

USERGUIDE
IMB-104-394

Central Loader Control

BASIC

Version 1.0



WARNING - Reliance on this Manual Could Result in Severe Bodily Injury or Death!

This manual is out-of-date and is provided only for its technical information, data and capacities. Portions of this manual detailing procedures or precautions in the operation, inspection, maintenance and repair of the product forming the subject matter of this manual may be inadequate, inaccurate, and/or incomplete and cannot be used, followed, or relied upon. Contact Conair at info@conairgroup.com or 1-800-654-6661 for more current information, warnings, and materials about more recent product manuals containing warnings, information, precautions, and procedures that may be more adequate than those contained in this out-of-date manual.

**TABLE
OF
CONTENTS**

TABLE OF CONTENTS

**SENTRAL LOADER CONTROL
BASIC SYSTEM
VERSION 1.0**

SECTION 1	
	SYSTEM OVERVIEW PAGE 1
SECTION 2	
	CONTROL FEATURES PAGE 3
SECTION 3	
	SEQUENCE OF OPERATION PAGE 4
SECTION 4	
	OPERATOR FUNCTIONS PAGE 5
SECTION 5	
	SETUP PAGE 12
SECTION 6	
	INSTALLATION PAGE 16
SECTION 7	
	LIST OF CONAIR DRAWINGS PAGE 17
SECTION 8	
	DRAWINGS PAGE 25

SYSTEM OVERVIEW

SYSTEM OVERVIEW

The system is designed to control 10 loader stations fed by a system pump. The control comes equipped as standard with 24 VDC demand input and a 24 VAC vacuum valve output for each loader. One pump, 24 VDC overload input is supplied, and two 120 VAC outputs; one for the pump starter and the other for the alarm. The system looks at each loader station in sequence for a material demand. If the station has a demand and no other stations are loading, it will begin a load cycle. No other loader is permitted to load during this time. The station will load until the load time is reached, at which time they will begin an unload cycle. The next station with demand will then begin loading at this time. All load and unload times may be changed through the operator interface provided on the front panel. The LED status lights are included to provide a graphic display loader status. Operation of this interface will be discussed in a later section. Material alarms are incorporated in all loaders. An alarm acknowledge button is provided to silence all alarms.

Control

The system utilizes an Allen-Bradley SLC-500 30 I/O fixed programmable controller. Operator changes are accomplished through the front panel. The control requires 120 VAC power.

Material Alarms

A material alarm occurs on a loader if the loader has loaded more than five times without satisfying the demand sensor. This value may be changed with the interface. See Section 4, Page 12 for more details on changing data. When this alarm occurs, the alarm horn will sound and the enable light will begin to blink. To acknowledge an alarm, press the "Alarm" button, this will also silence the alarm. If the demand has not been satisfied in five additional loads, the audio portion of the alarm will again be enabled. The alarm is reset when the demand sensor is satisfied for 30 seconds or longer.

SECTION

1

SYSTEM OVERVIEW

Overload Fault

If the vacuum pump motor overload is tripped, the alarm horn will sound and the pump will no longer continue to operate, even if a piece of equipment demands a load. If this occurs, shut off all equipment to avoid cycling the starter while servicing and to prevent nuisance material alarms.

CONTROL FEATURES**CONTROL FEATURES**

1. Proven Allen-Bradley SLC-500 Fixed Controller.
2. 20 character 2-Line LCD display with push buttons used for operator input.
3. Loader and pump status represented with graphic LED status panel.
4. All loader settings changeable through operator interface.
5. Battery-backed computer memory.

SECTION

3

SEQUENCE OF OPERATION

SEQUENCE OF OPERATION

Insure that all power connections are properly made to and from the control panel. Turn on control power switch. Each loader has its own load timer. These values are set to five seconds at the factory. These values will need set during start-up, along with dump time and any option values being used. Once these values have been entered, they are retained in computer memory, even during loss of power. Also, each loader may be enabled or disabled individually through the operator interface. Reference Section 4, Page 5 on changing PLC data with the operator interface for further information.

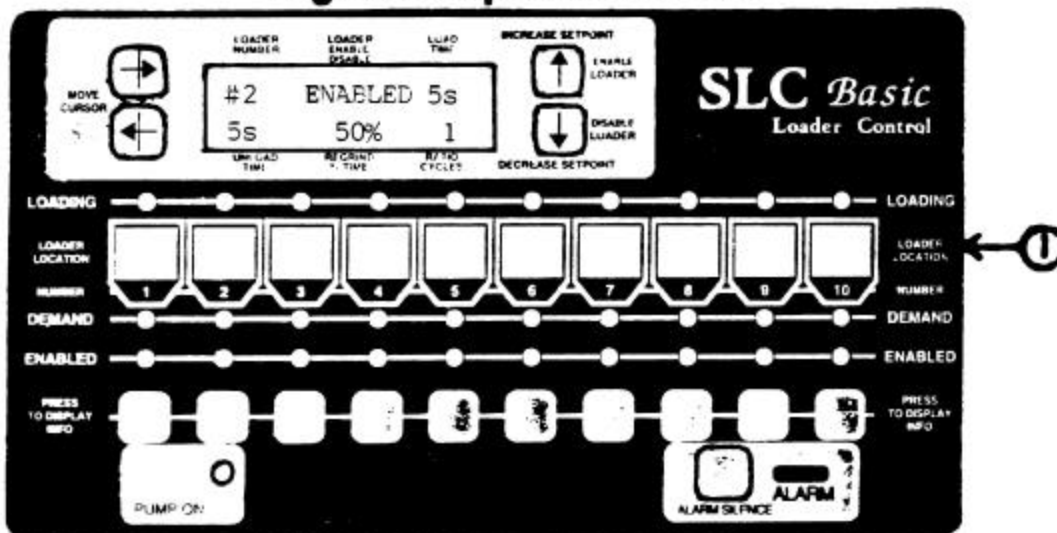
Once all loader information has been entered, you can enable the desired loaders by going to the loader screen and pressing the "Enable" button for each loader station desired. The green enable LED for the loader should now be energized. Demand LED's should be active for loaders needing material. The first loader in sequence enabled with a material demand will begin to load. Once that loader has finished loading, all other loaders enabled with a demand will load in sequence.

OPERATOR FUNCTIONS

INTRODUCTION

All operator entry for the system is accomplished via the operator interface shown in Figure 1. This 2-line display with push buttons is used to access and change all data stored in the PLC. A simple menu system allows changes to be made to any loader with just a few keystrokes. Included along with the actual interface, is the graphic LED panel indicating loader status. LED's for each loader include demand, loading, and enabled. LED's are also included to represent pump and alarm status. All LED's are on continuously when its corresponding function is energized.

