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44936601 Rev. Y
09-05 cw,dc,vk

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Advanced Support Information

CAUTION

The information in this document is intended for Universal Instruments Corporation personnel only. Unauthorized use of this information may result in damage to the machine and may adversely affect the warranty status of a machine if used by persons other than Universal Instruments personnel.

Introduction

A Function Address Word (FAW) contains 8 bits of information and represents an address of a PC board in an electrical chassis. FAWs may be used as follows:

- The values of FAWs may be read from or written to in Advanced Motion Control (AMC) software.
- The FAW addresses may be written or read from BusProbe software.

FAWs can either be read from or written to as described below:

- Output - a FAW in a controller chassis (such as a MMIT) is divided into individual output Bits (signals) to activate outputs such as motors, clutches or lights.
- Input - an input to a Bit in a FAW from a sensor, for example, provides information for the controller chassis regarding the status of a subassembly.

  The Input and Output of a word may be independent in function. Using an adhesive head as an example, a FAW output can activate a spindle clutch whereas the input to the same FAW might indicate low adhesive in the syringe.
- A diagnostic FAW attempts to send and receive the same signal to verify correct transmission.

Example of a FAW Chart

NOTE **The # symbol is used in the following example in place of the numbers for the address, chassis, and PC board.**

Refer to the following example of a FAW located at address ####H in the MMIT Chassis. (H means hexadecimal.) The signal is then divided from Slot PC# of a CI0 Chassis to connect to Nozzle Changers X and Y. Using Bit3 from the table as an example, note the following information:

- **INPUT:** If the MMIT reads Bit3 from the Nozzle Changer X, Bit3 = 1 indicates that Nozzle Changer X is in the down position. Therefore, Bit3 = 0 means that Nozzle Changer X is not down (but probably up).
- **OUTPUT:** If the MMIT sends the FAW value to Nozzle Changer X, Bit3 = 1 instructs Nozzle Changer X to raise up. Therefore, Bit3 = 0 instructs Nozzle Changer X to lower.

Address: ####H, Location: CI0#, Slot: PC#

PC BOARD: 16 I/O *EXAMPLE ONLY				MEMORY TYPE: VME A16/D8 *EXAMPLE ONLY			
FUNCTION: FRONT NOZZLE CHANGER				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P1-14C	0	0		P1-2C
	1	Mod X Vacuum Present			1	Mod X Nozzle 1&2 Vac	
1	0		P1-14A	1	0		P1-2A
	1				1	Mod X Nozzle 3&4 Vac	
2	0		P1-15C	2	0		P1-3C
	1				1	Mod X Nozzle 5, 6, 7 Vac	
3	0		P1-15A	**3**	0		P1-3A
	1	**Mod X Down**			**1**	**Mod X Nozzles Up**	
4	0		P1-16C	4	0		P1-4C
	1	Mod Y Vacuum Present			1	Mod Y Nozzle 1&2 Vac	
5	0		P1-16A	5	0		P1-4A
	1				1	Mod Y Nozzle 3&4 Vac	
6	0		P1-17C	6	0		P1-5C
	1				1	Mod Y Nozzle 5, 6, 7 Vac	
7	0		P1-17A	7	0		P1-5A
	1	Mod Y Down			1	Mod Y Nozzles Up	

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LOC I/O

Address: 1001H, Location: GPI/O, Slot: PC10 - GSM, GSM2 (Except U-Block), GSMx

Address: 1001H, Location: GPI/O, Slot: PC4 - GSMxs

PC BOARD: LOC I/O **MEMORY TYPE: VME A16/D8**

FUNCTION: OPTO 22 **NOTE:**

BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		P1-17A
	1				1	Red Beacon Light	
1	0			1	0		P1-18A
	1				1	Orange Beacon Light	
2	0			2	0		P1-19A
	1				1	Green Beacon Light	
3	0			3	0		P1-20A
	1				1	Blue Beacon Light	
4	0			4	0		P1-21A
	1				1		
5	0			5	0		P1-22A
	1				1	Audible Alarm	
6	0			6	0		P1-23A
	1				1	Counter 1	
7	0			7	0		P1-24A
	1				1	Counter 2	

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Address: 1001H, Location: VME, Slot: PC20 - GSM2 U-Block

PC BOARD: LOC I/O — **MEMORY TYPE: VME A16/D8**

FUNCTION: OPTO 22 — **NOTE:**

BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		P1-17A
	1				1		
1	0			1	0		P1-18A
	1				1		
2	0			2	0		P1-19A
	1				1		
3	0			3	0		P1-20A
	1				1		
4	0			4	0		P1-21A
	1				1		
5	0			5	0		P1-22A
	1				1		
6	0			6	0		P1-23A
	1				1		
7	0			7	0		P1-24A
	1				1		

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Address: 1003H, Location: GPI/O, Slot: PC10 - GSM, GSM2, GSMx

Address: 1003H, Location: GPI/O, Slot: PC4 - GSMxs

Address: 1003H, Location: VME, Slot: PC20 - Vantis

PC BOARD: LOC I/O **MEMORY TYPE: VME A16/D8**

FUNCTION: OPTO 22 **NOTE:**

BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P1-25A	0	0		P1-25A
	1				1		
1	0		P1-26A	1	0		P1-26A
	1				1		
2	0		P1-27A	2	0		P1-27A
	1				1		
3	0		P1-28A	3	0		P1-28A
	1				1		
4	0		P1-29A	4	0		P1-29A
	1				1		
5	0		P1-30A	5	0		P1-30A
	1				1		
6	0		P1-31A	6	0		P1-31A
	1				1		
7	0		P1-32A	7	0		P1-32A
	1				1		

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Address: 1005H, Location: GPI/O, Slot: PC10 - GSM, GSM2 (Except U-Block), GSMx

Address: 1005H, Location: GPI/O, Slot: PC4 - GSMxs

PC BOARD: LOC I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: LOWER CONSOLE				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0	Low Presure Sense	P2-1C	0	0		P2-17C
	1				1	Feeder Power Relay	
1	0		P2-2C	1	0		P2-18C
	1				1	FR Shot Pin Fired	
2	0		P2-3C	2	0		P2-19C
	1				1	RR Shot Pin Fired	
3	0		P2-4C	3	0		P2-20C
	1				1		
4	0		P2-5C	4	0		P2-21C
	1				1		
5	0		P2-6C	5	0		P2-22C
	1				1		
6	0		P2-7C	6	0		P2-23C
	1				1		
7	0		P2-8C	7	0		P2-24C
	1				1		

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Address: 1005H, Location: VME, Slot: PC20 - Vantis

Address: 1005H, Location: VME, Slot: PC20 - GSM2 U-Block

PC BOARD: LOC I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: LOWER CONSOLE				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0	Low Presure Sense	P2-1C	0	0		P2-17C
	1				1	Feeder Power Relay	
1	0		P2-2C	1	0		P2-18C
	1				1	FR Shot Pin Fired	
2	0		P2-3C	2	0		P2-19C
	1				1	RR Shot Pin Fired	
3	0		P2-4C	3	0		P2-20C
	1				1		
4	0		P2-5C	4	0		P2-21C
	1				1		
5	0		P2-6C	5	0		P2-22C
	1				1		
6	0		P2-7C	6	0		P2-23C
	1				1	Counter 1	
7	0		P2-8C	7	0		P2-24C
	1				1	Counter 2 (U-Block Only)	

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Address: 1007H, Location: GPI/O, Slot: PC10 - GSM, GSM2 (Except U-Block), GSMx

Address: 1007H, Location: GPI/O, Slot: PC4 - GSMxs

PC BOARD: LOC I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: LOWER CONSOLE				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P2-9C	0	0		P2-25C
	1				1		
1	0		P2-10C	1	0		P2-26C
	1				1		
2	0		P2-11C	2	0		P2-27C
	1				1		
3	0		P2-12C	3	0		P2-28C
	1				1		
4	0		P2-13C	4	0		P2-29C
	1				1		
5	0		P2-14C	5	0		P2-30C
	1				1		
6	0		P2-15C	6	0		P2-31C
	1				1		
7	0		P2-16C	7	0		P2-32C
	1				1		

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Address: 1007H, Location: VME, Slot: PC20-GSM2 AdVantis

PC BOARD: LOC I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: SMEMA - LANE 2				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P2-9C	0	0		P2-25C
	1				1	Yellow Beacon Light	
1	0		P2-10C	1	0		P2-26C
	1				1	Audible Alarm	
2	0		P2-11C	2	0		P2-27C
	1				1	Red Beacon Light	
3	0		P2-12C	3	0		P2-28C
	1				1		
4	0		P2-13C	4	0		P2-29C
	1				1	Green Beacon Light	
5	0		P2-14C	5	0		P2-30C
	1				1		
6	0		P2-15C	6	0		P2-31C
	1				1	Blue Beacon Light	
7	0		P2-16C	7	0		P2-32C
	1				1		

Address: 1007H, Location: VME, Slot: PC20 - Vantis

PC BOARD: LOC I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: LOWER CONSOLE				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P2-9C	0	0		P2-25C
	1				1	Beacon Light (Optional)	
1	0		P2-10C	1	0		P2-26C
	1				1	Audible Alarm (Optional)	
2	0		P2-11C	2	0		P2-27C
	1				1		
3	0		P2-12C	3	0		P2-28C
	1				1		
4	0		P2-13C	4	0		P2-29C
	1				1		
5	0		P2-14C	5	0		P2-30C
	1				1		
6	0		P2-15C	6	0		P2-31C
	1				1		
7	0		P2-16C	7	0		P2-32C
	1				1		

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Address: 1007H, Location: VME, Slot: PC20 - GSM2 U-Block

PC BOARD: LOC I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: LOWER CONSOLE				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P2-9C	0	0		P2-25C
	1				1	Red Beacon Light	
1	0		P2-10C	1	0		P2-26C
	1				1	Audible Alarm	
2	0		P2-11C	2	0		P2-27C
	1				1	Orange Beacon Light	
3	0		P2-12C	3	0		P2-28C
	1				1	Green Beacon Light	
4	0		P2-13C	4	0		P2-29C
	1				1	Blue Beacon Light	
5	0		P2-14C	5	0		P2-30C
	1				1		
6	0		P2-15C	6	0		P2-31C
	1				1		
7	0		P2-16C	7	0		P2-32C
	1				1		

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Address: 1009H, Location: GPI/O, Slot: PC10 - GSM, GSM2 (Except U-Block), GSMx

Address: 1009H, Location: GPI/O, Slot: PC4 - GSMxs

PC BOARD: LOC I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: SMEMA - LANE 2				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P2-29B	0	0		P2-25B/A
	1	Upline Brd Avail (Lane 2)			1	Upline Busy (Lane 2)	
1	0		P2-30B	1	0		P2-26B/A
	1	Downline Busy (Lane 2)			1	Downline Brd Avail (Lane 2)	
2	0		P2-31B	2	0		P2-27B/A
	1				1		
3	0		P2-32B	3	0		P2-28C
	1				1		
4	0			4	0		
	1				1		
5	0			5	0		
	1				1		
6	0			6	0		
	1				1		
7	0			7	0		
	1				1		

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Address: 1009H, Location: VME, Slot: PC20 - Vantis

PC BOARD: LOC I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: SMEMA				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P2-29B	0	0		P2-25B/A
	1	Upline Brd Avail (Lane 1)			1	Upline Busy (Lane 1)	
1	0		P2-30B	1	0		P2-26B/A
	1	Downline Busy (Lane 1)			1	Downline Brd Avail (Lane 1)	
2	0		P2-31B	2	0		P2-27B/A
	1				1		
3	0		P2-32B	3	0		P2-28B/A
	1				1		
4	0			4	0		
	1				1		
5	0			5	0		
	1				1		
6	0			6	0		
	1				1		
7	0			7	0		
	1				1		

Address: 1009H, Location: VME, Slot: PC20 - GSM2 U-Block

PC BOARD: LOC I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: SMEMA				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P2-29B	0	0		P2-25B/A
	1				1		
1	0		P2-30B	1	0		P2-26B/A
	1				1		
2	0		P2-31B	2	0		P2-27B/A
	1				1		
3	0		P2-32B	3	0		P2-28B/A
	1				1		
4	0			4	0		
	1				1		
5	0			5	0		
	1				1		
6	0			6	0		
	1				1		
7	0			7	0		
	1				1		

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Address: 100FH, Location: GPI/O, Slot: PC10 - GSM, GSM2, GSMx

Address: 100FH, Location: GPI/O, Slot: PC4 - GSMxs

Address: 100FH, Location: VME, Slot: PC20 - Vantis

PC BOARD: LOC I/O			MEMORY TYPE: VME A16/D8		
FUNCTION: DIAGNOSTIC BYTE			NOTE:		
BIT	**INPUT**	**CONN/PIN**	**BIT**	**OUTPUT**	**CONN/PIN**
0	Reads Diagnostic Byte		0	Writes Diagnostic Byte	
1			1		
2			2		
3			3		
4			4		
5			5		
6			6		
7			7		

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Address: 1011H, Location: GPI/O, Slot: PC11 - GSM, GSM2, GSMx

Address: 1011H, Location: GPI/O, Slot: PC4 - GSMxs

Address: 1011H, Location: VME, Slot: PC20 - Vantis

PC BOARD: LOC I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: OPTO 22				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		P1-17A
	1				1		
1	0			1	0		P1-18A
	1				1		
2	0			2	0		P1-19A
	1				1		
3	0			3	0		P1-20A
	1				1		
4	0			4	0		P1-21A
	1				1		
5	0			5	0		P1-22A
	1				1		
6	0			6	0		P1-23A
	1				1		
7	0			7	0		P1-24A
	1				1		

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Address: 1013H, Location: GPI/O, Slot: PC11 - GSM, GSM2, GSMx

Address: 1013H, Location: GPI/O, Slot: PC4 - GSMxs

Address: 1013H, Location: VME, Slot: PC20 - Vantis

PC BOARD: LOC I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: OPTO 22				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P1-25A	0	0		P1-25A
	1				1		
1	0		P1-26A	1	0		P1-26A
	1				1		
2	0		P1-27A	2	0		P1-27A
	1				1		
3	0		P1-28A	3	0		P1-28A
	1				1		
4	0		P1-29A	4	0		P1-29A
	1				1		
5	0		P1-30A	5	0		P1-30A
	1				1		
6	0		P1-31A	6	0		P1-31A
	1				1		
7	0		P1-32A	7	0		P1-32A
	1				1		

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Address: 1015H, Location: GPI/O, Slot: PC11 - GSM, GSM2, GSMx

Address: 1015H, Location: GPI/O, Slot: PC4 - GSMxs

PC BOARD: LOC I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: SMPI (S1PL)				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P2-1C	0	0		P2-17C
	1	Receive Request In			1	Send Request Out	
1	0		P2-2C	1	0		P2-18C
	1	Send Request In			1	Receive Request Out	
2	0		P2-3C	2	0		P2-19C
	1	Acknowledge Request In			1	Acknowledge Request Out	
3	0		P2-4C	3	0		P2-20C
	1	Transfer Request In			1	Transfer Request Out	
4	0	Intrude In	P2-5C	4	0	Extend Out	P2-21C
	1				1		
5	0		P2-6C	5	0		P2-22C
	1	OK Extend In			1	OK Intrude Out	
6	0		P2-7C	6	0		P2-23C
	1	Machine Available In			1	Machine Available Out	
7	0		P2-8C	7	0		P2-24C
	1	Good Board In			1	Good Board Out	

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Address: 1017H, Location: GPI/O, Slot: PC11 - GSM, GSM2, GSMx

Address: 1017H, Location: GPI/O, Slot: PC4 - GSMxs

PC BOARD: LOC I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: SMPI (S2PL)				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P2-9C	0	0		P2-25C
	1	Receive Request In			1	Send Request Out	
1	0		P2-10C	1	0		P2-26C
	1	Send Request In			1	Receive Request Out	
2	0		P2-11C	2	0		P2-27C
	1	Acknowledge Request In			1	Acknowledge Request Out	
3	0		P2-12C	3	0		P2-28C
	1	Transfer Request In			1	Transfer Request Out	
4	0	Intrude In	P2-13C	4	0	Extend Out	P2-29C
	1				1		
5	0		P2-14C	5	0		P2-30C
	1	OK Extend In			1	OK Intrude Out	
6	0		P2-15C	6	0		P2-31C
	1	Machine Available In			1	Machine Available Out	
7	0		P2-16C	7	0		P2-32C
	1	Good Board In			1	Good Board Out	

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Address: 1019H, Location: GPI/O, Slot: PC11 - GSM, GSM2, GSMx

Address: 1019H, Location: GPI/O, Slot: PC4 - GSMxs

PC BOARD: LOC I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: SMEMA - LANE 1				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P2-29B	0	0		P2-25B/A
	1	Upline Brd Avail (Lane 1)			1	Upline Busy (Lane 1)	
1	0		P2-30B	1	0		P2-26B/A
	1	Downline Busy (Lane 1)			1	Downline Brd Avail (Lane 1)	
2	0		P2-31B	2	0		P2-27B/A
	1				1		
3	0		P2-32B	3	0		P2-28B/A
	1				1		
4	0			4	0		
	1				1		
5	0			5	0		
	1				1		
6	0			6	0		
	1				1		
7	0			7	0		
	1				1		

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Address: 101FH, Location: GPI/O, Slot: PC11 - GSM, GSM2, GSMx

Address: 101FH, Location: GPI/O, Slot: PC4 - GSMxs

Address: 101FH, Location: VME, Slot: PC20 - Vantis

PC BOARD: LOC I/O			MEMORY TYPE: VME A16/D8		
FUNCTION: DIAGNOSTIC BYTE			NOTE:		
BIT	INPUT	CONN/PIN	BIT	OUTPUT	CONN/PIN
0	Reads Diagnostic Byte		0	Writes Diagnostic Byte	
1			1		
2			2		
3			3		
4			4		
5			5		
6			6		
7			7		

Upper Console

Address: 1041H, Location: CI01, Slot: PC1

PC BOARD: 16 I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: UPPER CONSOLE				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P1-14C	0	0		P1-2C
	1	Locator Lane 1 (Vac Sense)			1	Board Stop (Lane 1)	
1	0		P1-14A	1	0		P1-2A
	1	Locator Lane 2 (Vac Sense)			1	Brd Clmp/Loc/Support (Lane 1)	
2	0		P1-15C	2	0		P1-3C
	1				1	Brd Sup Brake/Vacuum	
3	0		P1-15A	3	0		P1-3A
	1				1	Board Stop (Lane 2)	
4	0		P1-16C	4	0		P1-4C
	1				1	Brd Clmp/Loc/Support (Lane 2)	
5	0	Wide Brd Width	P1-16A	5	0		P1-4A
	1	Narrow Brd Width			1		
6	0		P1-17C	6	0		P1-5C
	1	Coplanarity Sensor Up (Rear)			1	Coplanarity Up (Rear)	
7	0		P1-17A	7	0		P1-5A
	1	Coplanarity Sensor Down (Rear)			1		

