

CONFIGURATION

Introduction

When a 584 is received by a customer, it contains a blank memory. The only information contained in the PC is the executive program which is in ROM (Read Only Memory). Before the 584 can be programmed, its database must be configured. This procedure defines the following:

- Max number of inputs, outputs, input registers, holding registers, and channels
- Communication parameters
- Number of ASCII messages
- Memory allocation
- System addressing
- Miscellaneous special functions

Program Sizing

The following steps should be taken before configuring the system:

- Analyze the present system (if any)
- Define the new PC control objectives
- List I/O requirements necessary to meet above objectives
- Lay out an information flow to reach each requirement
- Determine approximate number of program elements required

Configuration

Configuration is essentially a 2 step procedure. The first step is to alter the default "Configuration Table" so that it reflects the desired configuration, and to "Write" this configuration table into the P190 memory.

The second step is to "Traffic Cop" the system which means to specify the reference numbers associated with each I/O slot and the I/O type; discrete, BCD, or binary.

The configuration table is developed using the reset level menu, and the traffic cop is developed while attached to the controller and uses the exit level menu.

Configuration Procedure

Follow the procedures detailed in the previous chapter to "COLD START" the 584.

1. Load a configurator son tape (AS-T584-004) into the P190 and simultaneously press the 2 red buttons, "INIT" and "INIT LOCK".
2. Enter the 584 unit I.D. # into the assembly register.
3. If you are configuring a 584A or 584M, press the software labeled key "584 CONFIG". If you are configuring a 584L, press the software labeled key "584L".

The following menu is displayed:

NO SKIPS SKIPS ↓	SET SIZE	PORT 1	PORT 2	ASCII	SPECIALS	WRITE CONFIG	NEXT MENU
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No Skips/Skips

Toggle this software label key to select SKIPS or NO SKIPS. The selection is indicated by the UP or DOWN arrows in the software label.

The choice of SKIPS or NO SKIPS is dependent on whether or not the SKIP function will be used in the program. (See page 14-31 through 14-34 for SKIP block details).

On initial power-up the controller defaults to NO SKIPS.

Set Size

When this software label key is pressed, the following software labels are displayed:



These software label keys are used to insert the maximum number of references and I/O channels available for the user's program. Configure the 584 for only those discretes and registers that are required by the application. This will reduce memory requirements.

of 0XXXX

Enter into the AR the total number of logic coils that will be available for the program, a value divisible by 16, and press this software label key.

On the initial configuration, the controller defaults to the value 16.

of 1XXXX

Enter into the AR the total number of discrete inputs that will be available for the program, a value divisible by 16, and press this software label key.

On the initial configuration, the controller defaults to the value 16.

of 3XXXX

Enter into the AR the total number of input registers that will be available for the program, a maximum of 256, and press this software label key.

On the initial configuration of the 584, the controller defaults to the value 1.

of 4XXXX

Enter into the AR the total number of output/holding registers that will be available for the program, and press this software label key.

On the initial configuration, the controller defaults to the value 1.

of Channels

Enter into the AR the number of I/O channels that will be available for the program, and press this software label key. This must be an even number between 2 and 32.

NOTE: The major configuration parameter that can influence scan times is the number of I/O channels used. Each local channel adds approximately 16 msecs to the scan time, and a remote channel adds approximately 4 msecs.

CAUTION: It is difficult to alter the # of channels after the user program is in place.

Previous Menu

Returns display to main configuration menu.

On the initial configuration the controller defaults to 2 I/O channels. Remember, 584L offers a choice of all remote (32) or 4 local and 28 remote I/O channels.

Port 1/Port 2

Press this software label key to set the parameters for MODBUS PORT 1 or 2 on the 584 PC. When this key is pressed, the following software labels appear on the screen:



RTU/ASCII

Toggle this software label key to select the Modbus communication mode — RTU or ASCII. The selection is indicated by UP or DOWN arrows in the software label.

RTU (Remote Terminal Unit) mode is used to communicate between the 584 PC and the P190 programmer. It can also be used for Modbus communications.

ASCII (American Standard Code for Information Interchange) mode is used for Modbus communications, it is more complex than RTU but it is easier to implement.

On initial power-up, the controller defaults to RTU.

No Par/Parity

Toggle this software label key to select PARITY or NO PARITY. The selection is indicated by UP or DOWN arrows in the software label.

