

**R E L I A N C E   E L E C T R I C**

***AutoMate Programming System***

***Title Information***

**Name       : Reliance Electric Co.**

**Location : Cleveland, OH   (800) 241-2886**

**Revi si on : 1**

**Job No.   : 1**

**Engi neer : Don Smi th**

**06/17/97 --- 15:54:57**

**Application program file: C:\C\APS\A30DEM0. APR   10/06/92  10:46**  
**Database file            : C:\C\APS\A30DEM0. DB     06/17/97  15:52**

<b>AutoMate type</b>	<b>: A30E</b>	<b>Number of Sequences</b>	<b>: 49</b>
<b>Program Size</b>	<b>: 463 words</b>	<b>Number of Database Recs</b>	<b>: 906</b>
<b>Maximum Program Size</b>	<b>: 8192 words</b>	<b>Number of Names</b>	<b>: 329</b>
<b>Register Limit</b>	<b>: 20000-20000</b>	<b>Node Number</b>	<b>: 0</b>
<b>Program File Format</b>	<b>: APR</b>	<b>Maximum No. of Nodes</b>	<b>: 0</b>

File: *A30DEMO*  
Name: *Reliance Electric Co.*  
Eng.: *Don Smith*

*June 17, 1997*  
Location: *Cleveland, OH*  
Job No.: *1*  
*Sequence Listing*

Page: *1*  
(800) *241-2886*  
Rev.: *1*

Program size = 463 words  
Register limit = 20000

Coils in program

40. 03>1	40. 02>2	40. 12>5	41. 02>7	40. 10>9	44. 14>11	44. 16>14
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41. 12>43	41. 07>46	6. 16>47	40. 06>48	13. 02>49	41. 04>51	41. 05>52
1. 13>53	44. 05>56	12. 12>57	41. 06>60	44. 06>63	44. 07>65	41. 17>66
41. 13>68	41. 14>70	12. 14>71	12. 00>72	12. 10>75	12. 16>78	12. 02>81
12. 01>84	41. 16>87	12. 13>88	44. 01>91	1. 12>92	40. 07>96	43. 16>97









³D0628 WATRUN SV628 12.15 (DO): Lower Mandril Loader  
³ 52 41 12  
24>AAA' AAAA' AAA( ) ] [: 12.15>26  
³ .15 .03 .15  
³PB6006 LS610 LS633 PB6007 WNDMAN³  
³ 10 11 13 11 40 ³  
25>AAA' AAAA' /AAAA' /AAAA' /AAAA' AAÜ  
³ .17 ³ .07 .11 .00 .04  
³SV628 ³  
³ 12 ³  
26>AAA' AAÜ  
³ .15

³D0636 WATRUN SV636 12.07 (DO): Lower Thread Belt To Mandril  
³ 52 41 12  
27>AAA' AAAA' AAA( ) ] [: 12.07>29  
³ .07 .03 .07  
³PB6015 PB6016 WNDMAN³  
³ 13 13 40 ³  
28>AAA' AAAA' /AAAA' AAÜ  
³ .14 ³ .15 .04  
³SV636 ³  
³ 12 ³  
29>AAA' AAÜ  
³ .07

³D0619 WATRUN SV619 12.03 (DO): Close Mand Transfer Arm Lock  
³ 52 41 12  
30>AAA' AAAA' AAA( ) ] [: 12.03>32  
³ .03 .03 .03  
³PB6011 PB6010 LS632 WNDMAN³  
³ 11 11 13 40 ³  
31>AAA' AAAA' /AAAA' AAAA' AAÜ  
³ .15 ³ .14 .10 .04  
³SV619 ³  
³ 12 ³  
32>AAA' AAÜ  
³ .03

³D0620 WATRUN SV620 12.04 (DO): Lower Mandril Starter Belt  
³ 52 41 12  
33>AAA' AAAA' AAA( ) ] [: 12.04>35  
³ .04 .03 .04  
³PB6013 PB6014 WNDMAN³  
³ 13 13 40 ³  
34>AAA' AAAA' AAAA' AAÜ  
³ .12 ³ .13 .04  
³SV620 ³  
³ 12 ³  
35>AAA' AAÜ  
³ .04

³WCUTDY Éíííííííííííííí» CTONDY 41.11 (IR): Winder Cutter On Delay  
³ 41 0 41  
36>AAA' AAAx Data Out xAAA( ) ] [: 41.12>43  
³ .10 0 TON 0 .11  
0 0  
0 0  
0 Clock: 1 0  
0 0  
0 Preset: 2103 0  
0 Value: 5 0  
0 Elapsed: 2204 0  
0 Value: 0 0  
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Ladder Listing

```
³PB6024 PB6025 PB6023 LS611 WNDMAN SV616
³ 14 14 14 11 40 12
72>AAA' AAAA' AAAA' /AAAA' AAAA' AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA( )
³ .13 ³ .14 .12 .10 .04 ³ .00
³SV616 ³
³ 12 ³
73>AAA' AAU
³ .00
³D0616 WATRUN
³ 52 41
74>AAA' AAAA' AAAAAAAAAAAAAAAAAAAAAAAAAAAU
.00 .03
```

12.00 (DO): Lower Mandril Transfer Arm  
] [: 1.12>92, 12.00>73  
11.10 (DI): Mandril Transfer Arms Unload  
12.00 (DO):>72; Lower Mandril Transfer Arm  
14.12 (DI): Raise Mandril Transfer Arm  
14.13 (DI): Lower Mandril Transfer Arm  
14.14 (DI): Stop Mandril Transfer Arm  
40.04 (IR):>15; Winder Manual Control Enable  
41.03 (IR):>19; Winder Automatic Cycle Run  
52.00 (IR):>22; Lower Mandril Transfer Arm

```
³D0623 WATRUN SV623
³ 52 41 12
75>AAA' AAAA' AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA( )
³ .10 .03 ³ ³ .10
³WDRUN WATRUN³
³ 41 41 ³ ³
76>AAA' AAAA' /AAU
³ .02 .03
³PB6001 PB6002 WNDMAN³
³ 10 10 40 ³
77>AAA' AAAA' /AAAA' AAU
.04 .05 .04
```

12.10 (DO): Main Winding Arm Forward  
10.04 (DI): Main Winding Arm Forward  
10.05 (DI): Main Winding Arm Reverse  
40.04 (IR):>15; Winder Manual Control Enable  
41.02 (IR):>7; Winder System Run  
41.03 (IR):>19; Winder Automatic Cycle Run  
52.10 (IR):>22; Main Winding Arm Forward

```
³D0629 WATRUN SV629
³ 52 41 12
78>AAA' AAAA' AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA( )
³ .16 .03 ³ .16
³MF6030 PB6006 LS633 WNDMAN³
³ 1 10 13 40 ³
79>AAA' AAAA' /AAAA' /AAAA' AAU
³ .00 ³ .17 .11 .04
³SV629 ³
³ 12 ³
80>AAA' AAU
.16
```

12.16 (DO): Raise Mandril Loader  
] [: 12.16>80  
1.00 (DO): Winder Kicker - Wall Side FWD  
10.17 (DI): Lower New Mandril Loader  
12.16 (DO):>78; Raise Mandril Loader  
13.11 (DI): Mand Transfer Arm Lock Open  
40.04 (IR):>15; Winder Manual Control Enable  
41.03 (IR):>19; Winder Automatic Cycle Run  
52.16 (IR):>22; Raise Mandril Loader

```
³PB6010 PB6011 LS633 WNDMAN SV618
³ 11 11 13 40 12
81>AAA' AAAA' /AAAA' AAAA' AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA( )
³ .14 ³ .15 .11 .04 ³ .02
³SV618 ³
³ 12 ³
82>AAA' AAU
³ .02
³D0618 WATRUN
³ 52 41
83>AAA' AAAA' AAAAAAAAAAAAAAAAAAAU
.02 .03
```

12.02 (DO): Open Mandril Transfer Arm Lock  
] [: 12.02>82  
11.14 (DI): Open Mand Transfer Arm Lock  
11.15 (DI): Close Mand Transfer Arm Lock  
12.02 (DO):>81;  
Open Mandril Transfer Arm Lock  
13.11 (DI): Mand Transfer Arm Lock Open  
40.04 (IR):>15; Winder Manual Control Enable  
41.03 (IR):>19; Winder Automatic Cycle Run  
52.02 (IR):>22; Open Mandril Transfer Arm