Address: 1043H, Location: CI01, Slot: PC1

PC BOARD: 16 I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: UPPER CONSOLE				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P1-19C	0	0		P1-8C
	1	Coplanarity Sensor Up (Front)			1	Coplanarity Up (Front)	
1	0		P1-19A	1	0		P1-8A
	1	Coplanarity Sensor Down (Front)			1		
2	0	Aux - Front Panel	P1-20C	2	0		P1-9C
	1				1	Aux - Front Panel	
3	0	Aux - Rear Panel	P1-20A	3	0		P1-9A
	1				1	Aux - Rear Panel	
4	0	Stop - Front Panel	P1-21C	4	0		P1-10C
	1				1	Stop - Front Panel	
5	0	Stop - Rear Panel	P1-21A	5	0		P1-10A
	1				1	Stop - Rear Panel	
6	0		P1-22C	6	0		P1-11C
	1	Start - Front Panel			1	Start - Front Panel	
7	0		P1-22A	7	0		P1-11A
	1	Start - Rear Panel			1	Start - Rear Panel	

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Nozzle Changer

Address: 1045H, Location: CI01, Slot: PC2

PC BOARD: PCA, I/O CNTRL				MEMORY TYPE: VME A16/D8			
FUNCTION: FRONT NOZZLE CHANGER (FLEX JET)				NOTE: 1045			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		NOZ F INTF-5	0	0		NOZ F INTF-4
	1	NOZZLE CHANGER 1 CLOSED / VACUUM PRESENT (LF)			1	NOZZLE CHANGER 1 OPEN / VACUUM ENABLE (LF)	
1	0			1	0		NOZ F INTF-2
	1				1	NOZZLE CHANGER 1 UP / AIRKISS ENABLE (LF)	
2	0		NOZ F INTF-18	2	0		
	1	NOZZLE CHANGER 1 UP / VACUUM PRESENT (LF)			1		
3	0		NOZ F INTF-6	3	0		
	1	NOZZLE CHANGER 1 DOWN / VACUUM PRESENT (LF)			1		
4	0		NOZ F INTF-11	4	0		NOZ F INTF-20
	1	NOZZLE CHANGER 2 CLOSED / VACUUM PRESENT (RF)			1	NOZZLE CHANGER 2 OPEN / VACUUM ENABLE (RF)	
5	0			5	0		NOZ F INTF-8
	1				1	NOZZLE CHANGER 2 UP / AIRKISS ENABLE (RF)	
6	0		NOZ F INTF-24	6	0		
	1	NOZZLE CHANGER 2 UP / VACUUM PRESENT (RF)			1		
7	0		NOZ F INTF-12	7	0		
	1	NOZZLE CHANGER 2 DOWN / VACUUM PRESENT (RF)			1		

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Address: 1047H, Location: CI01, Slot: PC2

PC BOARD: PCA, I/O CNTRL				MEMORY TYPE: VME A16/D8			
FUNCTION: REAR NOZZLE CHANGER (FLEX JET)				NOTE: 1047			
BIT		**INPUT**	**CONN/PIN**	**BIT**		**OUTPUT**	**CONN/PIN**
0	0		NOZ F INTF-5	0	0		NOZ F INTF-14
	1	NOZZLE CHANGER 3 CLOSED / VACUUM PRESENT (RR)			1	NOZZLE CHANGER 3 OPEN / VACUUM ENABLE (RR)	
1	0			1	0		NOZ F INTF-2
	1				1	NOZZLE CHANGER 3 UP / AIRKISS ENABLE (RR)	
2	0		NOZ F INTF-18	2	0		
	1	NOZZLE CHANGER 3 UP / VACUUM PRESENT (RR)			1		
3	0		NOZ F INTF-6	3	0		
	1	NOZZLE CHANGER 3 DOWN / VACUUM PRESENT (RR)			1		
4	0		NOZ F INTF-11	4	0		NOZ F INTF-20
	1	NOZZLE CHANGER 4 CLOSED / VACUUM PRESENT (LR)			1	NOZZLE CHANGER 4 OPEN / VACUUM ENABLE (LR)	
5	0			5	0		NOZ F INTF-8
	1				1	NOZZLE CHANGER 4 UP / AIRKISS ENABLE (LR)	
6	0		NOZ F INTF-12	6	0		
	1	NOZZLE CHANGER 4 UP / VACUUM PRESENT (LR)			1		
7	0		NOZ F INTF-24	7	0		
	1	NOZZLE CHANGER 4 DOWN / VACUUM PRESENT (LR)			1		

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Address: 1045H, Location: CI01, Slot: PC2

PC BOARD: 16 I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: FRONT NOZZLE CHANGER				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P1-14C	0	0		P1-2C
	1	Mod1 Vacuum Present			1	Mod1 Nozzle 1&2 Vac	
1	0		P1-14A	1	0		P1-2A
	1				1	Mod1 Nozzle 3&4 Vac	
2	0		P1-15C	2	0		P1-3C
	1				1	Mod1 Nozzle 5, 6, 7 Vac	
3	0		P1-15A	3	0		P1-3A
	1	Mod1 Down			1	Mod1 Nozzles Up	
4	0		P1-16C	4	0		P1-4C
	1	Mod2 Vacuum Present			1	Mod2 Nozzle 1&2 Vac	
5	0		P1-16A	5	0		P1-4A
	1				1	Mod2 Nozzle 3&4 Vac	
6	0		P1-17C	6	0		P1-5C
	1				1	Mod2 Nozzle 5, 6, 7 Vac	
7	0		P1-17A	7	0		P1-5A
	1	Mod2 Down			1	Mod2 Nozzles Up	

Address: 1047H, Location: CI01, Slot: PC2

PC BOARD: 16 I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: REAR NOZZLE CHANGER				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P1-19C	0	0		P1-8C
	1	Mod3 Vacuum Present			1	Mod3 Nozzle 1&2 Vac	
1	0		P1-19A	1	0		P1-8A
	1				1	Mod3 Nozzle 3&4 Vac	
2	0		P1-20C	2	0		P1-9C
	1				1	Mod3 Nozzle 5, 6, 7 Vac	
3	0		P1-20A	3	0		P1-9A
	1	Mod3 Down			1	Mod3 Nozzles Up	
4	0		P1-21C	4	0		P1-10C
	1	Mod4 Vacuum Present			1	Mod4 Nozzle 1&2 Vac	
5	0		P1-21A	5	0		P1-10A
	1				1	Mod4 Nozzle 3&4 Vac	
6	0		P1-22C	6	0		P1-11C
	1				1	Mod4 Nozzle 5, 6, 7 Vac	
7	0		P1-22A	7	0		P1-11A
	1	Mod4 Down			1	Mod4 Nozzles Up	

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Flex Head

Address: 1049H, Location: CI01, Slot: PC3

PC BOARD: 16 I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: BEAM 1, FRT FLEX HEAD				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0	Z-Up Spindle 1	P1-14C	0	0		P1-2C
	1				1		
1	0	Z-Up Spindle 2	P1-14A	1	0		P1-2A
	1				1		
2	0	Z-Up Spindle 3	P1-15C	2	0		P1-3C
	1				1	Clutch Spindle 1	
3	0	Z-Up Spindle 4	P1-15A	3	0		P1-3A
	1				1	Clutch Spindle 2	
4	0		P1-16C	4	0		P1-4C
	1				1	Clutch Spindle 3	
5	0		P1-16A	5	0		P1-4A
	1				1	Clutch Spindle 4	
6	0		P1-17C	6	0		P1-5C
	1				1		
7	0		P1-17A	7	0		P1-5A
	1				1		

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Address: 104BH, Location: CI01, Slot: PC3

PC BOARD: 16 I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: BEAM 1, FRT FLEX HEAD				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P1-19C	0	0		P1-8C
	1				1	Airkiss Spindle 1	
1	0		P1-19A	1	0		P1-8A
	1				1	Airkiss Spindle 2	
2	0		P1-20C	2	0		P1-9C
	1				1	Airkiss Spindle 3	
3	0		P1-20A	3	0		P1-9A
	1				1	Airkiss Spindle 4	
4	0		P1-21C	4	0		P1-10C
	1				1	Vacuum Spindle 1	
5	0		P1-21A	5	0		P1-10A
	1				1	Vacuum Spindle 2	
6	0		P1-22C	6	0		P1-11C
	1				1	Vacuum Spindle 3	
7	0		P1-22A	7	0		P1-11A
	1				1	Vacuum Spindle 4	

Address: 104DH, Location: CI01, Slot: PC4

PC BOARD: 16 I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: BEAM 1, REAR FLEX HEAD				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0	Z-Up Spindle 1	P1-14C	0	0		P1-2C
	1				1		
1	0	Z-Up Spindle 2	P1-14A	1	0		P1-2A
	1				1		
2	0	Z-Up Spindle 3	P1-15C	2	0		P1-3C
	1				1	Clutch Spindle 1	
3	0	Z-Up Spindle 4	P1-15A	3	0		P1-3A
	1				1	Clutch Spindle 2	
4	0		P1-16C	4	0		P1-4C
	1				1	Clutch Spindle 3	
5	0		P1-16A	5	0		P1-4A
	1				1	Clutch Spindle 4	
6	0		P1-17C	6	0		P1-5C
	1				1		
7	0		P1-17A	7	0		P1-5A
	1				1		

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Address: 104FH, Location: CI01, Slot: PC4

PC BOARD: 16 I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: BEAM 1, REAR FLEX HEAD				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P1-19C	0	0		P1-8C
	1				1	Airkiss Spindle 1	
1	0		P1-19A	1	0		P1-8A
	1				1	Airkiss Spindle 2	
2	0		P1-20C	2	0		P1-9C
	1				1	Airkiss Spindle 3	
3	0		P1-20A	3	0		P1-9A
	1				1	Airkiss Spindle 4	
4	0		P1-21C	4	0		P1-10C
	1				1	Vacuum Spindle 1	
5	0		P1-21A	5	0		P1-10A
	1				1	Vacuum Spindle 2	
6	0		P1-22C	6	0		P1-11C
	1				1	Vacuum Spindle 3	
7	0		P1-22A	7	0		P1-11A
	1				1	Vacuum Spindle 4	

Address: 1059H, Location: CI02, Slot: PC3

PC BOARD: 16 I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: BEAM 2, REAR FLEX HEAD				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0	Z-Up Spindle 1	P1-14C	0	0		
	1				1		
1	0	Z-Up Spindle 2	P1-14A	1	0		
	1				1		
2	0	Z-Up Spindle 3	P1-15C	2	0		P1-3C
	1				1	Clutch Spindle 1	
3	0	Z-Up Spindle 4	P1-15A	3	0		P1-3A
	1				1	Clutch Spindle 2	
4	0		P1-16C	4	0		P1-4C
	1				1	Clutch Spindle 3	
5	0		P1-16A	5	0		P1-4A
	1				1	Clutch Spindle 4	
6	0		P1-17C	6	0		
	1				1		
7	0		P1-17A	7	0		P1-5A
	1				1		

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Address: 105BH, Location: CI02, Slot: PC3

PC BOARD: 16 I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: BEAM 2, REAR FLEX HEAD				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P1-19C	0	0		P1-8C
	1				1	Airkiss Spindle 1	
1	0		P1-19A	1	0		P1-8A
	1				1	Airkiss Spindle 2	
2	0		P1-20C	2	0		P1-9C
	1				1	Airkiss Spindle 3	
3	0		P1-20A	3	0		P1-9A
	1				1	Airkiss Spindle 4	
4	0		P1-21C	4	0		P1-10C
	1				1	Vacuum Spindle 1	
5	0		P1-21A	5	0		P1-10A
	1				1	Vacuum Spindle 2	
6	0		P1-22C	6	0		P1-11C
	1				1	Vacuum Spindle 3	
7	0		P1-22A	7	0		P1-11A
	1				1	Vacuum Spindle 4	

Adhesive Head

Address: 1049H, Location: CI01, Slot: PC3

PC BOARD: 16 I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: BEAM 1, FRT ADH ADHESIVE HEAD				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0	Z-Up	P1-14C	0	0		P1-2C
	1				1		
1	0		P1-14A	1	0		P1-2A
	1				1		
2	0		P1-15C	2	0		P1-3C
	1				1	Clutch Spindle 1	
3	0		P1-15A	3	0		P1-3A
	1				1	Clutch Spindle 2	
4	0	Low Adhesive 1	P1-16C	4	0		P1-4C
	1				1	Clutch Spindle 3	
5	0	Low Adhesive 2	P1-16A	5	0		P1-4A
	1				1	Clutch Spindle 4	
6	0	Low Adhesive 3	P1-17C	6	0		P1-5C
	1				1		
7	0	Low Adhesive 4	P1-17A	7	0		P1-5A
	1				1		

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Address: 104BH, Location: CI01, Slot: PC3

PC BOARD: 16 I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: BEAM 1, FRT ADH ADHESIVE HEAD				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P1-19C	0	0		P1-8C
	1				1	Syringe Pressure 1	
1	0		P1-19A	1	0		P1-8A
	1				1	Syringe Pressure 2	
2	0		P1-20C	2	0		P1-9C
	1				1	Syringe Pressure 3	
3	0		P1-20A	3	0		P1-9A
	1				1	Syringe Pressure 4	
4	0		P1-21C	4	0		P1-10C
	1				1	Dispense 1	
5	0		P1-21A	5	0		P1-10A
	1				1	Dispense 2	
6	0		P1-22C	6	0		P1-11C
	1				1	Dispense 3	
7	0		P1-22A	7	0		P1-11A
	1				1	Dispense 4	

Address: 104DH, Location: CI01, Slot: PC4

PC BOARD: 16 I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: BEAM 1, REAR ADH ADHESIVE HEAD				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0	Z-Up	P1-14C	0	0		P1-2C
	1				1		
1	0		P1-14A	1	0		P1-2A
	1				1		
2	0		P1-15C	2	0		P1-3C
	1				1	Clutch Spindle 1	
3	0		P1-15A	3	0		P1-3A
	1				1	Clutch Spindle 2	
4	0	Low Adhesive 1	P1-16C	4	0		P1-4C
	1				1	Clutch Spindle 3	
5	0	Low Adhesive 2	P1-16A	5	0		P1-4A
	1				1	Clutch Spindle 4	
6	0	Low Adhesive 3	P1-17C	6	0		P1-5C
	1				1		
7	0	Low Adhesive 4	P1-17A	7	0		P1-5A
	1				1		

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Address: 104FH, Location: CI01, Slot: PC4

PC BOARD: 16 I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: BEAM 1, REAR ADH ADHESIVE HEAD				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P1-19C	0	0		P1-8C
	1				1	Syringe Pressure 1	
1	0		P1-19A	1	0		P1-8A
	1				1	Syringe Pressure 2	
2	0		P1-20C	2	0		P1-9C
	1				1	Syringe Pressure 3	
3	0		P1-20A	3	0		P1-9A
	1				1	Syringe Pressure 4	
4	0		P1-21C	4	0		P1-10C
	1				1	Dispense 1	
5	0		P1-21A	5	0		P1-10A
	1				1	Dispense 2	
6	0		P1-22C	6	0		P1-11C
	1				1	Dispense 3	
7	0		P1-22A	7	0		P1-11A
	1				1	Dispense 4	

Address: 1059H, Location: CI02, Slot: PC3

PC BOARD: 16 I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: BEAM 2, REAR ADH ADHESIVE HEAD				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0	Z-Up	P1-14C	0	0		P1-2C
	1				1		
1	0		P1-14A	1	0		P1-2A
	1				1		
2	0		P1-15C	2	0		P1-3C
	1				1	Clutch Spindle 1	
3	0		P1-15A	3	0		P1-3A
	1				1	Clutch Spindle 2	
4	0	Low Adhesive 1	P1-16C	4	0		P1-4C
	1				1	Clutch Spindle 3	
5	0	Low Adhesive 2	P1-16A	5	0		P1-4A
	1				1	Clutch Spindle 4	
6	0	Low Adhesive 3	P1-17C	6	0		P1-5C
	1				1		
7	0	Low Adhesive 4	P1-17A	7	0		P1-5A
	1				1		

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Address: 105BH, Location: CI02, Slot: PC3

PC BOARD: 16 I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: BEAM 2, REAR ADH ADHESIVE HEAD				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P1-19C	0	0		P1-8C
	1				1	Syringe Pressure 1	
1	0		P1-19A	1	0		P1-8A
	1				1	Syringe Pressure 2	
2	0		P1-20C	2	0		P1-9C
	1				1	Syringe Pressure 3	
3	0		P1-20A	3	0		P1-9A
	1				1	Syringe Pressure 4	
4	0		P1-21C	4	0		P1-10C
	1				1	Dispense 1	
5	0		P1-21A	5	0		P1-10A
	1				1	Dispense 2	
6	0		P1-22C	6	0		P1-11C
	1				1	Dispense 3	
7	0		P1-22A	7	0		P1-11A
	1				1	Dispense 4	

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AMV1 Adhesive Head

Address: 1049H, Location: CI01, Slot: PC3

PC BOARD: 16 I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: BEAM 1, FRT AMV1 ADHESIVE HEAD				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0	Z-Up	P1-14C	0	0		P1-2C
	1				1	Pump 1 Spare Out	
1	0		P1-14A	1	0		P1-2A
	1				1	Pump 2 Spare Out	
2	0		P1-15C	2	0		P1-3C
	1				1	Clutch Spindle 1	
3	0		P1-15A	3	0		P1-3A
	1				1	Clutch Spindle 2	
4	0	Low Adhesive 1	P1-16C	4	0		P1-4C
	1				1	Clutch Spindle 3	
5	0	Low Adhesive 2	P1-16A	5	0		P1-4A
	1				1	Clutch Spindle 4	
6	0	Low Adhesive 3	P1-17C	6	0		P1-5C
	1				1	Pump 3 Spare Out	
7	0	Low Adhesive 4	P1-17A	7	0		P1-5A
	1				1	Pump 4 Spare Out	

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Address: 104BH, Location: CI01, Slot: PC3

PC BOARD: 16 I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: BEAM 1, FRT AMV1 ADHESIVE HEAD				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P1-19C	0	0		P1-8C
	1	Pump 1 Spare In			1	Syringe Pressure 1	
1	0		P1-19A	1	0		P1-8A
	1	Pump 2 Spare In			1	Syringe Pressure 2	
2	0		P1-20C	2	0		P1-9C
	1	Pump 3 Spare In			1	Syringe Pressure 3	
3	0		P1-20A	3	0		P1-9A
	1	Pump 4 Spare In			1	Syringe Pressure 4	
4	0		P1-21C	4	0	Pump Select 0	P1-10C
	1				1		
5	0		P1-21A	5	0	Pump Select 1	P1-10A
	1				1		
6	0		P1-22C	6	0		P1-11C
	1				1		
7	0		P1-22A	7	0		P1-11A
	1				1		

