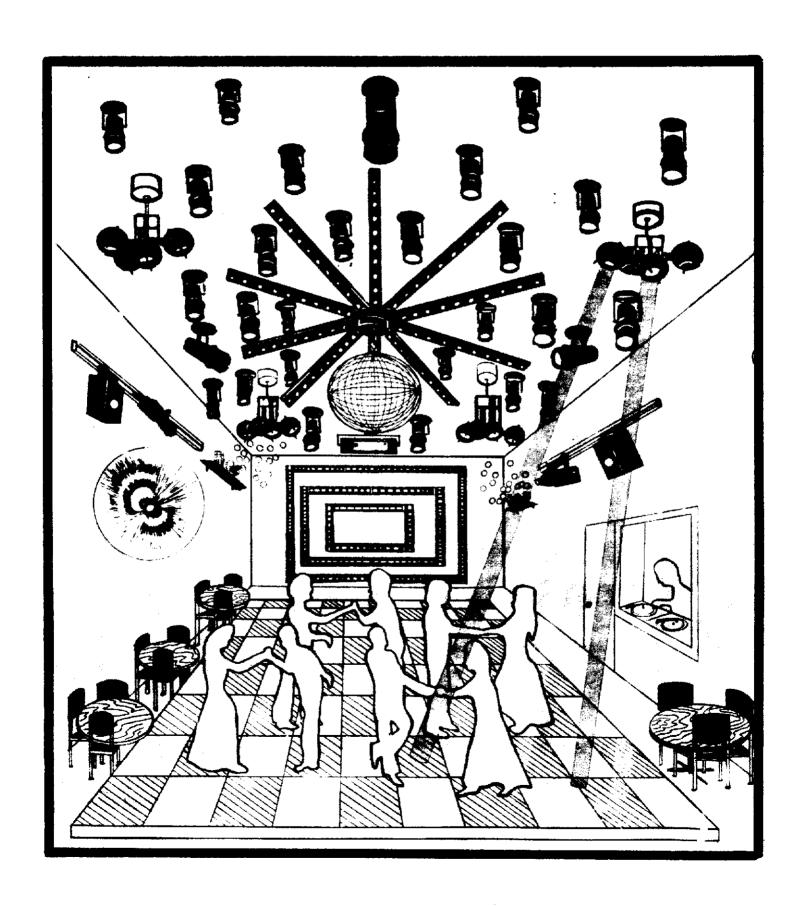
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FUSES.
1-15A FAST BLOW 0,25 1- 3A FAST BLOW 0,25
COPTIONAL - 4x #A FAST BLOW) 0,25
TRANS FORMER
                                    TOTAL COST
1-166 F12 (HAMMOND) @ 5,50
                                       80.41 NOT INC. CASE
                                    STICKERS, WIRE, PAINTING, PRINTING.
 EUSE HOLDERS
                                    SCHEMATIE, LABOR, DESIGN CHARGE
 1- CHASSIS MOUNT HAP BUSS CITTLEFUSE @ 1,59 OVERHEAD,
  2 - CLIPS 102068 ? O @ .11
  (OPTIONAL - 8 CLIPS) @ O
HARDWARE
   2 - 3/4" CLIFF SPACERS * (2),10 VG-AMP P.C. LINGS *
   2 - 14" GRIP POP RIVETS 16 6.02 16- PUSH CONNECTERS 14 AMP
 6- KNOBS (ARMACO OL COSRAD), 65 REAR PANEL
LED P.C B'S ILARGE @ I SMALL *
   LOGIC P.C.B. → @ 7.00 LID.
   TRIAC P.C.B * (D 5.00 2,50 AEPB STICHER * 0.
FLANGE FUR TRIAC P.C.B. (ATLAS ALLOY OR) WARNING STICHER * (D)
    3-3/4" 6-32 M.S. C/W L.W BNATS. BOS S/N STICKER
2-1/2"6-32 M.S. 105 @ 3' 1464 WHITE WIRE
   1- CABLE CLAMP (BRISHE) .26 2.40 6' 146A NON WHITE WIRE 6' 14/3 RUBBER (AMP CORD(GRE) 20' 246A SOLID WIRE 1- HUBBEL PLUG. (BRE)3.05 2' 186A WIRE I'NOT WHITE
     1 - CLIFF 51/55 OR 52/SNS JACK * @ .55
     2 - SLATER AC. PUPLEX RECEPTACLES * 0.80
     1 - #6 SOLDER LUG 9.05 SOLDER 00 * .50
     6- #6 SHEET METAL SCREUS - 1/2" (3 ,02
     4 - 1" 4/40 FLAT HEAD M-S. C/n L M S N475 ( WINERSAL) 10.
                             " (UNIVERSAL) 10
     3 - 1/2" 4/40 "
       -SWITCH SPACERS * Q .10
      3 - EPIN AMP CONNECTOR SETS
                                                          AMPLEO
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40