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³PB6023 PB6025 PB6024 LS610 WNDMAN SV617
³ 14 14 14 11 40 12
84>AAA' AAAA' AAAA' /AAAA' AAAA' AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA( )
³ .12 ³ .14 .13 .07 .04 ³ .01
³SV617 ³
³ 12 ³
85>AAA' AAU
³ .01
³D0617 WATRUN
³ 52 41
86>AAA' AAAA' AAAAAAAAAAAAAAAAAAAU
.01 .03
```

12.01 (DO): Raise Mandril Transfer Arm  
] [: 1.12>93, 12.01>85  
11.07 (DI): Mandril Transfer Arms Load  
12.01 (DO):>84; Raise Mandril Transfer Arm  
14.12 (DI): Raise Mandril Transfer Arm  
14.13 (DI): Lower Mandril Transfer Arm  
14.14 (DI): Stop Mandril Transfer Arm  
40.04 (IR):>15; Winder Manual Control Enable  
41.03 (IR):>19; Winder Automatic Cycle Run  
52.01 (IR):>22; Raise Mandril Transfer Arm

LS610 LS633 CUTMAD LS637 LS636 RCHGCO 41.16 (IR): Winder Roll Change Cycle Compl  
3 11 13 41 13 13 41  
87>AAA' /AAAA' /AAAA' AAAA' AAAA' AAAA' /AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA( )  
3 .07 .11 .17 .07 .06 .16 ][: 41.03>19

D0626 WATRUN BRUPOK SV626 12.13 (DO): Raise Roll Transfer Bridge  
3 52 41 44 12  
88>AAA' AAAA' /AAAA' /AAAA' AAAA' /AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA( )  
3 .13 .03 .01 .13 ][: 1.12>95, 12.13>90

PB6004 PB6003 PB6005 SV626 10.10 (DI): Lower Roll Transfer Bridge  
3 10 10 10 3 10.11 (DI): Raise Roll Transfer Bridge  
89>AAA' AAAA' /AAAA' AAU 10.12 (DI): Stop Roll Transfer Bridge  
3 .11 .10 .12 12.13 (DO): >88; Raise Roll Transfer Bridge  
3 SV626 3 41.03 (IR): >19; Winder Automatic Cycle Run  
3 12 3 44.01 (IR): >91; OK To Raise Transfer Bridge  
90>AAA' AAU 52.13 (IR): >22; Raise Roll Transfer Bridge  
3 13

LS603 LS641 LS643 LS704A LS704B LS702 BRUPOK 44.01 (IR): OK To Raise Transfer Bridge  
3 10 10 10 4 4 4 44  
91>AAA' AAAA' /AAAA' /AAAA' AAAA' AAAA' /AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA( )  
3 .13 .01 .03 .03 .04 .00 .01 ][: 12.13>88

SV616 WNDRUN MS6010 4.00 (DI): Roll In First Pos Main Chain  
3 12 41 1  
92>AAA' AAAA' /AAAA' /AAAA' /AAAA' /AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA( )  
3 .00 .02 .12 4.03 (DI): New Roll In Main Chain Saddle  
3 SV617 3 4.04 (DI): New Roll In Main Chain Saddle  
3 12 3 10.01 (DI): Kicker - Wall Side Retracted

93>AAA' AA' 10.03 (DI): Kicker - Aisle Side Retracted  
3 .01 3 10.13 (DI): Roll Transfer Bridge UP  
3 SV625 3 1.12 (DO): Winder Hydraulic System Pump  
3 12 3 12.00 (DO): >72; Lower Mandril Transfer Arm  
3 12 3 12.01 (DO): >84; Raise Mandril Transfer Arm  
3 SV626 3 12.12 (DO): >57; Lower Roll Transfer Bridge  
3 12 3 12.13 (DO): >88; Raise Roll Transfer Bridge  
94>AAA' AA' 41.02 (IR): >7; Winder System Run  
3 .12 3

95>AAA' AAU 13

MF7020 LS704A LS704B ROL/CH WATRUN CHAIDX 40.07 (IR): Roll Chain Indexed W/New Roll  
3 2 4 4 43 41 40  
96>AAA' /AAAA' /AAAA' /AAAA' /AAAA' /AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA( )  
3 .04 .03 .04 .16 .03 .07 2.04 (DO): Roll Storage Chain Forward  
4.03 (DI): New Roll In Main Chain Saddle  
4.04 (DI): New Roll In Main Chain Saddle  
41.03 (IR): >19; Winder Automatic Cycle Run  
43.16 (IR): >97; New Roll Loaded On Chain

LS704A LS704B WATRUN ROL/CH 43.16 (IR): New Roll Loaded On Chain  
3 4 4 41 43  
97>AAA' /AAAA' /AAAA' /AAAA' /AAAA' /AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA( )  
3 .03 .04 .03 .16 ][: 40.07>96

4.03 (DI): New Roll In Main Chain Saddle  
4.04 (DI): New Roll In Main Chain Saddle  
41.03 (IR): >19; Winder Automatic Cycle Run

Point Number	Type	Name	Description	Note	Page	Line
1. 12	(DO)	- ( )	MS6010 Winder Hydraulic System Pump	M C. C. Starter for M 6010	11	92
1. 13	(DO)	- ( )	MS6020 Winder Transfer Arm Motor	M C. C. Starter for M 6020	8	53
6. 16	(DO)	- ( )	DORLOK Release Access Door Locks	X 7000 Electric Door Latch	7	47
12. 00	(DO)	- ( )	SV616 Lower Mandril Transfer Arm	X 6000 Solenoid Valve SV 616	10	72
12. 01	(DO)	- ( )	SV617 Raise Mandril Transfer Arm	X 6000 Solenoid Valve SV 617	10	84
12. 02	(DO)	- ( )	SV618 Open Mandril Transfer Arm Lock	X 6000 Solenoid Valve SV 618	10	81
12. 03	(DO)	- ( )	SV619 Close Mand Transfer Arm Lock	X 6000 Solenoid Valve SV 619	6	30
12. 04	(DO)	- ( )	SV620 Lower Mandril Starter Belt	X 6000 Solenoid Valve SV 620	6	33
12. 05	(DO)	- ( )	SV621 Activate Web Cutter	X 6000 Solenoid Valve SV 621	7	37
12. 06	(DO)	TON	SV622 Activate Web Tail Blower	X 6000 Solenoid Valve SV 622	7	39
12. 07	(DO)	- ( )	SV636 Lower Thread Belt To Mandril	X 6000 Solenoid Valve SV 636	6	27
12. 10	(DO)	- ( )	SV623 Main Winding Arm Forward	X 6000 Solenoid Valve SV 623	10	75
12. 11	(DO)	- ( )	SV624 Main Winding Arm Reverse	X 6000 Solenoid Valve SV 624	7	41
12. 12	(DO)	- ( )	SV625 Lower Roll Transfer Bridge	X 6000 Solenoid Valve SV 625	8	57
12. 13	(DO)	- ( )	SV626 Raise Roll Transfer Bridge	X 6000 Solenoid Valve SV 626	11	88
12. 14	(DO)	- ( )	SV627 Full Range Roll Mandril Brake	X 6000 Solenoid Valve SV 627	9	71
12. 15	(DO)	- ( )	SV628 Lower Mandril Loader	X 6000 Solenoid Valve SV 628	6	24
12. 16	(DO)	- ( )	SV629 Raise Mandril Loader	X 6000 Solenoid Valve SV 629	10	78
13. 01	(DO)	- ( )	PL6001 Winder System ON	CP 600 Lamp	4	17
13. 02	(DO)	- ( )	PL6002 Winder System 'Ready To Cut'	CP 600 IPB Lamp	8	49
13. 03	(DO)	- ( )	PL6003 Winder System Manual Op Enable	CP 600 Lamp	4	18
40. 02	(IR)	SHBR	FLASHR 1/2 Second Flasher for CP 430		2	2
40. 03	(IR)	- ( )	INITZE Program Initialization 1 Shot		2	1
40. 04	(IR)	- ( )	WDMAN Winder Manual Control Enable		4	15
40. 05	(IR)	- ( )	WDATE Winder Automatic Cont Enable		4	16
40. 06	(IR)	- ( )	WAUTOK Winder Set Up OK for Auto Cyc		8	48
40. 07	(IR)	- ( )	CHAIDX Roll Chain Indexed W/New Roll		11	96
40. 10	(IR)	SCALI	WHITEN Winder Web Tension > Setpoint		3	9
40. 11	(IR)	SCALI	WLOTEN Winder Web Tension < Setpoint		3	9
40. 12	(IR)	COUNTER	HOURS1 Hour Timer For Equipment Log		2	5
40. 13	(IR)	COUNTER	HOURS2 Hour Timer For Equipment Log		2	5
41. 02	(IR)	- ( )	WDRUN Winder System Run		3	7
41. 03	(IR)	- ( )	WATRUN Winder Automatic Cycle Run		5	19
41. 04	(IR)	- ( )	A1SCAN Winder Auto Cycle 1 Scan		8	51
41. 05	(IR)	- ( )	A1SAUX Winder Auto Cycle 1 Scan Aux		8	52
41. 06	(IR)	- ( )	BRDNOK OK To Lower Transfer Bridge		9	60
41. 07	(IR)	- ( )	CNTRST Roll Metrage Counter Reset		7	46
41. 11	(IR)	TON	CTONDY Winder Cutter On Delay		6	36
41. 12	(IR)	- ( )	RSTCTR Web Cut Made - Reset Counter		7	43
41. 13	(IR)	- ( )	ROL@BR Full Roll @ Transfer Bridge		9	68
41. 14	(IR)	TON	RLBRTD Full Roll Brake On Delay		9	70
41. 16	(IR)	- ( )	RCHGCO Winder Roll Change Cycle Compl		11	87
41. 17	(IR)	- ( )	CUTMAD Roll Cut Made Relay		9	66
43. 16	(IR)	- ( )	ROL/CH New Roll Loaded On Chain		11	97
44. 01	(IR)	- ( )	BRUPOK OK To Raise Transfer Bridge		11	91
44. 05	(IR)	- ( )	RARMOK OK To Rotate Web Transfer Arms		8	56
44. 06	(IR)	- ( )	UPDQUE Roll Finished - Update Queue		9	63
44. 07	(IR)	- ( )	QUEUPD Roll Storage Queue Updated		9	65
44. 14	(IR)	PID	TNCLON Winder Tension Control On		3	11
44. 15	(IR)	PID	WTCLIM Winder Tension Control Limit		3	11
44. 16	(IR)	SCALO	WTRIML Winder Trim Low Limit		4	14
44. 17	(IR)	SCALO	WTRIMH Winder Trim High Limit		4	14
45. 00	(IR)	DRUMET	WDRMON Winder Drum Sequencer On		5	22
45. 01	(IR)	DRUMET	WDRMFIN Winder Drum Sequencer Finished		5	22
52. 00	(IR)	DRUMET	D0616 Lower Mandril Transfer Arm	X 6000 Solenoid Valve SV 616	5	22
52. 01	(IR)	DRUMET	D0617 Raise Mandril Transfer Arm	X 6000 Solenoid Valve SV 617	5	22
52. 02	(IR)	DRUMET	D0618 Open Mandril Transfer Arm	X 6000 Solenoid Valve SV 618	5	22
52. 03	(IR)	DRUMET	D0619 Close Mand Transfer Arm Lock	X 6000 Solenoid Valve SV 619	5	22
52. 04	(IR)	DRUMET	D0620 Lower Mandril Starter Belt	X 6000 Solenoid Valve SV 620	5	22
52. 05	(IR)	DRUMET	D0621 Activate Web Cutter	X 6000 Solenoid Valve SV 621	5	22
52. 06	(IR)	DRUMET	D0622 Activate Web Tail Blower	X 6000 Solenoid Valve SV 622	5	22
52. 07	(IR)	DRUMET	D0636 Lower Thread Belt to Mandril	X 6000 Solenoid Valve SV 636	5	22
52. 10	(IR)	DRUMET	D0623 Main Winding Arm Forward	X 6000 Solenoid Valve SV 623	5	22
52. 11	(IR)	DRUMET	D0624 Main Winding Arm Reverse	X 6000 Solenoid Valve SV 624	5	22
52. 12	(IR)	DRUMET	D0625 Lower Roll Transfer Bridge	X 6000 Solenoid Valve SV 625	5	22
52. 13	(IR)	DRUMET	D0626 Raise Roll Transfer Bridge	X 6000 Solenoid Valve SV 626	5	22
52. 14	(IR)	DRUMET	D0627 Full Range Roll Mandril Brake	X 6000 Solenoid Valve SV 627	5	22
52. 15	(IR)	DRUMET	D0628 Lower Mandril Loader	X 6000 Solenoid Valve SV 628	5	22
52. 16	(IR)	DRUMET	D0629 Raise Mandril Loader	X 6000 Solenoid Valve SV 629	5	22
52. 17	(IR)	DRUMET	D0630 Mandril Stop 1 Lower	X 6000 Solenoid Valve SV 630	5	22

File: *A30DEMO*  
Name: *Reliance Electric Co.*  
Eng.: *Don Smith*

*June 17, 1997*  
Location: *Cleveland, OH* (800) 241-2886  
Job No.: *1*  
Rev.: *1*  
*Section Index*

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Rev.: *1*

Point Number	Name	Comment	Page	Line
41.02	WDRUN	Ahlstrom-Hansen Winder Manual/Automatic Cycle Sequence	3	7

Contact & Coil Reference

Point Number	Name	Description	Card
1.00 (DO)	MF6030	Winder Kicker - Wall Side FWD ] [: 12.16>79:10	230VAC Out
1.12 (DO)	MS6010	Winder Hydraulic System Pump ( ): 1.12>92:11	230VAC Out
1.13 (DO)	MS6020	Winder Transfer Arm Motor ( ): 1.13>53:8 ] [: 1.13>54:8	230VAC Out
2.04 (DO)	MF7020	Roll Storage Chain Forward ]/[: 6.16>47:7 ]/[: 40.07>96:11	230VAC Out ]/[: 41.06>60:9
2.05 (DO)	MR7020	Roll Storage Chain Reverse ]/[: 6.16>47:7 ]/[: 41.06>60:9	230VAC Out
4.00 (DI)	LS702	Roll In First Pos Main Chain ]/[: 44.01>91:11	24 VAC/DC In
4.03 (DI)	LS704A	New Roll In Main Chain Saddle ] [: 40.07>96:11 ]/[: 43.16>97:11	24 VAC/DC In ] [: 44.01>91:11
4.04 (DI)	LS704B	New Roll In Main Chain Saddle ] [: 40.07>96:11 ]/[: 43.16>97:11	24 VAC/DC In ] [: 44.01>91:11
5.02 (DI)	LS717	Main Chain Saddle OK - Winder ]/[: 41.06>60:9	24 VAC/DC In
5.07 (DI)	LS720A	Access Door Closed - Aisle ] [: 41.06>60:9	24 VAC/DC In
5.10 (DI)	LS720B	Access Door Closed - Wall ] [: 41.06>60:9	24 VAC/DC In
6.13 (DI)	LS723	Main Chain Saddle OK - Slitter ]/[: 41.06>61:9	24 VAC/DC In
6.16 (DO)	DORLOK	Release Access Door Locks ( ): 6.16>47:7	Contact Out(NO)
10.01 (DI)	LS641	Kicker - Wall Side Retracted ]/[: 44.01>91:11	24 VAC/DC In
10.03 (DI)	LS643	Kicker - Aisle Side Retracted ]/[: 44.01>91:11	24 VAC/DC In
10.04 (DI)	PB6001	Main Winding Arm Forward ] [: 12.10>77:10 ]/[: 12.11>41:7	24 VAC/DC In
10.05 (DI)	PB6002	Main Winding Arm Reverse ]/[: 12.10>77:10 ] [: 12.11>41:7	24 VAC/DC In ] [: 40.06>48:8
10.10 (DI)	PB6003	Lower Roll Transfer Bridge ] [: 12.12>58:8 ]/[: 12.13>89:11	24 VAC/DC In
10.11 (DI)	PB6004	Raise Roll Transfer Bridge ]/[: 12.12>58:8 ] [: 12.13>89:11	24 VAC/DC In
10.12 (DI)	PB6005	Stop Roll Transfer Bridge ] [: 12.12>58:8 ] [: 12.13>89:11	24 VAC/DC In
10.13 (DI)	LS603	Roll Transfer Bridge UP ] [: 44.01>91:11	24 VAC/DC In
10.14 (DI)	LS604	Roll Transfer Bridge DOWN ] [: 12.12>57:8	24 VAC/DC In
10.15 (DI)	LS639	Mandril Starter Belt Retracted ] [: 44.05>56:8	24 VAC/DC In