Address: 104DH, Location: CI01, Slot: PC4

PC BOARD: 16 I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: BEAM 1, REAR AMV1 ADHESIVE HEAD				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0	Z-Up	P1-14C	0	0		P1-2C
	1				1	Pump 1 Spare Out	
1	0		P1-14A	1	0		P1-2A
	1				1	Pump 2 Spare Out	
2	0		P1-15C	2	0		P1-3C
	1				1	Clutch Spindle 1	
3	0		P1-15A	3	0		P1-3A
	1				1	Clutch Spindle 2	
4	0	Low Adhesive 1	P1-16C	4	0		P1-4C
	1				1	Clutch Spindle 3	
5	0	Low Adhesive 2	P1-16A	5	0		P1-4A
	1				1	Clutch Spindle 4	
6	0	Low Adhesive 3	P1-17C	6	0		P1-5C
	1				1	Pump 3 Spare Out	
7	0	Low Adhesive 4	P1-17A	7	0		P1-5A
	1				1	Pump 4 Spare Out	

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Address: 104FH, Location: CI01, Slot: PC4

PC BOARD: 16 I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: BEAM 1, REAR AMV1 ADHESIVE HEAD				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P1-19C	0	0		P1-8C
	1	Pump 1 Spare In			1	Syringe Pressure 1	
1	0		P1-19A	1	0		P1-8A
	1	Pump 2 Spare In			1	Syringe Pressure 2	
2	0		P1-20C	2	0		P1-9C
	1	Pump 3 Spare In			1	Syringe Pressure 3	
3	0		P1-20A	3	0		P1-9A
	1	Pump 4 Spare In			1	Syringe Pressure 4	
4	0		P1-21C	4	0	Pump Select 0	P1-10C
	1				1		
5	0		P1-21A	5	0	Pump Select 1	P1-10A
	1				1		
6	0		P1-22C	6	0		P1-11C
	1				1		
7	0		P1-22A	7	0		P1-11A
	1				1		

Address: 1059H, Location: CI02, Slot: PC3

PC BOARD: 16 I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: BEAM 2, REAR AMV1 ADHESIVE HEAD				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0	Z-Up	P1-14C	0	0		P1-2C
	1				1	Pump 1 Spare Out	
1	0		P1-14A	1	0		P1-2A
	1				1	Pump 2 Spare Out	
2	0		P1-15C	2	0		P1-3C
	1				1	Clutch Spindle 1	
3	0		P1-15A	3	0		P1-3A
	1				1	Clutch Spindle 2	
4	0	Low Adhesive 1	P1-16C	4	0		P1-4C
	1				1	Clutch Spindle 3	
5	0	Low Adhesive 2	P1-16A	5	0		P1-4A
	1				1	Clutch Spindle 4	
6	0	Low Adhesive 3	P1-17C	6	0		P1-5C
	1				1	Pump 3 Spare Out	
7	0	Low Adhesive 4	P1-17A	7	0		P1-5A
	1				1	Pump 4 Spare Out	

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Address: 105BH, Location: CI02, Slot: PC3

PC BOARD: 16 I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: BEAM 2, REAR AMV1 ADHESIVE HEAD				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P1-19C	0	0		P1-8C
	1	Pump 1 Spare In			1	Syringe Pressure 1	
1	0		P1-19A	1	0		P1-8A
	1	Pump 2 Spare In			1	Syringe Pressure 2	
2	0		P1-20C	2	0		P1-9C
	1	Pump 3 Spare In			1	Syringe Pressure 3	
3	0		P1-20A	3	0		P1-9A
	1	Pump 4 Spare In			1	Syringe Pressure 4	
4	0		P1-21C	4	0	Pump Select 0	P1-10C
	1				1		
5	0		P1-21A	5	0	Pump Select 1	P1-10A
	1				1		
6	0		P1-22C	6	0		P1-11C
	1				1		
7	0		P1-22A	7	0		P1-11A
	1				1		

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Chip Head

Address: 1049H, Location: CI01, Slot: PC3

PC BOARD: 16 I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: BEAM 1, FRT CHIP HEAD				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0	Z-Up Spindle 1	P1-14C	0	0		P1-2C
	1				1		
1	0	Z-Up Spindle 2	P1-14A	1	0		P1-2A
	1				1		
2	0	Z-Up Spindle 3	P1-15C	2	0		P1-3C
	1				1	Clutch Spindle 1	
3	0	Z-Up Spindle 4	P1-15A	3	0		P1-3A
	1				1	Clutch Spindle 2	
4	0	Part Sense Spindle 1	P1-16C	4	0		P1-4C
	1	(Chip Head)			1	Clutch Spindle 3	
5	0	Part Sense Spindle 2	P1-16A	5	0		P1-4A
	1	(Chip Head)			1	Clutch Spindle 4	
6	0	Part Sense Spindle 3	P1-17C	6	0		P1-5C
	1	(Chip Head)			1		
7	0	Part Sense Spindle 4	P1-17A	7	0		P1-5A
	1	(Chip Head)			1	Chip Head Center	

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Address: 104BH, Location: CI01, Slot: PC3

PC BOARD: 16 I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: BEAM 1, FRT CHIP HEAD				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P1-19C	0	0		P1-8C
	1				1	Airkiss Spindle 1	
1	0		P1-19A	1	0		P1-8A
	1				1	Airkiss Spindle 2	
2	0		P1-20C	2	0		P1-9C
	1				1	Airkiss Spindle 3	
3	0		P1-20A	3	0		P1-9A
	1				1	Airkiss Spindle 4	
4	0		P1-21C	4	0		P1-10C
	1				1	Vacuum Spindle 1	
5	0		P1-21A	5	0		P1-10A
	1				1	Vacuum Spindle 2	
6	0		P1-22C	6	0		P1-11C
	1				1	Vacuum Spindle 3	
7	0		P1-22A	7	0		P1-11A
	1				1	Vacuum Spindle 4	

Address: 104DH, Location: CI01, Slot: PC4

PC BOARD: 16 I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: BEAM 1, REAR CHIP HEAD				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0	Z-Up Spindle 1	P1-14C	0	0		P1-2C
	1				1		
1	0	Z-Up Spindle 2	P1-14A	1	0		P1-2A
	1				1		
2	0	Z-Up Spindle 3	P1-15C	2	0		P1-3C
	1				1	Clutch Spindle 1	
3	0	Z-Up Spindle 4	P1-15A	3	0		P1-3A
	1				1	Clutch Spindle 2	
4	0	Part Sense Spindle 1	P1-16C	4	0		P1-4C
	1	(Chip Head)			1	Clutch Spindle 3	
5	0	Part Sense Spindle 2	P1-16A	5	0		P1-4A
	1	(Chip Head)			1	Clutch Spindle 4	
6	0	Part Sense Spindle 3	P1-17C	6	0		P1-5C
	1	(Chip Head)			1		
7	0	Part Sense Spindle 4	P1-17A	7	0		P1-5A
	1	(Chip Head)			1	Chip Head Center	

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Address: 104FH, Location: CI01, Slot: PC4

PC BOARD: 16 I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: BEAM 1, REAR CHIP HEAD				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P1-19C	0	0		P1-8C
	1				1	Airkiss Spindle 1	
1	0		P1-19A	1	0		P1-8A
	1				1	Airkiss Spindle 2	
2	0		P1-20C	2	0		P1-9C
	1				1	Airkiss Spindle 3	
3	0		P1-20A	3	0		P1-9A
	1				1	Airkiss Spindle 4	
4	0		P1-21C	4	0		P1-10C
	1				1	Vacuum Spindle 1	
5	0		P1-21A	5	0		P1-10A
	1				1	Vacuum Spindle 2	
6	0		P1-22C	6	0		P1-11C
	1				1	Vacuum Spindle 3	
7	0		P1-22A	7	0		P1-11A
	1				1	Vacuum Spindle 4	

Address: 1059H, Location: CI02, Slot: PC3

PC BOARD: 16 I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: BEAM 2, REAR CHIP HEAD				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0	Z-Up Spindle 1	P1-14C	0	0		
	1				1		
1	0	Z-Up Spindle 2	P1-14A	1	0		
	1				1		
2	0	Z-Up Spindle 3	P1-15C	2	0		P1-3C
	1				1	Clutch Spindle 1	
3	0	Z-Up Spindle 4	P1-15A	3	0		P1-3A
	1				1	Clutch Spindle 2	
4	0	Part Sense Spindle 1	P1-16C	4	0		P1-4C
	1	(Chip Head)			1	Clutch Spindle 3	
5	0	Part Sense Spindle 2	P1-16A	5	0		P1-4A
	1	(Chip Head)			1	Clutch Spindle 4	
6	0	Part Sense Spindle 3	P1-17C	6	0		
	1	(Chip Head)			1		
7	0	Part Sense Spindle 4	P1-17A	7	0		P1-5A
	1	(Chip Head)			1	Chip Head Center	

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Address: 105BH, Location: CI02, Slot: PC3

PC BOARD: 16 I/O				MEMORY TYPE: VME A16/D8			
FUNCTION: BEAM 2, REAR CHIP HEAD				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P1-19C	0	0		P1-8C
	1				1	Airkiss Spindle 1	
1	0		P1-19A	1	0		P1-8A
	1				1	Airkiss Spindle 2	
2	0		P1-20C	2	0		P1-9C
	1				1	Airkiss Spindle 3	
3	0		P1-20A	3	0		P1-9A
	1				1	Airkiss Spindle 4	
4	0		P1-21C	4	0		P1-10C
	1				1	Vacuum Spindle 1	
5	0		P1-21A	5	0		P1-10A
	1				1	Vacuum Spindle 2	
6	0		P1-22C	6	0		P1-11C
	1				1	Vacuum Spindle 3	
7	0		P1-22A	7	0		P1-11A
	1				1	Vacuum Spindle 4	

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FlexJet

Address: 10C1, Location: Beam 1, FRT FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 1, FRT FLEXJET Head				NOTE: Misc. Inputs/Outputs			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P13-3	0	0		
	1	Z-Safe			1		
1	0		P14-3	1	0		
	1	Z-Home			1		
2	0		P15-3	2	0		
	1	Mirror Clear			1	Lighting Strobe Armed	
3	0		P16-3	3	0		
	1	Mirror In Range			1	LT Counter Clear	
4	0			4	0		
	1	LT Strobe Complete			1	7CCD Video Select	
5	0			5	0		
	1	FJ 09 Head Initialize			1		
6	0			6	0		
	1				1	Air Seq Reset	
7	0			7	0		
	1				1	Master Reset	

Address: 10C3, Location: Beam 1, FRT FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 1, FRT FLEXJET Head				NOTE:Touchdown Sensors/ Lighting Control			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0	Spindle 1 Touchdown Sensor	P18-3	0	0		
	1				1		
1	0	Spindle 2 Touchdown Sensor	P19-3	1	0		
	1				1	Front LTG Selected	
2	0	Spindle 3 Touchdown Sensor	P20-3	2	0		
	1				1	Side LTG Selected	
3	0	Spindle 4 Touchdown Sensor	P21-3	3	0		
	1				1	On Axis LTG Selected	
4	0	Spindle 5 Touchdown Sensor	P22-3	4	0		
	1				1	LTG Flash Enable	
5	0	Spindle 6 Touchdown Sensor	P23-3	5	0		
	1				1	LTG Spindle Select 0	
6	0	Spindle 7 Touchdown Sensor	P24-3	6	0		
	1				1	LTG Spindle Select 1	
7	0			7	0		
	1				1	LTG Spindle Select 2	

Address: 10C5, Location: Beam 1, FRT FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 1, FRT FLEXJET Head				NOTE: Light Level Data			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1				1	Light Level 0	
1	0			1	0		
	1				1	Light Level 1	
2	0			2	0		
	1				1	Light Level 2	
3	0			3	0		
	1				1	Light Level 3	
4	0			4	0		
	1				1	Light Level 4	
5	0			5	0		
	1				1	Light Level 5	
6	0			6	0		
	1				1	Light Level 6	
7	0			7	0		
	1				1	Light Level 7	

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Address: 10C7, Location: Beam 1, FRT FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 1, FRT FLEXJET Head				NOTE: Clutch Control			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		P3-1
	1				1	Spindle 1 Clutch	
1	0			1	0		P4-1
	1				1	Spindle 2 Clutch	
2	0			2	0		P5-1
	1				1	Spindle 3 Clutch	
3	0			3	0		P6-1
	1				1	Spindle 4 Clutch	
4	0			4	0		P7-1
	1				1	Spindle 5 Clutch	
5	0			5	0		P8-1
	1				1	Spindle 6 Clutch	
6	0			6	0		P9-1
	1				1	Spindle 7 Clutch	
7	0			7	0		P10-1
	1				1	Z-Stop Clutch	

Address: 10C9, Location: Beam 1, FRT FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 1, FRT FLEXJET Head				NOTE: AirKiss Valve Control			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		P17-1
	1				1	Spindle 1 AirKiss	
1	0			1	0		P17-3
	1				1	Spindle 2 AirKiss	
2	0			2	0		P17-5
	1				1	Spindle 3 AirKiss	
3	0			3	0		P17-7
	1				1	Spindle 4 AirKiss	
4	0			4	0		P17-9
	1				1	Spindle 5 AirKiss	
5	0			5	0		P17-11
	1				1	Spindle 6 AirKiss	
6	0			6	0		P17-13
	1				1	Spindle 7 AirKiss	
7	0			7	0		
	1				1		

Address: 10CB, Location: Beam 1, FRT FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 1, FRT FLEXJET Head				NOTE: Vacuum Valve Control			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		P25-1
	1				1	Spindle 1 Vacuum	
1	0			1	0		P25-3
	1				1	Spindle 2 Vacuum	
2	0			2	0		P25-5
	1				1	Spindle 3 Vacuum	
3	0			3	0		P25-7
	1				1	Spindle 4 Vacuum	
4	0			4	0		P25-9
	1				1	Spindle 5 Vacuum	
5	0			5	0		P25-11
	1				1	Spindle 6 Vacuum	
6	0			6	0		P25-13
	1				1	Spindle 7 Vacuum	
7	0			7	0		P25-15
	1				1	Main Vacuum Control	

Address: 10CD, Location: Beam 1, FRT FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 1, FRT FLEXJET Head				NOTE: AirKiss Delay After			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1				1	Delay Data 0	
1	0			1	0		
	1				1	Delay Data 1	
2	0			2	0		
	1				1	Delay Data 2	
3	0			3	0		
	1				1	Delay Data 3	
4	0			4	0		
	1				1	Delay Data 4	
5	0			5	0		
	1				1	Delay Data 5	
6	0			6	0		
	1				1	Delay Data 6	
7	0			7	0		
	1				1	Delay Data 7	

Address: 10CF, Location: Beam 1, FRT FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 1, FRT FLEXJET Head				NOTE: VAC/AirKiss Sequence Spindle Select			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1				1	Sequence Spindle 0	
1	0			1	0		
	1				1	Sequence Spindle 1	
2	0			2	0		
	1				1	Sequence Spindle 2	
3	0			3	0		
	1				1		
4	0			4	0		
	1				1		
5	0			5	0		
	1				1		
6	0			6	0		
	1				1		
7	0			7	0		
	1				1		

Address: 10D1, Location: Beam 1, FRT FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 1, FRT FLEXJET Head				NOTE: Z Stop Counter			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1	Z Stop Counter High Byte 0			1	Z Stop Counter Clear Latch	
1	0			1	0		
	1	Z Stop Counter High Byte 1			1		
2	0			2	0		
	1	Z Stop Counter High Byte 2			1		
3	0			3	0		
	1	Z Stop Counter High Byte 3			1		
4	0			4	0		
	1	Z Stop Counter High Byte 4			1		
5	0			5	0		
	1	Z Stop Counter High Byte 5			1		
6	0			6	0		
	1	Z Stop Counter High Byte 6			1		
7	0			7	0		
	1	Z Stop Counter High Byte 7			1		

Address: 10D3, Location: Beam 1, FRT FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 1, FRT FLEXJET Head				NOTE: Z Stop Counter			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1	Z Stop Counter Low Byte 0			1	Z Stop Counter Clear	
1	0			1	0		
	1	Z Stop Counter Low Byte 1			1		
2	0			2	0		
	1	Z Stop Counter Low Byte 2			1		
3	0			3	0		
	1	Z Stop Counter Low Byte 3			1		
4	0			4	0		
	1	Z Stop Counter Low Byte 4			1		
5	0			5	0		
	1	Z Stop Counter Low Byte 5			1		
6	0			6	0		
	1	Z Stop Counter Low Byte 6			1		
7	0			7	0		
	1	Z Stop Counter Low Byte 7			1		

Address: 10D5, Location: Beam 1, FRT FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 1, FRT FLEXJET Head				NOTE: Misc. Outputs			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		P12-1
	1				1	Mirror Clutch	
1	0			1	0		P11-1
	1				1	Z - Stop Brake	
2	0			2	0		
	1				1		
3	0			3	0		
	1				1		
4	0			4	0		
	1				1		
5	0			5	0		
	1				1		
6	0			6	0		
	1				1		
7	0			7	0		
	1				1		

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Address: 10D7, Location: Beam 1, FRT FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 1, FRT FLEXJET Head				NOTE: FlexJet Control PROM ID			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1	Control PROM P/N Byte 3-0			1		
1	0			1	0		
	1	Control PROM P/N Byte 3-1			1		
2	0			2	0		
	1	Control PROM P/N Byte 3-2			1		
3	0			3	0		
	1	Control PROM P/N Byte 3-3			1		
4	0			4	0		
	1	Control PROM P/N Byte 3-4			1		
5	0			5	0		
	1	Control PROM P/N Byte 3-5			1		
6	0			6	0		
	1	Control PROM P/N Byte 3-6			1		
7	0			7	0		
	1	Control PROM P/N Byte 3-7			1		

Address: 10D9, Location: Beam 1, FRT FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 1, FRT FLEXJET Head				NOTE: FlexJet Control PROM ID			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1	Control PROM P/N Byte 2-0			1		
1	0			1	0		
	1	Control PROM P/N Byte 2-1			1		
2	0			2	0		
	1	Control PROM P/N Byte 2-2			1		
3	0			3	0		
	1	Control PROM P/N Byte 2-3			1		
4	0			4	0		
	1	Control PROM P/N Byte 2-4			1		
5	0			5	0		
	1	Control PROM P/N Byte 2-5			1		
6	0			6	0		
	1	Control PROM P/N Byte 2-6			1		
7	0			7	0		
	1	Control PROM P/N Byte 2-7			1		

