## FILM-TECH

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OPERATING INSTRUCTIONS FOR CFS AUTOMATION SYSTEMS (TAS-1 TAS-1C TAS-3, TAS-4)

CFS/RENTEC, INCORPORATED UPLAND, CA



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#### LIST OF SCHEMATICS AND DRAWINGS

Drawing Number Description

- 600-0057 Exhaust Blower Shutoff Delay Circuit
- 600-0115 Automation Dual Function Board Schematic
- 613-0028 Assembly, Dual Function Board
- 613-0002 Automation Mother Board Assembly
- 111-0001 Automation Final Assembly
- 204-0455 Automation Front Panel Assembly, 19"
- 204-0261 Automation Front Panel Assembly, SX
- 600-0022 Schematic, Front Panel Automation
- 620-0006 Timer Board Assembly, Automation
- 823-0003 Power Supply Assembly, Automation
- 600-0013 Schematic, Interface, Automation/Interlock SX/L-2000 Consoles
- 225-0045 Diagram, Film Path Com. Eng. Fail Safe
- 602-0002 Assembly, Show Start Timer Board
- 613-0001\* Interlock Board Assembly
- 613-0021\* Assembly, Interlock Board
- 600-0063\* Schematic, Interlock Board
- 600-0021 Schematic, Automation SX-2000 Lamphouse (2 Sheets)
- 600-0113\* Retrofit, Fire Alarm

\*Optional

#### AUTOMATION MANUAL ADDENDUM

Turret and Masking Operation

This addendum refers to operation of a Simplex Style Turret. (Lens Changer).

#### MANUAL CONTROLS

There are four (4) switches on the automation front panel associated with masking and turret controls. The switch labeled manual lens "scope" and "flat" when actuated, will rotate the turret and change the masking. If you wish to rotate the turret only, press the turret reset switch on the projector. If you wish to change masking only, actuate the open or close "manual mask" switch.

#### **AUTOMATION SEQUENCE**

- 1. Push start button.
- Projector will start, xenon lamp will light, after seven (7) seconds douser will open, exciter lamp will come on, and auditorium lights will go into 1/2 level. Sound will pulse from non-sync to mono.
- 3. Apply an <u>outboard cue</u> to the film. When this cue is applied, auditorium lights will go to the full dim level. Sound will pulse to stereo, if selected. If you wish, at this time, to rotate the turret, leave the selector switch in the "scope" position. At this time, the douser will close, the turret will rotate to the scope position and the douser will reopen. This douser close time period can be adjusted by varying trim pot VR-1 on the Rentec timer board. (Located in the termination cavity.)
- 4. Application of a <u>cross-cue</u> (center cue when using a proximity detector) to the film will bring the auditorium lights back up to 1/2 level.
- 5. At the end of show, application of an <u>inboard cue</u> will close the douser, turn off exciter lamp, change sound to non-sync, bring all lights up full, and if the selector switch is in the "turret activate" position, a turret rotation will occur automatically. If you do not desire a turret/masking change at this time, leave the selector switch in the "turret defeat" position.
- 6. Film will run out, and projector stops, end of show



#### **AUTOMATION MANUAL ADDENDUM #2**

As of August 9, 1991 (Willoughby Hills, OH), all Cinemark consoles will contain Exhaust Blower Timer Delay Circuit. Ref. Schematic B-1003754.

As of October 6, 1992, the Interlock Assembly was changed to P/N 613-0021-D. The instructions in this material reflect that change in Section 2.2.9.

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#### **SECTION 1 - DESCRIPTION OF CONTROLS**

#### 1.1 CONTROL PANEL

#### 1.1.1 POWER Switch

(Only found on wall mount and 19" rack mount automations). This switch is used to turn power on and off.

#### 1.1.2 START Switch

Momentary switch used to start the automation.

#### 1.1.3 STOP Switch

Momentary switch used to stop the automation.

#### 1.1.4 READY Light

This light is on when the fail safe is in "UP" position.

#### 1.1.5 LOAD Light

This light is on when the fail safe has dropped out - Unit will not run when the fail safe is in **"DOWN"** position.

#### NOTE

When both green (READY) and yellow (LOAD) lights are on, it means that the fail safe "DEFEAT" switch is on.

#### 1.1.6 DOUSER Switch

This switch is in the "CENTER" position. When used, it will manually open or close the douser.

#### NOTE

Automations with Cinemeccanica Projectors - this switch does not incorporate a "CENTER" position and is normally left in the "CLOSED" position.

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#### 1.1.7 INTERMISSION/SPARE CUE SWITCH

This switch is left in the "NORMAL" position unless running "half-lights". The "SPARE CUE" position allows a "OUTBOARD CUE" to be used. The "SPARE CUE" position is also used when in interlock if an interlock module is installed. The "INTERMISSION" position is used when an intermission is desired in the feature. An "OUTBOARD" cue will close the douser and stop the projector when in the "INTERMISSION" mode.

#### 1.1.8 DEFEAT/FAIL SAFE SWITCH

This switch is also left in the "NORMAL" position unless the system is equipped with an interlock module. When unit is used in interlock, this switch is placed in the "SYNC" position ("FAIL SAFE" on older units). When the fail safe is to be bypassed, place the switch in the "DEFEAT" position. This position is generally an emergency position.