On initial power-up, the controller defaults to even PARITY.

Even/Odd

This software label key is only used if PARITY is selected. Toggle the EVEN/ODD software label key to select EVEN parity or ODD parity. The selection is indicated by UP or DOWN arrows in the software label.

On initial power-up, the controller defaults to EVEN parity.

1 Stop/2 Stop

Toggle this software label key to select 1 STOP bit or 2 STOP bits. The selection is indicated by UP or DOWN arrows in the software label.

One stop bit is selected if the 584 PC is communicating with other Gould equipment. On initial power-up, the controller defaults to 1 STOP BIT.

Baud Rate

Enter one of the following baud rates into the AR:

50, 75, 110, 134.5, 150, 300, 600, 1200, 1800, 2000, 2400, 3600, 4800, 7200, 9600, or 19200.

Press the BAUD RATE software label key to enter the value.

On initial power-up, a 584M or L controller defaults to a baud rate of 9600, and a 584A controller defaults to a baud rate of 1200.

Device Address

Enter into the AR the address of the 584 PC which is currently communicating with the P190, a maximum value of 247, and press this software label key.

On initial power-up, the controller defaults to a device address of 001.

Delay Time

Enter the desired delay time into the AR, a maximum value of 20, and press this software label key. This value represents one tenth of the desired delay time in msec (e.g., a value of 20 is 200 milliseconds).

The delay time is the time lapse between sending a message and receiving an answer. If there is no time lapse between sending and receiving, it is possible that the answer to a message will be lost because a device is not ready to receive.

The delay time for communications between Gould equipment is 10 milliseconds; enter a 1 for delay time. On initial power-up, the controller defaults to a delay time of 01.

ASCII

Press this software label key to set the limits and parameters for ASCII functions. When this key is pressed, the following software labels appear on the screen:



of Messages

Enter into the AR the number of ASCII messages which will be stored in memory. The maximum is 9999 messages.

On initial power-up, the controller defaults to zero.

CAUTION: It is difficult to alter the number of ASCII messages after the user program is in place.

MSG Area Size

Enter a value into the AR (maximum 9999) and press the MSG AREA SIZE software label key to enter the total words of memory to be set aside for the storage of ASCII messages.

One word of memory equals two ASCII characters.

On initial power-up, the controller defaults to zero.

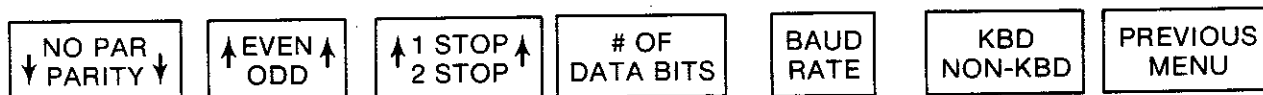
of Ports

Enter into the AR the number of RS-232-C ports included in the system for ASCII communications, a maximum value of 32, and press this software label key.

On initial power-up, the controller defaults to zero.

Set Parameters

Press this software label key to set the ASCII port parameters. When this software label key is pressed, the following set of software labels appear on the screen:



ASCII PARAMETER TABLE

Port	Parity	Stops	#Bit	Baud Rate	KBD	Port	Parity	Stops	#Bit	Baud Rate	KBD
01	EVEN	1	8	01200	Y	02	ODD	1	8	01200	Y
03	NONE	2	7	09600	N						

The table above is an example parameter table for three ASCII ports. To change the parameters for any of the ports, position the cursor to the left of the port number and press the appropriate software label keys. Move the cursor with the arrow keys on the P190 panel.

No Par/Parity

Toggle this software label key to select PARITY or NO PARITY. The selection is indicated by UP or DOWN arrows in the software label.

On initial power-up, the controller defaults to even PARITY.

Even/Odd

Toggle this software label key to select EVEN parity or ODD parity. The selection is indicated by UP or DOWN arrows in the software label.

On initial power-up, the controller defaults to EVEN parity.

1 Stop/2 Stop

Toggle this software label key to select 1 STOP bit or 2 STOP bits. The selection is indicated by UP or DOWN arrows in the software label.

One stop bit is selected if the 584 PC is communicating with other Gould equipment. On initial power-up, the controller defaults to 1 STOP bit.

of Data Bits

Enter into the AR the number of data bits to be passed through a specific port (a value of 5, 6, 7, or 8), and press the # OF DATA BITS software label key.