Figure 1 - Operator Interface

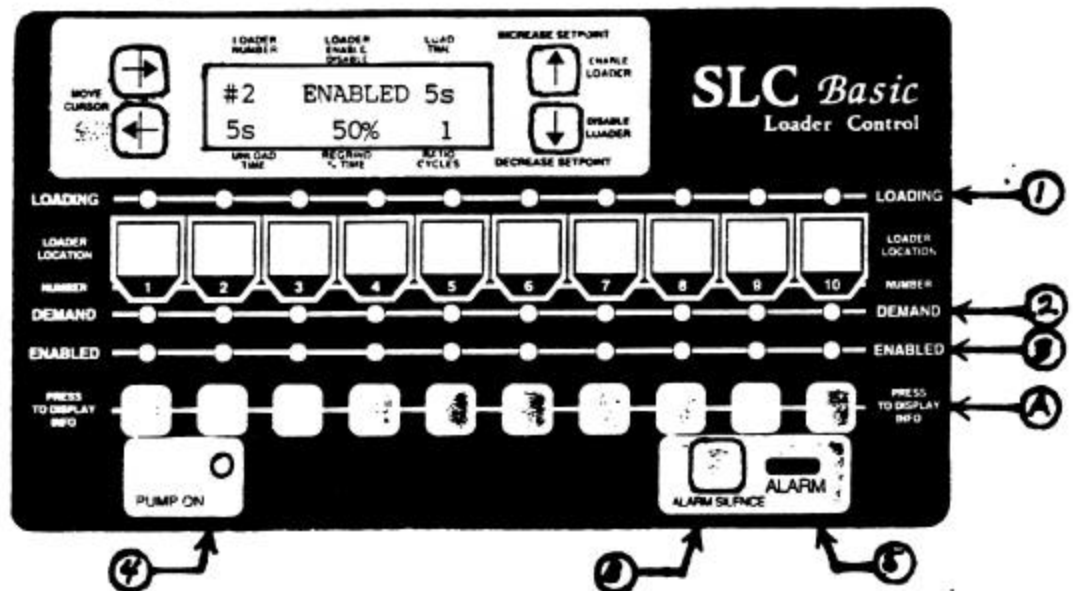


1 Loader Location

This is a customer-defined white identification label which can be used to write a description of each piece of equipment being supplied by the system. This label also contains the station number for each loader corresponding to the 2 Line LCD screens.

OPERATOR FUNCTIONS

Figure 2 - Operator Interface Functions



1. **Loading LED**
This LED will be on (Red) while a station is loading.
2. **Demand LED**
This LED will remain on (Red) while a station has demand.
3. **Enabled LED**
This LED will remain on continuously (Green) while a station is enabled if this LED blinks it is indicating a material alarm has occurred on that loader.
4. **Pump On LED**
This LED will remain on (Amber) whenever the pump is running. If a pump overload occurs, this LED will blink, indicating the pump overload has tripped. Refer to Page 11.

OPERATOR FUNCTIONS

5. Alarm LED's

This light will light indicating that an alarm condition is currently present.

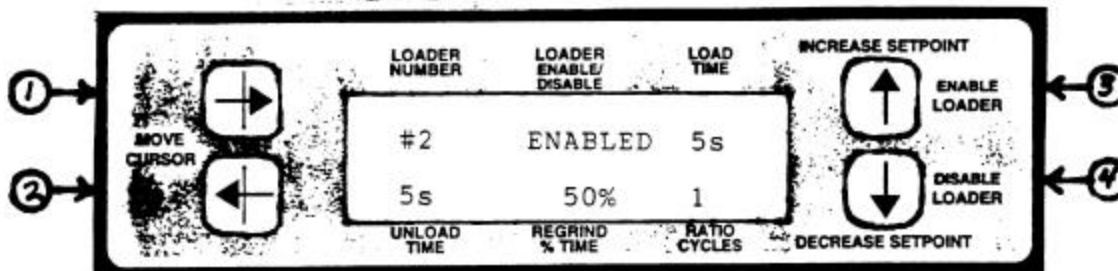
A. Press to Display Info Button

Loader selection is accomplished by pressing the button under the desired loader. This push button will cause the operator interface to display the loader screen corresponding to that station number.

B. Alarm Silence Button

Pressing this button will silence the alarm horn, but the alarm light will stay lit until the alarm condition is taken care of.

Figure 3 - Change Field Functions

**1. Move Cursor Right**

Moves the cursor to the right from one field to the next.

2. Move Cursor Left

Moves the cursor to the left from one field to the next. When the cursor is on "Loader Enable/Disable" and the left cursor is pressed, the cursor will move to Ratio Cycles.

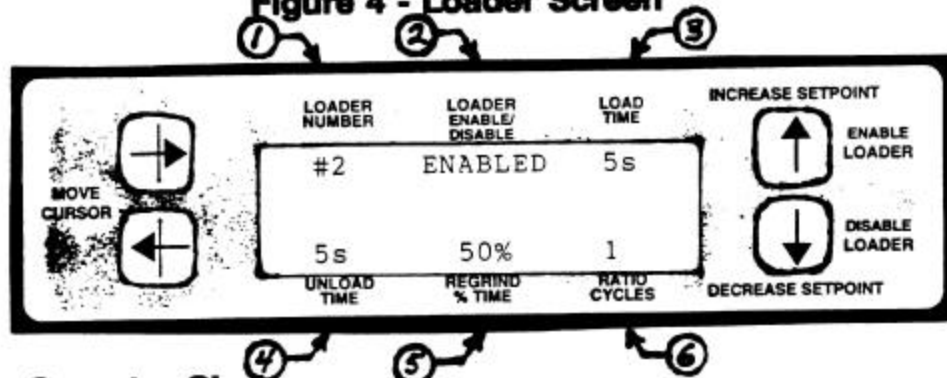
OPERATOR FUNCTIONS

3. Enable Loader/Increase Setpoint

When the cursor is on the "Loader Enable/Disable" field pressing this button enables the loader that is selected. When the cursor is on the other fields, the button will increase the set points.

4. Disable Loader/Decrease Setpoint

When the cursor is on the "Loader Enable/Disable" field pressing this button disables the loader that is selected. When the cursor is on the other fields, the button will decrease the set points.

Figure 4 - Loader Screen**Operator Changes**

Once the loader screen is displayed, changes may be made very easily. To change a value, use the cursor buttons to move to the desired field. Data is changed by either pressing the "Increase Setpoint" or "Decrease Setpoint" to the desired setting.

1. Loader Number

This field shows the number of the loader that the setpoints on the screen are for. To change to another loader screen press the "Press to Display Info" button for the desired loader. Whenever you select another loader, the cursor comes up on the "Loader Enable/Disable" field.

OPERATOR FUNCTIONS

2. Enable/Disable Loader

This field shows the state of the loader selected, enabled or disabled. the state may be changed by pressing the "Enable" loader or "Disable" loader buttons. The screen message will change to the appropriate state. In addition, the green LED on the LED status panel will change state. When enabled the LED will be illuminated.

3. Load TM - Range: 1-327

This field is used to set the time the vacuum valve will be energized, so material can be conveyed to the loader. To change the value, use the right "Move Cursor" arrow button to select this field, then use the "Increase Setpoint" or "Decrease Setpoint" buttons to enter the number desired for this loader.

4. Unload TM - Range: 2-327

This field is used to set the discharge time or pump off time for the selected loader. To change the value, use the right "Move Cursor" buttons select this field, then enter the number desired by using the "Decrease Setpoint" or the "Increase Setpoint" buttons.

5. % Re grind

Use this field to set the percentage of time that regrind material will be loaded during the load time. This function does not need to be set on loaders that do not have ratio valves. To change the value, use the "Move Cursor" buttons to select this field, then enter the number desired by using the "Decrease Setpoint" or the "Increase Setpoint" buttons.

OPERATOR FUNCTIONS**6. Ratio Cycl - Range: 1-5 (Calculated)**

Ratio Cycle is a value that is divided into the load time to create "Mini-Loads" which better distribute regrind material among the virgin pellets. One ratio cycle consists of one shot of virgin material and one shot of regrind material. This value is calculated by the program based on load time and will be updated automatically every load unless this function is disabled in the loader setup mode. Once disabled, to change the value, use the "Move Cursor" button to select this field, then enter the number desired.