The unit would be placed in the "DEFEAT" position to finish the show or until the film handling problem can be cured.

#### NOTE

When in "DEFEAT" position, both green (READY) and yellow (LOAD) lights will be on.

#### CAUTION

If the system must be operated in the "DEFEAT" mode, it is best that the operator stand by to watch for film accumulation and be able to manually shut down the system at the end of the show. Causes for the fail safe "drop out" should be corrected as soon as possible. Do not test system in the "DEFEAT" mode. Douser will not operate properly.

#### 1.1.9 MASKING SWITCH

Manually operates side electric masking if theater is so equipped. "FLAT" is for flat pictures and "SCOPE" is for scope pictures.

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#### 1.1.10 CURTAIN SWITCH

Manually operates side electric masking if theater is so equipped.

#### 1.1.11 LIGHT SWITCHES

Used to pulse the dimmer controller if theater is equipped with such system. The second switch is used to pulse a separate circuit if installed.

#### 1.1.12 MANUAL CUE SWITCH

"INBOARD" is used to manually the inboard cue - "OUTBOARD" manually operates the outboard cue.

#### 1.1.13 EXCITER LAMP SWITCH

Normally, this switch is left in the "**OFF**" position and is operated automatically from the automation. Only turn on if testing sound without the automation turned on, or if exciter relay fails to function properly.

#### 1.1.14 PROJECTOR MOTOR SWITCH

This switch is also normally left in the "**OFF**" position during operation. The automation will control the operation of the projector during normal use. The **PROJECTOR MOTOR** Switch has an "**ON**" position which enables the projector to be run separately of the automation controls.

#### WALL MOUNT AND 19" AUTOMATION ONLY

#### 1.1.16 "LAMP ON" SWITCH

Manually turns lamphouse on and off. When using automation, this switch is left in the **"OFF"** position.

#### 1.1.17 DIMMER "LEVEL ADJUST" KNOBS

a. Left-hand control knob sets the "LOW" light level when the lights are in the "DIM" mode.

b. Right-hand control knob sets the "**HIGH**" light level when the lights are in the "**BRIGHT**" mode.



c. Right-hand Control knob. When using half-lights, set the "HALF-LIGHT" level and not the "BRIGHT" level. "BRIGHT" level is adjusted from the "STAGE BRIGHT" pot on the control board.

NOTE: This only applies to "half-light" systems.



#### SECTION 2 - OPERATION

#### 2.1 NORMAL OPERATION

No interlock, no intermission, no spare cue.

- 2.1.1 Place INTERMISSION/SPARE CUE Switch and DEFEAT/FAIL SAFE Switch in "NORMAL" position.
- 2.1.2 Place or make sure that projector motor, exciter lamp and lamphouse are in the "OFF" position.

#### NOTE

On SX-2000 consoles, the lamphouse switch (orange, push button) is located on the lamp control panel. On the L-2000 series, there is a switch on the 19" rack automation and the lamphouse control panel. They must both be in the "OFF" position.

- 2.1.3 Add an "INBOARD" (opposite sound track) cue tape to the film at the location desired to end the show. See Figure 1.
- 2.1.4 Thread film through projector and fail safe. See Figure 2.
- 2.1.5 Take up film until "READY" (green) light comes on.
- 2.1.6 On 19" and wall mount automations, make sure "POWER" Switch is on at this time.
- 2.1.7 System is now ready for operation. All that is required is to press the "START" (green) button.











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#### 2.2.2 OPTION

Curtains open at 5 to 7 second pulse and close at cross cue. The cross cue for curtain must be on the non-emulsion side (facing lens) of the film.

#### 2.2.3 Interlock (running machines together) (Revised May 8, 1992)

#### (For use with Interlock Assembly P/N 613-0021-D)

If interlock is installed in the system, it can be run with several other projection systems running one feature. This will require guidance rollers, film accumulators and other interface hardware. No half-light feature is available when in interlock mode.

- 2.2.3.1 Operation/Set-Up Place INTERMISSION/SPARE CUE Switch in "spare cue" position.
- 2.2.3.2 Place DEFEAT/FAIL SAFE Switch in "fail safe" position.
- 2.2.3.3 Put an outboard cue at start of show.
- **2.2.3.4** Thread film through projectors. Outboard cue <u>must</u> be past the fail safe on first machine. Sequence of operation, when in interlock position, is as follows:
  - Push START button, Projector #1
     Projectors #1, 2, 3, etc. start
     All receive a "douser close" pulse
     All lamps start
  - b. 5 to 7 seconds after start: Projector #1
     Douser open
     Exciter on
     Non-sync off - lights down
  - Outboard cue through Projector #2 and on Douser open
     Exciter on
     Non-sync off
     Lights down

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- Inboard cue all machines
   Douser closed
   Exciter off
   Non-sync on
   Lights up
- e. End of Film fail safe drops out Projector #1 shut down Projector #2 shut down Projector #3 shut down, etc.

#### 2.2.4 "House Lights Up Early" Feature

In normal operation, if desired, an "outboard" cue can be used to bring the house lights up early. **INTERMISSION/SPARE CUE** Switch must be in "spare cue" position. Not used if system has half-light feature.