Address: 10DB, Location: Beam 1, FRT FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 1, FRT FLEXJET Head				NOTE: FlexJet Control PROM ID			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1	Control PROM P/N Byte 1-0			1		
1	0			1	0		
	1	Control PROM P/N Byte 1-1			1		
2	0			2	0		
	1	Control PROM P/N Byte 1-2			1		
3	0			3	0		
	1	Control PROM P/N Byte 1-3			1		
4	0			4	0		
	1	Control PROM P/N Byte 1-4			1		
5	0			5	0		
	1	Control PROM P/N Byte 1-5			1		
6	0			6	0		
	1	Control PROM P/N Byte 1-6			1		
7	0			7	0		
	1	Control PROM P/N Byte 1-7			1		

Address: 10DD, Location: Beam 1, FRT FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 1, FRT FLEXJET Head				NOTE: FlexJet Control PROM ID/Mirror Delay			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1	Control PROM P/N Byte 0-0			1	Mirror In Position Delay 0	
1	0			1	0		
	1	Control PROM P/N Byte 0-1			1	Mirror In Position Delay 1	
2	0			2	0		
	1	Control PROM P/N Byte 0-2			1	Mirror In Position Delay 2	
3	0			3	0		
	1	Control PROM P/N Byte 0-3			1	Mirror In Position Delay 3	
4	0			4	0		
	1	Control PROM P/N Byte 0-4			1	Mirror In Position Delay 4	
5	0			5	0		
	1	Control PROM P/N Byte 0-5			1	Mirror In Position Delay 5	
6	0			6	0		
	1	Control PROM P/N Byte 0-6			1	Mirror In Position Delay 6	
7	0			7	0		
	1	Control PROM P/N Byte 0-7			1	Mirror In Position Delay 7	

Address: 10DF, Location: Beam 1, FRT FlexJet Head, PC1

PC BOARD: FLEXJET Control			MEMORY TYPE: VME A16/D8		
FUNCTION: Beam 1, FRT FLEXJET Head			NOTE: Closed Loop I/O Test		
BIT	INPUT	CONN/PIN	BIT	OUTPUT	CONN/PIN
0	Reads Diagnostic Byte		0	Writes Diagnostic Byte	
1			1		
2			2		
3			3		
4			4		
5			5		
6			6		
7			7		

Address: 1181, Location: Beam 1, Rear FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 1, Rear FLEXJET Head				NOTE: Misc. Inputs/Outputs			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P13-3	0	0		
	1	Z-Safe			1		
1	0		P14-3	1	0		
	1	Z-Home			1		
2	0		P15-3	2	0		
	1	Mirror Clear			1	Lighting Strobe Armed	
3	0		P16-3	3	0		
	1	Mirror In Range			1	LT Counter Clear	
4	0			4	0		
	1	LT Strobe Complete			1	7CCD Video Select	
5	0			5	0		
	1	FJ 09 Head Initialize			1		
6	0			6	0		
	1				1	Air Seq Reset	
7	0			7	0		
	1				1	Master Reset	

Address: 1183, Location: Beam 1, Rear FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 1, Rear FLEXJET Head				NOTE:Touchdown Sensors/ Lighting Control			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0	Spindle 1 Touchdown Sensor	P18-3	0	0		
	1				1		
1	0	Spindle 2 Touchdown Sensor	P19-3	1	0		
	1				1	Front LTG Selected	
2	0	Spindle 3 Touchdown Sensor	P20-3	2	0		
	1				1	Side LTG Selected	
3	0	Spindle 4 Touchdown Sensor	P21-3	3	0		
	1				1	On Axis LTG Selected	
4	0	Spindle 5 Touchdown Sensor	P22-3	4	0		
	1				1	LTG Flash Enable	
5	0	Spindle 6 Touchdown Sensor	P23-3	5	0		
	1				1	LTG Spindle Select 0	
6	0	Spindle 7 Touchdown Sensor	P24-3	6	0		
	1				1	LTG Spindle Select 1	
7	0			7	0		
	1				1	LTG Spindle Select 2	

Address: 1185, Location: Beam 1, Rear FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 1, Rear FLEXJET Head				NOTE: Light Level Data			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1				1	Light Level 0	
1	0			1	0		
	1				1	Light Level 1	
2	0			2	0		
	1				1	Light Level 2	
3	0			3	0		
	1				1	Light Level 3	
4	0			4	0		
	1				1	Light Level 4	
5	0			5	0		
	1				1	Light Level 5	
6	0			6	0		
	1				1	Light Level 6	
7	0			7	0		
	1				1	Light Level 7	

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Address: 1187, Location: Beam 1, Rear FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 1, Rear FLEXJET Head				NOTE: Clutch Control			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		P3-1
	1				1	Spindle 1 Clutch	
1	0			1	0		P4-1
	1				1	Spindle 2 Clutch	
2	0			2	0		P5-1
	1				1	Spindle 3 Clutch	
3	0			3	0		P6-1
	1				1	Spindle 4 Clutch	
4	0			4	0		P7-1
	1				1	Spindle 5 Clutch	
5	0			5	0		P8-1
	1				1	Spindle 6 Clutch	
6	0			6	0		P9-1
	1				1	Spindle 7 Clutch	
7	0			7	0		P10-1
	1				1	Z-Stop Clutch	

Address: 1189, Location: Beam 1, Rear FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 1, Rear FLEXJET Head				NOTE: AirKiss Valve Control			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		P17-1
	1				1	Spindle 1 AirKiss	
1	0			1	0		P17-3
	1				1	Spindle 2 AirKiss	
2	0			2	0		P17-5
	1				1	Spindle 3 AirKiss	
3	0			3	0		P17-7
	1				1	Spindle 4 AirKiss	
4	0			4	0		P17-9
	1				1	Spindle 5 AirKiss	
5	0			5	0		P17-11
	1				1	Spindle 6 AirKiss	
6	0			6	0		P17-13
	1				1	Spindle 7 AirKiss	
7	0			7	0		
	1				1		

Address: 118B, Location: Beam 1, Rear FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 1, Rear FLEXJET Head				NOTE: Vacuum Valve Control			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		P25-1
	1				1	Spindle 1 Vacuum	
1	0			1	0		P25-3
	1				1	Spindle 2 Vacuum	
2	0			2	0		P25-5
	1				1	Spindle 3 Vacuum	
3	0			3	0		P25-7
	1				1	Spindle 4 Vacuum	
4	0			4	0		P25-9
	1				1	Spindle 5 Vacuum	
5	0			5	0		P25-11
	1				1	Spindle 6 Vacuum	
6	0			6	0		P25-13
	1				1	Spindle 7 Vacuum	
7	0			7	0		P25-15
	1				1	Main Vacuum Control	

Address: 118D, Location: Beam 1, Rear FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 1, Rear FLEXJET Head				NOTE: AirKiss Delay After			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1				1	Delay Data 0	
1	0			1	0		
	1				1	Delay Data 1	
2	0			2	0		
	1				1	Delay Data 2	
3	0			3	0		
	1				1	Delay Data 3	
4	0			4	0		
	1				1	Delay Data 4	
5	0			5	0		
	1				1	Delay Data 5	
6	0			6	0		
	1				1	Delay Data 6	
7	0			7	0		
	1				1	Delay Data 7	

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Address: 118F, Location: Beam 1, Rear FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 1, Rear FLEXJET Head				NOTE: VAC/AirKiss Sequence Spindle Select			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1				1	Sequence Spindle 0	
1	0			1	0		
	1				1	Sequence Spindle 1	
2	0			2	0		
	1				1	Sequence Spindle 2	
3	0			3	0		
	1				1		
4	0			4	0		
	1				1		
5	0			5	0		
	1				1		
6	0			6	0		
	1				1		
7	0			7	0		
	1				1		

Address: 1191, Location: Beam 1, Rear FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 1, Rear FLEXJET Head				NOTE: Z Stop Counter			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1	Z Stop Counter High Byte 0			1	Z Stop Counter Clear Latch	
1	0			1	0		
	1	Z Stop Counter High Byte 1			1		
2	0			2	0		
	1	Z Stop Counter High Byte 2			1		
3	0			3	0		
	1	Z Stop Counter High Byte 3			1		
4	0			4	0		
	1	Z Stop Counter High Byte 4			1		
5	0			5	0		
	1	Z Stop Counter High Byte 5			1		
6	0			6	0		
	1	Z Stop Counter High Byte 6			1		
7	0			7	0		
	1	Z Stop Counter High Byte 7			1		

Address: 1193, Location: Beam 1, Rear FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 1, Rear FLEXJET Head				NOTE: Z Stop Counter			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1	Z Stop Counter Low Byte 0			1	Z Stop Counter Clear	
1	0			1	0		
	1	Z Stop Counter Low Byte 1			1		
2	0			2	0		
	1	Z Stop Counter Low Byte 2			1		
3	0			3	0		
	1	Z Stop Counter Low Byte 3			1		
4	0			4	0		
	1	Z Stop Counter Low Byte 4			1		
5	0			5	0		
	1	Z Stop Counter Low Byte 5			1		
6	0			6	0		
	1	Z Stop Counter Low Byte 6			1		
7	0			7	0		
	1	Z Stop Counter Low Byte 7			1		

Address: 1195, Location: Beam 1, Rear FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 1, Rear FLEXJET Head				NOTE: Misc. Outputs			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		P12-1
	1				1	Mirror Clutch	
1	0			1	0		P11-1
	1				1	Z - Stop Brake	
2	0			2	0		
	1				1		
3	0			3	0		
	1				1		
4	0			4	0		
	1				1		
5	0			5	0		
	1				1		
6	0			6	0		
	1				1		
7	0			7	0		
	1				1		

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Address: 1197, Location: Beam 1, Rear FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 1, Rear FLEXJET Head				NOTE: FlexJet Control PROM ID			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1	Control PROM P/N Byte 3-0			1		
1	0			1	0		
	1	Control PROM P/N Byte 3-1			1		
2	0			2	0		
	1	Control PROM P/N Byte 3-2			1		
3	0			3	0		
	1	Control PROM P/N Byte 3-3			1		
4	0			4	0		
	1	Control PROM P/N Byte 3-4			1		
5	0			5	0		
	1	Control PROM P/N Byte 3-5			1		
6	0			6	0		
	1	Control PROM P/N Byte 3-6			1		
7	0			7	0		
	1	Control PROM P/N Byte 3-7			1		

Address: 1199, Location: Beam 1, Rear FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 1, Rear FLEXJET Head				NOTE: FlexJet Control PROM ID			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1	Control PROM P/N Byte 2-0			1		
1	0			1	0		
	1	Control PROM P/N Byte 2-1			1		
2	0			2	0		
	1	Control PROM P/N Byte 2-2			1		
3	0			3	0		
	1	Control PROM P/N Byte 2-3			1		
4	0			4	0		
	1	Control PROM P/N Byte 2-4			1		
5	0			5	0		
	1	Control PROM P/N Byte 2-5			1		
6	0			6	0		
	1	Control PROM P/N Byte 2-6			1		
7	0			7	0		
	1	Control PROM P/N Byte 2-7			1		

Address: 119B, Location: Beam 1, Rear FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 1, Rear FLEXJET Head				NOTE: FlexJet Control PROM ID			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1	Control PROM P/N Byte 1-0			1		
1	0			1	0		
	1	Control PROM P/N Byte 1-1			1		
2	0			2	0		
	1	Control PROM P/N Byte 1-2			1		
3	0			3	0		
	1	Control PROM P/N Byte 1-3			1		
4	0			4	0		
	1	Control PROM P/N Byte 1-4			1		
5	0			5	0		
	1	Control PROM P/N Byte 1-5			1		
6	0			6	0		
	1	Control PROM P/N Byte 1-6			1		
7	0			7	0		
	1	Control PROM P/N Byte 1-7			1		

Address: 119D, Location: Beam 1, Rear FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 1, Rear FLEXJET Head				NOTE: FlexJet Control PROM ID/Mirror Delay			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1	Control PROM P/N Byte 0-0			1	Mirror In Position Delay 0	
1	0			1	0		
	1	Control PROM P/N Byte 0-1			1	Mirror In Position Delay 1	
2	0			2	0		
	1	Control PROM P/N Byte 0-2			1	Mirror In Position Delay 2	
3	0			3	0		
	1	Control PROM P/N Byte 0-3			1	Mirror In Position Delay 3	
4	0			4	0		
	1	Control PROM P/N Byte 0-4			1	Mirror In Position Delay 4	
5	0			5	0		
	1	Control PROM P/N Byte 0-5			1	Mirror In Position Delay 5	
6	0			6	0		
	1	Control PROM P/N Byte 0-6			1	Mirror In Position Delay 6	
7	0			7	0		
	1	Control PROM P/N Byte 0-7			1	Mirror In Position Delay 7	

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Address: 119F, Location: Beam 1, Rear FlexJet Head, PC1

PC BOARD: FLEXJET Control			MEMORY TYPE: VME A16/D8		
FUNCTION: Beam 1, Rear FLEXJET Head			NOTE: Closed Loop I/O Test		
BIT	INPUT	CONN/PIN	BIT	OUTPUT	CONN/PIN
0	Reads Diagnostic Byte		0	Writes Diagnostic Byte	
1			1		
2			2		
3			3		
4			4		
5			5		
6			6		
7			7		

Address: 11C1, Location: Beam 2, Rear FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 2, Rear FLEXJET Head				NOTE: Misc. Inputs/Outputs			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P13-3	0	0		
	1	Z-Safe			1		
1	0		P14-3	1	0		
	1	Z-Home			1		
2	0		P15-3	2	0		
	1	Mirror Clear			1	Lighting Strobe Armed	
3	0		P16-3	3	0		
	1	Mirror In Range			1	LT Counter Clear	
4	0			4	0		
	1	LT Strobe Complete			1	7CCD Video Select	
5	0			5	0		
	1	FJ 09 Head Initialize			1		
6	0			6	0		
	1				1	Air Seq Reset	
7	0			7	0		
	1				1	Master Reset	

Address: 11C3, Location: Beam 2, Rear FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 2, Rear FLEXJET Head				NOTE:Touchdown Sensors/ Lighting Control			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0	Spindle 1 Touchdown Sensor	P18-3	0	0		
	1				1		
1	0	Spindle 2 Touchdown Sensor	P19-3	1	0		
	1				1	Front LTG Selected	
2	0	Spindle 3 Touchdown Sensor	P20-3	2	0		
	1				1	Side LTG Selected	
3	0	Spindle 4 Touchdown Sensor	P21-3	3	0		
	1				1	On Axis LTG Selected	
4	0	Spindle 5 Touchdown Sensor	P22-3	4	0		
	1				1	LTG Flash Enable	
5	0	Spindle 6 Touchdown Sensor	P23-3	5	0		
	1				1	LTG Spindle Select 0	
6	0	Spindle 7 Touchdown Sensor	P24-3	6	0		
	1				1	LTG Spindle Select 1	
7	0			7	0		
	1				1	LTG Spindle Select 2	

Address: 11C5, Location: Beam 2, Rear FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 2, Rear FLEXJET Head				NOTE: Light Level Data			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1				1	Light Level 0	
1	0			1	0		
	1				1	Light Level 1	
2	0			2	0		
	1				1	Light Level 2	
3	0			3	0		
	1				1	Light Level 3	
4	0			4	0		
	1				1	Light Level 4	
5	0			5	0		
	1				1	Light Level 5	
6	0			6	0		
	1				1	Light Level 6	
7	0			7	0		
	1				1	Light Level 7	

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Address: 11C7, Location: Beam 2, Rear FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 2, Rear FLEXJET Head				NOTE: Clutch Control			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		P3-1
	1				1	Spindle 1 Clutch	
1	0			1	0		P4-1
	1				1	Spindle 2 Clutch	
2	0			2	0		P5-1
	1				1	Spindle 3 Clutch	
3	0			3	0		P6-1
	1				1	Spindle 4 Clutch	
4	0			4	0		P7-1
	1				1	Spindle 5 Clutch	
5	0			5	0		P8-1
	1				1	Spindle 6 Clutch	
6	0			6	0		P9-1
	1				1	Spindle 7 Clutch	
7	0			7	0		P10-1
	1				1	Z-Stop Clutch	

Address: 11C9, Location: Beam 2, Rear FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 2, Rear FLEXJET Head				NOTE: AirKiss Valve Control			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		P17-1
	1				1	Spindle 1 AirKiss	
1	0			1	0		P17-3
	1				1	Spindle 2 AirKiss	
2	0			2	0		P17-5
	1				1	Spindle 3 AirKiss	
3	0			3	0		P17-7
	1				1	Spindle 4 AirKiss	
4	0			4	0		P17-9
	1				1	Spindle 5 AirKiss	
5	0			5	0		P17-11
	1				1	Spindle 6 AirKiss	
6	0			6	0		P17-13
	1				1	Spindle 7 AirKiss	
7	0			7	0		
	1				1		

Address: 11CB, Location: Beam 2, Rear FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 2, Rear FLEXJET Head				NOTE: Vacuum Valve Control			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		P25-1
	1				1	Spindle 1 Vacuum	
1	0			1	0		P25-3
	1				1	Spindle 2 Vacuum	
2	0			2	0		P25-5
	1				1	Spindle 3 Vacuum	
3	0			3	0		P25-7
	1				1	Spindle 4 Vacuum	
4	0			4	0		P25-9
	1				1	Spindle 5 Vacuum	
5	0			5	0		P25-11
	1				1	Spindle 6 Vacuum	
6	0			6	0		P25-13
	1				1	Spindle 7 Vacuum	
7	0			7	0		P25-15
	1				1	Main Vacuum Control	

Address: 11CD, Location: Beam 2, Rear FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 2, Rear FLEXJET Head				NOTE: AirKiss Delay After			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1				1	Delay Data 0	
1	0			1	0		
	1				1	Delay Data 1	
2	0			2	0		
	1				1	Delay Data 2	
3	0			3	0		
	1				1	Delay Data 3	
4	0			4	0		
	1				1	Delay Data 4	
5	0			5	0		
	1				1	Delay Data 5	
6	0			6	0		
	1				1	Delay Data 6	
7	0			7	0		
	1				1	Delay Data 7	

Address: 11CF, Location: Beam 2, Rear FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 2, Rear FLEXJET Head				NOTE: VAC/AirKiss Sequence Spindle Select			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1				1	Sequence Spindle 0	
1	0			1	0		
	1				1	Sequence Spindle 1	
2	0			2	0		
	1				1	Sequence Spindle 2	
3	0			3	0		
	1				1		
4	0			4	0		
	1				1		
5	0			5	0		
	1				1		
6	0			6	0		
	1				1		
7	0			7	0		
	1				1		

Address: 11D1, Location: Beam 2, Rear FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 2, Rear FLEXJET Head				NOTE: Z Stop Counter			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1	Z Stop Counter High Byte 0			1	Z Stop Counter Clear Latch	
1	0			1	0		
	1	Z Stop Counter High Byte 1			1		
2	0			2	0		
	1	Z Stop Counter High Byte 2			1		
3	0			3	0		
	1	Z Stop Counter High Byte 3			1		
4	0			4	0		
	1	Z Stop Counter High Byte 4			1		
5	0			5	0		
	1	Z Stop Counter High Byte 5			1		
6	0			6	0		
	1	Z Stop Counter High Byte 6			1		
7	0			7	0		
	1	Z Stop Counter High Byte 7			1		