ASCII communications require seven data bits, and RTU communications require eight data bits. Five or six data bits are rarely used.

On initial power-up, the controller defaults to 8 data bits.

Baud Rate

Enter one of the following baud rates into the AR:

50, 75, 110, 134.5, 150, 300, 600, 1200, 1800, 2000, 2400, 3600, 4800, 7200, 9600, or 19200.

Press the BAUD RATE software label key to enter this value.

KBD/Non-KBD

Toggle this software label key to select keyboard (KBD) or no keyboard (NON-KBD). The selection is indicated by UP or DOWN arrows in the software label.

The choice of KBD or NON-KBD is dependent on the type of device connected to the ASCII port. If the device does not have a keyboard (i.e., a bar code reader, or a microprocessor), NON-KBD is selected. If the device is a CRT or printer terminal, KBD is usually selected although NON-KBD is allowed.

A selection of KBD allows backspace and rubout keys to be used if a mistake is made in entering data. The field terminator for a data entry is an escape (ESC) key. The end of message indicator is a carriage return.

On initial power-up, the controller defaults to KBD.

Specials

Press this software key to select the following:

- Battery coil
- Timer register
- 32 remote vs 4 local and 28 remote channels

When this key is pressed, the following software labels appear on the screen:



Battery Coil 0XXXX

Enter a 0XXXX reference number into the AR and press the BATTERY COIL 0XXXX software label key to enter the coil number. This coil will be on when the battery voltage is low.

On initial power-up, the controller defaults to zero; no battery coil is available.

Timer Reg 4XXXX

Enter a 4XXXX reference number into the AR. Press the TIMER REG 4XXXX software label key to enter the holding register number. This holding register is set aside to hold the number of 10 millisecond clock cycles from the 584.

On initial power-up, the controller defaults to zero; no timer register is available.

Write Config

When all the configuration information has been entered into the configuration table, press this software label key to write the table.

If changes are made to the table and the WRITE CONFIG software label key is not pressed, the changes to the table are not acknowledged by the 584. The 584 PC must be STOPPED in order to implement the WRITE CONFIG function.

Next Menu

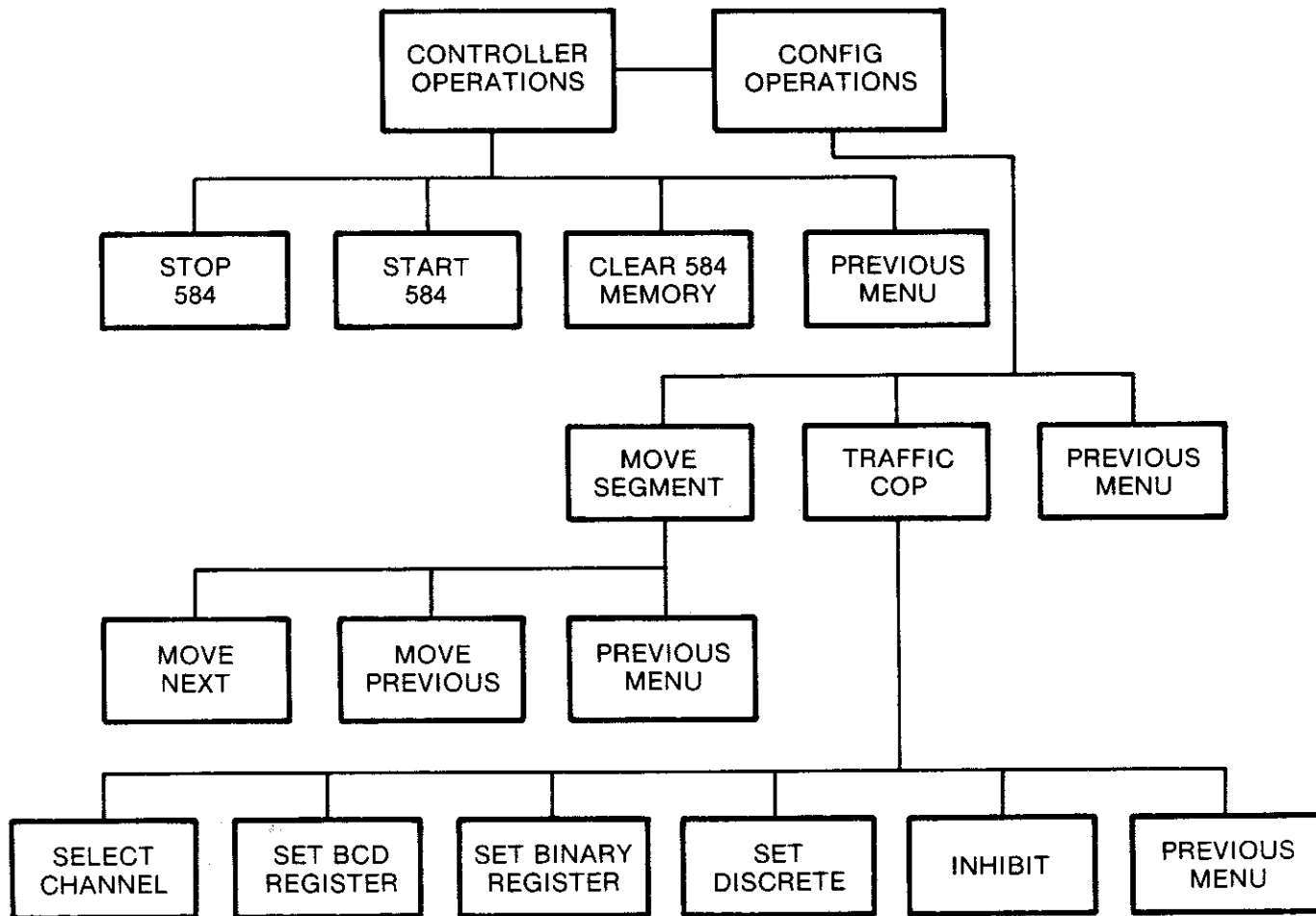
Press this software label key to enter module information. The software labels MODULES, WRITE CONFIG, and PREVIOUS MENU appear on the screen.