10.16 (DI)	LS605	Full Range Roll @ Bridge ] [: 41.13>68:9	24 VAC/DC In

## Contact &amp; Coil Reference

Point Number	Name	Description	Card
10.17 (DI)	PB6006	Lower New Mandril Loader ] [: 12.15>25:6 ]/[: 12.16>79:10	24 VAC/DC In
11.00 (DI)	PB6007	Raise New Mandril Loader ]/[: 12.15>25:6	24 VAC/DC In
11.02 (DI)	LS607	New Mandril Loader UP ]/[: 40.06>48:8	24 VAC/DC In
11.07 (DI)	LS610	Mandril Transfer Arms Load ] [: 12.01>84:10 ]/[: 12.15>25:6 ]/[: 40.06>48:8 ]/[: 41.16>87:11	24 VAC/DC In
11.10 (DI)	LS611	Mandril Transfer Arms Unload ] [: 12.00>72:10 ] [: 41.13>68:9	24 VAC/DC In
11.12 (DI)	LS613	Transfer Arm Transfer Position ]/[: 1.13>54:8	24 VAC/DC In
11.13 (DI)	LS614	Transfer Arm Idle Position ]/[: 1.13>54:8	24 VAC/DC In
11.14 (DI)	PB6010	Open Mand Transfer Arm Lock ] [: 12.02>81:10 ]/[: 12.03>31:6	24 VAC/DC In
11.15 (DI)	PB6011	Close Mand Transfer Arm Lock ]/[: 12.02>81:10 ] [: 12.03>31:6	24 VAC/DC In
12.00 (D0)	SV616	Lower Mandril Transfer Arm ] [: 1.12>92:11 ( ): 12.00>72:10	24VAC Out ] [: 12.00>73:10
12.01 (D0)	SV617	Raise Mandril Transfer Arm ] [: 1.12>93:11 ( ): 12.01>84:10	24VAC Out ] [: 12.01>85:10
12.02 (D0)	SV618	Open Mandril Transfer Arm Lock ( ): 12.02>81:10 ] [: 12.02>82:10	24VAC Out
12.03 (D0)	SV619	Close Mand Transfer Arm Lock ( ): 12.03>30:6 ] [: 12.03>32:6	24VAC Out
12.04 (D0)	SV620	Lower Mandril Starter Belt ( ): 12.04>33:6 ] [: 12.04>35:6	24VAC Out
12.05 (D0)	SV621	Activate Web Cutter ( ): 12.05>37:7 ] [: 12.06>39:7	24VAC Out
12.06 (D0)	SV622	Activate Web Tail Blower ( ): 12.06>39:7	24VAC Out
12.07 (D0)	SV636	Lower Thread Belt To Mandril ( ): 12.07>27:6 ] [: 12.07>29:6	24VAC Out
12.10 (D0)	SV623	Main Winding Arm Forward ( ): 12.10>75:10	24VAC Out
12.11 (D0)	SV624	Main Winding Arm Reverse ( ): 12.11>41:7	24VAC Out
12.12 (D0)	SV625	Lower Roll Transfer Bridge ] [: 1.12>94:11 ( ): 12.12>57:8	24VAC Out ] [: 12.12>59:8
12.13 (D0)	SV626	Raise Roll Transfer Bridge ] [: 1.12>95:11 ( ): 12.13>88:11	24VAC Out ] [: 12.13>90:11
12.14 (D0)	SV627	Full Range Roll Mandril Brake ( ): 12.14>71:9	24VAC Out
12.15 (D0)	SV628	Lower Mandril Loader ( ): 12.15>24:6 ] [: 12.15>26:6	24VAC Out
12.16 (D0)	SV629	Raise Mandril Loader ( ): 12.16>78:10 ] [: 12.16>80:10	24VAC Out



## Contact &amp; Coil Reference

Point Number	Name	Description	Card
13.01 (DO)	PL6001	Winder System ON ( ): 13.01>17:4	24VAC Out
13.02 (DO)	PL6002	Winder System 'Ready To Cut' ( ): 13.02>49:8	24VAC Out
13.03 (DO)	PL6003	Winder System Manual Op Enable ( ): 13.03>18:4	24VAC Out
13.06 (DI)	LS636	MF Mandril In Position 2 ] [ : 41.16>87:11	24 VAC/DC In
13.07 (DI)	LS637	MF Mandril In Loader ] [ : 40.06>48:8 ] [ : 41.03>19:5	24 VAC/DC In ] [ : 41.16>87:11
13.10 (DI)	LS632	Mand Transfer Arm Lock Closed ] [ : 12.03>31:6	24 VAC/DC In
13.11 (DI)	LS633	Mand Transfer Arm Lock Open ] [ : 12.02>81:10 ]/[ : 12.15>25:6	24 VAC/DC In ]/[ : 12.16>79:10 ]/[ : 41.16>87:11
13.12 (DI)	PB6013	Lower New Mandril Starter ] [ : 12.04>34:6	24 VAC/DC In
13.13 (DI)	PB6014	Raise New Mandril Starter ] [ : 12.04>34:6 ]/[ : 40.06>48:8	24 VAC/DC In
13.14 (DI)	PB6015	Lower Thread Belt To Mandril ] [ : 12.07>28:6	24 VAC/DC In
13.15 (DI)	PB6016	Retract Thread Belt ]/[ : 12.07>28:6	24 VAC/DC In
13.17 (DI)	LS635	Thread Belt Retracted ] [ : 40.06>48:8 ] [ : 44.05>56:8	24 VAC/DC In
14.00 (DI)	DESRON	Drive E Stop Relay ON ] [ : 41.02>7:3	230 VAC/DC In
14.04 (DI)	PB6017	Winder System Start ] [ : 41.02>7:3	24 VAC/DC In
14.05 (DI)	PB6018	Winder System Stop ] [ : 1.13>53:8 ] [ : 41.02>7:3	24 VAC/DC In
14.07 (DI)	PB6020	Run Air Blower ] [ : 12.06>40:7 ] [ : 41.03>20:5	24 VAC/DC In
14.10 (DI)	KS6021	Winder System Manual Control ] [ : 40.04>15:4 ]/[ : 40.05>16:4	24 VAC/DC In
14.11 (DI)	SS6022	Range Roll Change Automatic ] [ : 41.03>19:5	24 VAC/DC In
14.12 (DI)	PB6023	Raise Mandril Transfer Arm ]/[ : 12.00>72:10 ] [ : 12.01>84:10	24 VAC/DC In
14.13 (DI)	PB6024	Lower Mandril Transfer Arm ] [ : 12.00>72:10 ]/[ : 12.01>84:10	24 VAC/DC In
14.14 (DI)	PB6025	Stop Mandril Transfer Arm ] [ : 12.00>72:10 ] [ : 12.01>84:10	24 VAC/DC In
14.15 (DI)	PB6026	Rotate Web Transfer Arm ] [ : 1.13>53:8	24 VAC/DC In
14.16 (DI)	PB6027	Stop Web Transfer Arm ] [ : 1.13>53:8	24 VAC/DC In
14.17 (DI)	PB6028	Cut New Range Roll ] [ : 12.05>38:7 ] [ : 41.12>44:7	24 VAC/DC In

Contact & Coil Reference

Point Number	Name	Description	Card
40.00 (IR)	ROLEN1	Range Roll Length > Preset ] [: 41.03>19:5	
40.01 (IR)	ROLEN2	Range Roll Length < Preset ] [: 13.02>49:8	
40.02 (IR)	FLASHR	1/2 Second Flasher for CP 430 ] [: 13.02>50:8 ] [: 13.03>18:4 ] [: 44.05>56:8	( ): 40.02>2:2 ]/[: 40.02>2:2
40.03 (IR)	INITZE	Program Initialization 1 Shot ] [: 40.02>2:2 ]/[: 40.02>4:2	( ): 40.03>1:2
40.04 (IR)	WDMAN	Winder Manual Control Enable ] [: 1.13>53:8 ] [: 12.00>72:10 ] [: 12.03>31:6 ] [: 12.04>34:6 ] [: 12.07>28:6 ] [: 12.10>77:10 ] [: 12.15>25:6 ] [: 12.16>79:10 ] [: 41.06>62:9 ] [: 41.12>44:7	] [: 12.01>84:10 ] [: 12.02>81:10 ] [: 12.05>38:7 ] [: 12.06>40:7 ] [: 12.11>41:7 ] [: 12.12>58:8 ] [: 13.03>18:4 ( ): 40.04>15:4
40.05 (IR)	WDATE	Winder Automatic Cont Enable ]/[: 6.16>47:7 ] [: 13.02>49:8	( ): 40.05>16:4 ] [: 41.03>19:5
40.06 (IR)	WAUTOK	Winder Set Up OK for Auto Cyc ] [: 13.02>49:8 ( ): 40.06>48:8	] [: 41.03>19:5
40.07 (IR)	CHAIDX	Roll Chain Indexed W/New Roll ( ): 40.07>96:11	
40.10 (IR)	WHITEN	Winder Web Tension > Setpoint ( ): 40.10>9:3	
40.11 (IR)	WLOTEN	Winder Web Tension < Setpoint ( ): 40.10>9:3	
40.12 (IR)	HOURS1	Hour Timer For Equipment Log ( ): 40.12>5:2 ] [: 40.12>6:2	
40.13 (IR)	HOURS2	Hour Timer For Equipment Log ( ): 40.12>5:2	
41.02 (IR)	WDRUN	Winder System Run ] [: 1.12>92:11 ] [: 12.10>76:10 ] [: 40.05>16:4 ] [: 40.10>9:3 ] [: 41.02>8:3 ] [: 44.14>11:3	] [: 13.01>17:4 ] [: 40.04>15:4 ] [: 40.10>10:3 ( ): 41.02>7:3 ] [: 44.16>14:4
41.03 (IR)	WATRUN	Winder Automatic Cycle Run ] [: 1.13>55:8 ] [: 12.00>74:10 ] [: 12.03>30:6 ] [: 12.04>33:6 ] [: 12.07>27:6 ] [: 12.10>75:10 ] [: 12.12>57:8 ] [: 12.13>88:11 ] [: 12.16>78:10 ]/[: 13.02>49:8 ] [: 41.03>21:5 ] [: 41.04>51:8 ] [: 41.13>69:9 ] [: 41.13>68:9 ] [: 45.00>22:5 ]/[: 45.00>23:5	] [: 12.01>86:10 ] [: 12.02>83:10 ] [: 12.05>37:7 ] [: 12.06>39:7 ]/[: 12.10>76:10 ] [: 12.11>42:7 ] [: 12.14>71:9 ] [: 12.15>24:6 ] [: 40.07>96:11 ( ): 41.03>19:5 ] [: 41.05>52:8 ] [: 41.12>43:7 ] [: 41.17>66:9 ] [: 43.16>97:11
41.04 (IR)	A1SCAN	Winder Auto Cycle 1 Scan ( ): 41.04>51:8	
41.05 (IR)	A1SAUX	Winder Auto Cycle 1 Scan Aux ]/[: 41.04>51:8 ( ): 41.05>52:8	
41.06 (IR)	BRDNOK	OK To Lower Transfer Bridge ] [: 12.12>57:8 ( ): 41.06>60:9	
41.07 (IR)	CNTRST	Roll Mstrage Counter Reset ( ): 41.07>46:7 ] [: 41.07>46:7	]/[: 41.12>45:7
41.10 (IR)	WCUTDY	Winder Cutter Start Delay ] [: 41.11>36:6	
41.11 (IR)	CTONDY	Winder Cutter On Delay ( ): 41.11>36:6 ] [: 41.12>43:7	

Contact & Coil Reference

Point Number	Name	Description	Card
41.12 (IR)	RSTCTR	Web Cut Made - Reset Counter ] [: 41.07>46:7 ( ) : 41.12>43:7 ] [: 44.06>63:9	] [: 41.12>45:7 ] [: 41.17>66:9
41.13 (IR)	ROL@BR	Full Roll @ Transfer Bridge ( ) : 41.13>68:9 ] [: 41.14>70:9	
41.14 (IR)	RLBRTD	Full Roll Brake On Delay ( ) : 41.14>70:9	
41.16 (IR)	RCHGCO	Winder Roll Change Cycle Compl ] / [: 41.03>19:5 ( ) : 41.16>87:11	
41.17 (IR)	CUTMAD	Roll Cut Made Relay ] [: 41.16>87:11 ( ) : 41.17>66:9	] [: 41.17>67:9
42.00 (IR)	STOAUT	Roll Storage System Automatic ] / [: 41.06>61:9	
42.05 (IR)	RL@WDR	Roll Chain - Roll At Winder ] [: 41.06>60:9	
43.16 (IR)	ROL/CH	New Roll Loaded On Chain ] [: 40.07>96:11 ( ) : 43.16>97:11	
44.01 (IR)	BRUPOK	OK To Raise Transfer Bridge ] [: 12.13>88:11 ( ) : 44.01>91:11	
44.05 (IR)	RARMOK	OK To Rotate Web Transfer Arms ( ) : 44.05>56:8	
44.06 (IR)	UPDQUE	Roll Finished - Update Queue ( ) : 44.06>63:9 ] [: 44.06>64:9	] [: 44.07>65:9
44.07 (IR)	QUEUPD	Roll Storage Queue Updated ] / [: 44.06>64:9 ( ) : 44.07>65:9	] [: 44.07>65:9
44.13 (IR)	WEBBRK	Web Break ] [: 44.14>13:3 ] / [: 44.14>12:3	
44.14 (IR)	TNCLON	Winder Tension Control On ( ) : 44.14>11:3	
44.15 (IR)	WTCLIM	Winder Tension Control Limit ( ) : 44.14>11:3	
44.16 (IR)	WTRIML	Winder Trim Low Limit ( ) : 44.16>14:4	
44.17 (IR)	WTRIMH	Winder Trim High Limit ( ) : 44.16>14:4	
45.00 (IR)	WDRMDN	Winder Drum Sequencer On ( ) : 45.00>22:5	
45.01 (IR)	WDRMFN	Winder Drum Sequencer Finished ( ) : 45.00>22:5	
52.00 (IR)	D0616	Lower Mandril Transfer Arm ] [: 12.00>74:10 ( ) : 45.00>22:5	
52.01 (IR)	D0617	Raise Mandril Transfer Arm ] [: 12.01>86:10 ( ) : 45.00>22:5	
52.02 (IR)	D0618	Open Mandril Transfer Arm ] [: 12.02>83:10 ( ) : 45.00>22:5	
52.03 (IR)	D0619	Close Mand Transfer Arm Lock ] [: 12.03>30:6 ( ) : 45.00>22:5	
52.04 (IR)	D0620	Lower Mandril Starter Belt ] [: 12.04>33:6 ( ) : 45.00>22:5	

File: A30DEMO  
Name: Reliance Electric Co.  
Eng.: Don Smith

June 17, 1997  
Location: Cleveland, OH  
Job No.: 1

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Point Number	Name	Description	Card
52.05 (IR)	D0621	Activate Web Cutter ] [: 12.05>37:7 ( ): 45.00>22:5	
52.06 (IR)	D0622	Activate Web Tail Blower ( ): 45.00>22:5	
52.07 (IR)	D0636	Lower Thread Belt to Mandril ] [: 12.07>27:6 ( ): 45.00>22:5	
52.10 (IR)	D0623	Main Winding Arm Forward ] [: 12.10>75:10 ( ): 45.00>22:5	
52.11 (IR)	D0624	Main Winding Arm Reverse ] [: 12.11>42:7 ( ): 45.00>22:5	
52.12 (IR)	D0625	Lower Roll Transfer Bridge ] [: 12.12>57:8 ( ): 45.00>22:5	
52.13 (IR)	D0626	Raise Roll Transfer Bridge ] [: 12.13>88:11 ( ): 45.00>22:5	
52.14 (IR)	D0627	Full Range Roll Mandril Brake ] [: 12.14>71:9 ( ): 45.00>22:5	
52.15 (IR)	D0628	Lower Mandril Loader ] [: 12.15>24:6 ( ): 45.00>22:5	
52.16 (IR)	D0629	Raise Mandril Loader ] [: 12.16>78:10 ( ): 45.00>22:5	
52.17 (IR)	D0630	Mandril Stop 1 Lower ( ): 45.00>22:5	
53.05 (IR)	D06020	Winder Transfer Arm Motor ] [: 1.13>55:8	
76.03 (S )	RTC0.1	System Clock 0.1 Sec ] [: 40.02>3:2	
76.04 (S )	RTC1.0	System Clock 1 Sec. ] [: 40.12>5:2	
76.06 (S )	PWRUP	Power Up Coil ] / [: 40.03>1:2	

Register Crossreference

Register	Description	Note
0	*** Point Register *** 40. 12>5: 2      40. 12>5: 2	
52	*** Point Register *** 45. 00>22: 5	
2101	40. 10 Destin SCALI 44. 14>11: 3      40. 10>9: 3	Winder Web Tension > Setpoint
2103	41. 11 Preset TON 41. 11>36: 6	Winder Cutter On Delay
2104	12. 06 Preset TON 12. 06>39: 7	Activate Web Tail Blower
2105	41. 14 Preset TON 41. 14>70: 9	Full Roll Brake On Delay
2200	40. 02 Table SHBR 40. 02>2: 2	1/2 Second Flasher for CP 430
2204	41. 11 Elapsed TON 41. 11>36: 6	Winder Cutter On Delay
2205	12. 06 Elapsed TON 12. 06>39: 7	Activate Web Tail Blower
2206	41. 14 Elapsed TON 41. 14>70: 9	Full Roll Brake On Delay
2213	44. 14 Output PID 44. 14>11: 3	Winder Tension Control On
2214	44. 14 Error PID 44. 16>14: 4      44. 14>11: 3	Winder Tension Control On
2300	40. 10 Hi Lim SCALI 40. 10>9: 3	Winder Web Tension > Setpoint
2301	40. 10 Lo Lim SCALI 40. 10>9: 3	Winder Web Tension > Setpoint
2302	44. 14 SetPt PID 44. 14>11: 3	Winder Tension Control On
2400	45. 00>22: 5	