2.2.5 Intermission Function

In normal operation, if an intermission is desired during the feature, an extra "OUTBOARD" cue will be required at the desired place on the film.

2.2.5.1 Place the INTERMISSION/SPARE CUE Switch in the "INTERMISSION" position. When the system is cued for intermission, the projector will stop, the douser will close and the exciter will turn off. At the end of the intermission, push the START button - at the end of the show, a normal "end of show" will occur.



#### SECTION 3 - MAINTENANCE

The only real maintenance required for the automation is in the fail safe area. The fail safe should be kept clean at all times. A good grade of electrical contact cleaner should be used on the contact rollers at least once a week. Cue tape on film should be inspected at least once a week for cracking and peeling. Remember the contact rollers and the cue tape are the two key elements to the operation of the automation.

#### Do not oil bearings

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#### <u>FM-35</u>

#### Film Monitoring System

This is a self-contained unit, except for the power supply, which consists of a three (3) position proximity sensor type cue detector, film presence (i.e. film break) sensor and a film motion sensor. The unit is furnished with an eleven (11) foot long multi-conductor cable with a connector on the detector assembly end. Also furnished is a mounting bracket which sandwiches in between the take-up arm and the bottom of the sound head. (Special mounting arrangements may have to be devised for projectors not made in the United States).

The unit requires from twelve (12) to thirty (30) volts D. C. from the host to the automation system. If the automation system is A. C. operated, it takes only a bridge rectifier and a single filter capacitor to get the D. C. If the input is twelve (12) volts, use a twenty-five (25) volt capacitor in the 470 to 1000 mfd. range. For twenty-four (24) volts, use a fifty (50) volt capacitor in the 33 to 100 mfd. range. Maximum momentary current drain is 400 ma.

The cue detectors are for inboard, center, and/or outboard cues. For purposes of standardization and customer convenience, all units are equipped with all three (3) detectors. These are of the "ECKO" (Eddy Current Killed Oscillation) proximity type and will respond to small foil cue patches placed on the film. The recommended size on the patch is approximately 3/16" to 1/4" square. Please see the attached illustration for placement. Note the center cue is in the center of the film, not the center of the picture area. Should you have trouble with these small cues rubbing off, they may be sealed in by overlaying them with a piece of clear splicing tape, or in some cases, they may be installed on a splice line under the tape.

The film presence (film break) detector is actually two (2) detectors scanning the two (2) edges of the film. This is done with infrared light and is therefore not visible to the eye. If there is film over the top of the black roller and seated in the normal film plane, it will be seen by the detector and a green L.E.D. will light and the relay will close. The film motion detector is similar to the presence detector except that it is watching the two (2) rows of perforations. The film must be up to about half speed before its motion will be sensed.

All outputs are relay contacts rated at 500 ma. The three (3) cue detector outputs are "Make" (Form "A") contacts, while the film presence and film motion detectors are "Break/Make" (Form "C") contacts. The contact identification on the cable color chart is for the unthreaded condition, i.e., no film in the projector. The cue detector output

FM-35 - Cont.

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pulses are stretched to about 1/3 second (350 to 400 millisecond). Should a longer pulse be required, successive cues can be placed on the film at six (6) frame intervals. Each cue will restart the 1/3 second interval.

Little or no maintenance is required other than an occasional check to see that the optical assemblies have not picked up too much dust or lint. A cotton swab, moistened with alcohol, should clean them quickly and easily. It is also a good idea to clean the rollers from time to time in order to prevent dirt build-up in the corners of the roller grooves.

#### **CUE PLACEMENT**



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#### Suggested Method for Cleaning the FM-35 Optical Sensors

The Film Presence and Film Motion detectors operate by shining infrared light on the film and deleting the light when it is reflected back. If the L.E.D.'s, from which the light comes, or the phototransistors which receive the reflected light, get too dirty, the detectors can't work. In a normal cleanly maintained projector, it usually is sufficient to keep the sensors clean by occasionally running a soft dry cloth between the top of the large black roller and the sensor assembly above it. This will dust off the little lenses in the sensors.

If you find an excess amount of dust or powder accumulating, it would be wise to check the film path through the unit. If the unit is not aligned to the film entry and exit paths, the edges of the film will drag on the roller flanges and tiny bits of film material and/or wax will be scraped off, which may then be deposited on the optical sensors.

Another thing to watch for is too much oil. If this is combined with the dust problem, a sort of "mud" is produced which may require stronger cleaning measures.

If the soft dry cloth doesn't do the job, the next thing to try is a cotton swab loaded with alcohol. You can flush things out a bit better if you first fuzz up the end of the swab so it is a bigger ball. This job is easier if you first remove the screw and washer from the end of the large black roller shaft and pull the roller off and out of the way. After wiping away the dirt, it is best if you can blow things out either with an air compressor or from one of the packaged "blow-er off-ers".

Lacquer thinner is another solvent which can be used judiciously, but stay away from the more exotic solvents such as acetone, MEK, or those things which have "chloro" or "fluoro" in their names. These (and others) have the potential of attacking the plastics in the sensor assemblies, which can ruin them and require their replacement.