Address: 11D3, Location: Beam 2, Rear FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 2, Rear FLEXJET Head				NOTE: Z Stop Counter			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1	Z Stop Counter Low Byte 0			1	Z Stop Counter Clear	
1	0			1	0		
	1	Z Stop Counter Low Byte 1			1		
2	0			2	0		
	1	Z Stop Counter Low Byte 2			1		
3	0			3	0		
	1	Z Stop Counter Low Byte 3			1		
4	0			4	0		
	1	Z Stop Counter Low Byte 4			1		
5	0			5	0		
	1	Z Stop Counter Low Byte 5			1		
6	0			6	0		
	1	Z Stop Counter Low Byte 6			1		
7	0			7	0		
	1	Z Stop Counter Low Byte 7			1		

Address: 11D5, Location: Beam 2, Rear FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 2, Rear FLEXJET Head				NOTE: Misc. Outputs			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		P12-1
	1				1	Mirror Clutch	
1	0			1	0		P11-1
	1				1	Z - Stop Brake	
2	0			2	0		
	1				1		
3	0			3	0		
	1				1		
4	0			4	0		
	1				1		
5	0			5	0		
	1				1		
6	0			6	0		
	1				1		
7	0			7	0		
	1				1		

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Address: 11D7, Location: Beam 2, Rear FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 2, Rear FLEXJET Head				NOTE: FlexJet Control PROM ID			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1	Control PROM P/N Byte 3-0			1		
1	0			1	0		
	1	Control PROM P/N Byte 3-1			1		
2	0			2	0		
	1	Control PROM P/N Byte 3-2			1		
3	0			3	0		
	1	Control PROM P/N Byte 3-3			1		
4	0			4	0		
	1	Control PROM P/N Byte 3-4			1		
5	0			5	0		
	1	Control PROM P/N Byte 3-5			1		
6	0			6	0		
	1	Control PROM P/N Byte 3-6			1		
7	0			7	0		
	1	Control PROM P/N Byte 3-7			1		

Address: 11D9, Location: Beam 2, Rear FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 2, Rear FLEXJET Head				NOTE: FlexJet Control PROM ID			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1	Control PROM P/N Byte 2-0			1		
1	0			1	0		
	1	Control PROM P/N Byte 2-1			1		
2	0			2	0		
	1	Control PROM P/N Byte 2-2			1		
3	0			3	0		
	1	Control PROM P/N Byte 2-3			1		
4	0			4	0		
	1	Control PROM P/N Byte 2-4			1		
5	0			5	0		
	1	Control PROM P/N Byte 2-5			1		
6	0			6	0		
	1	Control PROM P/N Byte 2-6			1		
7	0			7	0		
	1	Control PROM P/N Byte 2-7			1		

Address: 11DB, Location: Beam 2, Rear FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 2, Rear FLEXJET Head				NOTE: FlexJet Control PROM ID			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1	Control PROM P/N Byte 1-0			1		
1	0			1	0		
	1	Control PROM P/N Byte 1-1			1		
2	0			2	0		
	1	Control PROM P/N Byte 1-2			1		
3	0			3	0		
	1	Control PROM P/N Byte 1-3			1		
4	0			4	0		
	1	Control PROM P/N Byte 1-4			1		
5	0			5	0		
	1	Control PROM P/N Byte 1-5			1		
6	0			6	0		
	1	Control PROM P/N Byte 1-6			1		
7	0			7	0		
	1	Control PROM P/N Byte 1-7			1		

Address: 11DD, Location: Beam 2, Rear FlexJet Head, PC1

PC BOARD: FLEXJET Control				MEMORY TYPE: VME A16/D8			
FUNCTION: Beam 2, Rear FLEXJET Head				NOTE: FlexJet Control PROM ID/Mirror Delay			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1	Control PROM P/N Byte 0-0			1	Mirror In Position Delay 0	
1	0			1	0		
	1	Control PROM P/N Byte 0-1			1	Mirror In Position Delay 1	
2	0			2	0		
	1	Control PROM P/N Byte 0-2			1	Mirror In Position Delay 2	
3	0			3	0		
	1	Control PROM P/N Byte 0-3			1	Mirror In Position Delay 3	
4	0			4	0		
	1	Control PROM P/N Byte 0-4			1	Mirror In Position Delay 4	
5	0			5	0		
	1	Control PROM P/N Byte 0-5			1	Mirror In Position Delay 5	
6	0			6	0		
	1	Control PROM P/N Byte 0-6			1	Mirror In Position Delay 6	
7	0			7	0		
	1	Control PROM P/N Byte 0-7			1	Mirror In Position Delay 7	

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Address: 11DF, Location: Beam 2, Rear FlexJet Head, PC1

PC BOARD: FLEXJET Control			MEMORY TYPE: VME A16/D8		
FUNCTION: Beam 2, Rear FLEXJET Head			NOTE: Closed Loop I/O Test		
BIT	**INPUT**	**CONN/PIN**	**BIT**	**OUTPUT**	**CONN/PIN**
0	Reads Diagnostic Byte		0	Writes Diagnostic Byte	
1			1		
2			2		
3			3		
4			4		
5			5		
6			6		
7			7		

Cont Beam 1 NCC8 Head

Address: 1049H, Location: CI01, Slot: PC3

PC BOARD: NCC8 MM I/O				MEMORY TYPE: VME A16/D16			
FUNCTION: CONT BEAM 1 FRT NCC8 HEAD				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0	Z-Up Spindle 1	P1-14C	0	0		
	1				1		
1	0	Z-Up Spindle 2	P1-14A	1	0		
	1				1		
2	0	Z-Up Spindle 3	P1-15C	2	0		P1-3C
	1				1	Clutch Spindle 1	
3	0	Z-Up Spindle 4	P1-15A	3	0		P1-3A
	1				1	Clutch Spindle 2	
4	0			4	0		P1-4C
	1				1	Clutch Spindle 3	
5	0			5	0		P1-4A
	1				1	Clutch Spindle 4	
6	0			6	0		
	1				1		
7	0			7	0		
	1				1		

Address: 104BH, Location: CI01, Slot: PC3

PC BOARD: NCC8 MM I/O				MEMORY TYPE: VME A16/D16			
FUNCTION: CONT BEAM 1 FRT NCC8 HEAD				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		P1-8C
	1				1	Airkiss Spindle 1	
1	0			1	0		P1-8A
	1				1	Airkiss Spindle 2	
2	0			2	0		P1-9C
	1				1	Airkiss Spindle 3	
3	0			3	0		P1-9A
	1				1	Airkiss Spindle 4	
4	0			4	0		P1-10C
	1				1	Vacuum Spindle 1	
5	0			5	0		P1-10A
	1				1	Vacuum Spindle 2	
6	0			6	0		P1-11C
	1				1	Vacuum Spindle 3	
7	0			7	0		P1-11A
	1				1	Vacuum Spindle 4	

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Address: 1069H, Location: CI01, Slot: PC3

PC BOARD: NCC8 MM I/O				MEMORY TYPE: VME A16/D16			
FUNCTION: CONT BEAM 1 FRT NCC8 HEAD				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0	Prisms Clear	P1-19A	0	0		P1-2A
	1				1	Spindle 1 Lgt Lvl	
1	0	Prisms In Pos	P1-20A	1	0		P1-5C
	1				1	Spindle 2 Lgt Lvl	
2	0	Stop Down	P1-20C	2	0		P1-5A
	1				1	Spindle 3 Lgt Lvl	
3	0			3	0		P1-16C
	1				1	Spindle 4 Lgt Lvl	
4	0			4	0		P1-16A
	1				1	Spindle Stop Down	
5	0			5	0		P1-17C
	1				1	Activate Prisms2	
6	0			6	0		
	1				1		
7	0			7	0		
	1				1		

Address: 104DH, Location: CI01, Slot: PC4

PC BOARD: NCC8 MM I/O				MEMORY TYPE: VME A16/D16			
FUNCTION: CONT BEAM 1 REAR NCC8 HEAD				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0	Z-Up Spindle 1	P1-14C	0	0		
	1				1		
1	0	Z-Up Spindle 2	P1-14A	1	0		
	1				1		
2	0	Z-Up Spindle 3	P1-15C	2	0		P1-3C
	1				1	Clutch Spindle 1	
3	0	Z-Up Spindle 4	P1-15A	3	0		P1-3A
	1				1	Clutch Spindle 2	
4	0			4	0		P1-4C
	1				1	Clutch Spindle 3	
5	0			5	0		P1-4A
	1				1	Clutch Spindle 4	
6	0			6	0		
	1				1		
7	0			7	0		
	1				1		

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Address: 104FH, Location: C101, Slot: PC4

PC BOARD: NCC8 MM I/O				MEMORY TYPE: VME A16/D16			
FUNCTION: CONT BEAM 1 REAR NCC8 HEAD				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		P1-8C
	1				1	Airkiss Spindle 1	
1	0			1	0		P1-8A
	1				1	Airkiss Spindle 2	
2	0			2	0		P1-9C
	1				1	Airkiss Spindle 3	
3	0			3	0		P1-9A
	1				1	Airkiss Spindle 4	
4	0			4	0		P1-10C
	1				1	Vacuum Spindle 1	
5	0			5	0		P1-10A
	1				1	Vacuum Spindle 2	
6	0			6	0		P1-11C
	1				1	Vacuum Spindle 3	
7	0			7	0		P1-11A
	1				1	Vacuum Spindle 4	

Address: 1069H, Location: C101, Slot: PC4

PC BOARD: NCC8 MM I/O				MEMORY TYPE: VME A16/D16			
FUNCTION: CONT BEAM 1 REAR NCC8 HEAD				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0	Prisms Clear	P1-19A	0	0		P1-2A
	1				1	Spindle 1 Lgt Lvl	
1	0	Prisms In Pos	P1-20A	1	0		P1-5C
	1				1	Spindle 2 Lgt Lvl	
2	0	Stop Down	P1-20C	2	0		P1-5A
	1				1	Spindle 3 Lgt Lvl	
3	0			3	0		P1-16C
	1				1	Spindle 4 Lgt Lvl	
4	0			4	0		P1-16A
	1				1	Spindle Stop Down	
5	0			5	0		P1-17C
	1				1	Activate Prisms2	
6	0			6	0		
	1				1		
7	0			7	0		
	1				1		

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Cont Beam 2 NCC8 Head

Address: 1059H, Location: C102, Slot: PC3

PC BOARD: NCC8 MM I/O				MEMORY TYPE: VME A16/D16			
FUNCTION: CONT BEAM 2 REAR NCC8 HEAD				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0	Z-Up Spindle 1	P1-14C	0	0		
	1				1		
1	0	Z-Up Spindle 2	P1-14A	1	0		
	1				1		
2	0	Z-Up Spindle 3	P1-15C	2	0		P1-3C
	1				1	Clutch Spindle 1	
3	0	Z-Up Spindle 4	P1-15A	3	0		P1-3A
	1				1	Clutch Spindle 2	
4	0			4	0		P1-4C
	1				1	Clutch Spindle 3	
5	0			5	0		P1-4A
	1				1	Clutch Spindle 4	
6	0			6	0		
	1				1		
7	0			7	0		
	1				1		

Address: 105BH, Location: C102, Slot: PC3

PC BOARD: NCC8 MM I/O				MEMORY TYPE: VME A16/D16			
FUNCTION: CONT BEAM 2 REAR NCC8 HEAD				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		P1-8C
	1				1	Airkiss Spindle 1	
1	0			1	0		P1-8A
	1				1	Airkiss Spindle 2	
2	0			2	0		P1-9C
	1				1	Airkiss Spindle 3	
3	0			3	0		P1-9A
	1				1	Airkiss Spindle 4	
4	0			4	0		P1-10C
	1				1	Vacuum Spindle 1	
5	0			5	0		P1-10A
	1				1	Vacuum Spindle 2	
6	0			6	0		P1-11C
	1				1	Vacuum Spindle 3	
7	0			7	0		P1-11A
	1				1	Vacuum Spindle 4	

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Address: 106DH, Location: C102, Slot: PC3

PC BOARD: NCC8 MM I/O				MEMORY TYPE: VME A16/D16			
FUNCTION: CONT BEAM 2 REAR NCC8 HEAD				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0	Prisms Clear	P1-19A	0	0		P1-2A
	1				1	Spindle 1 Lgt Lvl	
1	0	Prisms In Pos	P1-20A	1	0		P1-5C
	1				1	Spindle 2 Lgt Lvl	
2	0	Stop Down	P1-20C	2	0		P1-5A
	1				1	Spindle 3 Lgt Lvl	
3	0			3	0		P1-16C
	1				1	Spindle 4 Lgt Lvl	
4	0			4	0		P1-16A
	1				1	Spindle Stop Down	
5	0			5	0		P1-17C
	1				1	Activate Prisms2	
6	0			6	0		
	1				1		
7	0			7	0		
	1				1		

Magellan

Address: 2400H Front ULC, 2500H Rear ULC

PC BOARD: PCB, MAGELLAN				MEMORY TYPE: VME A16/D8			
FUNCTION: SIDE LIGHTING BUFFER 1				NOTE: 2400, 2500			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		LIGHT PULSE CONTROL IN 2uSEC INCREMENTS 0-255 H (300usec MAX.)
	1				1	Light Level, Bit 0	
1	0			1	0		
	1				1	Light Level, Bit 1	
2	0			2	0		
	1				1	Light Level, Bit 2	
3	0			3	0		
	1				1	Light Level, Bit 3	
4	0			4	0		
	1				1	Light Level, Bit 4	
5	0			5	0		
	1				1	Light Level, Bit 5	
6	0			6	0		
	1				1	Light Level, Bit 6	
7	0			7	0		
	1				1	Light Level, Bit 7	

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Address: 2401H Front ULC, 2501H Rear ULC

PC BOARD: PCB, MAGELLAN				MEMORY TYPE: VME A16/D8			
FUNCTION: FRONT LIGHTING BUFFER 1				NOTE: 2401, 2501			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		LIGHT PULSE CONTROL IN 2uSEC INCREMENTS 0-255 H (300usec MAX.)
	1				1	Light Level, Bit 0	
1	0			1	0		
	1				1	Light Level, Bit 1	
2	0			2	0		
	1				1	Light Level, Bit 2	
3	0			3	0		
	1				1	Light Level, Bit 3	
4	0			4	0		
	1				1	Light Level, Bit 4	
5	0			5	0		
	1				1	Light Level, Bit 5	
6	0			6	0		
	1				1	Light Level, Bit 6	
7	0			7	0		
	1				1	Light Level, Bit 7	

Address: 2402H Front ULC, 2502H Rear ULC

PC BOARD: PCB, MAGELLAN				MEMORY TYPE: VME A16/D8			
FUNCTION: ON AXIS LIGHTING BUFFER 1				NOTE: 2402, 2502			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		LIGHT PULSE CONTROL IN 2uSEC INCREMENTS 0-255 H (300usec MAX.)
	1				1	Light Level, Bit 0	
1	0			1	0		
	1				1	Light Level, Bit 1	
2	0			2	0		
	1				1	Light Level, Bit 2	
3	0			3	0		
	1				1	Light Level, Bit 3	
4	0			4	0		
	1				1	Light Level, Bit 4	
5	0			5	0		
	1				1	Light Level, Bit 5	
6	0			6	0		
	1				1	Light Level, Bit 6	
7	0			7	0		
	1				1	Light Level, Bit 7	

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Address: 2403H Front ULC, 2503H Rear ULC

PC BOARD: PCB, MAGELLAN				MEMORY TYPE: VME A16/D8		
FUNCTION: SIDE LIGHTING BUFFER 2				NOTE: 2403, 2503		
BIT		INPUT	CONN/PIN	BIT	OUTPUT	CONN/PIN
0	0			0	0	LIGHT PULSE CONTROL IN 2uSEC INCREMENTS 0-255 H (300usec MAX.)
	1				1 Light Level, Bit 0	
1	0			1	0	
	1				1 Light Level, Bit 1	
2	0			2	0	
	1				1 Light Level, Bit 2	
3	0			3	0	
	1				1 Light Level, Bit 3	
4	0			4	0	
	1				1 Light Level, Bit 4	
5	0			5	0	
	1				1 Light Level, Bit 5	
6	0			6	0	
	1				1 Light Level, Bit 6	
7	0			7	0	
	1				1 Light Level, Bit 7	

Address: 2404H Front ULC, 2504H Rear ULC

PC BOARD: PCB, MAGELLAN				MEMORY TYPE: VME A16/D8		
FUNCTION: FRONT LIGHTING BUFFER 2				NOTE: 2404, 2504		
BIT		INPUT	CONN/PIN	BIT	OUTPUT	CONN/PIN
0	0			0	0	LIGHT PULSE CONTROL IN 2uSEC INCREMENTS 0-255 H (300usec MAX.)
	1				1 Light Level, Bit 0	
1	0			1	0	
	1				1 Light Level, Bit 1	
2	0			2	0	
	1				1 Light Level, Bit 2	
3	0			3	0	
	1				1 Light Level, Bit 3	
4	0			4	0	
	1				1 Light Level, Bit 4	
5	0			5	0	
	1				1 Light Level, Bit 5	
6	0			6	0	
	1				1 Light Level, Bit 6	
7	0			7	0	
	1				1 Light Level, Bit 7	

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Address: 2405H Front ULC, 2505H Rear ULC

PC BOARD: PCB, MAGELLAN				MEMORY TYPE: VME A16/D8			
FUNCTION: ON AXIS LIGHTING BUFFER 2				NOTE: 2405, 2505			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		LIGHT PULSE CONTROL IN 2uSEC INCREMENTS 0-255 H (300usec MAX.)
	1				1	Light Level, Bit 0	
1	0			1	0		
	1				1	Light Level, Bit 1	
2	0			2	0		
	1				1	Light Level, Bit 2	
3	0			3	0		
	1				1	Light Level, Bit 3	
4	0			4	0		
	1				1	Light Level, Bit 4	
5	0			5	0		
	1				1	Light Level, Bit 5	
6	0			6	0		
	1				1	Light Level, Bit 6	
7	0			7	0		
	1				1	Light Level, Bit 7	

Address: 2406H Front ULC, 2506H Rear ULC

PC BOARD: PCB, MAGELLAN				MEMORY TYPE: VME A16/D8			
FUNCTION: SIDE LIGHTING BUFFER 3				NOTE: 2406, 2506			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		LIGHT PULSE CONTROL IN 2uSEC INCREMENTS 0-255 H (300usec MAX.)
	1				1	Light Level, Bit 0	
1	0			1	0		
	1				1	Light Level, Bit 1	
2	0			2	0		
	1				1	Light Level, Bit 2	
3	0			3	0		
	1				1	Light Level, Bit 3	
4	0			4	0		
	1				1	Light Level, Bit 4	
5	0			5	0		
	1				1	Light Level, Bit 5	
6	0			6	0		
	1				1	Light Level, Bit 6	
7	0			7	0		
	1				1	Light Level, Bit 7	