2430-2453	45. 00 Output DRUMET 1/20 45. 00>22: 5	Winder Drum Sequencer On
2460-2503	45. 00 Event DRUMET 1/20 45. 00>22: 5	Winder Drum Sequencer On
2520-2543	45. 00 Time DRUMET 1/20 45. 00>22: 5	Winder Drum Sequencer On
2550	45. 00 Pointer DRUMET 45. 00>22: 5	Winder Drum Sequencer On

Name	Number	Description	Note
A1SAUX	41.05	Winder Auto Cycle 1 Scan Aux	
A1SCAN	41.04	Winder Auto Cycle 1 Scan	
A3OERR	3775.02	A30E block in A30	
A3OSER	3777.15	A30 Card Slot Decode Err	
BOOERR	3777.14	Boolean Proc Test Err	
BRDNOK	41.06	OK To Lower Transfer Bridge	
BRUPOK	44.01	OK To Raise Transfer Bridge	
C/O10N	2.16	C/O 1 Saw Tooth Roll ON	Tellback for M 1630
C/O10P	2.17	C/O 1 Opening Roll ON	Tellback for M 1640
C/O20N	3.00	C/O 2 Saw Tooth Roll ON	Tellback for M 1730
C/O20P	3.01	C/O 2 Opening Roll ON	Tellback for M 1740
C/OFON	3.15	C/Os Transport Fan ON	Tellback for M 1540
C2CYON	3.02	Card 2 Main Cylinder ON	Tellback for M 3120
C3CYON	3.03	Card 3 Main Cylinder ON	Tellback for M 3220
C4CYON	3.04	Card 4 Main Cylinder ON	Tellback for M 3320
CALSAT	*** Rack ***	TB Calendar Control Chassis	
CH-STR	43.14	Put Roll @ Slitter For Loading	
CH@WDR	42.15	Roll Chain @ Winder For Roll	
CHAI DX	40.07	Roll Chain Indexed W/New Roll	
CHAI XD	44.12	Roll Chain Index with New Roll	
CHAMT1	41.00	Roll Chain Empty Counter	
CHAMT2	41.01	Roll Chain Empty Counter	
CHU10N	3.06	Chute 1 Opening Roll ON	Tellback for M 3010
CHU20N	3.07	Chute 2 Opening Roll ON	Tellback for M 3110
CHU30N	3.10	Chute 3 Opening Roll ON	Tellback for M 3210
CHU40N	3.11	Chute 4 Opening Roll ON	Tellback for M 3010
CNTRST	41.07	Roll Metrage Counter Reset	
COMPER	3777.11	Compile Error	
CONERR	3775.00	Configuration Error	
CTONDY	41.11	Winder Cutter On Delay	
CUTMAD	41.17	Roll Cut Made Relay	
DARGER	3774.02	Data Reg. Checksum Err	
DECQUE	44.10	Roll On Hoist - Dec Queue	
DESRON	14.00	Drive E Stop Relay ON	Drive System - E 01
DO6020	53.05	Winder Transfer Arm Motor	M C. C. Starter for M 6020
DO616	52.00	Lower Mandril Transfer Arm	X 6000 Solenoid Valve SV 616
DO617	52.01	Raise Mandril Transfer Arm	X 6000 Solenoid Valve SV 617
DO618	52.02	Open Mandril Transfer Arm	X 6000 Solenoid Valve SV 618
DO619	52.03	Close Mand Transfer Arm Lock	X 6000 Solenoid Valve SV 619
DO620	52.04	Lower Mandril Starter Belt	X 6000 Solenoid Valve SV 620
DO621	52.05	Activate Web Cutter	X 6000 Solenoid Valve SV 621
DO622	52.06	Activate Web Tail Blower	X 6000 Solenoid Valve SV 622
DO623	52.10	Main Winding Arm Forward	X 6000 Solenoid Valve SV 623
DO624	52.11	Main Winding Arm Reverse	X 6000 Solenoid Valve SV 624
DO625	52.12	Lower Roll Transfer Bridge	X 6000 Solenoid Valve SV 625
DO626	52.13	Raise Roll Transfer Bridge	X 6000 Solenoid Valve SV 626
DO627	52.14	Full Range Roll Mandril Brake	X 6000 Solenoid Valve SV 627
DO628	52.15	Lower Mandril Loader	X 6000 Solenoid Valve SV 628
DO629	52.16	Raise Mandril Loader	X 6000 Solenoid Valve SV 629
DO630	52.17	Mandril Stop 1 Lower	X 6000 Solenoid Valve SV 630
DO631	53.00	Mandril Stop 2 Lower	X 6000 Solenoid Valve SV 631
DO636	52.07	Lower Thread Belt to Mandril	X 6000 Solenoid Valve SV 636
DORLOK	6.16	Release Access Door Locks	X 7000 Electric Door Latch
EDIAOF	76.11	Expanded Diag. Disable	
EDIAON	76.10	Expanded Diag. Enable	
EPRERR	3777.12	EEPROM Burn Error	
EROERR	3774.00	Application EEROM Chks.	
EXEERR	3777.05	Executive Checksum Err	
EXKICK	42.04	Extend Roll Kickers Relay	
F/O10N	1.15	Fine Opener 1 AC Motors ON	Tellback for M 2020, 2110, 2120
F/O20N	3.16	Fine Opener 2 AC Motors ON	Tellback for M 2220, 2310, 2320
F/O30N	3.17	Fine Opener 3 AC Motors ON	Tellback for M 2420, 2510, 2520
F/O40N	1.14	Fine Opener 4 AC Motors ON	Tellback for M 2620\2710\2720
FLASHR	40.02	1/2 Second Flasher for CP 430	
HOURS1	40.12	Hour Timer For Equipment Log	
HOURS2	40.13	Hour Timer For Equipment Log	
HST<NR	43.07	Hoist Back To Clear New Roll	
HST>HM	43.11	MT Hoist Toward Slitter Home	
HST>ST	43.05	Hoist Toward Slitter With Roll	
HST>WD	42.14	Hoist Toward Winder Relay	
HSTDMT	43.00	Hoist Down To Pick Up Mandril	
HSTDNR	43.03	Hoist Down With MT For Roll	

Name	Number	Description	Note
HSTDOK	44.02	OK To Lower Mandril Hoist	
HSTDUL	43.06	Hoist Down To Unload New Roll	
HSTHOM	43.12	Hoist Home Relay	
HSTUHM	43.10	MT Hoist Up To Home Position	
HSTUMT	43.01	Hoist Up With MT Mandril	
HSTUNR	43.04	Hoist Up With New Roll	
HYHRS1	40.14	Hydraulic Pump Running Hours	
HYHRS2	40.15	Hydraulic Pump Running Hours	
I/OCON	3774.01	I/O Conf. Checksum Err	
INITZE	40.03	Program Initialization 1 Shot	
KEYERR	3777.13	Key Switch Error	
KS6021	14.10	Winder System Manual Control	CP 600 Key Switch
LBHRS1	40.16	Lubrication Oil Running Hours	
LBHRS2	40.17	Lubrication Oil Running Hours	
LD1SCA	42.11	Slitter Load Cycle 1 Scan	
LDCYCO	71.13	Slitter Load Cycle Complete	
LHDFP0	3760.00	Port 0 Local Head Fail	
LHDFP1	3760.01	Port 1 Local Head Fail	
LHDFP2	3760.02	Port 2 Local Head Fail	
LHDFP3	3760.03	Port 3 Local Head Fail	
LHPARE	76.12	Local Head Parity Enable	
LOADCY	71.10	Slitter Load Cycle Started	
LOADST	42.07	Load New Roll On Slitter Cycle	
LOCKOP	71.04	Slitter Unwind Locks Open	
LS601	10.06	Range Roll @ Dia D2	X 6000 Limit Switch LS 601
LS602	10.07	Main Winding Arm @ Bridge	X 6000 Limit Switch LS 602
LS603	10.13	Roll Transfer Bridge UP	X 6000 Limit Switch LS 603a, b
LS604	10.14	Roll Transfer Bridge DOWN	X 6000 Limit Switch LS 604a, b
LS605	10.16	Full Range Roll @ Bridge	X 6000 Limit Switch LS 605
LS606	11.01	New Mandril Loader DOWN	X 6000 Limit Switch LS 606
LS607	11.02	New Mandril Loader UP	X 6000 Limit Switch LS 607
LS608	11.05	Mandril Stop 1 UP	X 6000 Limit Switch LS 608a, b
LS609	11.06	Mandril Stop 2 UP	X 6000 Limit Switch LS 609a, b
LS610	11.07	Mandril Transfer Arms Load	X 6000 Limit Switch LS 610
LS611	11.10	Mandril Transfer Arms Unload	X 6000 Limit Switch LS 611
LS612	11.11	New Range Roll @ Dia D1	X 6000 Limit Switch LS 612
LS613	11.12	Transfer Arm Transfer Position	X 6000 Limit Switch LS 613
LS614	11.13	Transfer Arm Idle Position	X 6000 Limit Switch LS 614
LS615	11.16	Main Winding Arm @ Drum	X 6000 Limit Switch LS 615
LS632	13.10	Mand Transfer Arm Lock Closed	X 6000 Limit Switch LS 632
LS633	13.11	Mand Transfer Arm Lock Open	X 6000 Limit Switch LS 633
LS634	13.16	Thread Belt In Contact	X 6000 Limit Switch LS 634
LS635	13.17	Thread Belt Retracted	X 6000 Limit Switch LS 635
LS636	13.06	MT Mandril In Position 2	X 6000 Limit Switch LS 636a, b
LS637	13.07	MT Mandril In Loader	X 6000 Limit Switch LS 637a, b
LS638	13.05	MT Mandril In Position 1	X 6000 Limit Switch LS 638a, b
LS639	10.15	Mandril Starter Belt Retracted	X 6000 Limit Switch LS 639
LS640	10.00	Kicker - Wall Side Extended	X 6000 Limit Switch LS 640
LS641	10.01	Kicker - Wall Side Retracted	X 6000 Limit Switch LS 641
LS642	10.02	Kicker - Aisle Side Extended	X 6000 Limit Switch LS 642
LS643	10.03	Kicker - Aisle Side Retracted	X 6000 Limit Switch LS 643
LS702	4.00	Roll In First Pos Main Chain	X 7000 Limit Switch LS 702
LS703A	4.01	Roll In Last Pos Main Chain	X 7000 Limit Switch LS 703A
LS703B	4.02	Roll In Last Pos Main Chain	X 7000 Limit Switch LS 703B
LS704A	4.03	New Roll In Main Chain Saddle	X 7000 Limit Switch LS 704A
LS704B	4.04	New Roll In Main Chain Saddle	X 7000 Limit Switch LS 704B
LS705A	5.13	Hoist Down Safety Limit	X 7000 Limit Switch LS 705A
LS705B	5.14	Hoist Down Safety Limit	X 7000 Limit Switch LS 705B
LS706A	4.05	Hoist @ Slitter - Aisle Side	X 7000 Limit Switch LS 706A
LS706B	4.06	Hoist @ Slitter - Wall Side	X 7000 Limit Switch LS 706B
LS708A	4.07	Hoist @ Conveyor - Aisle Side	X 7000 Limit Switch LS 708A
LS708B	4.10	Hoist @ Conveyor - Wall Side	X 7000 Limit Switch LS 708B
LS710A	4.11	Empty Mandril On Return Chain	X 7000 Limit Switch LS 710A
LS710B	4.12	Empty Mandril On Return Chain	X 7000 Limit Switch LS 710B
LS711	4.13	Ret Chain Saddle In Position	X 7000 Limit Switch LS 711
LS712	4.14	Hoist Up To Clear Slitter	X 7000 Limit Switch LS 712
LS713	4.15	Hoist In Unwind Load Position	X 7000 Limit Switch LS 713
LS714	4.16	Hoist Down To Clear New Roll	X 7000 Limit Switch LS 714
LS715A	4.17	Hoist High Limit - Aisle Side	X 7000 Limit Switch LS 715A
LS715B	5.00	Hoist High Limit - Wall Side	X 7000 Limit Switch LS 715B
LS716	5.01	Hoist Back From New Roll	X 7000 Limit Switch LS 716
LS717	5.02	Main Chain Saddle OK - Winder	X 7000 Limit Switch LS 717

Name	Number	Description	Note
LS718A	5.03	Mandril Hooks In Position	X 7000 Limit Switch LS 718A
LS718B	5.04	Mandril Hooks In Position	X 7000 Limit Switch LS 718B
LS719A	5.05	Roll Hooks In Position	X 7000 Limit Switch LS 719A
LS719B	5.06	Roll Hooks In Position	X 7000 Limit Switch LS 719B
LS720A	5.07	Access Door Closed - Aisle	X 7000 Limit Switch LS 720A
LS720B	5.10	Access Door Closed - Wall	X 7000 Limit Switch LS 720B
LS722A	5.11	Mandril Magazine Full - Aisle	X 6000 Limit Switch LS 722A
LS722B	5.12	Mandril Magazine Full - Wall	X 6000 Limit Switch LS 722B
LS723	6.13	Main Chain Saddle OK - Slitter	X 7000 Limit Switch LS 723
LS724	5.15	Hoist Roll Safety Cable	X 7000 Limit Switch LS 724
MASTER	*** Rack ***	TB Line Master Chassis	
MB7040	6.14	Hoist Lift Motor Brake	X 7000 Electric Brake - M 7040
MEMERR	3777.00	Appl. Mem/ Checksum	
MEMFER	3777.10	R/W Appl Mem Test Err	
MF6030	1.00	Winder Kicker - Wall Side FWD	M C. C. Starter for M 6030 F
MF6040	3.12	Winder Kicker - Aisle Side FWD	M C. C. Starter for M 6040 F
MF7020	2.04	Roll Storage Chain Forward	M C. C. Starter for M 7020 F
MF7040	2.00	Roll Storage Mandril Hoist UP	M C. C. Starter for M 7040 F
MF7050	2.02	Roll Storage Mandril Hoist FWD	M C. C. Starter for M 7050 F
MR6030	1.01	Winder Kicker - Wall Side REV	M C. C. Starter for M 6030 R
MR6040	3.13	Winder Kicker - Aisle Side REV	M C. C. Starter for M 6040 R
MR7020	2.05	Roll Storage Chain Reverse	M C. C. Starter for M 7020 R
MR7040	2.01	Roll Storage Mandril Hoist DN	M C. C. Starter for M 7040 R
MR7050	2.03	Roll Storage Mandril Hoist REV	M C. C. Starter for M 7050 R
MS3070	0.00	Card 1 Dust Ventilator	M C. C. Starter for M 3070
MS3170	0.01	Card 2 Dust Ventilator	M C. C. Starter for M 3170
MS3270	0.02	Card 3 Dust Ventilator	M C. C. Starter for M 3270
MS3370	0.03	Card 4 Dust Ventilator	M C. C. Starter for M 3370
MS3550	0.04	Preheater Exhaust Fan	M C. C. Starter for M 3550
MS4010	0.11	Calendar 'Sunday Drive'	M C. C. Starter for M 4010 A
MS4110	0.12	Hydr. System Circ. Pump	M C. C. Starter for M 4110
MS4120	0.13	Hydr. System Press. Pump	M C. C. Starter for M 4120
MS4130	0.14	Hydr. System Oil Heater	M C. C. Contactor for H 4130
MS4140	0.06	Hydraulic System Cooling Fan	M C. C. Starter for M 4140
MS4210	0.15	Lube Oil System Pump 1	M C. C. Starter for M 4210 A
MS4220	0.16	Lube Oil System Pump 2	M C. C. Starter for M 4220 A
MS4230	0.17	Lube Oil System Heater	M C. C. Contactor for H 4230
MS4240	0.07	Lube System Cooling Fan	M C. C. Starter for M 4240
MS4250	0.05	Lube Oil Circulating Pump	M C. C. Starter for M 4250
MS4410	1.02	Hood System Exhaust Fan	M C. C. Starter for M 4410