- 2 PM



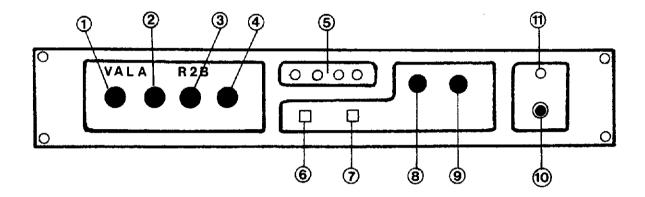
Professional Lighting Equipment



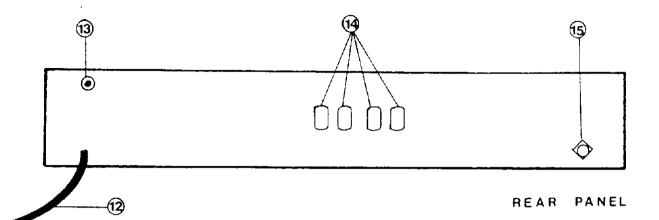




Lighting Controller



- 1. BASS CONTROL: This control sets the sensitivity of the bass channel of the sound to light (S/L). It also sets the sensitivity of the audio trigger when in chase mode.
- 2,3&4. These controls set the sensitivity of the lo-mid, high-mid and treble channels of the S/L section.
- 5. Output indicators.
- 6. Bright-dim switch. Allows the operator to dim the lights to 50% brightness. Not to be used with transformer equiped lighting such as pin spots or neon.
- 7. Trigger selector. Selects between auto and audio triggering of the chase patterns. Audio sensitivity is set by the bass control.
- 8. RATE CONTROL: Sets the chase speed when the trigger switch is in the auto position.
- SELECTOR SWITCH: Selects between sound to light (S/L). and any four chase patterns.
- 10. Power off / on switch.
- 11. Pilot Lamp.
- 12. AC Power cord. Connect to 110/120 VAC 60Hz source capable of handling load connected to output. 15 amp circuit is recommended.



- 13. FUSE. Use AGC 15 15 amp fast blow type only. Use of any other type may void warranty.
- 14. OUTPUT OUTLETS: Standard AC receptacles. Total load between all four channels (outlets) not to exceed 1800 watts on standard unit. More output power available on request.
- 15. AUDIO INPUT: Connect to full range output of amplifier. Requires minimum of 1 volt RMS for drive to a maximum of 40 volts RMS. May be connected to output of a 250 watt amplifier. Input imp. is over 47 K ohms and is purely resistive. A ½" phone plug is required for connection. In bi-amp or tri-amp systems it may be driven from a high level output from the mixer or equalizer. input is completely isolated from ground.

OTHER FEATURES:

All channels switched on zero crossing of AC line to prevent interference in the sound. Standard $3\frac{1}{2}$ " tall by 19" wide rack mount by $8\frac{1}{2}$ " deep behind the front panel. Approved by the Alberta Electrical Protection Branch. Automatic Gain Control (AGC) is used in S/L master section for operator convenience.

The R2B controller is a versatile. easy to use multi-function lighting controller. While designed primarily for the mobile operator it is equally at home in night clubs and other permanent installations.

It combines a quality four channel light chaser with a four channel sound to light unit. The output is normally through four 3 conductor AC outlets on the rear panel though the purchaser may order other output connectors as an option. The most common option is an 8 pin female Cinch-Jones connector, type \$308CCT.