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Address: 2407H Front ULC, 2507H Rear ULC

PC BOARD: PCB, MAGELLAN				MEMORY TYPE: VME A16/D8		
FUNCTION: FRONT LIGHTING BUFFER 3				NOTE: 2407, 2507		
BIT		INPUT	CONN/PIN	BIT	OUTPUT	CONN/PIN
0	0			0	0	LIGHT PULSE CONTROL IN 2uSEC INCREMENTS 0-255 H (300usec MAX.)
	1				1 Light Level, Bit 0	
1	0			1	0	
	1				1 Light Level, Bit 1	
2	0			2	0	
	1				1 Light Level, Bit 2	
3	0			3	0	
	1				1 Light Level, Bit 3	
4	0			4	0	
	1				1 Light Level, Bit 4	
5	0			5	0	
	1				1 Light Level, Bit 5	
6	0			6	0	
	1				1 Light Level, Bit 6	
7	0			7	0	
	1				1 Light Level, Bit 7	

Address: 2408H Front ULC, 2508H Rear ULC

PC BOARD: PCB, MAGELLAN				MEMORY TYPE: VME A16/D8		
FUNCTION: ON AXIS LIGHTING BUFFER 3				NOTE: 2408, 2508		
BIT		INPUT	CONN/PIN	BIT	OUTPUT	CONN/PIN
0	0			0	0	LIGHT PULSE CONTROL IN 2uSEC INCREMENTS 0-255 H (300usec MAX.)
	1				1 Light Level, Bit 0	
1	0			1	0	
	1				1 Light Level, Bit 1	
2	0			2	0	
	1				1 Light Level, Bit 2	
3	0			3	0	
	1				1 Light Level, Bit 3	
4	0			4	0	
	1				1 Light Level, Bit 4	
5	0			5	0	
	1				1 Light Level, Bit 5	
6	0			6	0	
	1				1 Light Level, Bit 6	
7	0			7	0	
	1				1 Light Level, Bit 7	

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Address: 2409H Front ULC, 2509H Rear ULC

PC BOARD: PCB, MAGELLAN				MEMORY TYPE: VME A16/D8		
FUNCTION: SIDE LIGHTING BUFFER 4				NOTE: 2409, 2509		
BIT	INPUT	CONN/PIN	BIT	OUTPUT		CONN/PIN
0	0		0	0		LIGHT PULSE CONTROL IN 2uSEC INCREMENTS 0-255 H (300usec MAX.)
	1			1	Light Level, Bit 0	
1	0		1	0		
	1			1	Light Level, Bit 1	
2	0		2	0		
	1			1	Light Level, Bit 2	
3	0		3	0		
	1			1	Light Level, Bit 3	
4	0		4	0		
	1			1	Light Level, Bit 4	
5	0		5	0		
	1			1	Light Level, Bit 5	
6	0		6	0		
	1			1	Light Level, Bit 6	
7	0		7	0		
	1			1	Light Level, Bit 7	

Address: 240AH Front ULC, 250AH Rear ULC

PC BOARD: PCB, MAGELLAN				MEMORY TYPE: VME A16/D8		
FUNCTION: FRONT LIGHTING BUFFER 4				NOTE: 240A, 250A		
BIT	INPUT	CONN/PIN	BIT	OUTPUT		CONN/PIN
0	0		0	0		LIGHT PULSE CONTROL IN 2uSEC INCREMENTS 0-255 H (300usec MAX.)
	1			1	Light Level, Bit 0	
1	0		1	0		
	1			1	Light Level, Bit 1	
2	0		2	0		
	1			1	Light Level, Bit 2	
3	0		3	0		
	1			1	Light Level, Bit 3	
4	0		4	0		
	1			1	Light Level, Bit 4	
5	0		5	0		
	1			1	Light Level, Bit 5	
6	0		6	0		
	1			1	Light Level, Bit 6	
7	0		7	0		
	1			1	Light Level, Bit 7	

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Address: 240BH Front ULC, 250BH Rear ULC

PC BOARD: PCB, MAGELLAN				MEMORY TYPE: VME A16/D8		
FUNCTION: ON AXIS LIGHTING BUFFER 4				NOTE: 240B, 250B		
BIT		INPUT	CONN/PIN	BIT	OUTPUT	CONN/PIN
0	0			0	0	LIGHT PULSE CONTROL IN 2uSEC INCREMENTS 0-255 H (300usec MAX.)
	1				1 Light Level, Bit 0	
1	0			1	0	
	1				1 Light Level, Bit 1	
2	0			2	0	
	1				1 Light Level, Bit 2	
3	0			3	0	
	1				1 Light Level, Bit 3	
4	0			4	0	
	1				1 Light Level, Bit 4	
5	0			5	0	
	1				1 Light Level, Bit 5	
6	0			6	0	
	1				1 Light Level, Bit 6	
7	0			7	0	
	1				1 Light Level, Bit 7	

Address: 240CH Front ULC, 250CH Rear ULC

PC BOARD: PCB, MAGELLAN				MEMORY TYPE: VME A16/D8		
FUNCTION: SIDE LIGHTING BUFFER 5				NOTE: 240C, 250C		
BIT		INPUT	CONN/PIN	BIT	OUTPUT	CONN/PIN
0	0			0	0	LIGHT PULSE CONTROL IN 2uSEC INCREMENTS 0-255 H (300usec MAX.)
	1				1 Light Level, Bit 0	
1	0			1	0	
	1				1 Light Level, Bit 1	
2	0			2	0	
	1				1 Light Level, Bit 2	
3	0			3	0	
	1				1 Light Level, Bit 3	
4	0			4	0	
	1				1 Light Level, Bit 4	
5	0			5	0	
	1				1 Light Level, Bit 5	
6	0			6	0	
	1				1 Light Level, Bit 6	
7	0			7	0	
	1				1 Light Level, Bit 7	

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Address: 240DH Front ULC, 250DH Rear ULC

PC BOARD: PCB, MAGELLAN				MEMORY TYPE: VME A16/D8		
FUNCTION: FRONT LIGHTING BUFFER 5				NOTE: 240D, 250D		
BIT		INPUT	CONN/PIN	BIT	OUTPUT	CONN/PIN
0	0			0	0	LIGHT PULSE CONTROL IN 2uSEC INCREMENTS 0-255 H (300usec MAX.)
	1				1 Light Level, Bit 0	
1	0			1	0	
	1				1 Light Level, Bit 1	
2	0			2	0	
	1				1 Light Level, Bit 2	
3	0			3	0	
	1				1 Light Level, Bit 3	
4	0			4	0	
	1				1 Light Level, Bit 4	
5	0			5	0	
	1				1 Light Level, Bit 5	
6	0			6	0	
	1				1 Light Level, Bit 6	
7	0			7	0	
	1				1 Light Level, Bit 7	

Address: 240EH Front ULC, 250EH Rear ULC

PC BOARD: PCB, MAGELLAN				MEMORY TYPE: VME A16/D8		
FUNCTION: ON AXIS LIGHTING BUFFER 5				NOTE: 240E, 250E		
BIT		INPUT	CONN/PIN	BIT	OUTPUT	CONN/PIN
0	0			0	0	LIGHT PULSE CONTROL IN 2uSEC INCREMENTS 0-255 H (300usec MAX.)
	1				1 Light Level, Bit 0	
1	0			1	0	
	1				1 Light Level, Bit 1	
2	0			2	0	
	1				1 Light Level, Bit 2	
3	0			3	0	
	1				1 Light Level, Bit 3	
4	0			4	0	
	1				1 Light Level, Bit 4	
5	0			5	0	
	1				1 Light Level, Bit 5	
6	0			6	0	
	1				1 Light Level, Bit 6	
7	0			7	0	
	1				1 Light Level, Bit 7	

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Address: 240FH Front ULC, 250FH Rear ULC

PC BOARD: PCB, MAGELLAN				MEMORY TYPE: VME A16/D8		
FUNCTION: SIDE LIGHTING BUFFER 6				NOTE: 240F, 250F		
BIT		INPUT	CONN/PIN	BIT	OUTPUT	CONN/PIN
0	0			0	0	LIGHT PULSE CONTROL IN 2uSEC INCREMENTS 0-255 H (300usec MAX.)
	1				1 Light Level, Bit 0	
1	0			1	0	
	1				1 Light Level, Bit 1	
2	0			2	0	
	1				1 Light Level, Bit 2	
3	0			3	0	
	1				1 Light Level, Bit 3	
4	0			4	0	
	1				1 Light Level, Bit 4	
5	0			5	0	
	1				1 Light Level, Bit 5	
6	0			6	0	
	1				1 Light Level, Bit 6	
7	0			7	0	
	1				1 Light Level, Bit 7	

Address: 2410H Front ULC, 2510H Rear ULC

PC BOARD: PCB, MAGELLAN				MEMORY TYPE: VME A16/D8		
FUNCTION: FRONT LIGHTING BUFFER 6				NOTE: 2410, 2510		
BIT		INPUT	CONN/PIN	BIT	OUTPUT	CONN/PIN
0	0			0	0	LIGHT PULSE CONTROL IN 2uSEC INCREMENTS 0-255 H (300usec MAX.)
	1				1 Light Level, Bit 0	
1	0			1	0	
	1				1 Light Level, Bit 1	
2	0			2	0	
	1				1 Light Level, Bit 2	
3	0			3	0	
	1				1 Light Level, Bit 3	
4	0			4	0	
	1				1 Light Level, Bit 4	
5	0			5	0	
	1				1 Light Level, Bit 5	
6	0			6	0	
	1				1 Light Level, Bit 6	
7	0			7	0	
	1				1 Light Level, Bit 7	

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Address: 2411H Front ULC, 2511H Rear ULC

PC BOARD: PCB, MAGELLAN				MEMORY TYPE: VME A16/D8			
FUNCTION: ON AXIS LIGHTING BUFFER 6				NOTE: 2411, 2511			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		LIGHT PULSE CONTROL IN 2uSEC INCREMENTS 0-255 H (300usec MAX.)
	1				1	Light Level, Bit 0	
1	0			1	0		
	1				1	Light Level, Bit 1	
2	0			2	0		
	1				1	Light Level, Bit 2	
3	0			3	0		
	1				1	Light Level, Bit 3	
4	0			4	0		
	1				1	Light Level, Bit 4	
5	0			5	0		
	1				1	Light Level, Bit 5	
6	0			6	0		
	1				1	Light Level, Bit 6	
7	0			7	0		
	1				1	Light Level, Bit 7	

Address: 2412H Front ULC, 2512H Rear ULC

PC BOARD: PCB, MAGELLAN				MEMORY TYPE: VME A16/D8			
FUNCTION: SIDE LIGHTING BUFFER 7				NOTE: 2412, 2512			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		LIGHT PULSE CONTROL IN 2uSEC INCREMENTS 0-255 H (300usec MAX.)
	1				1	Light Level, Bit 0	
1	0			1	0		
	1				1	Light Level, Bit 1	
2	0			2	0		
	1				1	Light Level, Bit 2	
3	0			3	0		
	1				1	Light Level, Bit 3	
4	0			4	0		
	1				1	Light Level, Bit 4	
5	0			5	0		
	1				1	Light Level, Bit 5	
6	0			6	0		
	1				1	Light Level, Bit 6	
7	0			7	0		
	1				1	Light Level, Bit 7	

Address: 2413H Front ULC, 2513H Rear ULC

PC BOARD: PCB, MAGELLAN				MEMORY TYPE: VME A16/D8			
FUNCTION: FRONT LIGHTING BUFFER 7				NOTE: 2413, 2513			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		LIGHT PULSE CONTROL IN 2uSEC INCREMENTS 0-255 H (300usec MAX.)
	1				1	Light Level, Bit 0	
1	0			1	0		
	1				1	Light Level, Bit 1	
2	0			2	0		
	1				1	Light Level, Bit 2	
3	0			3	0		
	1				1	Light Level, Bit 3	
4	0			4	0		
	1				1	Light Level, Bit 4	
5	0			5	0		
	1				1	Light Level, Bit 5	
6	0			6	0		
	1				1	Light Level, Bit 6	
7	0			7	0		
	1				1	Light Level, Bit 7	

Address: 2414H Front ULC, 2514H Rear ULC

PC BOARD: PCB, MAGELLAN				MEMORY TYPE: VME A16/D8			
FUNCTION: ON AXIS LIGHTING BUFFER 7				NOTE: 2414, 2514			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		LIGHT PULSE CONTROL IN 2uSEC INCREMENTS 0-255 H (300usec MAX.)
	1				1	Light Level, Bit 0	
1	0			1	0		
	1				1	Light Level, Bit 1	
2	0			2	0		
	1				1	Light Level, Bit 2	
3	0			3	0		
	1				1	Light Level, Bit 3	
4	0			4	0		
	1				1	Light Level, Bit 4	
5	0			5	0		
	1				1	Light Level, Bit 5	
6	0			6	0		
	1				1	Light Level, Bit 6	
7	0			7	0		
	1				1	Light Level, Bit 7	

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Address: 2415H Front ULC, 2515H Rear ULC

PC BOARD: PCB, MAGELLAN				MEMORY TYPE: VME A16/D8			
FUNCTION: CONTROL				NOTE: 2415, 2515			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0	Mode Holding	
	1				1	Mode Cycling	
1	0			1	0		
	1				1	Camera Enabled	
2	0			2	0		
	1				1	Lighting Enabled	
3	0			3	0		
	1				1	Lighting Buffer Reset	
4	0			4	0		
	1				1	Master Reset (set to default states)	
5	0			5	0		
	1				1		
6	0			6	0		
	1				1		
7	0			7	0		
	1				1		

Address: 2416H Front ULC, 2516H Rear ULC

PC BOARD: PCB, MAGELLAN				MEMORY TYPE: VME A16/D8			
FUNCTION: DIAGNOSTIC				NOTE: 2416, 2516			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		Diagnostic Byte-Outputs States Readable as Inputs	0	0		Diagnostic Byte-Outputs States Readable as Inputs
	1	Diagnostic Read, Bit 0			1	Diagnostic Write, Bit 0	
1	0			1	0		
	1	Diagnostic Read, Bit 1			1	Diagnostic Write, Bit 1	
2	0			2	0		
	1	Diagnostic Read, Bit 2			1	Diagnostic Write, Bit 2	
3	0			3	0		
	1	Diagnostic Read, Bit 3			1	Diagnostic Write, Bit 3	
4	0			4	0		
	1	Diagnostic Read, Bit 4			1	Diagnostic Write, Bit 4	
5	0			5	0		
	1	Diagnostic Read, Bit 5			1	Diagnostic Write, Bit 5	
6	0			6	0		
	1	Diagnostic Read, Bit 6			1	Diagnostic Write, Bit 6	
7	0			7	0		
	1	Diagnostic Read, Bit 7			1	Diagnostic Write, Bit 7	

Address: 2417H Front ULC, 2517H Rear ULC

PC BOARD: PCB, MAGELLAN				MEMORY TYPE: VME A16/D8		
FUNCTION: SELF ID 3 (Byte 3)				NOTE: 2417, 2517		
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1	ID Byte 3, Bit 0			1		
1	0			1	0		
	1	ID Byte 3, Bit 1			1		
2	0			2	0		
	1	ID Byte 3, Bit 2			1		
3	0			3	0		
	1	ID Byte 3, Bit 3			1		
4	0			4	0		
	1	ID Byte 3, Bit 4			1		
5	0			5	0		
	1	ID Byte 3, Bit 5			1		
6	0			6	0		
	1	ID Byte 3, Bit 6			1		
7	0			7	0		
	1	ID Byte 3, Bit 7			1		

Address: 2418H Front ULC, 2518H Rear ULC

PC BOARD: PCB, MAGELLAN				MEMORY TYPE: VME A16/D8		
FUNCTION: SELF ID 2 (Byte 2)				NOTE: 2418, 2518		
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1	ID Byte 2, Bit 0			1		
1	0			1	0		
	1	ID Byte 2, Bit 1			1		
2	0			2	0		
	1	ID Byte 2, Bit 2			1		
3	0			3	0		
	1	ID Byte 2, Bit 3			1		
4	0			4	0		
	1	ID Byte 2, Bit 4			1		
5	0			5	0		
	1	ID Byte 2, Bit 5			1		
6	0			6	0		
	1	ID Byte 2, Bit 6			1		
7	0			7	0		
	1	ID Byte 2, Bit 7			1		

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Address: 2419H Front ULC, 2519H Rear ULC

PC BOARD: PCB, MAGELLAN				MEMORY TYPE: VME A16/D8		
FUNCTION: SELF ID 1 (Byte 1)				NOTE: 2419, 2519		
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1	ID Byte 1, Bit 0			1		
1	0			1	0		
	1	ID Byte 1, Bit 1			1		
2	0			2	0		
	1	ID Byte 1, Bit 2			1		
3	0			3	0		
	1	ID Byte 1, Bit 3			1		
4	0			4	0		
	1	ID Byte 1, Bit 4			1		
5	0			5	0		
	1	ID Byte 1, Bit 5			1		
6	0			6	0		
	1	ID Byte 1, Bit 6			1		
7	0			7	0		
	1	ID Byte 1, Bit 7			1		

Address: 241AH Front ULC, 251AH Rear ULC

PC BOARD: PCB, MAGELLAN				MEMORY TYPE: VME A16/D8		
FUNCTION: SELF ID 0 (Byte 0)				NOTE: 241A, 251A		
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1	ID Byte 0, Bit 0			1		
1	0			1	0		
	1	ID Byte 0, Bit 1			1		
2	0			2	0		
	1	ID Byte 0, Bit 2			1		
3	0			3	0		
	1	ID Byte 0, Bit 3			1		
4	0			4	0		
	1	ID Byte 0, Bit 4			1		
5	0			5	0		
	1	ID Byte 0, Bit 5			1		
6	0			6	0		
	1	ID Byte 0, Bit 6			1		
7	0			7	0		
	1	ID Byte 0, Bit 7			1		

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Address: 241BH Front ULC, 251BH Rear ULC

PC BOARD: PCB, MAGELLAN				MEMORY TYPE: VME A16/D8			
FUNCTION: STATUS				NOTE: 241B, 251B			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1	48V Present Status			1		
1	0			1	0		
	1	12V Present Status			1		
2	0			2	0		
	1	Lighting Status			1		
3	0			3	0		
	1				1		
4	0			4	0		
	1				1		
5	0			5	0		
	1				1		
6	0			6	0		
	1				1		
7	0			7	0		
	1				1		

Feeder Interface (24 V)