MS4420	0.10	Hood System Water Circ. Pump	M C. C. Starter for M 4420
MS4430	1.17	Hood System Atomizer Motor	M C. C. Starter for M 4430
MS4510	1.03	Chiller System Compressor 1	M C. C. Starter for M 4510
MS4520	1.04	Chiller System Compressor 2	M C. C. Starter for M 4520
MS4530	1.05	Chiller System Compressor 3	M C. C. Starter for M 4530
MS4540	1.06	Chiller System Fan 1	M C. C. Starter for M 4540
MS4550	1.07	Chiller System Fan 2	M C. C. Starter for M 4550
MS4560	1.10	Chiller System Fan 3	M C. C. Starter for M 4560
MS4570	1.11	Chiller System Water Pump	M C. C. Starter for M 4570
MS6010	1.12	Winder Hydraulic System Pump	M C. C. Starter for M 6010
MS6020	1.13	Winder Transfer Arm Motor	M C. C. Starter for M 6020
MS7030	2.06	Roll Storage Mandril Return	M C. C. Starter for M 7030
MTHKOP	42.13	Hooks Past Mf Mandril	
MTHOOK	42.12	Hooks Closed By Mf Mandril	
MULCER	3777.16	MULTIBUS Checkerboard Err	
MULERR	3777.17	MULTIBUS Error	
NOVERR	3774.03	NOVRAM Checksum Error	
NOVTER	3777.07	NOVRAM Memory Test Err	
NRHOOK	42.16	Hooks Closed By New Roll	
NRKHOP	42.17	Hooks Past New Roll	
OPLOCK	71.11	Open Slitter Unwind Locks	
P70111	6.11	Stop Main Roll Chain	CP 701 Pushbutton
P70112	6.12	Stop Empty Mandril Chain	CP 701 Pushbutton
PB6001	10.04	Main Winding Arm Forward	CP 600 Pushbutton
PB6002	10.05	Main Winding Arm Reverse	CP 600 Pushbutton
PB6003	10.10	Lower Roll Transfer Bridge	CP 600 Pushbutton
PB6004	10.11	Raise Roll Transfer Bridge	CP 600 Pushbutton
PB6005	10.12	Stop Roll Transfer Bridge	CP 600 Pushbutton - NC
PB6006	10.17	Lower New Mandril Loader	CP 600 Pushbutton
PB6007	11.00	Raise New Mandril Loader	CP 600 Pushbutton
PB6008	11.03	Lower Mandril Stop 1	CP 600 Pushbutton
PB6009	11.04	Lower Mandril Stop 2	CP 600 Pushbutton



Name	Number	Description	Note
PB6010	11. 14	Open Mand Transfer Arm Lock	CP 600 Pushbutton
PB6011	11. 15	Close Mand Transfer Arm Lock	CP 600 Pushbutton
PB6012	13. 04	Retract New Roll Kickers	CP 600 Pushbutton
PB6013	13. 12	Lower New Mandril Starter	CP 600 Pushbutton
PB6014	13. 13	Raise New Mandril Starter	CP 600 Pushbutton
PB6015	13. 14	Lower Thread Belt To Mandril	CP 600 Pushbutton
PB6016	13. 15	Retract Thread Belt	CP 600 Pushbutton
PB6017	14. 04	Winder System Start	CP 600 Ill Pushbutton
PB6018	14. 05	Winder System Stop	CP 600 Pushbutton
PB6019	14. 06	Winder Section Slack Take Up	CP 600 Pushbutton
PB6020	14. 07	Run Air Blower	CP 600 Pushbutton
PB6023	14. 12	Raise Mandril Transfer Arm	CP 600 Pushbutton
PB6024	14. 13	Lower Mandril Transfer Arm	CP 600 Pushbutton
PB6025	14. 14	Stop Mandril Transfer Arm	CP 600 Pushbutton - NC
PB6026	14. 15	Rotate Web Transfer Arm	CP 600 Pushbutton
PB6027	14. 16	Stop Web Transfer Arm	CP 600 Pushbutton - NC
PB6028	14. 17	Cut New Range Roll	CP 600 Ill Pushbutton
PB6029	11. 17	Extend New Roll Kickers	CP 600 Pushbutton
PB7011	5. 17	Stop Automatic Cycle	CP 701 Pushbutton
PB7012	6. 00	Reset Automatic Cycle	CP 701 Illuminated Pushbutton
PB7013	6. 01	Hoist Up	CP 701 Pushbutton
PB7014	6. 02	Hoist Down	CP 701 Pushbutton
PB7015	6. 03	Hoist Toward Slitter	CP 701 Pushbutton
PB7016	6. 04	Hoist Toward Winder	CP 701 Pushbutton
PB7017	6. 05	Start Mandril Chain	CP 701 Pushbutton
PB7018	6. 06	Roll Chain Forward To Slitter	CP 701 Pushbutton
PB7019	6. 07	Roll Chain Reverse To Winder	CP 701 Pushbutton
PL6001	13. 01	Winder System ON	CP 600 Lamp
PL6002	13. 02	Winder System 'Ready To Cut'	CP 600 IPB Lamp
PL6003	13. 03	Winder System Manual Op Enable	CP 600 Lamp
PL7011	7. 14	Interlock Fault	CP 701 Lamp
PL7012	7. 05	Automatic Cycle Reset	CP 701 Lamp
PL7013	7. 16	Automatic Cycle Run	CP 701 Lamp
PL7014	7. 17	Manual System Run	CP 701
PRL@WD	42. 03	Put Roll @ Winder To Start	
PROFLT	76. 05	Programmable Fault	
PWRUP	76. 06	Power Up Coil	
QUEDEC	44. 11	Roll Storage Que Decrementd	
QUEUPD	44. 07	Roll Storage Queue Updated	
R/SAUT	71. 00	Roll Storage System Automatic	
RALERR	76. 01	Rail Error Contact	
RARMDK	44. 05	OK To Rotate Web Transfer Arms	
RCHGCO	41. 16	Winder Roll Change Cycle Compl	
RL@SLT	42. 06	Roll Chain - Roll AT Slitter	
RL@WDR	42. 05	Roll Chain - Roll At Winder	
RLBRTD	41. 14	Full Roll Brake On Delay	
ROL/CH	43. 16	New Roll Loaded On Chain	
ROL@BR	41. 13	Full Roll @ Transfer Bridge	
ROLEN1	40. 00	Range Roll Length > Preset	
ROLEN2	40. 01	Range Roll Length < Preset	
RSTCTR	41. 12	Web Cut Made - Reset Counter	
RTC. 01	76. 02	System Clock 0. 01 Sec.	
RTC0. 1	76. 03	System Clock 0. 1 Sec	
RTC1. 0	76. 04	System Clock 1 Sec.	
RTKICK	44. 00	Retract New Roll Kickers Relay	
S1SCAX	42. 02	Roll Storage System 1 Scan Aux	
S70110	6. 10	Select Automatic Cycle	CP 701 Key Switch
SLDAER	3777. 02	Data Register Chks. Err	
SLIOER	3777. 01	I/O Conf. Checksum Err	
SLTRDY	71. 01	Slitter Ready For Roll Change	
SLUWCT	71. 03	Slitter Unwind Centered	
SMEMER	3777. 06	Scatchpad Mem Test Err	
SPRFLT	3777. 03	Programmable Fault	
SS6022	14. 11	Range Roll Change Automatic	CP 600 Selector Switch
ST1SCA	42. 01	Roll Storage System 1 Scan	
STLDCO	42. 10	Slitter Load Cycle Complete	
STMFCB	43. 15	Start M' Mandril Chain	
STOAUT	42. 00	Roll Storage System Automatic	
STOROL	41. 15	Roll To Storage - Index Chain	
STPIAX	43. 17	Lower Stop 1 Auxiliary	
SUDRON	2. 14	'Sunday Drive' Motor ON	Tellback for M 4010 A
SV616	12. 00	Lower Mandril Transfer Arm	X 6000 Solenoid Valve SV 616

Name Index

Name	Number	Description	Note
SV617	12. 01	Raise Mandril Transfer Arm	X 6000 Solenoid Valve SV 617
SV618	12. 02	Open Mandril Transfer Arm Lock	X 6000 Solenoid Valve SV 618
SV619	12. 03	Close Mand Transfer Arm Lock	X 6000 Solenoid Valve SV 619
SV620	12. 04	Lower Mandril Starter Belt	X 6000 Solenoid Valve SV 620
SV621	12. 05	Activate Web Cutter	X 6000 Solenoid Valve SV 621
SV622	12. 06	Activate Web Tail Blower	X 6000 Solenoid Valve SV 622
SV623	12. 10	Main Winding Arm Forward	X 6000 Solenoid Valve SV 623
SV624	12. 11	Main Winding Arm Reverse	X 6000 Solenoid Valve SV 624
SV625	12. 12	Lower Roll Transfer Bridge	X 6000 Solenoid Valve SV 625
SV626	12. 13	Raise Roll Transfer Bridge	X 6000 Solenoid Valve SV 626
SV627	12. 14	Full Range Roll Mandril Brake	X 6000 Solenoid Valve SV 627
SV628	12. 15	Lower Mandril Loader	X 6000 Solenoid Valve SV 628
SV629	12. 16	Raise Mandril Loader	X 6000 Solenoid Valve SV 629
SV630	12. 17	Mandril Stop 1 Lower	X 6000 Solenoid Valve SV 630
SV631	13. 00	Mandril Stop 2 Lower	X 6000 Solenoid Valve SV 631
SV636	12. 07	Lower Thread Belt To Mandril	X 6000 Solenoid Valve SV 636
SYSERR	76. 00	System Error Contact	
TEMAON	3. 14	Tenafa Leveling Roll ON	Tellback for M 1410
TNCLON	44. 14	Winder Tension Control On	
TUBLON	2. 15	Tuft Blender Opening Roll ON	Tellback for M 1510
UPDQUE	44. 06	Roll Finished - Update Queue	
VECERR	3777. 04	Illegal Interrupt Vect.	
WATERR	3775. 01	System Watchdog Error	
WATRUN	41. 03	Winder Automatic Cycle Run	
WAUTOK	40. 06	Winder Set Up OK for Auto Cyc	
WCHIDX	43. 13	Index Chain With New Roll	
WCUTDY	41. 10	Winder Cutter Start Delay	
WDRMFN	45. 01	Winder Drum Sequencer Finished	
WDRMDN	45. 00	Winder Drum Sequencer On	
WEBBRK	44. 13	Web Break	
WHITEN	40. 10	Winder Web Tension > Setpoint	
WLOTEN	40. 11	Winder Web Tension < Setpoint	
WMANLD	43. 02	Winder - New Mandril In Loader	
WNDATO	40. 05	Winder Automatic Cont Enable	
WNDMAN	40. 04	Winder Manual Control Enable	
WNDRUN	41. 02	Winder System Run	
WTC LIM	44. 15	Winder Tension Control Limit	
WTCMP>	44. 03	Compare Winder Tension > SP	
WTCMP<	44. 04	Compare Winder Tension < SP	
WTRIMH	44. 17	Winder Trim High Limit	
WTRIML	44. 16	Winder Trim Low Limit	

Point / Register List

REG No.	I/O No.	Name	Description	Card Type	Part No.	Note	Contents
0			*** Point Register ***				
1			*** Point Register ***				
2			*** Point Register ***				
3			*** Point Register ***				
4			*** Point Register ***				
5			*** Point Register ***				
6			*** Point Register ***				
7			*** Point Register ***				
10			*** Point Register ***				
11			*** Point Register ***				
12			*** Point Register ***				
13			*** Point Register ***				
14			*** Point Register ***				
15							
16							
17							
40			*** Point Register ***				
41			*** Point Register ***				
42			*** Point Register ***				
43			*** Point Register ***				
44			*** Point Register ***				
45			*** Point Register ***				
46							
47							
50							
51							
52			*** Point Register ***				
53			*** Point Register ***				
54							
55							
56							
57							
60							
61							
62							
63							
64							
65							
66							
67							
70							
71			*** Point Register ***				
72							
73							
74							
75			Retentive Coils				
76			System Coils				
77			System Coils				
2100							3600
2101			40.10 Destin SCALI			Winder Web Tension > Setpoint	100
2102							10
2103			41.11 Preset TON			Winder Cutter On Delay	5
2104			12.06 Preset TON			Activate Web Tail Blower	5
2105			41.14 Preset TON			Full Roll Brake On Delay	15
2106			41.00 Preset COUNTER			Roll Chain Empty Counter	12
2107			42.14 Preset TON			Hoist Toward Winder Relay	50
2110			43.05 Preset TON			Hoist Toward Slitter With Roll	50
2111			43.11 Preset TON			MT Hoist Toward Slitter Home	75
2112							0
2113							0
2114							0
2115							0
2116							0
2117							0

REG No.	I/O No.	Name	Description	Card Type	Part No.	Note	Contents
2200			40.02 Table SHBR			1/2 Second Flasher for CP 430	-2048
2201							10
2202							0
2203							0
2204			41.11 Elapsed TON			Winder Cutter On Delay	0
2205			12.06 Elapsed TON			Activate Web Tail Blower	0
2206			41.14 Elapsed TON			Full Roll Brake On Delay	0
2207			41.00 Elapsed COUNTER			Roll Chain Empty Counter	0
2210			42.14 Elapsed TON			Hoist Toward Winder Relay	0
2211			43.05 Elapsed TON			Hoist Toward Slitter With Roll	0
2212			43.11 Elapsed TON			MT Hoist Toward Slitter Home	0
2213			44.14 Output PID			Winder Tension Control On	0
2214			44.14 Error PID			Winder Tension Control On	0
2215							0
2216							0
2217							0
2300			40.10 Hi Lim SCALI			Winder Web Tension > Setpoint	2200
2301			40.10 Lo Lim SCALI			Winder Web Tension > Setpoint	1800
2302			44.14 SetPt PID			Winder Tension Control On	2000
2303							150
2304							90
2305							5
2306							0
2307							0
2310							0
2311							0
2312							0
2313							0
2314							0
2315							0
2316							0
2317							0
2420							0
2421							0
2422							0
2423							0
2424							0
2425							152
2426							185
2427							134
2430			45.00 Output DRUMET 1/20			Winder Drum Sequencer On	0
2431			45.00 Output DRUMET 2/20			Winder Drum Sequencer On	16
2432			45.00 Output DRUMET 3/20			Winder Drum Sequencer On	8208
2433			45.00 Output DRUMET 4/20			Winder Drum Sequencer On	8
2434			45.00 Output DRUMET 5/20			Winder Drum Sequencer On	136
2435			45.00 Output DRUMET 6/20			Winder Drum Sequencer On	160
2436			45.00 Output DRUMET 7/20			Winder Drum Sequencer On	192
2437			45.00 Output DRUMET 8/20			Winder Drum Sequencer On	0
2440			45.00 Output DRUMET 9/20			Winder Drum Sequencer On	2048
2441			45.00 Output DRUMET 10/20			Winder Drum Sequencer On	4096