Load Time

0 - 20 Seconds
21 - 30 Seconds
31 - 300 Seconds

Ratio Cycles

One
Two
Three

OPERATOR FUNCTIONS

Alarms

Two types of alarms are included in the unit. The first is a material alarm which is caused by a loader which loads more times than the preset "Mat Alm Chk", without satisfying the demand sensor. The "Mat Alm Chk" is preset to 5 in the setup screens. When this alarm occurs, the loader enabled green LED will blink on and off continuously until the loader is disabled or the alarm is corrected. A second alarm that can occur is caused by a pump overload condition. The pump running LED will blink on and off if the pump does has a tripped overload. In either of these two alarm situations, the alarm light on the LED status panel will light and the audio horn will sound. Pressing the "Alarm Silence" button will silence the audio portion of the alarm, but the light will stay lit until the alarm is taken care of, or the loader is disabled. If another alarm occurs or the loader again loads without satisfying demand, the audio portion of the alarm will be re-energized.

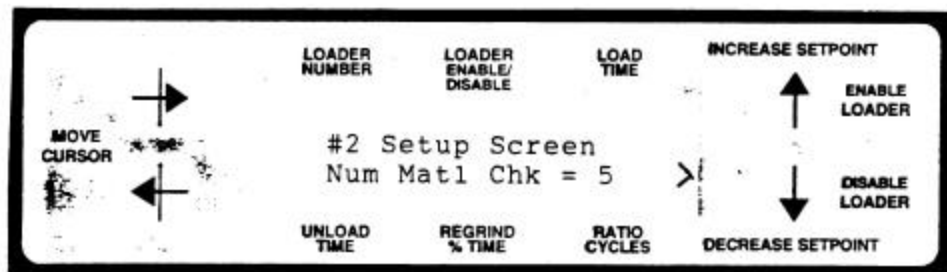
SECTION**5****SETUP**

The setup mode may be accessed pressing the "Alarm Silence" button and holding, while pressing the "Increase Setpoint" button. You will now be on the setup loader screen for the loader you had selected as shown in Figure 5. Example using loader #2. this controls setup screens are already preset before shipment.

SYSTEM OPERATION CAN BE DRAMATICALLY ALTERED WHEN CHANGING VALUES IN THIS SECTION OF SCREENS. AUTHORIZED PERSONNEL ONLY!!

Mat Alm Chk - Range: 1-20

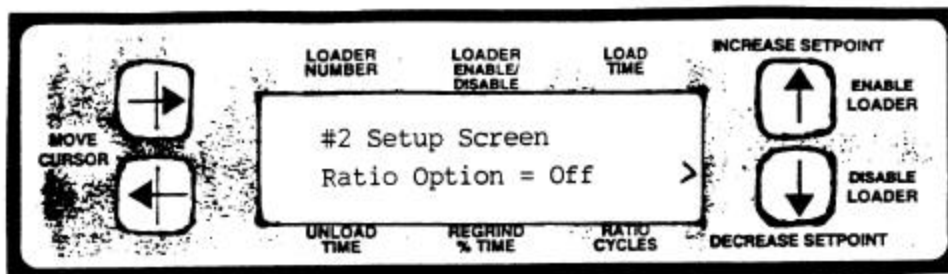
The material alarm check is the number of times that a loader will load without satisfying the demand switch before flagging an alarm condition.

Figure 5 - Setup Screen 1**Num Matl Chk - Range: 1-20**

This is the setup screen that you set how many times the loader will load before a material alarm. To change the setting of 5, first push the left "Move Cursor" button. This should move the cursor off the change screen arrow ">" over to the setpoint area which has a 5 in Figure 5. Now you can use the "Increase Setpoint" or "Decrease Setpoint" buttons to change to the desired setting. To move to the next setup screen for loader #2, push the right "Move Cursor" button to move the cursor to the change screen arrow ">". You can now push the right "Move Cursor" button to scroll to the next setup screen shown in Figure 6.

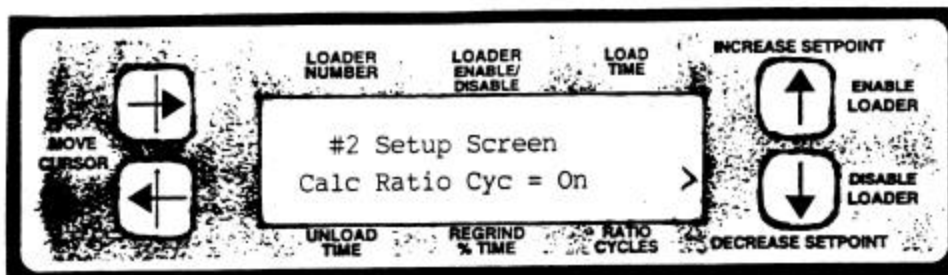
SETUP

Figure 6 - Setup Screen 2

**Ratio Option (On/Off)**

Turning this screen on will enable the ratio function. Off will disable the ratio function. To change the setting, first push the left "Move Cursor" button. This should move the cursor to the setpoint area which shows OFF in Figure 6. Now use the "Enable Loader" button to turn this option ON at loader #2. Use the "Disable Loader" to turn this option off.

Figure 7 - Setup Screen 3



SETUP

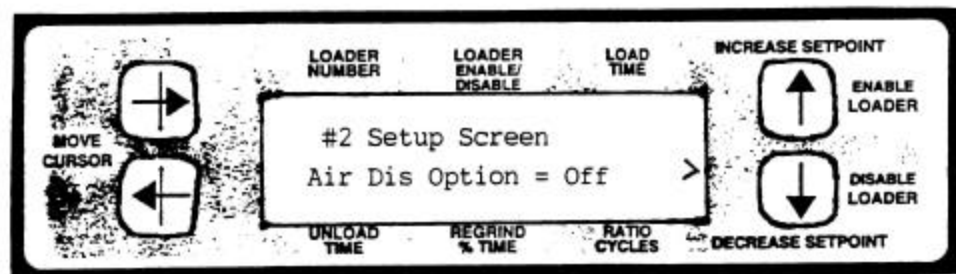
Calculated Ratio Cycle (On/Off)

(Auto-Calculation for Ratio loaders)

Ratio cycle is a value that is divided into the load time to create "Mini-Loads" which better distribute regrind material among the virgin pellets. One ratio cycle consists of one shot of virgin material and one shot of regrind material. Turning this screen on allows the program to automatically calculate the ratio cycles based on load time and will be updated automatically every load. Turning this screen off means that the operator must change the number of ratio cycles manually depending on the application. All controls have this option set leaving testing. The calculated ratio cycles are as follows:

Load Time	Ratio Cycles
0 - 20 Seconds	One
21 - 30 Seconds	Two
31 - 300 Seconds	Three

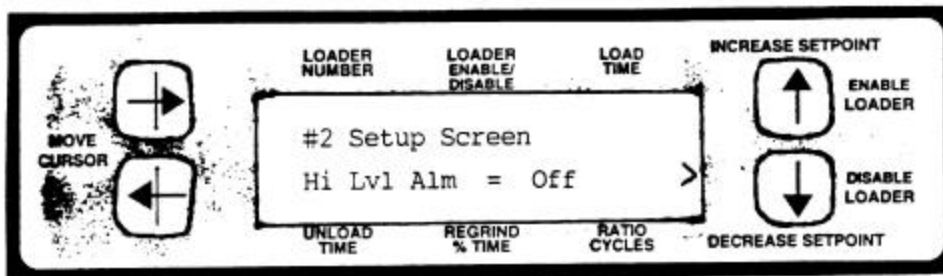
Figure 8 - Setup Screen 4

**Air Discharge Option (On/Off)**

Air discharge valve present option. Turning this screen off disables the air discharge function. On will enable the air discharge function.

SETUP

Figure 9 - Setup Screen 5

**Hi-Level Alarm (On/Off)**

Turning this setup screen on enables the hi-level sensor alarm. A material alarm will be generated when the load timer times out before the hi-level sensor is made. Turning this screen off ignores the hi-level sensor when determining material alarms.