CONTROLS

SELECT - This allows the user to select either Sound to Light (S/L) or any of the four chase patterns.

BASS. etc. - On the left are the four Sound to Light controls, BASS, LO-MID, HI-MID and TREBLE, corresponding to the four ranges in the music.

DIM — The dim position reduces the lights to half brightness. NOTE!! If using transformer operated lights such as pin spots or neon, the dim function must not be used. If engaged, the transformers in the lamps may be damaged. If you are not sure what type of lamps you have, please consult us. If you are using transformer operated lights, please inform us when ordering and we will defeat this function at no extra charge. Defeat of the dim function is recommended to prevent its accedental actuation. However, the dim function is perfectly safe with standard incandescent lamp loads.

TRIGGER - The second switch is the AUTO/AUDIO switch. This switch controls the source of trigger pulses for the chaser. In the AUTO position, the chase speed is set by the RATE control. In the AUDIO position, the chase is triggered by the bass in the music. The BASS control in the S/L section should be adjusted for the desired triggerring.

POWER - The power switch on the right switches the unit on and off.

REAR PANEL

AUDIO INPUT - The audio input jack is a standard 1/4" jack. The input impedance is over 47K ohms and levels up to 40 Volts RMS may be applied to the input. This corresponds to an amplifier of 200 Watts RMS per channel. The input jack is a special insulated ground type. Therefore, the input lines, both hot and ground are fully isolated from the chassis. Replacement of this jack with a conventional phone jack will result in a ground loop causing a hum in your sound. Note: these jacks are available from FRASER ELECTRONICS at reasonable cost. Please write for prices.

OUTPUT — The output is via 4 grounded AC receptacles. They go in the same order as the S/L controls on the front panel. If an optional Cinch-Jones 8 pin connector is on the controller, the pin-out is as follows: Bass - 8, Lo-Mid - 6, Hi-Mid - 4, Treble - 2, AC Neutral - 1,3 & 5 and AC Case Ground - 7.

LOAD - The maximum normal load is 1800 Watts as this is all you can draw from a normal AC outlet. The loads need not be the same on each channel and the maximum per any one channel is 600 Watts. Higher power capabilities are available on request.

FUSE - Use only the size fuse specified on the name plate. This is usually a 15 Amp fast blow type, AGC15. Also, there are 5 internal fuses. Four are AGC5 5 Amp fast blow, on each individual triac. The

fifth is for the internal logic. This may be replaced by a 9.25 Amp blow type. All fuses used must be rated for 125 Volts or higher. CORD - The cord must be connected to a grounded three wire receptacle. Do NOT attempt to defeat the ground prong on the cord. If

this is done, an unsafe condition may be created.

SAFETY WARNING

The R2B is a line operated device and operated with hazardous voltages inside. Do NOT open the unit with power connected. Refer servicing to qualified personnel only. Please note that any short circuits in the load will damage the power switching circuitry inside the unit. There are fuses provided but these will seldom blow fast enough to save the triacs. They are provided so that an unsafe condition or fire will not occur if there is a short in the lamp wiring. Do NOT attempt to defeat the fuses in any manner. If you have any questions concerning the safe operation of this unit, contact us.

CONCLUSION

The R2B is a useful addition to any light show and is built of high quality parts. It should give you years of trouble free service. About the only way to damage it is with poorly wired lights or by driving a truck over it. Even then, it can be repaired economically. There is no routine maintenance required. If your unit requires repairs, send it to us and we will repair it promptly and economically. Also, contact us if you have any further questions, want to get on our mailing list or if you need any other lighting or audio product for mobile or installed disc jockey systems.

FRASER ELECTRONICS - P.O. Box 4265 - Vancouver, B.C. V6B 3Z7 (604) 251-7044

LIGHT CONTROLER MATERIAL SHEARING LIST ALL METEL SPECIFIED AS .040" SATIN COAT IRON R 2 - B S SERIES R3 SERIES 20 16" × 11" 23 8"×8" CHASSIS SUB FRONT 4 1/6" x 3 1/8" 17 36" × 3 36" REAR.

REAR.)
16%"×7%" LID 13%"×10%"