2442			45.00 Output DRUMET 11/20			Winder Drum Sequencer On	1
2443			45.00 Output DRUMET 12/20			Winder Drum Sequencer On	256
2444			45.00 Output DRUMET 13/20			Winder Drum Sequencer On	4
2445			45.00 Output DRUMET 14/20			Winder Drum Sequencer On	2
2446			45.00 Output DRUMET 15/20			Winder Drum Sequencer On	16384
2447			45.00 Output DRUMET 16/20			Winder Drum Sequencer On	-32768
2450			45.00 Output DRUMET 17/20			Winder Drum Sequencer On	-32768
2451			45.00 Output DRUMET 18/20			Winder Drum Sequencer On	9
2452			45.00 Output DRUMET 19/20			Winder Drum Sequencer On	10
2453			45.00 Output DRUMET 20/20			Winder Drum Sequencer On	0
2454							0
2455							0
2456							0
2457							0

REG No.	I/O No.	Name	Description	Card Type	Part No.	Note	Contents
2460			45.00 Event DRUMET 1/20			Wi nder Drum Sequencer On	518
2461			45.00 Event DRUMET 2/20			Wi nder Drum Sequencer On	154
2462			45.00 Event DRUMET 3/20			Wi nder Drum Sequencer On	154
2463			45.00 Event DRUMET 4/20			Wi nder Drum Sequencer On	145
2464			45.00 Event DRUMET 5/20			Wi nder Drum Sequencer On	184
2465			45.00 Event DRUMET 6/20			Wi nder Drum Sequencer On	190
2466			45.00 Event DRUMET 7/20			Wi nder Drum Sequencer On	190
2467			45.00 Event DRUMET 8/20			Wi nder Drum Sequencer On	190
2470			45.00 Event DRUMET 9/20			Wi nder Drum Sequencer On	191
2471			45.00 Event DRUMET 10/20			Wi nder Drum Sequencer On	142
2472			45.00 Event DRUMET 11/20			Wi nder Drum Sequencer On	142
2473			45.00 Event DRUMET 12/20			Wi nder Drum Sequencer On	155
2474			45.00 Event DRUMET 13/20			Wi nder Drum Sequencer On	153
2475			45.00 Event DRUMET 14/20			Wi nder Drum Sequencer On	152
2476			45.00 Event DRUMET 15/20			Wi nder Drum Sequencer On	185
2477			45.00 Event DRUMET 16/20			Wi nder Drum Sequencer On	134
2500			45.00 Event DRUMET 17/20			Wi nder Drum Sequencer On	146
2501			45.00 Event DRUMET 18/20			Wi nder Drum Sequencer On	183
2502			45.00 Event DRUMET 19/20			Wi nder Drum Sequencer On	182
2503			45.00 Event DRUMET 20/20			Wi nder Drum Sequencer On	181
2504							5
2505							6
2506							7
2507							8
2510							9
2511							10
2512							11
2513							12
2514							13
2515							14
2516							15
2517							16
2520			45.00 Time DRUMET 1/20			Wi nder Drum Sequencer On	0
2521			45.00 Time DRUMET 2/20			Wi nder Drum Sequencer On	0
2522			45.00 Time DRUMET 3/20			Wi nder Drum Sequencer On	0
2523			45.00 Time DRUMET 4/20			Wi nder Drum Sequencer On	0
2524			45.00 Time DRUMET 5/20			Wi nder Drum Sequencer On	0
2525			45.00 Time DRUMET 6/20			Wi nder Drum Sequencer On	0
2526			45.00 Time DRUMET 7/20			Wi nder Drum Sequencer On	50
2527			45.00 Time DRUMET 8/20			Wi nder Drum Sequencer On	150
2530			45.00 Time DRUMET 9/20			Wi nder Drum Sequencer On	0
2531			45.00 Time DRUMET 10/20			Wi nder Drum Sequencer On	0
2532			45.00 Time DRUMET 11/20			Wi nder Drum Sequencer On	150
2533			45.00 Time DRUMET 12/20			Wi nder Drum Sequencer On	0
2534			45.00 Time DRUMET 13/20			Wi nder Drum Sequencer On	0
2535			45.00 Time DRUMET 14/20			Wi nder Drum Sequencer On	0
2536			45.00 Time DRUMET 15/20			Wi nder Drum Sequencer On	0
2537			45.00 Time DRUMET 16/20			Wi nder Drum Sequencer On	0
2540			45.00 Time DRUMET 17/20			Wi nder Drum Sequencer On	0
2541			45.00 Time DRUMET 18/20			Wi nder Drum Sequencer On	0
2542			45.00 Time DRUMET 19/20			Wi nder Drum Sequencer On	0
2543			45.00 Time DRUMET 20/20			Wi nder Drum Sequencer On	0
2544							0
2545							0
2546							0
2547							0
2550			45.00 Pointer DRUMET			Wi nder Drum Sequencer On	0
2551							0
2552							0
2553							0
2554							0
2555							0
2556							0
2557							0

REG No.	I/O No.	Name	Description	Card Type	Part No.	Note	Contents
<i>System Register Block</i>							
3700			PELSTS - Power Failure Count				
3701			Ser. Comm. Output Byte Count				
3702			System Clock - Hours				
3703			System Clock - Minutes				
3704			System Clock - Seconds				
3705			System Clock - 100th Seconds				
3706			System Register				
3707			System Register				
3710			System Register				
3711			System Register				
3712			System Register				
3713			System Register				
3714			System Register				
3715			System Register				
3716			System Register				
3717			System Register				
<i>System Register Block</i>							
3720			System Register				
3721			System Register				
3722			System Register				
3723			System Register				
3724			System Register				
3725			System Register				
3726			System Register				
3727			System Register				
3730			System Register				
3731			Error Statistics data				
3732			Retries / CRC Errors				
3733			Overruns / Framing Errors				
3734			LAMDFB - Lamp Drop Fault Bits				
3735			LAMDFB - Lamp Drop Fault Bits				
3736			LAMDFB - Lamp Drop Fault Bits				
3737			LAMDFB - Lamp Drop Fault Bits				
<i>System Register Block</i>							
3740			RDF - RIOP 1 drop faults				
3741			RDF - RIOP 1 drop faults				
3742			RIOP 2 drop faults				
3743			RIOP 2 drop faults				
3744			RIOP 3 drop faults				
3745			RIOP 3 drop faults				
3746			RIOP 4 drop faults				
3747			RIOP 4 drop faults				
3750			EBA - Register Errors				
3751			EBA - Register Errors				
3752			EBA - Register Errors				
3753			EBA - Register Errors				
3754			EBA - Register Errors				
3755			EBA - Register Errors				
3756			EBA - Register Errors				
3757			EBA - Register Errors				
<i>System Register Block</i>							
3760			LHF - Local Head Faults				
3761			ERPTRG - Pointer to Err Reg.				
3762			ERCBIT - Bit # Last Err Coil				
3763			ERCADR - Byte Addr Last Err				
3764			FAPU - Cards Failed / Missing				
3765			CFOPU - Cards Found on Power U				
3766			Spare System Register				
3767			Spare System Register				
3770			ERRDAT - Add. Error Data				
3771			ERRDAT - Add. Error Data				
3772			ERRDAT - Add. Error Data				
3773			Spare System Register				
3774			Power Up Errors				
3775			System Stop				
3776			Spare system register				
3777			SYSLCK - System Lock				

Z oI n/ e0	REG No.	I/O No.	Name	Description	Card Type	Part No.	Note	Contents
A0	0.00	MS3070	Card 1 Dust Ventilator		230VAC Out	45C62	M C. C. Starter for M 3070	
A0	0.01	MS3170	Card 2 Dust Ventilator				M C. C. Starter for M 3170	
A0	0.02	MS3270	Card 3 Dust Ventilator		230VAC Out	45C62	M C. C. Starter for M 3270	
A0	0.03	MS3370	Card 4 Dust Ventilator				M C. C. Starter for M 3370	
A0	0.04	MS3550	> Preheater Exhaust Fan		230VAC Out	45C62	M C. C. Starter for M 3550	
			Turns On 2 minutes before cycle starts					
A0	0.05	MS4250	Lube Oil Circulating Pump				M C. C. Starter for M 4250	
A0	0.06	MS4140	Hydraulic System Cooling Fan		230VAC Out	45C62	M C. C. Starter for M 4140	
A0	0.07	MS4240	Lube System Cooling Fan				M C. C. Starter for M 4240	
A0	0.10	MS4420	Hood System Water Circ. Pump		230VAC Out	45C62	M C. C. Starter for M 4420	
A0	0.11	MS4010	Calender 'Sunday Drive'				M C. C. Starter for M 4010 A	
A0	0.12	MS4110	> Hydr. System Circ. Pump		230VAC Out	45C62	M C. C. Starter for M 4110	
			Must be ON during cycle					
A0	0.13	MS4120	Hydr. System Press. Pump				M C. C. Starter for M 4120	
A0	0.14	MS4130	> Hydr. System Oil Heater		230VAC Out	45C62	M C. C. Contactor for H 4130	
			ON during preheat cycle					
A0	0.15	MS4210	Lube Oil System Pump 1				M C. C. Starter for M 4210 A	
A0	0.16	MS4220	Lube Oil System Pump 2		230VAC Out	45C62	M C. C. Starter for M 4220 A	
A0	0.17	MS4230	Lube Oil System Heater				M C. C. Contactor for H 4230	
A0	1.00	MF6030	Winder Kicker - Wall Side FWD		230VAC Out	45C62	M C. C. Starter for M 6030 F	
A0	1.01	MR6030	Winder Kicker - Wall Side REV				M C. C. Starter for M 6030 R	
A0	1.02	MS4410	Hood System Exhaust Fan		230VAC Out	45C62	M C. C. Starter for M 4410	
A0	1.03	MS4510	Chiller System Compressor 1				M C. C. Starter for M 4510	
A0	1.04	MS4520	Chiller System Compressor 2		230VAC Out	45C62	M C. C. Starter for M 4520	
A0	1.05	MS4530	Chiller System Compressor 3				M C. C. Starter for M 4530	
A0	1.06	MS4540	Chiller System Fan 1		230VAC Out	45C62	M C. C. Starter for M 4540	
A0	1.07	MS4550	Chiller System Fan 2				M C. C. Starter for M 4550	
A0	1.10	MS4560	Chiller System Fan 3		230VAC Out	45C62	M C. C. Starter for M 4560	
A0	1.11	MS4570	Chiller System Water Pump				M C. C. Starter for M 4570	
A0	1.12	MS6010	Winder Hydraulic System Pump		230VAC Out	45C62	M C. C. Starter for M 6010	
A0	1.13	MS6020	Winder Transfer Arm Motor				M C. C. Starter for M 6020	
AI	1.14	F/040N	Fine Opener 4 AC Motors ON		230 VAC/DC In	45C43	Tellback for M 2620\2710\2720	
AI	1.15	F/010N	Fine Opener 1 AC Motors ON				Tellback for M 2020, 2110, 2120	
A0	1.16				230VAC Out	45C62		
A0	1.17	MS4430	Hood System Atomizer Motor				M C. C. Starter for M 4430	
A0	2.00	MF7040	Roll Storage Mandril Hoist UP		230VAC Out	45C62	M C. C. Starter for M 7040 F	
A0	2.01	MR7040	Roll Storage Mandril Hoist DN				M C. C. Starter for M 7040 R	
A0	2.02	MF7050	Roll Storage Mandril Hoist FWD		230VAC Out	45C62	M C. C. Starter for M 7050 F	
A0	2.03	MR7050	Roll Storage Mandril Hoist REV				M C. C. Starter for M 7050 R	
A0	2.04	MF7020	Roll Storage Chain Forward		230VAC Out	45C62	M C. C. Starter for M 7020 F	
A0	2.05	MR7020	Roll Storage Chain Reverse				M C. C. Starter for M 7020 R	
A0	2.06	MS7030	Roll Storage Mandril Return		230VAC Out	45C62	M C. C. Starter for M 7030	
A	2.07							
A	2.10							
A	2.11							
	2.12							
	2.13							
AI	2.14	SUDRON	'Sunday Drive' Motor ON		230 VAC/DC In	45C43	Tellback for M 4010 A	
AI	2.15	TUBLON	Tuft Blender Opening Roll ON				Tellback for M 1510	
AI	2.16	C/010N	C/O 1 Saw Tooth Roll ON		230 VAC/DC In	45C43	Tellback for M 1630	
AI	2.17	C/010P	C/O 1 Opening Roll ON				Tellback for M 1640	

Z oI n/ e0	REG No.	I/O No.	Name	Description	Card Type	Part No.	Note	Contents
AI	3.00	C/020N	C/0 2 Saw Tooth Roll ON	230 VAC/DC In	45C43	Tellback for M 1730		
AI	3.01	C/020P	C/0 2 Opening Roll ON			Tellback for M 1740		
AI	3.02	C2CYON	Card 2 Main Cylinder ON	230 VAC/DC In	45C43	Tellback for M 3120		
AI	3.03	C3CYON	Card 3 Main Cylinder ON			Tellback for M 3220		
AI	3.04	C4CYON	Card 4 Main Cylinder ON	230 VAC/DC In	45C43	Tellback for M 3320		
AI	3.05							
AI	3.06	CHU10N	Chute 1 Opening Roll ON	230 VAC/DC In	45C43	Tellback for M 3010		
AI	3.07	CHU20N	Chute 2 Opening Roll ON			Tellback for M 3110		
AI	3.10	CHU30N	Chute 3 Opening Roll ON	230 VAC/DC In	45C43	Tellback for M 3210		
AI	3.11	CHU40N	Chute 4 Opening Roll ON			Tellback for M 3010		
AO	3.12	MF6040	Winder Kicker - Aisle Side FWD	230VAC Out	45C62	M C. C. Starter for M 6040 F		
AO	3.13	MR6040	Winder Kicker - Aisle Side REV			M C. C. Starter for M 6040 F		
AI	3.14	TEMAON	Temafa Leveling Roll ON	230 VAC/DC In	45C43	Tellback for M 1410		
AI	3.15	C/OFON	C/Os Transport Fan ON			Tellback for M 1540		
AI	3.16	F/020N	Fine Opener 2 AC Motors ON	230 VAC/DC In	45C43	Tellback for M 2220, 2310, 2320		
AI	3.17	F/030N	Fine Opener 3 AC Motors ON			Tellback for M 2420, 2510, 2520		
MI	4.00	LS702	Roll In First Pos Main Chain	24 VAC/DC In	45C44	X 7000 Limit Switch LS 702		