Changing Loaders

By using the "Display Info" buttons, you can change from #2 Setup Screens to any desired loader and still be on the same setup option screen. Example Figure 9, if we pushed the "Display Info" button under loader #5, the #5 Setup Screen for loader #5's "Hi Lvl Alm" appears.

SECTION**6****INSTALLATION**

The system is very easy to install. Insure that the Basic Loader control box is fastened tightly to a stationary object. The panel should be placed as closely as possible to the loaders to minimize loader connection wiring. Also insure all mechanical connections on the loaders and pumps are secure. The control box can be plugged into any 120 VAC wall socket. The loader connections are to be made directly to the terminal strip on the SLC-500. Connect the appropriate loader wires to the terminals using the electrical schematic and the loader schematic as a reference. Next wire the pumps and alarm horn to the appropriate place on the Allen-Bradley terminal strip. Insure that all electrical connections are secure.

Conair has made the largest investment in customer support in the plastics industry. Our service experts are available to help with any problem you might have installing and operating your equipment. Your Conair sales representative also can help analyze the nature of your problem, assuring that it did not result from misapplication or improper use.

WE'RE HERE TO HELP

To contact Customer Service personnel, call:



HOW TO CONTACT CUSTOMER SERVICE

From outside the United States, call: 814-437-6861

You can commission Conair service personnel to provide on-site service by contacting the Customer Service Department. Standard rates include an on-site hourly rate, with a one-day minimum plus expenses.

If you do have a problem, please complete the following checklist before calling Conair:

- Make sure you have all model, serial and parts list numbers for your particular equipment. Service personnel will need this information to assist you.
- Make sure power is supplied to the equipment.
- Make sure that all connectors and wires within and between loading control and related components have been installed correctly.
- Check the troubleshooting guide of this manual for a solution.
- Thoroughly examine the instruction manual(s) for associated equipment, especially controls. Each manual may have its own troubleshooting guide to help you.
- Check that the equipment has been operated as described in this manual.
- Check accompanying schematic drawings for information on special considerations.

BEFORE YOU CALL ...

Additional manuals and prints for your Conair equipment may be ordered through the Customer Service or Parts Departments for a nominal fee.

EQUIPMENT GUARANTEE

Conair guarantees the machinery and equipment on this order, for a period as defined in the quotation from date of shipment, against defects in material and workmanship under the normal use and service for which it was recommended (except for parts that are typically replaced after normal usage, such as filters, liner plates, etc.). Conair's guarantee is limited to replacing, at our option, the part or parts determined by us to be defective after examination. The customer assumes the cost of transportation of the part or parts to and from the factory.

PERFORMANCE WARRANTY

Conair warrants that this equipment will perform at or above the ratings stated in specific quotations covering the equipment or as detailed in engineering specifications, provided the equipment is applied, installed, operated and maintained in the recommended manner as outlined in our quotation or specifications.

Should performance not meet warranted levels, Conair at its discretion will exercise one of the following options:

- Inspect the equipment and perform alterations or adjustments to satisfy performance claims. (Charges for such inspections and corrections will be waived unless failure to meet warranty is due to misapplication, improper installation, poor maintenance practices or improper operation.)
- Replace the original equipment with other Conair equipment that will meet original performance claims at no extra cost to the customer.
- Refund the invoiced cost to the customer. Credit is subject to prior notice by the customer at which time a Return Goods Authorization Number (RGA) will be issued by Conair's Service Department. Returned equipment must be well crated and in proper operating condition, including all parts. Returns must be prepaid.

Purchaser must notify Conair in writing of any claim and provide a customer receipt and other evidence that a claim is being made.

WARRANTY LIMITATIONS

Except for the Equipment Guarantee and Performance Warranty stated above, Conair disclaims all other warranties with respect to the equipment, express or implied, arising by operation of law, course of dealing, usage of trade or otherwise, including but not limited to the implied warranties of merchantability and fitness for a particular purpose.

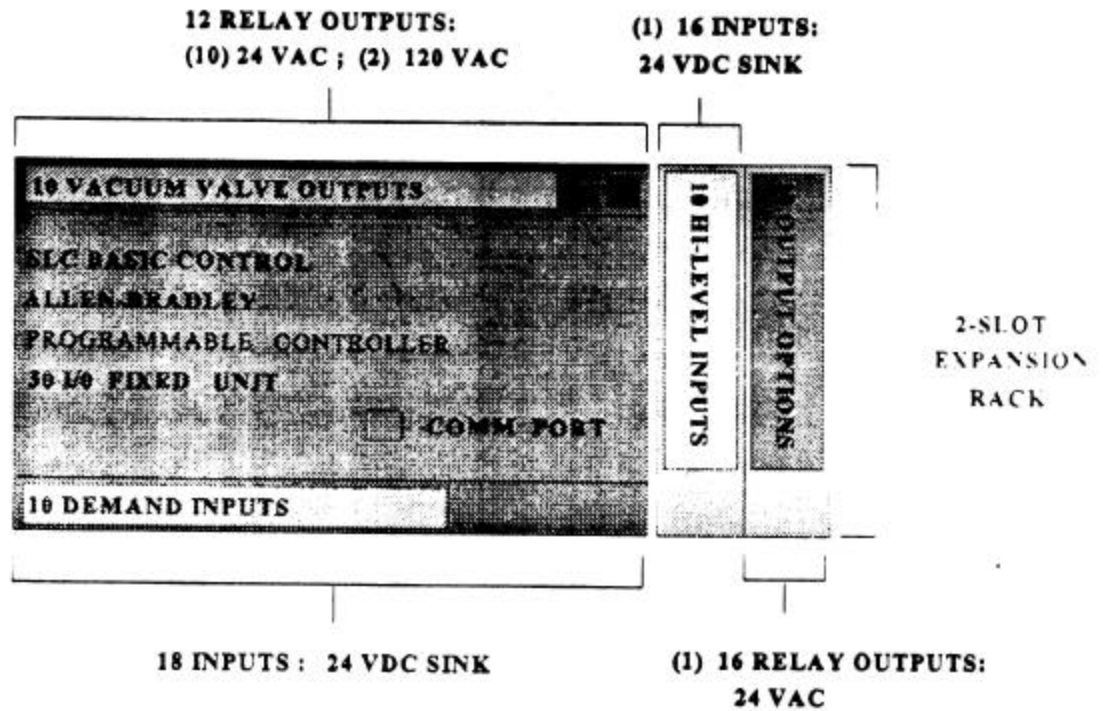
LIST OF CONAIR DRAWINGS

107-432-01 PANEL LAYOUT
(PAGE 1)

107-433-01 SLC SCHEMATIC
(PAGE 2)

(SEE DRAWINGS ON FOLLOWING PAGES)