Modules

When this software label key is pressed, the software labels LOAD MODULES, DELETE MODULES, and PREVIOUS MENU are displayed on the screen.

Load Modules

Press this software label key in order to load a 584 Modules Program Tape. When this software label key is pressed, the software labels PROCEED and CANCEL appear on the screen along with the message "Insert 584 Modules Program Tape". The 584 can have multiple loadable software modules. The 584 Modules Program Tapes are not part of the Configurator Tape package.



FLOW CHART OF TRAFFIC COP SOFTWARE LABELS

Delete Modules

Press this software label key in order to delete part or all of a 584 Modules Program Tape from the 584 memory. The software labels DELETE ALL, DELETE PROGRAM, and PREVIOUS MENU appear on the screen. The heading "584 Controller Directory" appears with a list of the modules in the 584 PC.

To delete all the modules in the 584, press DELETE ALL. To delete individual modules, enter the module/program name beside "Enter Program Name:" on the screen and press DELETE PROGRAM.

Write Config

This function is explained on page 12-6.

Move Segment and Traffic Cop

When the Configurator Tape (T584-004) is loaded into the P190, the software labels 584 CONFIG, 584 CONFIG and ATTACH UNIT # appear on the screen. To reach the MOVE SEGMENT and TRAFFIC COP functions, do the following:

1. Enter a unit I.D. number (the controller address) into AR (e.g., 001).
2. Press the ATTACH UNIT # software label key.

The RELEASE 584 software label appears on the screen.

3. Press the RESET/EXIT key on the P190 panel.
The software labels CONTROLLER OPERATIONS and CONFIG OPERATIONS appear on the screen.
4. Stop the controller if it is running. To do this:
 - 1) Press the CONTROLLER OPERATIONS software label key.
 - 2) Press the STOP 584 software label key.
 - 3) Press the PROCEED software label key.
5. Press the CONFIG OPERATIONS software label key.

The software labels MOVE SEGMENT, TRAFFIC COP, and PREVIOUS MENU appear on the screen.

TRAFFIC COP

The second step in the database configuration process is to "TRAFFIC COP" the system. This procedure specifies the reference numbers associated with each I/O slot and the I/O type; discrete, BCD, or binary.