If none of the above techniques is strong enough, it is time for a real bath. Remove the large black roller as outlined above; then remove the two small Phillips head screws beneath the optical assembly. This assembly is plugged into the main circuit board, and can be removed simply by pulling it straight out.

Turn the optical assembly upside down and spray the sensor area with one of the stronger household liquid cleaners, such as "Formula 409", "Texize" or the like. Point the assembly down so the detergent collects around the bottom of the sensor (where most of the dirt is located) and allow the detergent to work for a minute or so. If one application is not enough to get everything clean, repeat the process. When you are satisfied, dry as much as you can with towels, compressed air or both.

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If you have a continuing dirt problem, there is something you may want to try. Clean the assembly thoroughly, dry well, and lay a piece of clear splicing tape over the ends of the optical sensors. With a sharp blade, carefully trim off the excess, and the unit should be easier to keep clean. You will have to watch to be sure dirt doesn't get inside of the sensors and be held there by the adhesive on the tape.



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#### CFS/RENTEC PRODUCT WARRANTY One Year Limited Warranty

CFS/Rentec, Inc. warrants its products against defects in workmanship and materials under normal use for a period of one year from the date of purchase by the original purchaser. This warranty is superseded by manufacturer's warranties for parts manufactured elsewhere and used in CFS/Rentec, Inc.'s products. During the warranty period, any part that is determined by an authorized technician to be defective in material or workmanship and returned to the site of the manufacture (shipping costs prepaid) will be as the exclusive remedy, repaired or replaced at CFS/Rentec, Inc.'s option.

- Responsibility for the conveyance of the product to the manufacturer is that of the purchaser. If the product is damaged in transit, the purchaser must file the claim with the carrier.
- CFS/Rentec, Inc. will make a good faith effort for prompt repair, replacement or other adjustment with respect to any product that proves to be defective within the warranty period.

#### EXCLUSIONS

The warranty on products manufactured by CFS/Rentec, Inc. will not apply to defects resulting from:

- Improper or inadequate maintenance by the customer.
- Unauthorized modifications or misuse.
- Operation outside of the environmental specifications for the product.
- Improper site preparation and maintenance.
- Use of products from other manufacturers in conjunction with those purchased from CFS/Rentec, Inc.
- The warranty period begins either on the date of customer purchase or, if the purchase price includes installation by an authorized technician on the date of installation.
- Any liability for consequential and incidental damages is expressly disclaimed. CFS/Rentec, Inc.'s liability in all events is limited to, and shall not exceed the purchased price paid.
- Many countries, states and localities have codes and/or regulations governing sales, construction, installation and/or use of products for certain purposes, which may vary from those in neighboring areas. While CFS/Rentec, Inc.'s attempts to ensure that its products comply with such codes, it cannot guarantee compliance and cannot be responsible for how the product is installed or used. Before purchase and/or use of a product, please review the product application, national, state and local codes/regulations and be sure that the product, installation and use will comply with them.

#### CFS/RENTEC, INC. FIELD SERVICE AGREEMENT

For all equipment manufactured by CFS/Rentec, Inc. requiring on-site servicing:

For on-site evaluation and/or repair by an authorized technician, a labor fee of \$375.00 per day applies. The customer is also responsible for all associated travel and living expenses. If a part or parts are deemed to be defective by the authorized technician and warranted under the standard one-year warranty, then conditions stated in that warranty apply. If, however, the parts are not warranted under the standard warranty the customer is responsible for the purchase of the parts from CFS/Rentec, Inc. as well as the conveyance of the parts to the site.