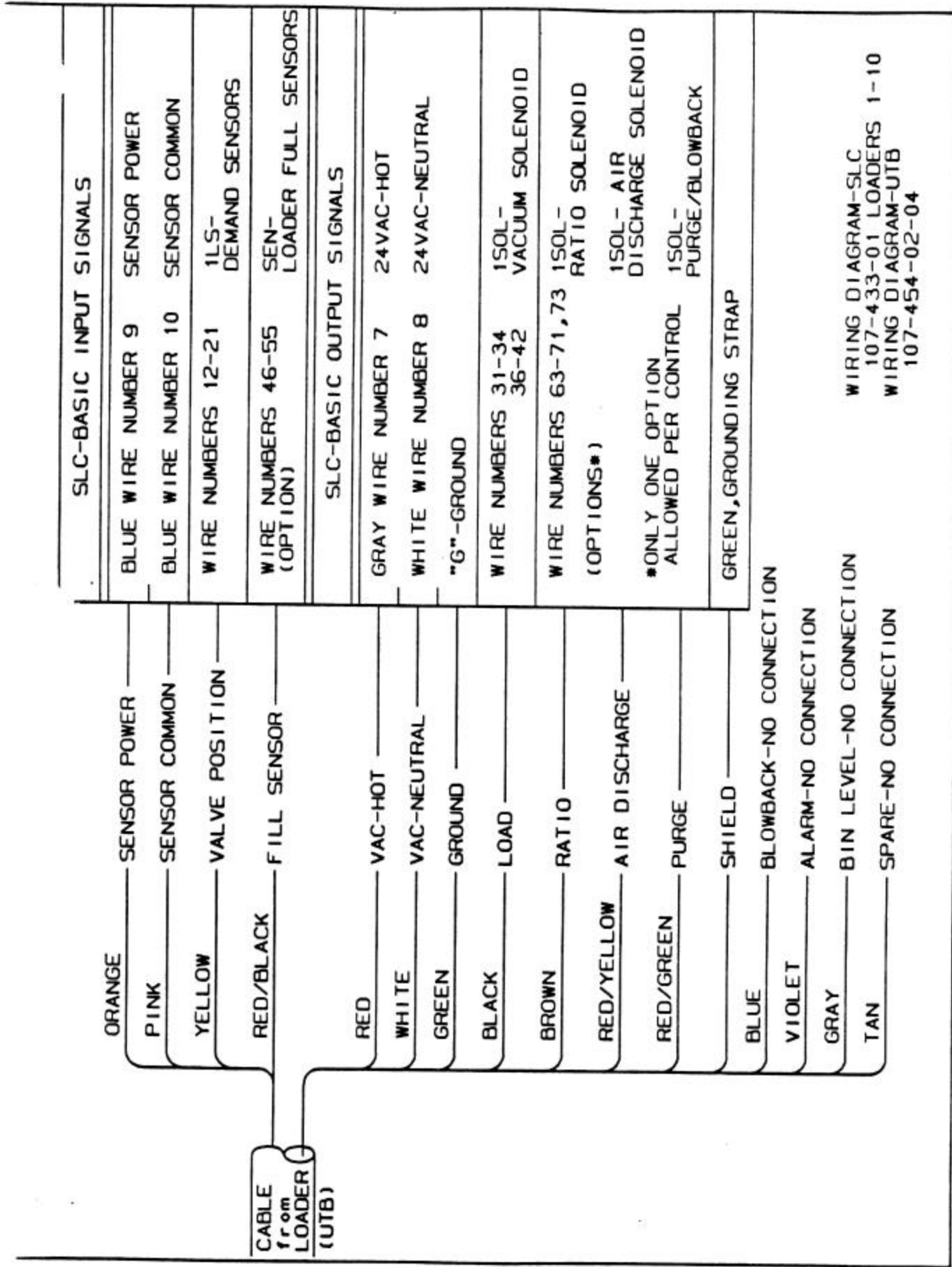
CENTRAL LOADER CONTROL BASIC CONFIGURATION



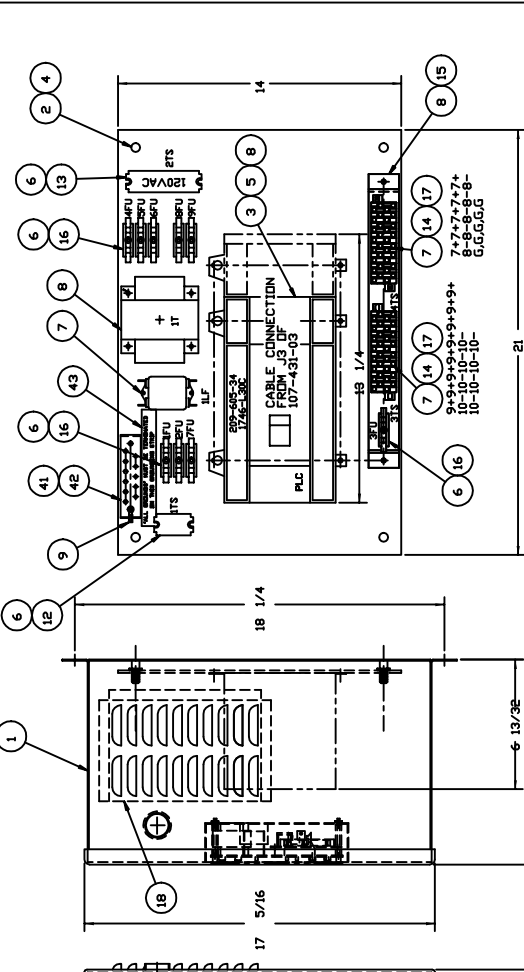
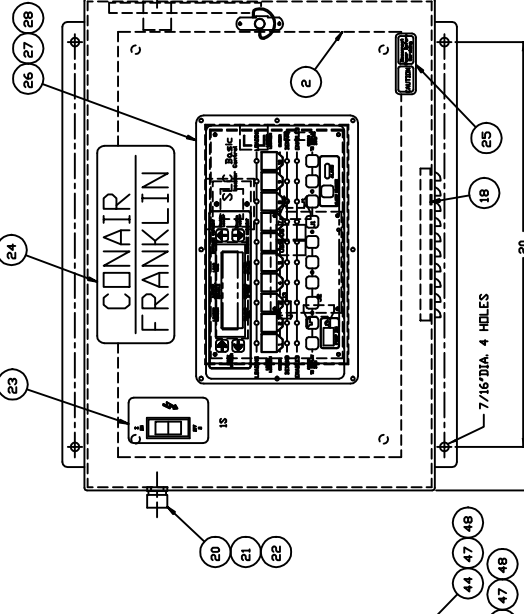
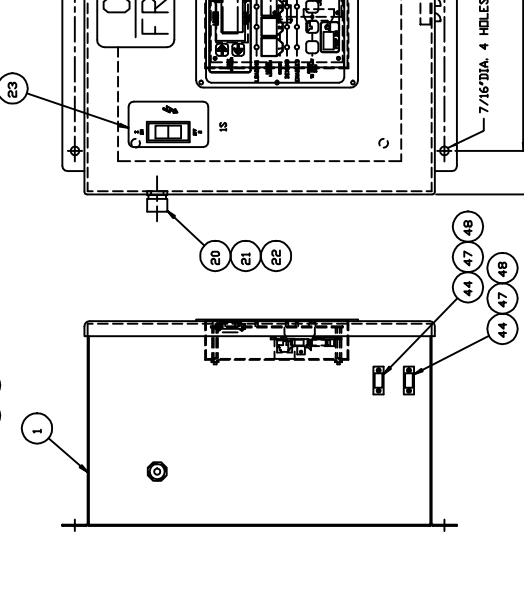
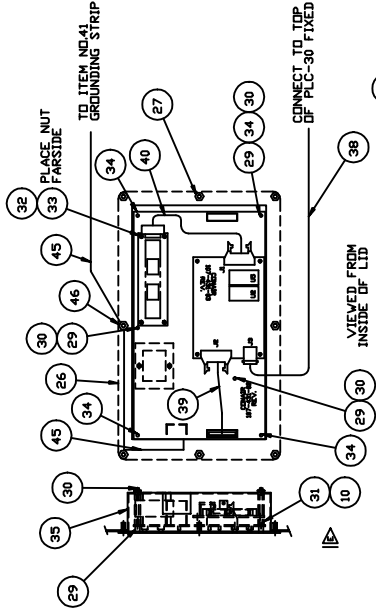
LEGEND

- STANDARD 10-STATION SINGLE TUBE CONTROL HARDWARE
- OUTPUT OPTION HARDWARE
- DEMAND INPUTS: 24 VDC SINK
- HI-LEVEL INPUTS (OPTIONAL): 24 VDC SINK
- VACUUM VALVE OUTPUTS: 24 VAC
- *OUTPUT OPTIONS: 24 VAC
- PUMP OUTPUT: 120 VAC
- ALARM OUTPUT: 120 VAC