MI	4.01	LS703A	Roll In Last Pos Main Chain			X 7000 Limit Switch LS 703A		
MI	4.02	LS703B	Roll In Last Pos Main Chain	24 VAC/DC In	45C44	X 7000 Limit Switch LS 703B		
MI	4.03	LS704A	New Roll In Main Chain Saddle			X 7000 Limit Switch LS 704A		
MI	4.04	LS704B	New Roll In Main Chain Saddle	24 VAC/DC In	45C44	X 7000 Limit Switch LS 704B		
MI	4.05	LS706A	Hoist @ Slitter - Aisle Side			X 7000 Limit Switch LS 706A		
MI	4.06	LS706B	Hoist @ Slitter - Wall Side	24 VAC/DC In	45C44	X 7000 Limit Switch LS 706B		
MI	4.07	LS708A	Hoist @ Conveyor - Aisle Side			X 7000 Limit Switch LS 708A		
MI	4.10	LS708B	Hoist @ Conveyor - Wall Side	24 VAC/DC In	45C44	X 7000 Limit Switch LS 708B		
MI	4.11	LS710A	Empty Mandril On Return Chain			X 7000 Limit Switch LS 710A		
MI	4.12	LS710B	Empty Mandril On Return Chain	24 VAC/DC In	45C44	X 7000 Limit Switch LS 710B		
MI	4.13	LS711	Ret Chain Saddle In Position			X 7000 Limit Switch LS 711		
MI	4.14	LS712	Hoist Up To Clear Slitter	24 VAC/DC In	45C44	X 7000 Limit Switch LS 712		
MI	4.15	LS713	Hoist In Unwind Load Position			X 7000 Limit Switch LS 713		
MI	4.16	LS714	Hoist Down To Clear New Roll	24 VAC/DC In	45C44	X 7000 Limit Switch LS 714		
MI	4.17	LS715A	Hoist High Limit - Aisle Side			X 7000 Limit Switch LS 715A		
MI	5.00	LS715B	Hoist High Limit - Wall Side	24 VAC/DC In	45C44	X 7000 Limit Switch LS 715B		
MI	5.01	LS716	Hoist Back From New Roll			X 7000 Limit Switch LS 716		
MI	5.02	LS717	Main Chain Saddle OK - Winder	24 VAC/DC In	45C44	X 7000 Limit Switch LS 717		
MI	5.03	LS718A	Mandril Hooks In Position			X 7000 Limit Switch LS 718A		
MI	5.04	LS718B	Mandril Hooks In Position	24 VAC/DC In	45C44	X 7000 Limit Switch LS 718B		
MI	5.05	LS719A	Roll Hooks In Position			X 7000 Limit Switch LS 719A		
MI	5.06	LS719B	Roll Hooks In Position	24 VAC/DC In	45C44	X 7000 Limit Switch LS 719B		
MI	5.07	LS720A	Access Door Closed - Aisle			X 7000 Limit Switch LS 720A		
MI	5.10	LS720B	Access Door Closed - Wall	24 VAC/DC In	45C44	X 7000 Limit Switch LS 720B		
MI	5.11	LS722A	Mandril Magazine Full - Aisle			X 6000 Limit Switch LS 722A		
MI	5.12	LS722B	Mandril Magazine Full - Wall	24 VAC/DC In	45C44	X 6000 Limit Switch LS 722B		
MI	5.13	LS705A	Hoist Down Safety Limit			X 7000 Limit Switch LS 705A		
MI	5.14	LS705B	Hoist Down Safety Limit	24 VAC/DC In	45C44	X 7000 Limit Switch LS 705B		
MI	5.15	LS724	Hoist Roll Safety Cable			X 7000 Limit Switch LS 724		
MI	5.16			24 VAC/DC In	45C44			
MI	5.17	PB7011	Stop Automatic Cycle			CP 701 Pushbutton		
MI	6.00	PB7012	Reset Automatic Cycle	24 VAC/DC In	45C44	CP 701 Illuminated Pushbutton		
MI	6.01	PB7013	Hoist Up			CP 701 Pushbutton		
MI	6.02	PB7014	Hoist Down	24 VAC/DC In	45C44	CP 701 Pushbutton		
MI	6.03	PB7015	Hoist Toward Slitter			CP 701 Pushbutton		
MI	6.04	PB7016	Hoist Toward Winder	24 VAC/DC In	45C44	CP 701 Pushbutton		
MI	6.05	PB7017	Start Mandril Chain			CP 701 Pushbutton		
MI	6.06	PB7018	Roll Chain Forward To Slitter	24 VAC/DC In	45C44	CP 701 Pushbutton		
MI	6.07	PB7019	Roll Chain Reverse To Winder			CP 701 Pushbutton		
MI	6.10	S70110	Select Automatic Cycle	24 VAC/DC In	45C44	CP 701 Key Switch		
MI	6.11	P70111	Stop Main Roll Chain			CP 701 Pushbutton		
MI	6.12	P70112	Stop Empty Mandril Chain	24 VAC/DC In	45C44	CP 701 Pushbutton		
MI	6.13	LS723	Main Chain Saddle OK - Slitter			X 7000 Limit Switch LS 723		
MD	6.14	MB7040	Hoist Lift Motor Brake	230VAC Out	45C62	X 7000 Electric Brake - M 7040		
MD	6.15							
MD	6.16	DORLOK	Release Access Door Locks	Contact Out(NO)	45C66	X 7000 Electric Door Latch		
MD	6.17							



Z oI n/ e0	REG No.	I/O No.	Name	Description	Card Type	Part No.	Note	Contents
M	7.00							
M	7.01							
M	7.02							
M	7.03							
MD	7.04				24VAC Out	45C67		
MD	7.05	PL7012	Automatic Cycle Reset				CP 701 Lamp	
M	7.06							
M	7.07							
M	7.10							
M	7.11							
M	7.12							
M	7.13							
MD	7.14	PL7011	Interlock Fault		24VAC Out	45C67	CP 701 Lamp	
MD	7.15							
MD	7.16	PL7013	Automatic Cycle Run		24VAC Out	45C67	CP 701 Lamp	
MD	7.17	PL7014	Manual System Run				CP 701	
LI	10.00	LS640	Kicker - Wall Side Extended		24 VAC/DC In	45C44	X 6000 Limit Switch LS 640	
LI	10.01	LS641	Kicker - Wall Side Retracted				X 6000 Limit Switch LS 641	
LI	10.02	LS642	Kicker - Aisle Side Extended		24 VAC/DC In	45C44	X 6000 Limit Switch LS 642	
LI	10.03	LS643	Kicker - Aisle Side Retracted				X 6000 Limit Switch LS 643	
LI	10.04	PB6001	Main Winding Arm Forward		24 VAC/DC In	45C44	CP 600 Pushbutton	
LI	10.05	PB6002	Main Winding Arm Reverse				CP 600 Pushbutton	
LI	10.06	LS601	Range Roll @ Dia D2		24 VAC/DC In	45C44	X 6000 Limit Switch LS 601	
LI	10.07	LS602	Main Winding Arm @ Bridge				X 6000 Limit Switch LS 602	
LI	10.10	PB6003	Lower Roll Transfer Bridge		24 VAC/DC In	45C44	CP 600 Pushbutton	
LI	10.11	PB6004	Raise Roll Transfer Bridge				CP 600 Pushbutton	
LI	10.12	PB6005	Stop Roll Transfer Bridge		24 VAC/DC In	45C44	CP 600 Pushbutton - NC	
LI	10.13	LS603	Roll Transfer Bridge UP				X 6000 Limit Switch LS 603a, b	
LI	10.14	LS604	Roll Transfer Bridge DOWN		24 VAC/DC In	45C44	X 6000 Limit Switch LS 604a, b	
LI	10.15	LS639	Mandril Starter Belt Retracted				X 6000 Limit Switch LS 639	
LI	10.16	LS605	Full Range Roll @ Bridge		24 VAC/DC In	45C44	X 6000 Limit Switch LS 605	
LI	10.17	PB6006	Lower New Mandril Loader				CP 600 Pushbutton	
LI	11.00	PB6007	Raise New Mandril Loader		24 VAC/DC In	45C44	CP 600 Pushbutton	
LI	11.01	LS606	New Mandril Loader DOWN				X 6000 Limit Switch LS 606	
LI	11.02	LS607	New Mandril Loader UP		24 VAC/DC In	45C44	X 6000 Limit Switch LS 607	
LI	11.03	PB6008	Lower Mandril Stop 1				CP 600 Pushbutton	
LI	11.04	PB6009	Lower Mandril Stop 2		24 VAC/DC In	45C44	CP 600 Pushbutton	
LI	11.05	LS608	Mandril Stop 1 UP				X 6000 Limit Switch LS 608a, b	
LI	11.06	LS609	Mandril Stop 2 UP		24 VAC/DC In	45C44	X 6000 Limit Switch LS 609a, b	
LI	11.07	LS610	Mandril Transfer Arms Load				X 6000 Limit Switch LS 610	
LI	11.10	LS611	Mandril Transfer Arms Unload		24 VAC/DC In	45C44	X 6000 Limit Switch LS 611	
LI	11.11	LS612	New Range Roll @ Dia D1				X 6000 Limit Switch LS 612	
LI	11.12	LS613	Transfer Arm Transfer Position		24 VAC/DC In	45C44	X 6000 Limit Switch LS 613	
LI	11.13	LS614	Transfer Arm Idle Position				X 6000 Limit Switch LS 614	
LI	11.14	PB6010	Open Mand Transfer Arm Lock		24 VAC/DC In	45C44	CP 600 Pushbutton	
LI	11.15	PB6011	Close Mand Transfer Arm Lock				CP 600 Pushbutton	
LI	11.16	LS615	Main Winding Arm @ Drum		24 VAC/DC In	45C44	X 6000 Limit Switch LS 615	
LI	11.17	PB6029	Extend New Roll Kickers				CP 600 Pushbutton	
L0	12.00	SV616	Lower Mandril Transfer Arm		24VAC Out	45C67	X 6000 Solenoid Valve SV 616	
L0	12.01	SV617	Raise Mandril Transfer Arm				X 6000 Solenoid Valve SV 617	
L0	12.02	SV618	Open Mandril Transfer Arm Lock		24VAC Out	45C67	X 6000 Solenoid Valve SV 618	
L0	12.03	SV619	Close Mand Transfer Arm Lock				X 6000 Solenoid Valve SV 619	
L0	12.04	SV620	Lower Mandril Starter Belt		24VAC Out	45C67	X 6000 Solenoid Valve SV 620	
L0	12.05	SV621	Activate Web Cutter				X 6000 Solenoid Valve SV 621	
L0	12.06	SV622	Activate Web Tail Blower		24VAC Out	45C67	X 6000 Solenoid Valve SV 622	
L0	12.07	SV636	Lower Thread Belt To Mandril				X 6000 Solenoid Valve SV 636	
L0	12.10	SV623	Main Winding Arm Forward		24VAC Out	45C67	X 6000 Solenoid Valve SV 623	
L0	12.11	SV624	Main Winding Arm Reverse				X 6000 Solenoid Valve SV 624	
L0	12.12	SV625	Lower Roll Transfer Bridge		24VAC Out	45C67	X 6000 Solenoid Valve SV 625	
L0	12.13	SV626	Raise Roll Transfer Bridge				X 6000 Solenoid Valve SV 626	
L0	12.14	SV627	Full Range Roll Mandril Brake		24VAC Out	45C67	X 6000 Solenoid Valve SV 627	
L0	12.15	SV628	Lower Mandril Loader				X 6000 Solenoid Valve SV 628	
L0	12.16	SV629	Raise Mandril Loader		24VAC Out	45C67	X 6000 Solenoid Valve SV 629	
L0	12.17	SV630	Mandril Stop 1 Lower				X 6000 Solenoid Valve SV 630	

Z oI n/ e0	REG No.	I/O No.	Name	Description	Card Type	Part No.	Note	Contents
LO	13.00		SV631	Mandril Stop 2 Lower	24VAC Out	45C67	X 6000 Solenoid Valve SV 631	
LO	13.01		PL6001	Winder System ON			CP 600 Lamp	
LO	13.02		PL6002	Winder System 'Ready To Cut'	24VAC Out	45C67	CP 600 IPB Lamp	
LO	13.03		PL6003	Winder System Manual Op Enable			CP 600 Lamp	
LI	13.04		PB6012	Retract New Roll Kickers	24 VAC/DC In	45C44	CP 600 Pushbutton	
LI	13.05		LS638	MF Mandril In Position 1			X 6000 Limit Switch LS 638a, b	
LI	13.06		LS636	MF Mandril In Position 2	24 VAC/DC In	45C44	X 6000 Limit Switch LS 638a, b	
LI	13.07		LS637	MF Mandril In Loader			X 6000 Limit Switch LS 637a, b	
LI	13.10		LS632	Mand Transfer Arm Lock Closed	24 VAC/DC In	45C44	X 6000 Limit Switch LS 632	
LI	13.11		LS633	Mand Transfer Arm Lock Open			X 6000 Limit Switch LS 633	
LI	13.12		PB6013	Lower New Mandril Starter	24 VAC/DC In	45C44	CP 600 Pushbutton	
LI	13.13		PB6014	Raise New Mandril Starter			CP 600 Pushbutton	
LI	13.14		PB6015	Lower Thread Belt To Mandril	24 VAC/DC In	45C44	CP 600 Pushbutton	
LI	13.15		PB6016	Retract Thread Belt			CP 600 Pushbutton	
LI	13.16		LS634	Thread Belt In Contact	24 VAC/DC In	45C44	X 6000 Limit Switch LS 634	
LI	13.17		LS635	Thread Belt Retracted			X 6000 Limit Switch LS 635	
LI	14.00		DESRON	Drive E Stop Relay ON	230 VAC/DC In	45C43	Drive System - E 01	
LI	14.01							
L	14.02							
L	14.03							
LI	14.04		PB6017	Winder System Start	24 VAC/DC In	45C44	CP 600 I11 Pushbutton	
LI	14.05		PB6018	Winder System Stop			CP 600 Pushbutton	
LI	14.06		PB6019	Winder Section Slack Take Up	24 VAC/DC In	45C44	CP 600 Pushbutton	
LI	14.07		PB6020	Run Air Blower			CP 600 Pushbutton	
LI	14.10		KS6021	Winder System Manual Control	24 VAC/DC In	45C44	CP 600 Key Switch	
LI	14.11		SS6022	Range Roll Change Automatic			CP 600 Selector Switch	
LI	14.12		PB6023	Raise Mandril Transfer Arm	24 VAC/DC In	45C44	CP 600 Pushbutton	
LI	14.13		PB6024	Lower Mandril Transfer Arm			CP 600 Pushbutton	
LI	14.14		PB6025	Stop Mandril Transfer Arm	24 VAC/DC In	45C44	CP 600 Pushbutton - NC	
LI	14.15		PB6026	Rotate Web Transfer Arm			CP 600 Pushbutton	
LI	14.16		PB6027	Stop Web Transfer Arm	24 VAC/DC In	45C44	CP 600 Pushbutton - NC	
LI	14.17		PB6028	Cut New Range Roll			CP 600 I11 Pushbutton	
*R	40.00		ROLEN1	Range Roll Length > Preset				
*R	40.01		ROLEN2	Range Roll Length < Preset				
*R	40.02		FLASHR	1/2 Second Flasher for CP 430				
*R	40.03		INITZE	Program Initialization 1 Shot				
*R	40.04		WNDMAN	Winder Manual Control Enable				
*R	40.05		WNDATO	Winder Automatic Cont Enable				
*R	40.06		WAUTOK	Winder Set Up OK for Auto Cyc				
*R	40.07		CHAI DX	Roll Chain Indexed W/New Roll				
*R	40.10		WHI TEN	Winder Web Tension > Setpoint				
*R	40.11		WLOTEN	Winder Web Tension < Setpoint				
*R	40.12		HOURS1	Hour Timer For Equipment Log				
*R	40.13		HOURS2	Hour Timer For Equipment Log				
*R	40.14		HYHRS1	Hydraulic Pump Running Hours				
*R	40.15		HYHRS2	Hydraulic Pump Running Hours				
*R	40.16		LBHRS1	Lubrication Oil Running Hours				