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			2 11 24A0 1 10 31VA 1 9 63P1 1 8 35LT	132 501 U5 503	3-1000-200	HOLD SPRING POTENTIOMETER, POTENTIOMETER, LENS, PLASTIC, G	1 Meg (TRIM Pot) Reen	) 1 MEG			NOUSE NEWAR NOUSE	R K R	
			2 11 24A0 1 10 31VA 1 9 63P11 1 8 35LT 1 7 35LS	32 501 U5 503 026	502-0001-C	HOLD SPRING POTENTIOMETER, POTENTIOMETER, LENS, PLASTIC, G LAMP, INDICATOR,	1 Meg (trim pot) Reen Green	) 1 MEG			NOUSE NEWAR NOUSE NOUSE	R K R R	
			2 11 24A0 1 10 31VA 1 9 63P11 1 8 35LT 1 7 35LS	32 501 U5 503 026 8-50V470	502-0001-C	HOLD SPRING POTENTIOMETER, POTENTIOMETER, LENS, PLASTIC, G LAMP, INDICATOR, CAPACITOR, ELEC	1 Meg (TRIM Pot) Reen Green Irolitic	) 1 MEG			MOUSE NEWAR MOUSE MOUSE MOUSE	R K R R R	
			2 11 24A0 1 10 31VA 1 9 63PH 1 8 35LT 1 7 35LS 1 6 WE20 2 5 10PA 1 4 WY40	32           501           U5           503           026           88-50V470           342           XC24	502-0001-C	HOLD SPRING POTENTIOMETER, POTENTIOMETER, LENS, PLASTIC, G LAMP, INDICATOR,	1 Meg (TRIM Pot) Reen Green Irolitic	) 1 MEG			NOUSE NEWAR NOUSE NOUSE	R K R R R R	         
			2 11 24A0 1 10 31VA 1 9 63PH 1 8 35LT 1 7 35LS 1 6 WE20 2 5 10PA 1 4 MY40 2 3 PY14	32           501           U5           503           026           82-50V470           342           CC24	302-0001-C	HOLD SPRING POTENTIONETER, POTENTIONETER, LENS, PLASTIC, C LAMP, INDICATOR, CAPACITOR, ELEC SMITCH, PUSH BI RELYY, 4 PDT SOCKET, RELAY	1 Meg (TRIM Pot) Reen Green Irolitic	) 1 MEG			MOUSE NEWAR MOUSE MOUSE MOUSE MOUSE OWROM	R K	S-
			2 11 24A0 1 10 31VA 1 9 65P1 1 8 35LT 1 7 35LS 1 6 ME20 2 5 10PA 1 4 MY40 2 3 PY14 1 2 MY2X	32           501           U5           503           026           82-50V470           342           CC24	502-0001-C	HOLD SPRING POTENTIONETER, LENS, PLASTIC, G LAMP, INDICATOR, CAPACITOR, ELEC SMITCH, PLISH BR RELAY, 4 PDT SOCKET, RELAY RELAY, LATCHING	1 Meg (TRIM Pot) Reen Green Irolitic	) 1 MEG			MOUSE NEWAR MOUSE MOUSE MOUSE MOUSE OWRON OWRON OMRON	R	
			2 11 24A0 1 10 31VA 1 9 63P1 1 8 35UT 1 7 35LS 1 6 ME20 2 5 10PA 1 4 MY40 2 3 PY14 1 2 MY2X 1 1 TRS2	332           501           503           026           88-50V470           342           0c24           C-DC24           258C		HOLD SPRING POTENTIONETER, POTENTIONETER, LENS, PLASTIC, C LAMP, INDICATOR, CAPACITOR, ELEC SMITCH, PUSH BI RELYY, 4 PDT SOCKET, RELAY	1 Meg (TRIM Pot) Reen Green Irolitic	) 1 MEG			MOUSE NEWAR MOUSE MOUSE MOUSE MOUSE OWROM	R	S
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			2 11 24A0 1 10 31VAI 1 9 63P11 1 8 35UT 1 7 35L51 1 6 ME20 2 5 10PA 1 4 MY40 2 3 PY14 1 2 MY2K 1 1 TRS2 60°, FTM, FXM, FXM, FXM, FXM, FXM, FXM, FXM, FX	332 501 503 503 503 503 503 503 503 503	rol ng. 1.5M-1982	HOLD SPRING POTENTIONETER, POTENTIONETER, LENS, PLASTIC, C LAMP, NOCATOR, ELEC SWITCH, PUSH B RELAY, 4 PDT SOCKET, RELAY RELAY, LATCHING THER NONE	1 MEG (TRIM POT) REEN GREEN IROUTIC JITION	рголест М	OCEORTION UL TI-USE	MPL # 10001	KOUSE NEWAR MOUSE MOUSE MOUSE MOUSE OWROM OWROM INFITEC	R	S
			2 11 24A0 1 10 31VA 1 9 6591 1 8 35LT 1 7 35LS 1 6 ME20 2 5 10PA 1 4 MY40 2 3 PY14 1 2 MY2X 1 1 IRS2 97, FEN 85, FEN 9 KET DRAM	332 501 503 503 503 503 503 503 503 503	rol ng. 1.5M-1982	HOLD SPRING POTENTIONETER, POTENTIONETER, LENS, PLASTIC, C LAMP, NOCATOR, ELEC SWITCH, PUSH B RELAY, 4 PDT SOCKET, RELAY RELAY, LATCHING THER NONE	1 MEG (TRIM POT) REEN GREEN IROUTIC JITION	рголест М	ULTI-USE		KOUSE NEWAR MOUSE MOUSE MOUSE MOUSE OWROM OWROM INFITEC	R R R R R R I I I I I I I I I I I I I	
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NOTES: UNLESS OTHERWISE SPECIFIED do not scale dwg Place drawing no. in D/N		MULTI-USE FINA ASST.	2 11 24A0 1 0 31VA 1 9 63P1 1 8 35LT 1 7 35LS 1 6 ME20 2 5 10PA 1 4 MY20 2 5 10PA 1 4 MY20 2 3 PY14 1 2 MY2X 1 1 TRS2 8 CONCENT NIERPRET DRAM NIERPRET DRAM 1 PROVENT 4 START 1 PROVENT 1 PROV	332 601 US 503 503 503 503 503 503 503 503	ROL NO. 1.54-1982 SCALE 1.005 14.005 1.005 14.025 80704 (Rost 805-80 805-80 1.005	HOLD SPRING           POTENTIONETER,           POTENTIONETER,           POTENTIONETER,           LENS, PLASTIC, C           LAW, NDCATOR,           LEC, MICH, PUSH B           SMICH, PUSH B           RELAY, 4 POT           SOCKET, RELAY, 4 NOCHTING           