*OUTPUT OPTIONS- RATIO OR AIR DISCHG PER EACH LOADER



ITEM NO.	NUMBER REQUIRED	PART NUMBER	DESCRIPTION
41	1	104-117-26	GROUNDING STRIP
42	2	RD.HD.SCREW NO.10-32 x 3/4" LG	
43	1	104-117-27	LABEL GROUNDING STRIP
44	2	104-117-29	COVER PANEL
45	3 FT	205-007-18-05	WIRE 18 GA GREEN P.C.GROUND
46	1	209-080-46	RING TERMINAL T&B# 14RS-6
47	4	210-150-02	RD.HD.SCREW NO.4-40 x 3/8" LG
48	4	221-021-02	HEX NUT 4-40
21	1	205-005-02	POWER CORD 16-3 x 10' LG
22	1	1/2" CONDUIT LOCKNUT	
23	1	299-153-98	LABEL - POWER
24	1	299-216-35-03	CINNAIR LOGO
25	1	299-216-58-01	LABEL DISCONNECT POWER
26	1	105-203-04	PANEL P.C.BD. MOUNT TO LID
27	8	223-004-04	WHIZ NUT NO.10-32NF
28	1	299-216-112	S.L.C BASIC LABEL
29	10	209-026-02-02	NI.62 C.BD.SPACER x 3/16" HIGH
30	10	221-001-02	HEX NUT NI.6-32NC
31	4	209-027-07-06	P.C.BD STANDOFF x 1/2" HIGH
32	4	210-148-02	HEX NUT NO.4-40NC x 1/4" LG
33	4	221-021-02	HEX NUT NO.4-40NC
34	4	209-027-18-07	NI.6-32NC HEX STANDOFF x 1-1/2"
35	1	105-203-02	SHIELD 30 S.L.C BOARD
36	1	105-203-03	FIXED 30 S.L.C TERMINAL LABEL
37	1	105-203-06	LABELS - TERMINAL STRIPS
38	1	107-495-01	CABLE ASSEMBLY B/BD TO PLC
39	1	107-495-02	CABLE ASSEMBLY P8/LED TO B/BD
40	1	107-495-03	CABLE ASSEMBLY LCD TO B/BD



CINNAIR FRANKLIN

FRANKLIN, PENNSYLVANIA 16825

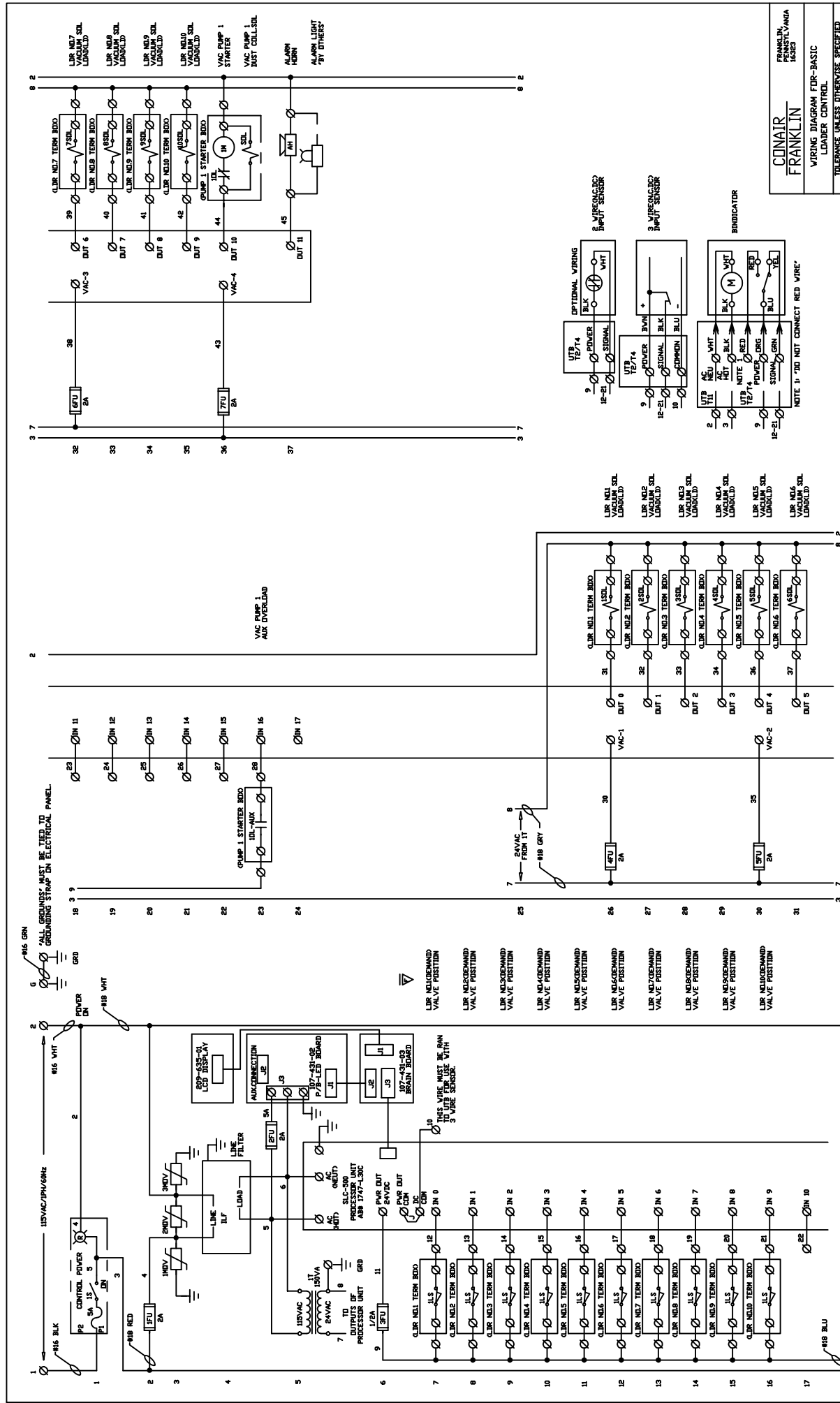
FOR WIRING DIAGRAM SEE 107-433-01

BASIC LOADER CONTROL
S.L.C - FIXED 30

TOLERANCE UNLESS OTHERWISE SPECIFIED
FRACTIONAL DECIMAL .005
DIM. EL3
DATE 11-09-92
APP. DATE

REV. 12-94	SEE ECU NO.94078	EL3	BY	CDL	APP.
REV. 08-94	SEE ECU NO.94064	EL3			
NO	DATE	REVISIONS			

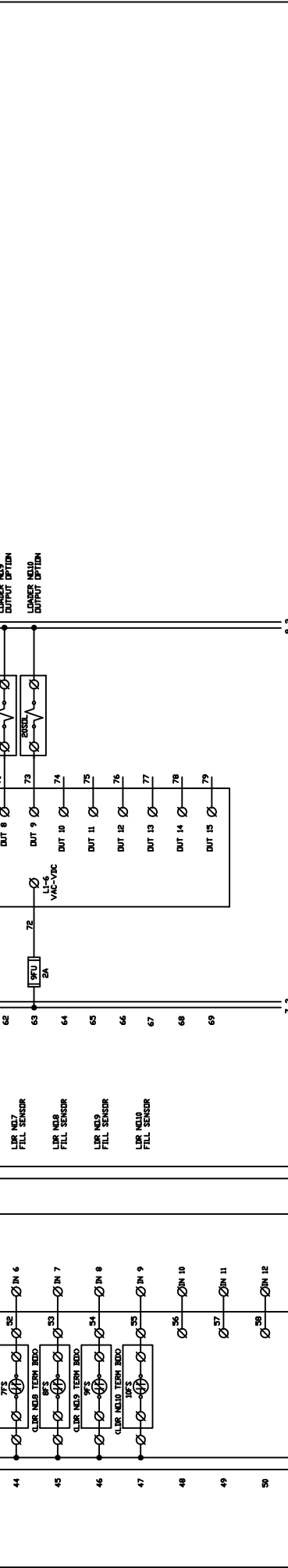
SMT. 1 OF 1 SHEETS. 107-432-01 E



CINAIR
FRANKLIN
 WIRING DIAGRAM FOR-BASIC
 LOADER CONTROL
 TOLERANCE UNLESS OTHERWISE SPECIFIED
 FUNCTIONAL
 DWG. E.L.B. DWG. APP.
 DATE 10-22-93 DATE
 SHT. 1 OF 2 SHTS. 107-433-01 F