Traffic Cop Procedure

After the configuration table is written ("WRITE CONFIG"), the following menu is displayed:

		584 CONFIG		584L CONFIG			ATTACH UNIT #
--	--	---------------	--	----------------	--	--	------------------

1. Enter the 584 unit I.D. # into the assembly register.
2. Press "ATTACH UNIT#".
3. Press "EXIT".
4. Press "CONFIG OPERATIONS".
5. Press "TRAFFIC COP".

The following is displayed:

CHANNELS: 01						
	SLOT	INPUT REF #	TYPE	OUTPUT REF #	TYPE	
	1	-----	INHIBIT	-----	INHIBIT	
	2	-----	INHIBIT	-----	INHIBIT	
	3	-----	INHIBIT	-----	INHIBIT	
	4	-----	INHIBIT	-----	INHIBIT	
	5	-----	INHIBIT	-----	INHIBIT	
	6	-----	INHIBIT	-----	INHIBIT	
	7	-----	INHIBIT	-----	INHIBIT	
	8	-----	INHIBIT	-----	INHIBIT	
NET:00000	UNTI:001	SEG:00	AVAIL:XXXXX	USED:XXXXX	DATE:XXXXXX	AR:00000
SELECT CHANNEL	SET BCD REGISTER	SET BINARY REGISTER	SET DISCRETE	INHIBIT		PREVIOUS MENU

Note that the traffic cop table displayed is for channel 1, and that the cursor is positioned as shown above.

Position the cursor to the left of the REF# column in the row desired to enter information. The cursor position is changed using the arrow keys on the P190 panel.

The SLOT numbers refer to the address on the I/O Rack. There are REF# and TYPE columns for both INPUT and OUTPUT. INPUT includes 1XXXX discrete input references and 30XXX input register references. OUTPUT includes 0XXXX logic coil references and 4XXXX holding/output register references. The following is a summary of the options for each reference:

Reference	Options
0XXXX	OUTPUT; DISCRETE
1XXXX	INPUT; DISCRETE
30XXX	INPUT; BCD REGISTER or BINARY REGISTER
4XXXX	OUTPUT; BCD REGISTER or BINARY REGISTER

CONFIGURATION

Select Channel

Enter a channel number into the AR, a maximum value of 32, and press this software label key. The TRAFFIC COP table is displayed for the specified channel.

On the initial configuration of the Traffic Cop, the controller defaults to the Traffic Cop Table for Channel 1.

Set BCD Register

Enter a 30XXX or 4XXXX reference into the AR and press this software label key. This register is entered into the Traffic Cop as a Binary Coded Decimal (BCD) register and the cursor moves down one position.

NOTE: I/O modules wired to numerical devices (i.e. thumbwheel switches, digital LED displays, etc.) should be defined as BCD registers.

Set Binary Register

Enter a 30XXX or 4XXXX reference into the AR and press this software label key. This register is entered into the Traffic Cop as a Binary register and the cursor moves down one position.

NOTE: I/O Modules wired to analog transducers, and module slots which use the 584L PC's matrix logic capabilities, should be defined as Binary registers.