TIMER           NONE           SCC*           OUMENTING           VONE           SCC*           OUMENTING           POTONO           SOCKET, RELAY, 4 POT           SOCKET, RELAY, 4 NOCHTING           DUMER           NONE           SCC*           OUMENTING           POTONO           APPROCO           APPROCO	1 MEG (TRIM POT) REEN GREEN IROUTIC JITTON DATE SCIU/31/89	project M dig. title SHOV L-20	ULTI-USE ASSEME V START TI 00/SX-200	ily, Mer Board Do Console	МОИЗЕ NEWAR МОИЗЕ МОИЗЕ МОИЗЕ ОМКОМ О	R         R           R         R           R         R           R         R           I         I           I         I           I         III           IIII         IIII           IIII         IIII           IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	
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					POS. RIACON CONN.	322	
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		1 14 729-0062 1 13 729-0061 4 12 3 11 735-004 2 10 735-001 1 9 729-0034	31017104 31007104 HB2-DC24V 64-394-51-6-024 SSB4M13S	CONNECTOR, FEMALE, 4 POS. JUMPER RELAY, HB RELAY, LATCHING CONNECTOR, MALE (PINS), 13 POS.		RIACON AROMAT OMRON BUCHANNON	SE,SC
		1 14 729-0062 1 13 729-0061 4 12 3 11 735-0004 2 10 735-0011 1 9 729-0034 1 8 729-003	31017104 31007104 HB2-DC24V 66-399-51-5-024 SS84P13S	CONNECTOR, FEMALE, 4 POS. JUMPER RELAY, HB RELAY, LATCHING CONNECTOR, MALE (PINS), 13 POS. CONNECTOR, FEMALE, 13 POS.		RIACON AROMAT OMRON BUCHANNON BUCHANNON	SE,SC SB,
		1 14 729-0062 1 13 729-0061 4 12 3 11 735-0004 2 10 735-0011 1 9 729-0034 1 8 729-0034 1 7 793-0002	31017104 31007104 HB2-DC24V 64-239-51-45-624 SSB4M13S SSB4M13S 226-60-1040	CONNECTOR, FEMALE, 4 POS. JUMPER RELAY, HB RELAY, LATCHING CONNECTOR, MALE (PINS), 13 POS. CONNECTOR, FEMALE, 13 POS. HEADER, 4 POS.		RIACON AROMAT OMRON BUCHANNON BUCHANNON ELEC-HDW	SE,SC SB,
		1 14 729-0062 1 13 729-0061 4 12 3 11 735-0014 2 10 735-0011 1 9 729-0034 1 8 729-0033 1 7 793-0022 1 6 793-0023	31017104 31007104 HB2-DC24V 68-296-3-15-624 SSB4M13S SSB4P13S 26-60-1040 26-60-1060	CONNECTOR, FEMALE, 4 POS. JUMPER RELAY, HB RELAY, LATCHING CONNECTOR, MALE (PINS), 13 POS. CONNECTOR, FEMALE, 13 POS. HEADER, 4 POS. HEADER, 6 POS.		RIACON AROMAT OMRON BUCHANNON BUCHANNON ELEC-HDW ELEC-HDW	SE,SC SB,
		1 14 729-0062 1 13 729-0061 4 12 3 11 735-0004 2 10 735-0011 1 9 729-0034 1 8 729-0034 1 7 793-0002	31017104 31007104 HB2-DC24V 64-239-51-45-624 SSB4M13S SSB4M13S 226-60-1040	CONNECTOR, FEMALE, 4 POS. JUMPER RELAY, HB RELAY, LATCHING CONNECTOR, MALE (PINS), 13 POS. CONNECTOR, FEMALE, 13 POS. HEADER, 4 POS.		RIACON AROMAT OMRON BUCHANNON BUCHANNON ELEC-HDW ELEC-HDW MOUSER	SE,SC SB,
		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	31017104 31007104 HB2-DC24V 66-329-51-5-624 SSB4M135 SSB4P135 26-60-1040 26-60-1060 1510016	CONNECTOR, FEMALÉ, 4 POS. JUMPER RELAY, HB RELAY, LATCHING CONNECTOR, MALE (PINS), 13 POS. CONNECTOR, FEMALE, 13 POS. HEADER, 4 POS. HEADER, 6 POS. SOCKET, IC, 16 PIN		RIACON AROMAT OMRON BUCHANNON BUCHANNON ELEC-HDW ELEC-HDW	SE,SC SB,
		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	31017104 31007104 HB2-DC24V 64-32#S-3-45-624 SSB4M13S SSB4P13S 26-60-1040 26-60-1060 151C016 IN4006	CONNECTOR, FEMALE, 4 POS. JUMPER RELAY, HB RELAY, LATCHING CONNECTOR, MALE (PINS), 13 POS. CONNECTOR, FEMALE, 13 POS. HEADER, 6 POS. HEADER, 6 POS. SOCKET, IC, 16 PIN DIODE, (IN4000 SERIES)		RIACON AROMAT OMRON BUCHANNON BUCHANNON ELEC-HOW ELEC-HOW MOUSER MOUSER	SE,SC SB, D
1 MATCHING PLUG FOR 4 POS HEADER IS	· ·	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	31017104 31007104 HB2-DC24V 66-329-51-5-624 SSB4M135 SSB4P135 26-60-1040 26-60-1060 1510016	CONNECTOR, FEMALÉ, 4 POS. JUMPER RELAY, HB RELAY, LATCHING CONNECTOR, MALE (PINS), 13 POS. CONNECTOR, FEMALE, 13 POS. HEADER, 4 POS. HEADER, 6 POS. SOCKET, IC, 16 PIN		RIACON AROMAT OMRON BUCHANNON BUCHANNON ELEC-HDW ELEC-HDW MOUSER	SE,SO SB, J
1. MATCHING PLUG FOR 4 POS. HEADER IS MOUSER #09-50-3041 (793-0001)	· ·	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	31017104 31007104 HB2-DC24V 64-32#S-3-45-624 SSB4M13S SSB4P13S 26-60-1040 26-60-1060 151C016 IN4006	CONNECTOR, FEMALE, 4 POS. JUMPER RELAY, HB RELAY, LATCHING CONNECTOR, MALE (PINS), 13 POS. CONNECTOR, FEMALE, 13 POS. HEADER, 6 POS. HEADER, 6 POS. SOCKET, IC, 16 PIN DIODE, (IN4000 SERIES)		RIACON AROMAT OMRON BUCHANNON BUCHANNON ELEC-HOW ELEC-HOW MOUSER MOUSER	SE,SC SB, D1