Address: 1071H, Location: SMT, Slot: FD1

PC BOARD: FEEDER INTF				MEMORY TYPE: VME A16/D8			
FUNCTION: FEEDER INTF				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1	Feeder 1 Present - N/A for GSMxs			1	Feeder 1 Out - N/A for GSMxs	
1	0			1	0		
	1	Feeder 2 Present - N/A for GSMxs			1	Feeder 2 Out - N/A for GSMxs	
2	0			2	0		
	1	Feeder 3 Present - N/A for GSMxs			1	Feeder 3 Out - N/A for GSMxs	
3	0			3	0		
	1	Feeder 4 Present - N/A for GSMxs			1	Feeder 4 Out - N/A for GSMxs	
4	0			4	0		
	1	Feeder 5 Present			1	Feeder 5 Out	
5	0			5	0		
	1	Feeder 6 Present			1	Feeder 6 Out	
6	0			6	0		
	1	Feeder 7 Present			1	Feeder 7 Out	
7	0			7	0		
	1	Feeder 8 Present			1	Feeder 8 Out	

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Address: 1073H, Location: SMT, Slot: FD1

PC BOARD: FEEDER INTF				MEMORY TYPE: VME A16/D8			
FUNCTION: FEEDER INTF				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1	Feeder 9 Present			1	Feeder 9 Out	
1	0			1	0		
	1	Feeder 10 Present			1	Feeder 10 Out	
2	0			2	0		
	1	Feeder 11 Present			1	Feeder 11 Out	
3	0			3	0		
	1	Feeder 12 Present			1	Feeder 12 Out	
4	0			4	0		
	1	Feeder 13 Present			1	Feeder 13 Out	
5	0			5	0		
	1	Feeder 14 Present			1	Feeder 14 Out	
6	0			6	0		
	1	Feeder 15 Present			1	Feeder 15 Out	
7	0			7	0		
	1	Feeder 16 Present			1	Feeder 16 Out	

Address: 1075H, Location: SMT, Slot: FD1

PC BOARD: FEEDER INTF				MEMORY TYPE: VME A16/D8			
FUNCTION: FEEDER INTF				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1	Feeder 17 Present			1	Feeder 17 Out	
1	0			1	0		
	1	Feeder 18 Present			1	Feeder 18 Out	
2	0			2	0		
	1	12VDC OK For 1-6			1		
3	0			3	0		
	1	12VDC OK For 7-12			1		
4	0			4	0		
	1	12VDC OK For 13-18			1		
5	0			5	0		
	1	24AC OK For 1-6			1		
6	0			6	0		
	1	24AC OK For 7-12			1		
7	0			7	0		
	1	24AC OK For 13-18			1		

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Address: 1077H, Location: SMT, Slot: FD1

PC BOARD: FEEDER INTF			MEMORY TYPE: VME A16/D8		
FUNCTION: DIAGNOSTIC BYTE			NOTE:		
BIT	INPUT	CONN/PIN	BIT	OUTPUT	CONN/PIN
0	Reads Diagnostic Byte		0	Writes Diagnostic Byte	
1			1		
2			2		
3			3		
4			4		
5			5		
6			6		
7			7		

Address: 1079H, Location: SMT, Slot: FD2

PC BOARD: FEEDER INTF				MEMORY TYPE: VME A16/D8			
FUNCTION: FEEDER INTF				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1	FD 19 Pres/Bcklight Dwn			1	Feeder 19 Out	
1	0			1	0		
	1	FD 20 Pres/Bcklight Dwn			1	Feeder 20 Out	
2	0			2	0		
	1	Feeder 21 Present			1	Feeder 21 Out	
3	0			3	0		
	1	Feeder 22 Present			1	Feeder 22 Out	
4	0			4	0		
	1	Feeder 23 Present			1	Feeder 23 Out	
5	0			5	0		
	1	Feeder 24 Present			1	Feeder 24 Out	
6	0			6	0		
	1	Feeder 25 Present			1	Feeder 25 Out	
7	0			7	0		
	1	Feeder 26 Present			1	Feeder 26 Out	

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Address: 107BH, Location: SMT, Slot: FD2

PC BOARD: FEEDER INTF				MEMORY TYPE: VME A16/D8			
FUNCTION: FEEDER INTF				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1	Feeder 27 Present			1	Feeder 27 Out	
1	0			1	0		
	1	Feeder 28 Present			1	Feeder 28 Out	
2	0			2	0		
	1	Feeder 29 Present			1	Feeder 29 Out	
3	0			3	0		
	1	Feeder 30 Present			1	Feeder 30 Out	
4	0			4	0		
	1	Feeder 31 Present			1	Feeder 31 Out	
5	0			5	0		
	1	Feeder 32 Present			1	Feeder 32 Out	
6	0			6	0		
	1	Feeder 33 Present - N/A For GSMxs			1	Feeder 33 Out - N/A For GSMxs	
7	0			7	0		
	1	Feeder 34 Present - N/A For GSMxs			1	Feeder 34 Out - N/A For GSMxs	

Address: 107DH, Location: SMT, Slot: FD2

PC BOARD: FEEDER INTF				MEMORY TYPE: VME A16/D8			
FUNCTION: FEEDER INTF				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1	Feeder 35 Present - N/A For GSMxs			1	Feeder 35 Out - N/A For GSMxs	
1	0			1	0		
	1	Feeder 36 Present - N/A For GSMxs			1	Feeder 36 Out - N/A For GSMxs	
2	0			2	0		
	1	12VDC OK For 19-24			1		
3	0			3	0		
	1	12VDC OK For 25-30			1		
4	0			4	0		
	1	12VDC OK For 31-36			1		
5	0			5	0		
	1	24AC OK For 19-24			1		
6	0			6	0		
	1	24AC OK For 25-30			1		
7	0			7	0		
	1	24AC OK For 31-36			1		

Address: 107FH, Location: SMT, Slot: FD2

PC BOARD: FEEDER INTF			MEMORY TYPE: VME A16/D8		
FUNCTION: DIAGNOSTIC BYTE			NOTE:		
BIT	INPUT	CONN/PIN	BIT	OUTPUT	CONN/PIN
0	Reads Diagnostic Byte		0	Writes Diagnostic Byte	
1			1		
2			2		
3			3		
4			4		
5			5		
6			6		
7			7		

Address: 1081H, Location: SMT, Slot: FD3

PC BOARD: FEEDER INTF				MEMORY TYPE: VME A16/D8			
FUNCTION: FEEDER INTF				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1	Feeder 37 Present - N/A For GSMxs			1	Feeder 37 Out - N/A For GSMxs	
1	0			1	0		
	1	Feeder 38 Present - N/A For GSMxs			1	Feeder 38 Out - N/A For GSMxs	
2	0			2	0		
	1	Feeder 39 Present - N/A For GSMxs			1	Feeder 39 Out - N/A For GSMxs	
3	0			3	0		
	1	Feeder 40 Present - N/A For GSMxs			1	Feeder 40 Out - N/A For GSMxs	
4	0			4	0		
	1	Feeder 41 Present			1	Feeder 41 Out	
5	0			5	0		
	1	Feeder 42 Present			1	Feeder 42 Out	
6	0			6	0		
	1	Feeder 43 Present			1	Feeder 43 Out	
7	0			7	0		
	1	Feeder 44 Present			1	Feeder 44 Out	

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Address: 1083H, Location: SMT, Slot: FD3

PC BOARD: FEEDER INTF				MEMORY TYPE: VME A16/D8			
FUNCTION: FEEDER INTF				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1	Feeder 45 Present			1	Feeder 45 Out	
1	0			1	0		
	1	Feeder 46 Present			1	Feeder 46 Out	
2	0			2	0		
	1	Feeder 47 Present			1	Feeder 47 Out	
3	0			3	0		
	1	Feeder 48 Present			1	Feeder 48 Out	
4	0			4	0		
	1	Feeder 49 Present			1	Feeder 49 Out	
5	0			5	0		
	1	Feeder 50 Present			1	Feeder 50 Out	
6	0			6	0		
	1	Feeder 51 Present			1	Feeder 51 Out	
7	0			7	0		
	1	Feeder 52 Present			1	Feeder 52 Out	

Address: 1085H, Location: SMT, Slot: FD3

PC BOARD: FEEDER INTF				MEMORY TYPE: VME A16/D8			
FUNCTION: FEEDER INTF				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1	Feeder 53 Present			1	Feeder 53 Out	
1	0			1	0		
	1	Feeder 54 Present			1	Feeder 54 Out	
2	0			2	0		
	1	12VDC OK For 37-42			1		
3	0			3	0		
	1	12VDC OK For 43-48			1		
4	0			4	0		
	1	12VDC OK For 49-54			1		
5	0			5	0		
	1	24AC OK For 37-42			1		
6	0			6	0		
	1	24AC OK For 43-48			1		
7	0			7	0		
	1	24AC OK For 49-54			1		

Address: 1087H, Location: SMT, Slot: FD3

PC BOARD: FEEDER INTF			MEMORY TYPE: VME A16/D8		
FUNCTION: DIAGNOSTIC BYTE			NOTE:		
BIT	INPUT	CONN/PIN	BIT	OUTPUT	CONN/PIN
0	Reads Diagnostic Byte		0	Writes Diagnostic Byte	
1			1		
2			2		
3			3		
4			4		
5			5		
6			6		
7			7		

Address: 1089H, Location: SMT, Slot: FD4

PC BOARD: FEEDER INTF				MEMORY TYPE: VME A16/D8			
FUNCTION: FEEDER INTF				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1	Fd 55 Pres/Bcklight Dwn			1	Feeder 55 Out	
1	0			1	0		
	1	Fd 56 Pres/Bcklight Dwn			1	Feeder 56 Out	
2	0			2	0		
	1	Feeder 57 Present			1	Feeder 57 Out	
3	0			3	0		
	1	Feeder 58 Present			1	Feeder 58 Out	
4	0			4	0		
	1	Feeder 59 Present			1	Feeder 59 Out	
5	0			5	0		
	1	Feeder 60 Present			1	Feeder 60 Out	
6	0			6	0		
	1	Feeder 61 Present			1	Feeder 61 Out	
7	0			7	0		
	1	Feeder 62 Present			1	Feeder 62 Out	

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Address: 108BH, Location: SMT, Slot: FD4

PC BOARD: FEEDER INTF				MEMORY TYPE: VME A16/D8			
FUNCTION: FEEDER INTF				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1	Feeder 63 Present			1	Feeder 63 Out	
1	0			1	0		
	1	Feeder 64 Present			1	Feeder 64 Out	
2	0			2	0		
	1	Feeder 65 Present			1	Feeder 65 Out	
3	0			3	0		
	1	Feeder 66 Present			1	Feeder 66 Out	
4	0			4	0		
	1	Feeder 67 Present			1	Feeder 67 Out	
5	0			5	0		
	1	Feeder 68 Present			1	Feeder 68 Out	
6	0			6	0		
	1	Feeder 69 Present - N/A For GSMxs			1	Feeder 69 Out - N/A For GSMxs	
7	0			7	0		
	1	Feeder 70 Present - N/A For GSMxs			1	Feeder 70 Out - N/A For GSMxs	

Address: 108DH, Location: SMT, Slot: FD4

PC BOARD: FEEDER INTF				MEMORY TYPE: VME A16/D8			
FUNCTION: FEEDER INTF				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1	Feeder 71 Present - N/A For GSMxs			1	Feeder 71 Out - N/A For GSMxs	
1	0			1	0		
	1	Feeder 72 Present - N/A For GSMxs			1	Feeder 72 Out - N/A For GSMxs	
2	0			2	0		
	1	12VDC OK For 55-60			1		
3	0			3	0		
	1	12VDC OK For 61-66			1		
4	0			4	0		
	1	12VDC OK For 67-72			1		
5	0			5	0		
	1	24AC OK For 55-60			1		
6	0			6	0		
	1	24AC OK For 61-66			1		
7	0			7	0		
	1	24AC OK For 67-72			1		

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Address: 108FH, Location: SMT, Slot: FD4

PC BOARD: FEEDER INTF			MEMORY TYPE: VME A16/D8		
FUNCTION: DIAGNOSTIC BYTE			NOTE:		
BIT	**INPUT**	**CONN/PIN**	**BIT**	**OUTPUT**	**CONN/PIN**
0	Reads Diagnostic Byte		0	Writes Diagnostic Byte	
1			1		
2			2		
3			3		
4			4		
5			5		
6			6		
7			7		

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Precision Pro™ Feeder Interface

Address: 1071H

PC BOARD: FEEDER INTERFACE			MEMORY TYPE: VME A16/D8			
FUNCTION: Feeder Status (request)			FUNCTION: Feeder Slot # for Command			
BIT		INPUT	BIT		OUTPUT	Definitions
0	0	Not Ready To Be Picked	0	0		Hex Encoded 1 - 72 Feeders
	1	Ready To Be Picked		1	1	
1	0	Reel Holder Empty	1	0		
	1	Reel Holder Occupied		1	2	
2	0	Normal	2	0		
	1	Error		1	4	
3	0		3	0		
	1	Maintenance (Aplus only), Direct Read Input Data (Legacy only		1	8	
4	0		4	0		
	1	Ready Tx Data (For Command)		1	16	
5	0		5	0		
	1	Communication Error		1	32	
6	0	Feeder Type Legacy	6	0		
	1	Feeder Type Precision Pro		1	64	
7	0		7	0		
	1	Data Ready		1	128	

Address: 1073H

PC BOARD: FEEDER INTERFACE			MEMORY TYPE: VME A16/D8			
FUNCTION: Feeder Status (command)			FUNCTION: Feeder Track # for Command			
BIT		INPUT	BIT		OUTPUT	Definitions
0	0	Not Ready To Be Picked	0	0		Hex Encoded 1 - 3 Tracks
	1	Ready To Be Picked		1	1	
1	0	Reel Holder Empty	1	0		
	1	Reel Holder Occupied		1	2	
2	0	Normal	2	0		
	1	Error		1	4	
3	0		3	0		
	1	Maintenance (Aplus only), Direct Read Input Data (Legacy only		1	8	
4	0		4	0		
	1	Ready Tx Data (For Command)		1	16	
5	0		5	0		
	1	Communication Error		1	32	
6	0	Feeder Type Legacy	6	0		
	1	Feeder Type Precision Pro		1	64	
7	0		7	0		
	1	Data Ready		1	128	

Address: 1075H

PC BOARD: FEEDER INTERFACE			MEMORY TYPE: VME A16/D8			
FUNCTION: DataRead 1(MSB)			FUNCTION: Feeder Command			
BIT		INPUT	BIT		OUTPUT	Definitions
0	0		0	0		Feeder Bank Decoded
	1			1	1	
1	0		1	0		Index Feeder = 1
	1			1	2	Set Default State to Present = 2
2	0		2	0		Set Slot Default State to Not Present = 3
	1			1	4	Set Slot Default State to Don't Care = 4
3	0		3	0		Read "On" = 5
	1			1	8	Read "Off" Time Data = 6
4	0		4	0		Force Output "On" = 7
	1			1	16	Force Output "Off" = 8
5	0		5	0		Data Read = 9
	1			1	32	Data Write = A
6	0		6	0		Reset Communications Errors = B
	1			1	64	Unlock Feeder Mamory = C
7	0		7	0		Lock Feeder Memory = D
	1			1	128	

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Address: 1077H

PC BOARD: FEEDER INTERFACE			MEMORY TYPE: VME A16/D8			
FUNCTION: DataRead 2			FUNCTION: Feeder Slot # for Request			
BIT		INPUT	BIT		OUTPUT	Definitions
0	0		0	0		Hex Encoded 1-72 Feeders (Feeder Bank Decoded)
	1			1	1	
1	0		1	0		
	1			1	2	
2	0		2	0		
	1			1	4	
3	0		3	0		
	1			1	8	
4	0		4	0		
	1			1	16	
5	0		5	0		
	1			1	32	
6	0		6	0		
	1			1	64	
7	0		7	0		
	1			1	128	

Address: 1079H

PC BOARD: FEEDER INTERFACE			MEMORY TYPE: VME A16/D8			
FUNCTION: DataRead 3			FUNCTION: Feeder Track # for Request			
BIT		INPUT	BIT		OUTPUT	Definitions
0	0		0	0		Hex Encoded 1-3 Tracks
	1			1	1	
1	0		1	0		
	1			1	2	
2	0		2	0		
	1			1	4	
3	0		3	0		
	1			1	8	
4	0		4	0		
	1			1	16	
5	0		5	0		
	1			1	32	
6	0		6	0		
	1			1	64	
7	0		7	0		
	1			1	128	

Address: 107BH

PC BOARD: FEEDER INTERFACE			MEMORY TYPE: VME A16/D8			
FUNCTION: DataRead 4 (LSB)			FUNCTION: Feeder Data ID			
BIT		INPUT	BIT		OUTPUT	Definitions
0	0		0	0		
	1			1	1	
1	0		1	0		
	1			1	2	
2	0		2	0		Feeder Serial Number = 1
	1			1	4	Cycle Count = 2
3	0		3	0		Pre-trigger (msec) = 3
	1			1	8	Feeder Software Version Number = 4
4	0		4	0		Feeder Pick Point Calibration = 5
	1			1	16	
5	0		5	0		
	1			1	32	
6	0		6	0		
	1			1	64	
7	0		7	0		
	1			1	128	

Address: 107DH

PC BOARD: FEEDER INTERFACE			MEMORY TYPE: VME A16/D8			
FUNCTION: Change of State Feeder Bank # 1			FUNCTION: Feeder Data Write 1 (MSB)			
		INPUT	BIT		OUTPUT	Definitions
0	0		0	0		
	1	Slot # Hex Encoded		1		
1	0		1	0		
	1			1		
2	0		2	0		
	1			1		
3	0		3	0		
	1			1		
4	0		4	0		
	1			1		
5	0		5	0		
	1	Track # Hex Encoded		1		
6	0		6	0		
	1			1		
7	0		7	0		
	1			1		

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Address: 107FH

PC BOARD: FEEDER INTERFACE			MEMORY TYPE: VME A16/D8			
FUNCTION: Change of State Feeder Bank # 2			FUNCTION: Feeder Data Write 2			
		INPUT	BIT		OUTPUT	Definitions
0	0		0	0		
	1	Slot # Hex Encoded		1		
1	0		1	0		
	1			1		
2	0		2	0		
	1			1		
3	0		3	0		
	1			1		
4	0		4	0		
	1			1		
5	0		5	0		
	1	Track # Hex Encoded		1		
6	0		6	0		
	1			1		
7	0		7	0		
	1			1		

Address: 1081H

PC BOARD: FEEDER INTERFACE			MEMORY TYPE: VME A16/D8			
FUNCTION: Change of State Feeder Bank # 3			FUNCTION: Feeder Data Write 3			
		INPUT	BIT		OUTPUT	Definitions
0	0		0	0		
	1	Slot # Hex Encoded		1		
1	0		1	0		
	1			1		
2	0		2	0		
	1			1		
3	0		3	0		
	1			1		
4	0		4	0		
	1			1		
5	0		5	0		
	1	Track # Hex Encoded		1		
6	0		6	0		
	1			1		
7	0		7	0		
	1			1		