Set Discrete

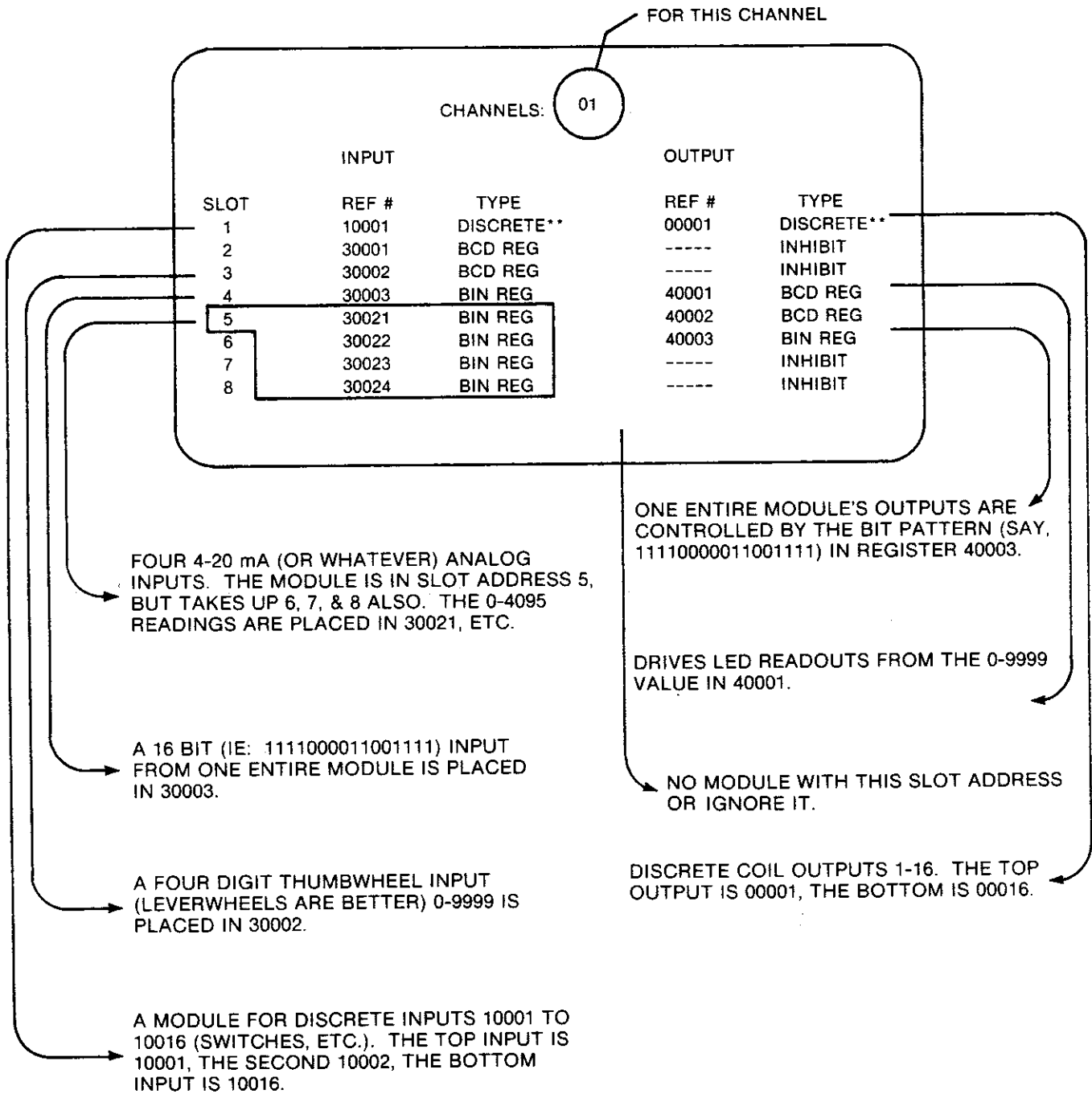
Enter a 0XXXX or IXXXX reference into the AR, a value divisible by 16 with a remainder of 1 (i.e., 00017, 00033, 10049, 10065, etc.), and press this software label key. The reference represents 16 discrettes (i.e., 00017-00032, 10065-10080). The cursor moves down one position after this software label key is pressed.

Inhibit

Position the cursor to the left of the reference to be inhibited and press this software label key. This clears the reference number and its type. The word INHIBIT is placed in the TYPE column and the cursor moves down one position.

On the initial configuration of the Traffic Cop, the controller defaults to INHIBIT for all the slots.

TRAFFIC COP EXAMPLES



**NOTE THAT DISCRETES ALWAYS COME IN GROUPS OF 16 STARTING WITH NUMBERS SUCH AS 1, 17, 33, 49, 65, 81, 97!!!!(16 x N + 1)

MOVE SEGMENT

The MOVE SEGMENT functions allow whole or partial segments to be moved into adjacent segments.

When this software label key is pressed, the following software labels are displayed on the screen:



Move Next

Enter a network number into the AR (e.g., 28) and press this software label key. All the networks, starting at the number entered (e.g., 28) and continuing to the end of the segment (e.g., segment 2), are moved into the next segment (e.g., segment 3).

NOTE: When moving a portion of a segment to the next segment, remember that only the networks from a specific network to the end of the segment can be moved. A group of networks in the middle of a segment or from the beginning to middle of a segment cannot be moved using this software label key.

Move Previous

Enter a network number into the AR (e.g., 35) and press this software label key. All the networks, from the beginning of the segment (e.g., segment 2) to the network number entered minus one (e.g., 34), are moved to the previous segment (e.g., segment 1).