MOUSER #09-50-3041 (793-0001) AND PINS #08-50-0106.		1         14         729-0062           1         13         729-0061           4         12         1           3         11         735-0004           2         10         735-0011           1         9         729-0033           1         7         793-0022           1         6         793-0023           5         5         728-0007           4         4         799-0015           3         2         1           1         635-0029         85           8         704         704	31017104 31007104 HB2-DC24V 64-399-51-15-024 SSB4M13S 26-60-1040 26-60-1040 26-60-1060 151C016 IN4006	CONNECTOR, FEMALE, 4 POS. JUMPER RELAY, LATCHING CONNECTOR, MALE (PINS), 13 POS. CONNECTOR, FEMALE, 13 POS. HEADER, 4 POS. HEADER, 4 POS. SOCKET, IC, 16 PIN DIODE, (IN4000 SERIES) BOARD, INTERLOCK		RIACON AROMAT OMRON BUCHANNON BUCHANNON ELEC-HDW ELEC-HDW MOUSER MOUSER CIRTECH	SE,SC SB, DI
MOUSER #09-50-3041 (793-0001) AND PINS #08-50-0106. MATCHING PLUG FOR 6 POS. HEADER IS		1         14         729-0062           1         13         729-0061           4         12         11         735-0004           2         10         735-0011         1         9         729-0033           1         1         9         729-0033         1         7         793-0002           1         6         793-0023         5         5         728-0007           4         4         799-0015         3         2         1         1         635-0029           PST, MOM         PART MOMBRE         PART MOMBRE         MMERPRET         DRAMING PER /	31017104 31007104 HB2-DC24V 6A-3V9-SI-U5-024 SSB4M13S SSB4P13S 26-60-1060 151C016 IN4006 IN4006 I000227 wstr parts ust NNS Y14.5M-1982 scale	CONNECTOR, FEMALE, 4 POS. JULPER RELAY, HB RELAY, LATCHING CONNECTOR, MALE (PINS), 13 POS. CONNECTOR, FEMALE, 13 POS. HEADER, 4 POS. HEADER, 4 POS. SOCKET, IC, 16 PIN DIODE, (IN4000 SERIES) BOARD, INTERLOCK		RIACON AROMAT OMRON BUCHANNON BUCHANNON ELEC-HDW ELEC-HDW MOUSER MOUSER CIRTECH www.acture DISK DISK	SE,SC SB, DI
MOUSER #09-50-3041 (793-0001) AND PINS #08-50-0106. MATCHING PLUC FOR 6 POS. HEADER IS MOUSER #09-50-3061 (793-0055).		1         14         729-0062           1         13         729-0061           4         12         11         735-0004           2         10         735-0011         9           1         19         729-0033         1           1         8         729-0033         1           1         7         793-0022         1         6           5         5         728-0007         4         4           2         1         1         635-0029         2           1         1         635-0029         #AT IUAGER         MIERPRET IORANIA PER /           WIERPRET REAMING PER /         © concomment         #AT WARKER         #EXEMPT         #AT IUAGER	31017104 31007104 HB2-DC24V 60-329-51-5-024 SS84P13S 26-60-1040 26-60-1060 26-60-1060 151C016 IN4006 1000227 wate parts ust WS 114.5M-1982 xet	CONNECTOR, FEMALE, 4 POS.           JUMPER           RELAY, HB           RELAY, LATCHING           CONNECTOR, MALE (PINS), 13 POS.           CONNECTOR, FEMALE, 13 POS.           HEADER, 4 POS.           HEADER, 4 POS.           SOCKET, IC, 16 PIN           DIODE, (IN4000 SERIES)           BOARD, INTERLOCK           MSSEPTON           667/1           STCT           DATE           PROJECT MUL           DIMENTERLOCK		RIACON AROMAT OMRON BUCHANNON BUCHANNON ELEC-HDW ELEC-HDW MOUSER MOUSER CIRTECH WWW.Kacturer DISM	SE,SC SB, D1-