NO.	DATE	REVISIONS	BY	CHK.	APP.
1	04-09-93	REMOVED A LEVEL SWITCH NOTES	MA		
2	05-17-94	SEE ECU IN 240708	E.L.B.		

SYMBOL	TER. NO.	NUMBER REQUIRED	PART NUMBER	DESCRIPTION
1SV	1	1	203-056-01	5A CIRCUIT BREAKER SWITCH
1-9FU	2	6	206-066-02	FUSE BUSS MDA-2 AMP
1MDV	3	1	188-406-05	POWER FILTER ASSEMBLY
3FU	4	1	206-103-16	FUSE BUSS ACC-1/2 AMP
IT	5	1	209-620-04	150VA TRANSFORMER 120VAC-24VAC
ILCD	6	1	209-635-01	LCD DISPLAY IEEE#CH2E20-L STYLE
IPC-LED	7	1	107-501-01	LCD-PUSHBUTTON P.C.BOARD
SFC-36	8	1	107-502-01	BRAIN P.C.BOARD
PLC	9	1	209-605-24	PROC. CONTROLLER A/BM1747-L-20C
1AH	10	1	209-089-03	ALARM HORN AUDDIOLARMXC-19-201-0
	11			
	12	25 FT	205-007-18-02	WIRE NDL18 120VAC CONTROL RED
	13	50 FT	205-007-18-06	WIRE NDL18 24VAC CONTROL L-BLU
	14	50 FT	205-007-18-08	WIRE NDL18 24VAC CONTROL GRAY
	15	50 FT	205-007-18-09	WIRE NDL18 NEUTRAL WHITE
	16	1 FT	205-007-18-05	WIRE NDL18 GROUND GREEN
8-9FU	17	REF	206-066-02	FUSE BUSS MDA-2 AMP
1MD	18	REF	209-605-26	IN-MODULE A/BM1746-1B16 24VAC/DC
1EXP	19	REF	209-605-09	OUT-MODULE A/BM1746-DV16 115VAC
1CAB	20	REF	209-605-32	EXPANSION RACK A/BM1746-A2
1E1	21	REF	107-495-01	CABLE LCD TO BRAIN BOARD
1CAB	22	REF	107-495-02	CABLE PB/LED TO BRAIN BOARD
1CAB	23	REF	107-495-03	CABLE BRAIN BD. TO PLC



NOTES:

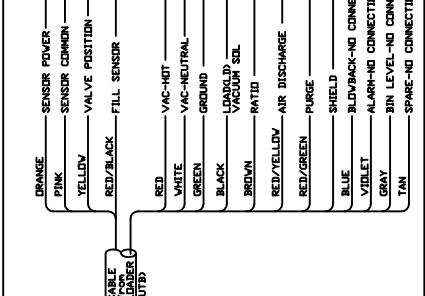
1. WIRING COLOR CODE:
 RED - CONTROL 120VAC
 BLU - CONTROL 24VAC
 WHT - NEUTRAL 24VAC
 GRN - NEUTRAL 115VAC
 GRN #18 - GROUND
2. USE WIRE MARKERS ON ALL WIRE ENDS.
3. WIRING TO AND FROM EXPANSION SLOTIVITY ELECTRICAL CODES.

SLC-BASIC INPUT SIGNALS

DRAINAGE	SENSOR POWER	BLUE WIRE NUMBER 9	SENSOR POWER
PINK	SENSOR COMMON	BLUE WIRE NUMBER 10	SENSOR COMMON
YELLOW	VALVE POSITION	WIRE NUMBERS 12-21	ILS-24VAC SENSORS
RED/BLACK	FILL SENSOR	WIRE NUMBERS 46-55	SENSOR FULL SENSORS

SLC-BASIC OUTPUT SIGNALS

RED	VAC-HOT	GRAY WIRE NUMBER 7	24VAC-HOT
WHITE	VAC-NEUTRAL	WHITE WIRE NUMBER 8	24VAC-NEUTRAL
GREEN	GROUND	GC-GROUND	
BLACK	LIQUID VACUUM SOL	WIRE NUMBERS 31-34	150 VACUUM SOLENOID
BROWN	RATIO	WIRE NUMBERS 63-71/73	150L RATIO SOLENOID
RED/YELLOW	AIR DISCHARGE	OPTION#3	150L-AIR DISCHARGE SOLENOID
RED/GREEN	PURGE	ONLY ONE OPTION ALLOWED PER CONTROL	150L-PURGE/AIR/BACK
BLUE	SHIELD	GREEN/GROUNDING STRAP	
VIOLET	BLOWBACK-NO CONNECTION		
GRAY	ALARM-NO CONNECTION		
TAN	SPARE-NO CONNECTION		