NOTE: When moving a portion of a segment to the previous segment, remember that only the networks from the beginning of a segment to a specific network in the segment can be moved. A group of networks in the middle of a segment or from the middle to the end of a segment cannot be moved using this software label key. Also, the last network in a segment cannot be moved.

INCREASING THE NUMBER OF SEGMENTS

The following instructions allow you to increase the numbers of segments in a 584 without disturbing user logic. Be certain to have 2 copies of your user logic on tape. If you make an error following these instructions, you will have to remove line and battery power from the 584 and "cold start" it per the instructions shown in Chapter 11.

1. Load the utility tape into the P190 and simultaneously press the 2 red buttons, "INIT" and "INIT LOCK"
2. Enter the 584 unit I.D. # into the assembly register
3. Press "ATTACH"
4. Press "EXIT"
5. Press "CONTROLLER OPERATIONS"
6. Press "STOP"
7. Press "PROCEED"
8. Press "PREVIOUS MENU"
9. Press "EXAMINE MEMORY"
10. Type 6A
11. Press "GET"
 The number displayed to the right of the = sign is the current # of segments displayed in hex
12. Enter the desired number of segments into the assembly register
 Remember: 1 segment = 2 channels
13. Press "ENTER"
14. Press "I"
15. Type 6B
16. Press "GET"
 The number displayed to the right of the = sign is the "POINTER" to another address
17. Press "I"
 You now must enter an address derived from the number (pointer) displayed in Step 16. For example, if the current number of segments = 3, Step 16 would have resulted in the following display:

0006B = B78A
 ↑
 └ = PREFIX

Find the prefix in the pointer table below ("B" in this example) and note the address to the right of it ("F3XXX" in this example)

Pointer	Address
8XXX	F0XXX
9XXX	F1XXX
AXXX	F2XXX
→ BXXX	F3XXX
CXXX	F4XXX
DXXX	F5XXX
EXXX	F6XXX
FXXX	F7XXX

18. Enter this address into the assembly register and fill in the 3 "X's" with the last 3 digits displayed in Step 16 (in this example "78A", with a resultant entry = F378A)
19. Press "GET"
20. Press "↓"
21. Enter the number displayed to the right of the = sign in Step 19 into the assembly register
22. Press "GET"
The number displayed will be as follows:
584A Level 1 & 2
584M Level 1 & 2 = 2800
584L Level 1
584A Level 3
584L Level 2 = 0000
An "END OF STATEMENT" word must be added for each segment to be added.
23. If the number displayed in Step 22 = 0000, type "1".
If the number displayed in Step 22 = 2800, type "2801".
24. Press "ENTER"
Steps 23 and 24 add one "END OF SEGMENT" word. If only one segment is to be added, skip to Step 28. To add another "END OF SEGMENT" word:
25. Press "GET NEXT"
26. Repeat Step 23.
27. Press "ENTER"
Repeat Steps 25 thru 27 to add the required number of segments
28. Press "EXIT"
29. Press "CONTROLLER OPERATIONS"
30. Press "START"
31. Press "PROCEED"
The 584 should not start and an error message should show stop state 0004
32. Press "PREVIOUS MENU"
33. Press "EXAMINE MEMORY"
34. Type "5D"
35. Press "GET"
36. Enter the number displayed to the right of the = sign into the assembly register
37. Press "GET" ("0001" should be displayed)
38. Press "GET NEXT" until "FFFF" is displayed to the right of the = sign

39. Enter the 1st segment number to be added into the assembly register
Note that segment numbers are entered in hex per the following table:

Segment	Hex Value
2	0002
3	0003
4	0004
5	0005
6	0006
7	0007
8	0008
9	0009
10	000A
11	000B
12	000C
13	000D
14	000E
15	000F
16	0010

40. Press "ENTER"
If only one segment is being added, skip to Step 44.
If more than one segment is being added, continue with Step 41.
41. Press "GET NEXT"
42. Enter the next segment number to be added into the assembly register.
43. Press "ENTER"
Repeat Steps 41 thru 43 to add the required number of segments
44. Press "GET NEXT"
45. Enter "FFFF" into the assembly register
46. Press "ENTER"
47. Make a new tape of the program using the tape loader tape. Do not use the original user logic tapes in case there is a mistake! (See page 20-2 for tape loader instructions.)
48. Repeat Steps 1 thru 11
49. Enter the original number of segments into the assembly register
50. Press "ENTER"
51. Reconfigure using the configurator tape (see page 12-1 for configuration instructions)
52. Load the program made in Step 44 using the tape loader relocate logic function (see page 20-2 for relocate logic instructions)
53. Load the programmer tape to check the results of this procedure

TRAFFIC COP ELEMENT NUMBERS

Discretes

Each discrete module has 16 inputs or outputs, but only one address may be specified per slot — the first of 16.