MOUSER #09-50-3041 (793-0001) AND PINS #08-50-0106. MATCHING PLUG FOR 6 POS. HEADER IS MOUSER #09-50-3061 (793-0055). NOTES: UNLESS OTHERWISE SPECIFIED	5 5	1         14         729-0062           1         13         729-0061           4         12         1           3         11         735-0004           2         10         735-0011           1         9         729-0033           1         7         793-0023           5         5         728-0007           4         4         799-0015           3         2         1           1         635-0029         Price           Price         PAT MARKE         PAT MARKE           WHERPRET DRAWING PER /         MASS           © GODDITIONT         MASS	31017104 31007104 HB2-DC24V 64-39/-SI-6-024 SSB4M13S SSB4M13S SSB4M13S 26-60-1040 26-60-1060 151C016 IN4006 IN4006 IN4006 IN51C016 I	CONNECTOR, FEMALÉ, 4 POS. JUMPER RELAY, HB RELAY, LATCHING CONNECTOR, MALE (PINS), 13 POS. CONNECTOR, FEMALE, 13 POS. HEADER, 4 POS. HEADER, 6 POS. SOCKET, IC, 16 PIN DIODE, (IN4000 SERIES) BOARD, INTERLOCK BOARD, INTERLOCK	ASSEMBLY,	RIACON AROMAT OMRON BUCHANNON BUCHANNON ELEC-HDW ELEC-HDW MOUSER MOUSER CIRTECH www.acture DISK DISK	SE,SC SB, D1-
MOUSER #09-50-3041 (793-0001) AND PINS #08-50-0106. MATCHING PLUC FOR 6 POS. HEADER IS MOUSER #09-50-3061 (793-0055).	5 MCX1 ASY, FPUL, AS	1         14         729-0062           1         13         729-0061           4         12         3         11           3         11         735-0004           2         10         735-001           1         9         729-0034           1         8         729-0033           1         7         793-0002           1         6         793-0023           5         5         728-0007           4         4         799-0015           3         -         2           1         1         635-0029           857         90         PART ModRE           90         PART MARKET RAWING PER L         PART MARKET PARAMING PER L           91         90         91000         91000           1         10         6305-0029         91000           90         PART MARKET RAWING PER L         910000           1         910000         910000           1         910000         910000           910000         910000         910000           910000         910000         910000           910000         910000         9	31017104 31007104 HB2-DC24V 60-329-51-5-024 SS84P13S 26-60-1040 26-60-1060 26-60-1060 151C016 IN4006 1000227 wate parts ust WS 114.5M-1982 xet	CONNECTOR, FEMALE, 4 POS. JUMPER RELAY, LATCHING CONNECTOR, MALE (PINS), 13 POS. CONNECTOR, MALE (PINS), 13 POS. CONNECTOR, FEMALE, 13 POS. HEADER, 4 POS. HEADER, 6 POS. SOCKET, IC, 16 PIN DIODE, (IN4000 SERIES) BOARD, INTERLOCK BOARD, INTERLOCK COMMENSION BOARD, INTERLOCK COMMENSION BOARD, INTERLOCK COMMENSION BOARD, INTERLOCK COMMENSION		RIACON AROMAT OMRON BUCHANNON BUCHANNON ELEC-HDW ELEC-HDW MOUSER MOUSER CIRTECH UNDER DISK DISK DISK DISK DISK DISK DISK DISK	SE,SC SB, D1-
MOUSER #09-50-3041 (793-0001) AND PINS #08-50-0106. MATCHING PLUG FOR 6 POS. HEADER IS MOUSER #09-50-3061 (793-0055). NOTES: UNLESS OTHERWISE SPECIFIED	5 5	1         14         729-0062           1         13         729-0061           4         12         3         11           3         11         735-0004           2         10         735-001           1         9         729-0034           1         8         729-0033           1         7         793-0002           1         6         793-0023           5         5         728-0007           4         4         799-0015           3         -         2           1         1         635-0029           857         90         PART ModRE           90         PART MARKET RAWING PER L         PART MARKET PARAMING PER L           91         90         91000         91000           1         10         6305-0029         91000           90         PART MARKET RAWING PER L         910000           1         910000         910000           1         910000         910000           910000         910000         910000           910000         910000         910000           910000         910000         9	31017104 31007104 HB2-DC24V 64-399-51-6-024 SSB4M13S 26-60-1040 26-60-1040 26-60-1060 151C016 11N4006 1000227 wster PAATS ust WS 114.5M-1982 SCALE xs xm Moto 1000227 wster PAATS ust 1000227 wster PAATS ust 00051±1/11 bat Mat does the page	CONNECTOR, FEMALÉ, 4 POS. JUMPER RELAY, HB RELAY, LATCHING CONNECTOR, MALE (PINS), 13 POS. CONNECTOR, FEMALE, 13 POS. HEADER, 4 POS. HEADER, 6 POS. SOCKET, IC, 16 PIN DIODE, (IN4000 SERIES) BOARD, INTERLOCK BOARD, INTERLOCK	ASSEMBLY,	RIACON AROMAT OMRON BUCHANNON ELEC-HOW ELEC-HOW CIRTECH DISK DISK DISK DISK DISK DISK DISK DISK	SF,SC SB, D1









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