CINNAIR
FRANKLIN

FRANKLIN, ALABAMA
36020

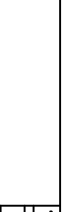
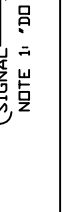
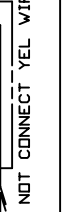
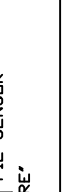
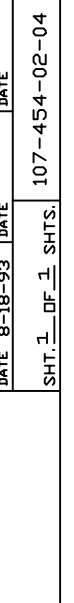
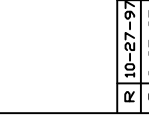
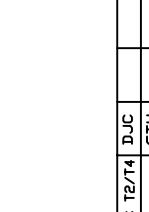
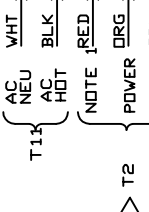
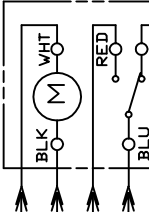
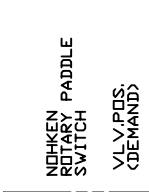
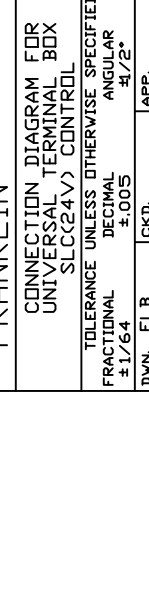
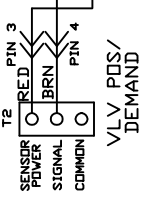
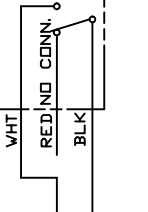
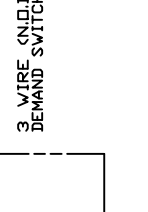
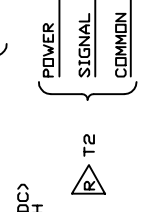
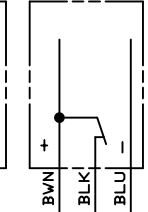
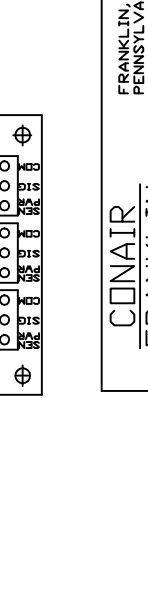
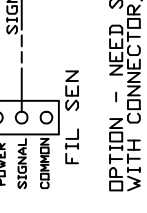
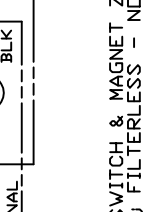
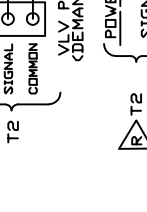
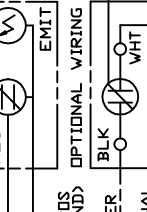
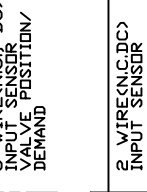
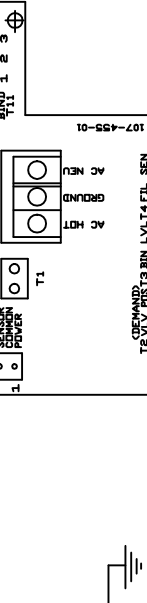
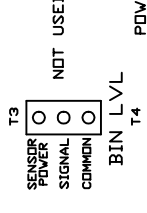
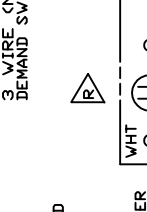
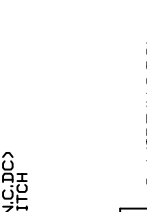
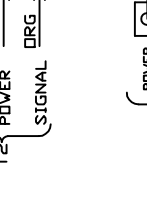
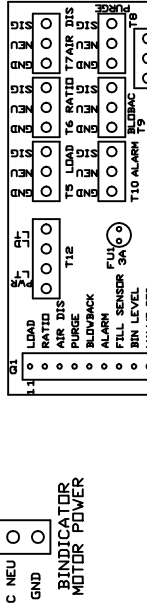
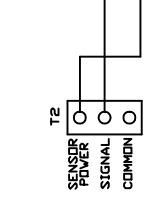
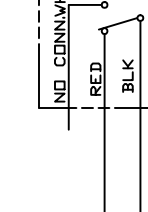
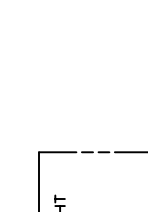
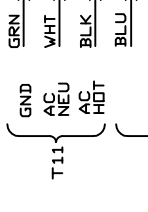
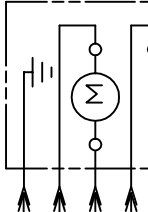
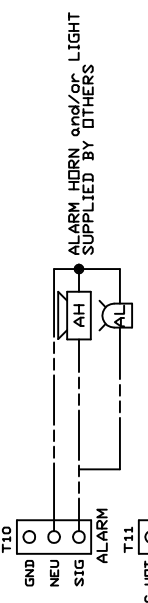
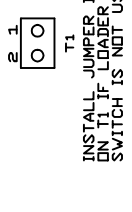
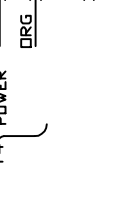
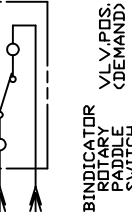
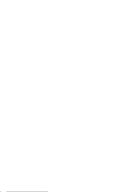
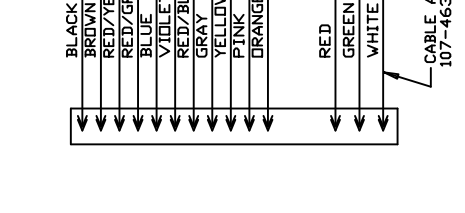
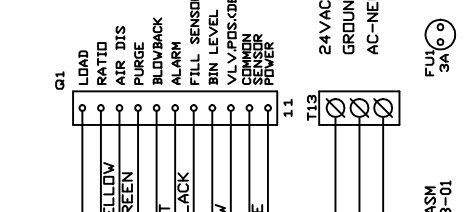
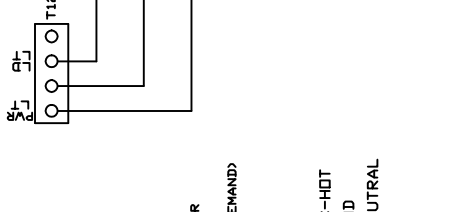
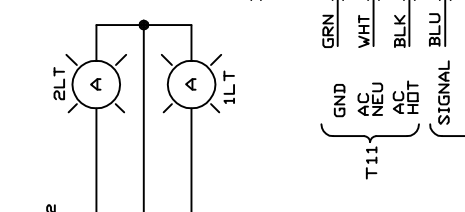
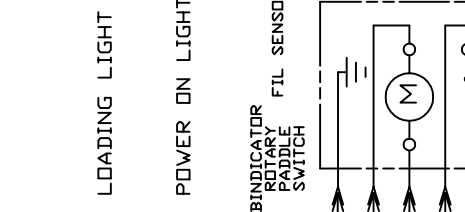
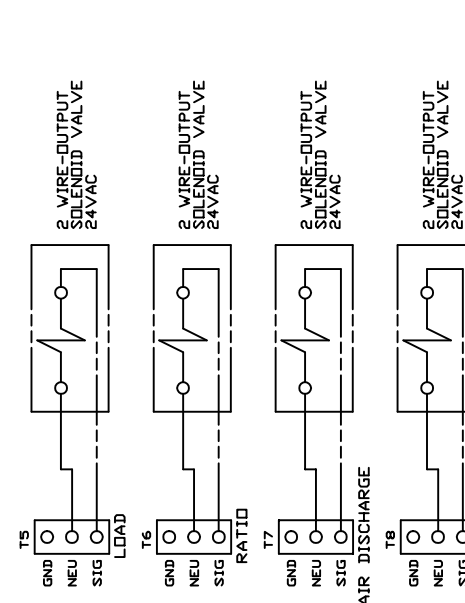
OPTIONS - EXPANSION SLOT
WIRING DIAGRAM FOR LINDER CONTROL

TOLERANCE UNLESS OTHERWISE SPECIFIED
FRACTIONAL DECIMAL ANGULAR

DWG. E.L.B. DATE 10-22-92 APP. DATE

SMT. 2 OF 2 SHEETS. 107-433-01 F

NO.	DATE	REVISED	BY	CHK.	APP.
1	10-22-92	RELEASED			



INSTALL JUMPER BETWEEN PINS 1 & 2 ON T1 IF LOADER ENABLE/DISABLE SWITCH IS NOT USED

OPTION - NEED SWITCH & MAGNET Z LOADERS WITH CONNECTOR; FILTERLESS - NO CONNECTOR

NOTE 1: 'DO NOT CONNECT YEL WIRE'

CONAIR FRANKLIN		FRANKLIN, PENNSYLVANIA 16828
CONNECTION DIAGRAM FOR UNIVERSAL TERMINAL BOX SLC(24V) CONTROL		
TOLERANCE UNLESS OTHERWISE SPECIFIED	FRACTIONAL	DECIMAL
±1/64	±.005	ANGULAR
D.V.N. ELB	CKD.	APP.
DATE 8-18-93	DATE	DATE
SHT. 1 OF 1 SHTS.	107-454-02-04	R

R 10-27-97	N.D. WAS N.C. & T2 WAS T2/T4	D.J.C
Q 9-25-97	POWER WAS COMMON	G.T.H
P 8-20-97	REVERSED WHT & BLK	E.J.F
NO	DATE	REVISIONS
		BY CKD, APP.