FIRST OF 16 REFERENCE NUMBERS FOR COILS AND OUTPUTS

1	1025	2049	3073	4097	5121	6145	7169
17	1041	2065	3090	4113	5137	6161	7185
33	1057	2081	3105	4129	5153	6177	7201
49	1073	2097	3121	4145	5169	6193	7217
65	1089	2113	3167	4161	5185	6209	7233
81	1105	2129	3153	4177	5201	6225	7249
97	1121	2145	3169	4193	5217	6241	7265
113	1137	2161	3185	4209	5233	6257	7281
129	1153	2177	3201	4225	5249	6273	7297
145	1169	2193	3217	4241	5265	6289	7313
161	1185	2209	3233	4257	5281	6305	7329
177	1201	2225	3249	4273	5297	6321	7345
193	1217	2241	3265	4289	5313	6337	7361
209	1233	2257	3281	4305	5329	6353	7377
225	1249	2273	3297	4321	5345	6369	7393
241	1265	2289	3313	4337	5361	6385	7409
257	1281	2305	3329	4353	5377	6401	7425
273	1297	2321	3345	4369	5393	6417	7441
289	1313	2337	3361	4385	5409	6433	7457
305	1329	2353	3377	4401	5425	6449	7473
321	1345	2369	3393	4417	5441	6465	7489
337	1361	2385	3409	4433	5457	6481	7505
353	1377	2401	3425	4449	5473	6497	7521
369	1393	2417	3441	4465	5489	6513	7537
385	1409	2433	3457	4481	5505	6529	7553
401	1425	2449	3473	4497	5521	6545	7569
417	1441	2465	3489	4513	5537	6561	7585
433	1457	2481	3505	4529	5553	6577	7601
449	1473	2497	3521	4545	5569	6593	7617
465	1489	2513	3537	4561	5585	6609	7633
481	1505	2529	3553	4577	5601	6625	7649
497	1521	2545	3569	4593	5617	6641	7665
513	1537	2561	3585	4609	5633	6657	7681
529	1553	2577	3601	4625	5649	6673	7697
545	1569	2593	3617	4641	5665	6689	7713
561	1585	2609	3633	4657	5681	6705	7729
577	1601	2625	3649	4673	5697	6721	7745
593	1617	2641	3665	4689	5713	6737	7761
609	1633	2657	3681	4705	5729	6753	7777
625	1649	2673	3697	4721	5745	6769	7793
641	1665	2689	3713	4737	5761	6785	7809
657	1681	2705	3729	4753	5777	6801	7825
673	1697	2721	3745	4769	5793	6817	7841
689	1713	2737	3761	4785	5809	6833	7857
705	1729	2753	3777	4801	5825	6849	7873
721	1745	2769	3793	4817	5841	6865	7889
737	1761	2785	3809	4833	5857	6881	7905
753	1777	2801	3825	4849	5873	6897	7921
769	1793	2817	3841	4865	5889	6913	7937
785	1809	2833	3857	4881	5905	6929	7953
801	1825	2849	3873	4897	5921	6945	7969
817	1841	2865	3889	4913	5937	6961	7985
833	1857	2881	3905	4929	5953	6977	8001
849	1873	2897	3921	4945	5969	6993	8017
865	1889	2913	3937	4961	5985	7009	8033
881	1905	2929	3953	4977	6001	7025	8049
897	1921	2945	3969	4993	6017	7041	8065
913	1937	2961	3985	5009	6033	7057	8081
929	1953	2977	4001	5025	6049	7073	8097
945	1969	2993	4017	5041	6065	7089	8113
961	1985	3009	4033	5057	6081	7105	8129
977	2001	3025	4049	5073	6097	7121	8145
993	2017	3041	4065	5089	6113	7137	8161
1009	2033	3057	4081	5105	6129	7153	8177

General

No number larger than specified under the "SET SIZE" menu during configuration may be used as an address for either registers or discretes.