*R	40.17		LBHRS2	Lubrication Oil Running Hours				
*R	41.00		CHAMF1	Roll Chain Empty Counter				
*R	41.01		CHAMF2	Roll Chain Empty Counter				
*R	41.02		WNRUN	Winder System Run				
*R	41.03		WATRUN	Winder Automatic Cycle Run				
*R	41.04		A1SCAN	Winder Auto Cycle 1 Scan				
*R	41.05		A1SAUX	Winder Auto Cycle 1 Scan Aux				
*R	41.06		BRDNOK	OK To Lower Transfer Bridge				
*R	41.07		CNTRST	Roll Metrage Counter Reset				
*R	41.10		WCUTDY	Winder Cutter Start Delay				
*R	41.11		CTONDY	Winder Cutter On Delay				
*R	41.12		RSTCTR	Web Cut Made - Reset Counter				
*R	41.13		ROL@BR	Full Roll @ Transfer Bridge				
*R	41.14		RLBR TD	Full Roll Brake On Delay				
*R	41.15		STOROL	Roll To Storage - Index Chain				
*R	41.16		RCHGCO	Winder Roll Change Cycle Compl				
*R	41.17		CUTMAD	Roll Cut Made Relay				

Z oI n/ REG I/O e0 No. No. Name	Description	Card Type	Part No.	Note	Contents
*R 42.00	STOAUT	Roll Storage System Automatic			
*R 42.01	ST1SCA	Roll Storage System 1 Scan			
*R 42.02	S1SCAX	Roll Storage System 1 Scan Aux			
*R 42.03	PRL@WD	Put Roll @ Winder To Start			
*R 42.04	EXKICK	Extend Roll Kickers Relay			
*R 42.05	RL@WDR	Roll Chain - Roll At Winder			
*R 42.06	RL@SLT	Roll Chain - Roll AT Slitter			
*R 42.07	LOADST	Load New Roll On Slitter Cycle			
*R 42.10	STLDCO	Slitter Load Cycle Complete			
*R 42.11	LD1SCA	Slitter Load Cycle 1 Scan			
*R 42.12	MTHOOK	Hooks Closed By Mf Mandril			
*R 42.13	MTHKOP	Hooks Past Mf Mandril			
*R 42.14	HST>WD	Hoist Toward Winder Relay			
*R 42.15	CH@WDR	Roll Chain @ Winder For Roll			
*R 42.16	NRHOOK	Hooks Closed By New Roll			
*R 42.17	NRKHOP	Hooks Past New Roll			
*R 43.00	HSTDMT	Hoist Down To Pick Up Mandril			
*R 43.01	HSTUMT	Hoist Up With Mf Mandril			
*R 43.02	WMANLD	Winder - New Mandril In Loader			
*R 43.03	HSTDNR	Hoist Down With Mf For Roll			
*R 43.04	HSTUNR	Hoist Up With New Roll			
*R 43.05	HST>ST	Hoist Toward Slitter With Roll			
*R 43.06	HSTDUL	Hoist Down To Unload New Roll			
*R 43.07	HST<NR	Hoist Back To Clear New Roll			
*R 43.10	HSTUHM	Mf Hoist Up To Home Position			
*R 43.11	HST>HM	Mf Hoist Toward Slitter Home			
*R 43.12	HSTHOM	Hoist Home Relay			
*R 43.13	WCHIDX	Index Chain With New Roll			
*R 43.14	CH>STR	Put Roll @ Slitter For Loading			
*R 43.15	STMfCH	Start Mf Mandril Chain			
*R 43.16	ROL/CH	New Roll Loaded On Chain			
*R 43.17	STP1AX	Lower Stop 1 Auxiliary			
*R 44.00	RTKICK	Retract New Roll Kickers Relay			
*R 44.01	BRUPOK	OK To Raise Transfer Bridge			
*R 44.02	HSTDOK	OK To Lower Mandril Hoist			
*R 44.03	WTCMP>	Compare Winder Tension > SP			
*R 44.04	WTCMP<	Compare Winder Tension < SP			
*R 44.05	RARMOK	OK To Rotate Web Transfer Arms			
*R 44.06	UPDQUE	Roll Finished - Update Queue			
*R 44.07	QUEUPD	Roll Storage Queue Updated			
*R 44.10	DECQUE	Roll On Hoist - Dec Queue			
*R 44.11	QUEDEC	Roll Storage Que Decrementd			
*R 44.12	CHAIXD	Roll Chain Index with New Roll			
*R 44.13	WEBBRK	Web Break			
*R 44.14	TNCLON	Winder Tension Control On			
*R 44.15	WTCLIM	Winder Tension Control Limit			
*R 44.16	WTRIML	Winder Trim Low Limit			
*R 44.17	WTRIMH	Winder Trim High Limit			
*R 45.00	WDRMON	Winder Drum Sequencer On			
*R 45.01	WDRMFN	Winder Drum Sequencer Finished			
R 45.02					
R 45.03					
R 45.04					
R 45.05					
R 45.06					
R 45.07					
R 45.10					
R 45.11					
R 45.12					
R 45.13					
R 45.14					
R 45.15					
R 45.16					
R 45.17					

Z oI n/ e0	REG No.	I/O No.	Name	Description	Card Type	Part No.	Note	Contents
LR	52.00	D0616		Lower Mandril Transfer Arm			X 6000 Solenoid Valve SV 616	
LR	52.01	D0617		Raise Mandril Transfer Arm			X 6000 Solenoid Valve SV 617	
LR	52.02	D0618		Open Mandril Transfer Arm			X 6000 Solenoid Valve SV 618	
LR	52.03	D0619		Close Mand Transfer Arm Lock			X 6000 Solenoid Valve SV 619	
LR	52.04	D0620		Lower Mandril Starter Belt			X 6000 Solenoid Valve SV 620	
LR	52.05	D0621		Activate Web Cutter			X 6000 Solenoid Valve SV 621	
LR	52.06	D0622		Activate Web Tail Blower			X 6000 Solenoid Valve SV 622	
LR	52.07	D0636		Lower Thread Belt to Mandril			X 6000 Solenoid Valve SV 636	
LR	52.10	D0623		Main Winding Arm Forward			X 6000 Solenoid Valve SV 623	
LR	52.11	D0624		Main Winding Arm Reverse			X 6000 Solenoid Valve SV 624	
LR	52.12	D0625		Lower Roll Transfer Bridge			X 6000 Solenoid Valve SV 625	
LR	52.13	D0626		Raise Roll Transfer Bridge			X 6000 Solenoid Valve SV 626	
LR	52.14	D0627		Full Range Roll Mandril Brake			X 6000 Solenoid Valve SV 627	
LR	52.15	D0628		Lower Mandril Loader			X 6000 Solenoid Valve SV 628	
LR	52.16	D0629		Raise Mandril Loader			X 6000 Solenoid Valve SV 629	
LR	52.17	D0630		Mandril Stop 1 Lower			X 6000 Solenoid Valve SV 630	
R	53.00	D0631		Mandril Stop 2 Lower			X 6000 Solenoid Valve SV 631	
R	53.01							
R	53.02							
R	53.03							
R	53.04							
AR	53.05	D06020		Winder Transfer Arm Motor			M C. C. Starter for M 6020	
R	53.06							
R	53.07							
R	53.10							
R	53.11							
R	53.12							
R	53.13							
R	53.14							
R	53.15							
R	53.16							
R	53.17							
OR	71.00	R/SAUT		Roll Storage System Automatic				
IR	71.01	SLTRDY		Slitter Ready For Roll Change				
R	71.02							
IR	71.03	SLUWCT		Slitter Unwind Centered				
IR	71.04	LOCKOP		Slitter Unwind Locks Open				
R	71.05							
R	71.06							
R	71.07							
OR	71.10	LOADCY		Slitter Load Cycle Started				
OR	71.11	OPLOCK		Open Slitter Unwind Locks				
R	71.12							
OR	71.13	LDCYCO		Slitter Load Cycle Complete				
R	71.14							
R	71.15							
R	71.16							
R	71.17							
				<i>System Error Block</i>				
	76.00	SYSERR		System Error Contact				
	76.01	RALERR		Rail Error Contact				
	76.02	RTC.01		System Clock 0.01 Sec.				
	76.03	RTC0.1		System Clock 0.1 Sec				
	76.04	RTC1.0		System Clock 1 Sec.				
	76.05	PROFLT		Programmable Fault				
	76.06	PWRUP		Power Up Coil				
	76.07							
	76.10	EDIAON		Expanded Diag. Enable				
	76.11	EDIAOF		Expanded Diag. Disable				
	76.12	LHPARE		Local Head Parity Enable				
	76.13							
	76.14							
	76.15							
	76.16							
	76.17							

REG No.	I/O No.	Name	Description	Card Type	Part No.	Note	Contents
<i>System Error Block</i>							
77.00			Reserved				
77.01			Reserved				
77.02			Reserved				
77.03			Reserved				
77.04			Reserved				
77.05			Reserved				
77.06			Reserved				
77.07			Reserved				
77.10			Reserved				
77.11			Reserved				
77.12			Reserved				
77.13			Reserved				
77.14			Reserved				
77.15			Reserved				
77.16			Reserved				
77.17			Reserved				
<i>Local Head Faults</i>							
3760.00	LHDFP0		Port 0 Local Head Fail				
3760.01	LHDFP1		Port 1 Local Head Fail				
3760.02	LHDFP2		Port 2 Local Head Fail				
3760.03	LHDFP3		Port 3 Local Head Fail				
3760.04							
3760.05							
3760.06							
3760.07							
3760.10							
3760.11							
3760.12							
3760.13							
3760.14							
3760.15							
3760.16							
3760.17							
<i>Power Up Errors</i>							
3774.00	EROERR		Application EEROM Chks.				
3774.01	I/OCN		I/O Conf. Checksum Err				
3774.02	DARGER		Data Reg. Checksum Err				
3774.03	NOVERR		NOVRAM Checksum Error				
3774.04							
3774.05							
3774.06							
3774.07							
3774.10							
3774.11							
3774.12							
3774.13							
3774.14							
3774.15							
3774.16							
3774.17							
<i>System Stop</i>							
3775.00	CONERR		Configuration Error				
3775.01	WATERR		System Watchdog Error				
3775.02	A30ERR		A30E block in A30				
3775.03							
3775.04							
3775.05							
3775.06							
3775.07							
3775.10							
3775.11							
3775.12							
3775.13							
3775.14							
3775.15							
3775.16							
3775.17							

File: A30DEMO  
Name: Reliance Electric Co.  
Eng.: Don Smith

June 17, 1997  
Location: Cleveland, OH  
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Point / Register List

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REG	I/O	Name	Description	Card Type	Part No.	Note	Contents
			<i>System Lock</i>				
3777.00	MEMERR		Appl. Mem/ Checksum				
3777.01	SLIOER		I/O Conf. Checksum Err				
3777.02	SLDAER		Data Register Chks. Err				
3777.03	SPRFLT		Programmable Fault				
3777.04	VECERR		Illegal Interrupt Vect.				
3777.05	EXEERR		Executive Checksum Err				
3777.06	SMEMER		Scatchpad Mem Test Err				
3777.07	NOVTER		NOVRAM Memory Test Err				
3777.10	MEMFER		R/W Appl Mem Test Err				
3777.11	COMPER		Compile Error				
3777.12	EPRERR		EEPROM Burn Error				
3777.13	KEYERR		Key Switch Error				
3777.14	BOOERR		Boolean Proc Test Err				
3777.15	A3OSER		A30 Card Slot Decode Err				
3777.16	MULCER		MULTIBUS Checkerboard Err				
3777.17	MULERR		MULTIBUS Error				

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**Rack Configuration List**

Rack: CALSAT	Name: TB Calendar Control Chassis	Type: 45C310(6)	
Slot	Card	Part Number	Name
PS1	20A Power Supply	45C321	Rack Power Supply
PS2			
PS3			
1	Remote I/O Proc.	45C201	Calendar Control Communication
2	Analog Out +/- 10 VDC	45C364	Hydraulic System Logic Control
3	Analog In 4-20ma	45C340	Benchboard TWS Inputs
Rails: 0	Local Heads: 0	Remote Heads: 0	

Rack: MASTER	Name: TB Line Master Chassis	Type: 45C316(19)	
Slot	Card	Part Number	Name
PS1	50A Power Supply	45C322	Rack Power Supply
PS2			
PS3			
1	A30E 8K Processor	45C307	Main Processor
2	Local I/O Processor	45C200	Calendar Temperature
3	Local I/O Processor	45C200	Monitor Inputs
4	Local I/O Processor	45C200	Condenser Pressure Inputs
5	Analog In +/- 5 VDC	45C343	General Drive Trim Inputs
6	Analog Out +/- 5 VDC	45C363	General Drive Trim Outputs
7	Analog Out +/- 5 VDC	45C363	Condenser Gate Position Output
10	Register Output	45C381	Winder Control
11	Remote I/O Proc.	45C201	Roll Storage Control Satellite
12	Analog In 0-5 VDC	45C341	Hydraulic System Pressure In
13	Analog Out 0-5 VDC	45C361	Hydraulic System Servo Outputs
14			
15	Register Output	45C381	Calendar Control
16			
17			
0			
Rails: 7	Local Heads: 0	Remote Heads: 0	

I/O Modules

Module		Used	10% Spares	Total
230 VAC/DC In	( 45C43)	11	1	12
24 VAC/DC In	( 45C44)	50	5	55
230VAC Out	( 45C62)	21	2	23
24VAC Out	( 45C67)	13	1	14
Contact Out(NO)	( 45C66)	1	1	2

Rack Cards

Card		Used	10% Spares	Total
20A Power Supply	( 45C321)	1	1	2
50A Power Supply	( 45C322)	1	1	2
A30E 8K Processor	( 45C307)	1	1	2
Local I/O Processor	( 45C200)	3	1	4
Remote I/O Proc.	( 45C201)	2	1	3
Analog In 4-20ma	( 45C340)	1	1	2
Analog In 0-5 VDC	( 45C341)	1	1	2
Analog In +/- 5 VDC	( 45C343)	1	1	2
Analog Out 0-5 VDC	( 45C361)	1	1	2
Analog Out +/- 5 VDC	( 45C363)	2	1	3
Analog Out +/- 10 VDC	( 45C364)	1	1	2
Register Output	( 45C381)	2	1	3

Racks

Rack		Used
45C310	( 6)	1
45C316	(19)	1

I/O Devices

Rails	( 45C1)	7
Local Heads	( 45C22)	0
Remote Heads	( 45C37)	0



File: *A30DEMO*  
Name: *Reliance Electric Co.*  
Eng.: *Don Smith*

*June 17, 1997*  
Location: *Cleveland, OH*  
Job No.: *1*  
*I/O Port Configuration*

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MSLT	DROP #	TYPE	RSLT	CARD	CHAN	I/O	REG
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END