Address: 1083H

PC BOARD: FEEDER INTERFACE			MEMORY TYPE: VME A16/D8			
FUNCTION: Change of State Feeder Bank # 4			FUNCTION: Feeder Data Write 4 (LSB)			
		INPUT	BIT		OUTPUT	Definitions
0	0		0	0		
	1	Slot # Hex Encoded		1		
1	0		1	0		
	1			1		
2	0		2	0		
	1			1		
3	0		3	0		
	1			1		
4	0		4	0		
	1			1		
5	0		5	0		
	1	Track # Hex Encoded		1		
6	0		6	0		
	1			1		
7	0		7	0		
	1			1		

Address: 1085H

PC BOARD: FEEDER INTERFACE			MEMORY TYPE: VME A16/D8			
FUNCTION: FEEDER BANK # 1			FUNCTION:			
BIT		INPUT	BIT		OUTPUT	Definitions
0	0		0	0		
	1	42 VDC OK		1		
1	0		1	0		
	1	12 VDC OK		1		
2	0		2	0		
	1	24 VAC OK		1		
3	0		3	0		
	1	12 VDCa OK		1		
4	0		4	0		
	1	12 VDCb OK		1		
5	0		5	0		
	1	12 VDC c OK		1		
6	0		6	0		
	1	Z Safe Mode		1		
7	0		7	0		
	1			1		

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Address: 1087H

PC BOARD: FEEDER INTERFACE			MEMORY TYPE: VME A16/D8			
FUNCTION: MMIT (Feeder Bank # 1) Diagnostics			FUNCTION: (Feeder Bank # 1) Diagnostic			
BIT		INPUT	BIT		OUTPUT	Definitions
0	0		0	0		
	1			1		
1	0		1	0		
	1			1		
2	0		2	0		
	1			1		
3	0		3	0		
	1			1		
4	0		4	0		
	1			1		
5	0		5	0		
	1			1		
6	0		6	0		
	1			1		
7	0		7	0		
	1			1		

Address: 1089H

PC BOARD: FEEDER INTERFACE			MEMORY TYPE: VME A16/D8			
FUNCTION: FEEDER BANK # 2			FUNCTION:			
BIT		INPUT	BIT		OUTPUT	Definitions
0	0		0	0		
	1	42 VDC OK		1		
1	0		1	0		
	1	12 VDC OK		1		
2	0		2	0		
	1	24 VAC OK		1		
3	0		3	0		
	1	12 VDCa OK		1		
4	0		4	0		
	1	12 VDCb OK		1		
5	0		5	0		
	1	12 VDC c OK		1		
6	0		6	0		
	1	Z Safe Mode		1		
7	0		7	0		
	1			1		

Address: 108BH

PC BOARD: FEEDER INTERFACE			MEMORY TYPE: VME A16/D8			
FUNCTION: MMIT (Feeder Bank # 2) Diagnostics			FUNCTION: (Feeder Bank # 2) Diagnostic			
BIT		INPUT	BIT		OUTPUT	Definitions
0	0		0	0		
	1			1		
1	0		1	0		
	1			1		
2	0		2	0		
	1			1		
3	0		3	0		
	1			1		
4	0		4	0		
	1			1		
5	0		5	0		
	1			1		
6	0		6	0		
	1			1		
7	0		7	0		
	1			1		

Address: 108DH

PC BOARD: FEEDER INTERFACE			MEMORY TYPE: VME A16/D8			
FUNCTION: Feeder Bank # 3			FUNCTION:			
BIT		INPUT	BIT		OUTPUT	Definitions
0	0		0	0		
	1	42 VDC OK		1		
1	0		1	0		
	1	12 VDC OK		1		
2	0		2	0		
	1	24 VAC OK		1		
3	0		3	0		
	1	12 VDCa OK		1		
4	0		4	0		
	1	12 VDCb OK		1		
5	0		5	0		
	1	12 VDC c OK		1		
6	0		6	0		
	1	Z Safe Mode		1		
7	0		7	0		
	1			1		

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Address: 108FH

PC BOARD: FEEDER INTERFACE			MEMORY TYPE: VME A16/D8			
FUNCTION: MMIT (Feeder Bank # 3) Diagnostics			FUNCTION: (Feeder Bank # 3) Diagnostics			
BIT		INPUT	BIT		OUTPUT	Definitions
0	0		0	0		
	1			1		
1	0		1	0		
	1			1		
2	0		2	0		
	1			1		
3	0		3	0		
	1			1		
4	0		4	0		
	1			1		
5	0		5	0		
	1			1		
6	0		6	0		
	1			1		
7	0		7	0		
	1			1		

Address: 1091H

PC BOARD: FEEDER INTERFACE			MEMORY TYPE:			
FUNCTION: FEEDER BANK # 4			NOTE: 1091H			
BIT		INPUT	BIT		OUTPUT	Definitions
0	0		0	0		
	1	42 VDC OK		1		
1	0		1	0		
	1	12 VDC OK		1		
2	0		2	0		
	1	24 VAC OK		1		
3	0		3	0		
	1	12 VDCa OK		1		
4	0		4	0		
	1	12 VDCb OK		1		
5	0		5	0		
	1	12 VDC c OK		1		
6	0		6	0		
	1	Z Safe Mode		1		
7	0		7	0		
	1			1		

Address: 1093H

PC BOARD: FEEDER INTERFACE			MEMORY TYPE:			
FUNCTION: MMIT (FEEDER BANK # 4) Diagnostics			NOTE: 1093H			
BIT		INPUT	BIT		OUTPUT	Definitions
0	0		0	0		
	1			1		
1	0		1	0		
	1			1		
2	0		2	0		
	1			1		
3	0		3	0		
	1			1		
4	0		4	0		
	1			1		
5	0		5	0		
	1			1		
6	0		6	0		
	1			1		
7	0		7	0		
	1			1		

Address: 1095H

PC BOARD: FEEDER INTERFACE			MEMORY TYPE: VME A16/D8			
FUNCTION: Self ID 1 (Feeder Bank # 1)			FUNCTION:			
BIT		INPUT	BIT		OUTPUT	Definitions
0	0		0	0		
	1			1		
1	0		1	0		
	1			1		
2	0		2	0		
	1			1		
3	0		3	0		
	1			1		
4	0		4	0		
	1			1		
5	0		5	0		
	1			1		
6	0		6	0		
	1			1		
7	0		7	0		
	1			1		

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Address: 1097H

PC BOARD: FEEDER INTERFACE			MEMORY TYPE: VME A16/D8			
FUNCTION: Self ID 2 (Feeder Bank # 1)			FUNCTION:			
BIT		INPUT	BIT		OUTPUT	Definitions
0	0		0	0		
	1			1		
1	0		1	0		
	1			1		
2	0		2	0		
	1			1		
3	0		3	0		
	1			1		
4	0		4	0		
	1			1		
5	0		5	0		
	1			1		
6	0		6	0		
	1			1		
7	0		7	0		
	1			1		

Address: 1099H

PC BOARD: FEEDER INTERFACE			MEMORY TYPE: VME A16/D8			
FUNCTION: Self ID 3 (Feeder Bank # 1)			FUNCTION:			
BIT		INPUT	BIT		OUTPUT	Definitions
0	0		0	0		
	1			1		
1	0		1	0		
	1			1		
2	0		2	0		
	1			1		
3	0		3	0		
	1			1		
4	0		4	0		
	1			1		
5	0		5	0		
	1			1		
6	0		6	0		
	1			1		
7	0		7	0		
	1			1		

Address: 109BH

PC BOARD: FEEDER INTERFACE			MEMORY TYPE: VME A16/D8			
FUNCTION: Self ID 4 (Feeder Bank # 1)			FUNCTION:			
BIT		INPUT	BIT		OUTPUT	Definitions
0	0		0	0		
	1			1		
1	0		1	0		
	1			1		
2	0		2	0		
	1			1		
3	0		3	0		
	1			1		
4	0		4	0		
	1			1		
5	0		5	0		
	1			1		
6	0		6	0		
	1			1		
7	0		7	0		
	1			1		

Address: 109DH

PC BOARD: FEEDER INTERFACE			MEMORY TYPE: VME A16/D8			
FUNCTION: Self ID 1 (Feeder Bank # 2)			FUNCTION:			
BIT		INPUT	BIT		OUTPUT	Definitions
0	0		0	0		
	1			1		
1	0		1	0		
	1			1		
2	0		2	0		
	1			1		
3	0		3	0		
	1			1		
4	0		4	0		
	1			1		
5	0		5	0		
	1			1		
6	0		6	0		
	1			1		
7	0		7	0		
	1			1		

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Address: 109FH

PC BOARD: FEEDER INTERFACE			MEMORY TYPE: VME A16/D8			
FUNCTION: Self ID 2 (Feeder Bank # 2)			FUNCTION:			
BIT		INPUT	BIT		OUTPUT	Definitions
0	0		0	0		
	1			1		
1	0		1	0		
	1			1		
2	0		2	0		
	1			1		
3	0		3	0		
	1			1		
4	0		4	0		
	1			1		
5	0		5	0		
	1			1		
6	0		6	0		
	1			1		
7	0		7	0		
	1			1		

Address: 10A1H

PC BOARD: FEEDER INTERFACE			MEMORY TYPE: VME A16/D8			
FUNCTION: Self ID 3 (Feeder Bank # 2)			FUNCTION:			
BIT		INPUT	BIT		OUTPUT	Definitions
0	0		0	0		
	1			1		
1	0		1	0		
	1			1		
2	0		2	0		
	1			1		
3	0		3	0		
	1			1		
4	0		4	0		
	1			1		
5	0		5	0		
	1			1		
6	0		6	0		
	1			1		
7	0		7	0		
	1			1		

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Address: 10A3H

PC BOARD: FEEDER INTERFACE			MEMORY TYPE: VME A16/D8			
FUNCTION: Self ID 4 (Feeder Bank # 2)			FUNCTION:			
BIT		INPUT	BIT		OUTPUT	Definitions
0	0		0	0		
	1			1		
1	0		1	0		
	1			1		
2	0		2	0		
	1			1		
3	0		3	0		
	1			1		
4	0		4	0		
	1			1		
5	0		5	0		
	1			1		
6	0		6	0		
	1			1		
7	0		7	0		
	1			1		

Address: 10A5H

PC BOARD: FEEDER INTERFACE			MEMORY TYPE: VME A16/D8			
FUNCTION: Self ID 1 (Feeder Bank # 3)			FUNCTION:			
BIT		INPUT	BIT		OUTPUT	Definitions
0	0		0	0		
	1			1		
1	0		1	0		
	1			1		
2	0		2	0		
	1			1		
3	0		3	0		
	1			1		
4	0		4	0		
	1			1		
5	0		5	0		
	1			1		
6	0		6	0		
	1			1		
7	0		7	0		
	1			1		

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Address: 10A7H

PC BOARD: FEEDER INTERFACE			MEMORY TYPE: VME A16/D8			
FUNCTION: Self ID 2 (Feeder Bank # 3)			FUNCTION:			
BIT		INPUT	BIT		OUTPUT	Definitions
0	0		0	0		
	1			1		
1	0		1	0		
	1			1		
2	0		2	0		
	1			1		
3	0		3	0		
	1			1		
4	0		4	0		
	1			1		
5	0		5	0		
	1			1		
6	0		6	0		
	1			1		
7	0		7	0		
	1			1		

Address: 10A9H

PC BOARD: FEEDER INTERFACE			MEMORY TYPE: VME A16/D8			
FUNCTION: Self ID 3 (Feeder Bank # 3)			FUNCTION:			
BIT		INPUT	BIT		OUTPUT	Definitions
0	0		0	0		
	1			1		
1	0		1	0		
	1			1		
2	0		2	0		
	1			1		
3	0		3	0		
	1			1		
4	0		4	0		
	1			1		
5	0		5	0		
	1			1		
6	0		6	0		
	1			1		
7	0		7	0		
	1			1		

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Address: 10ABH

PC BOARD: FEEDER INTERFACE			MEMORY TYPE: VME A16/D8			
FUNCTION: Self ID 4 (Feeder Bank # 3)			FUNCTION:			
BIT		INPUT	BIT		OUTPUT	Definitions
0	0		0	0		
	1			1		
1	0		1	0		
	1			1		
2	0		2	0		
	1			1		
3	0		3	0		
	1			1		
4	0		4	0		
	1			1		
5	0		5	0		
	1			1		
6	0		6	0		
	1			1		
7	0		7	0		
	1			1		

Address: 10ADH

PC BOARD: FEEDER INTERFACE			MEMORY TYPE: VME A16/D8			
FUNCTION: Self ID 1 (Feeder Bank # 4)			FUNCTION:			
BIT		INPUT	BIT		OUTPUT	Definitions
0	0		0	0		
	1			1		
1	0		1	0		
	1			1		
2	0		2	0		
	1			1		
3	0		3	0		
	1			1		
4	0		4	0		
	1			1		
5	0		5	0		
	1			1		
6	0		6	0		
	1			1		
7	0		7	0		
	1			1		

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Address: 10AFH

PC BOARD: FEEDER INTERFACE			MEMORY TYPE: VME A16/D8			
FUNCTION: Self ID 2 (Feeder Bank # 4)			FUNCTION:			
BIT		INPUT	BIT		OUTPUT	Definitions
0	0		0	0		
	1			1		
1	0		1	0		
	1			1		
2	0		2	0		
	1			1		
3	0		3	0		
	1			1		
4	0		4	0		
	1			1		
5	0		5	0		
	1			1		
6	0		6	0		
	1			1		
7	0		7	0		
	1			1		

Address: 10B1H

PC BOARD: FEEDER INTERFACE			MEMORY TYPE: VME A16/D8			
FUNCTION: Self ID 3 (Feeder Bank # 4)			NOTE: 10B1H (Open)			
BIT		INPUT	BIT		OUTPUT	Definitions
0	0		0	0		
	1			1		
1	0		1	0		
	1			1		
2	0		2	0		
	1			1		
3	0		3	0		
	1			1		
4	0		4	0		
	1			1		
5	0		5	0		
	1			1		
6	0		6	0		
	1			1		
7	0		7	0		
	1			1		

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Address: 10B3H

PC BOARD: FEEDER INTERFACE			MEMORY TYPE: VME A16/D8			
FUNCTION: Self ID 4 (Feeder Bank # 4)			FUNCTION:			
BIT		INPUT	BIT		OUTPUT	Definitions
0	0		0	0		
	1			1		
1	0		1	0		
	1			1		
2	0		2	0		
	1			1		
3	0		3	0		
	1			1		
4	0		4	0		
	1			1		
5	0		5	0		
	1			1		
6	0		6	0		
	1			1		
7	0		7	0		
	1			1		

Platform Tray Feeder (PTF)

Address: 1341H PTF (machine 1), 1381H PTF (machine 2)

PC BOARD: PCB, PTF CONTROL I/O ASSY				MEMORY TYPE: VME A16/D8			
FUNCTION: OPTION CONFIGURATION				NOTE: 1341, 1381			
BIT		INPUT (RD0)	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		K3 (1-2)	0	0		
	1	PTF Mounted FL / RR			1		
1	0		K3 (5-6)	1	0		
	1	PTF Mounted FR / RL			1		
2	0		K3 (9-10)	2	0		
	1	Tray Chute Mounted			1		
3	0		K3 (13-14)	3	0		
	1				1		
4	0		K3 (3-4)	4	0		
	1				1		
5	0		K3 (7-8)	5	0		
	1				1		
6	0		K3 (11-12)	6	0		
	1				1		
7	0		K3 (15-16)	0	0		
	1				1		

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Address: 1343H PTF (machine 1), 1383H PTF (machine 2)

PC BOARD: PCB, PTF CONTROL I/O ASSY				MEMORY TYPE: VME A16/D8			
FUNCTION: OPTION CONFIGURATION				NOTE: 1343, 1383			
BIT		INPUT (RD1)	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		K3 (1-2)	0	0		
	1				1		
1	0		K3 (5-6)	1	0		
	1				1		
2	0		K3 (9-10)	2	0		
	1				1		
3	0		K3 (13-14)	3	0		
	1				1		
4	0		K3 (3-4)	4	0		
	1				1		
5	0		K3 (7-8)	5	0		
	1				1		
6	0		K3 (11-12)	6	0		
	1				1		
7	0		K3 (15-16)	0	0		
	1				1		

Address: 1345H PTF (machine 1), 1385H PTF (machine 2)

PC BOARD: PCB, PTF CONTROL I/O ASSY				MEMORY TYPE: VME A16/D8			
FUNCTION: AXIS STATUS				NOTE: 1345, 1385			
BIT		INPUT (RD2)	CONN/PIN	BIT		OUTPUT (WR2)	CONN/PIN
0	0		4PL-6A	0	0		4PL-10C
	1	Pick Axis Enable			1	Pick Axis Enable	
1	0		4PL-16C	1	0		4PL-21A
	1	X Axis Enable			1	X Axis Enable	
2	0		4PL-27A	2	0		4PL-31C
	1	Y Axis Enable			1	Y Axis Enable	
3	0		5PL-6A	3	0		
	1	Elevator Axis Amplifier Normal			1		
4	0		5PL-16C	4	0		5PL-21A
	1	Pallet Axis Enable			1	Pallet Axis Enable	
5	0		5PL-27A	5	0		5PL-31C
	1	Shuttle Axis Enable			1	Shuttle Axis Enable	
6	0		6PL-6A	6	0		6PL-10C
	1	Theta Axis Enable			1	Theta Axis Enable	
7	0		6PL-16C	0	0		6PL-21A
	1	Spare Axis Enable			1	Spare Axis Enable	

Address: 1347H PTF (machine 1), 1387H PTF (machine 2)

PC BOARD: PCB, PTF CONTROL I/O ASSY				MEMORY TYPE: VME A16/D8			
FUNCTION: PICKER AXIS STATUS				NOTE: 1347, 1387			
BIT		INPUT (RD3)	CONN/PIN	BIT		OUTPUT (WR3)	CONN/PIN
0	0	Picker Axis (Input 1)	4PL-1A	0	0		4PL-6C
	1				1	Picker Axis (Spare 1)	
1	0	Picker Axis (Input 2)	4PL-1C	1	0		4PL-7A
	1				1	Picker Axis (Spare 2)	
2	0	Picker Axis Fault	4PL-2A	2	0		4PL-7C
	1				1	Picker Axis (Spare 3)	
3	0		4PL-2C/22PL-4	3	0		4PL-8A
	1	Picker Axis Up/Home			1	Picker Axis Output 1	
4	0		4PL-3A/22PL-5	4	0		4PL-8C
	1	Picker Axis Impact			1	Picker Axis Output 2	
5	0		4PL-3C	5	0		4PL-9A
	1	Picker Axis Output 3			1	Picker Axis Output 3	
6	0		4PL-4A	6	0		4PL-9C
	1	Picker Axis Output 4			1	Picker Axis Output 4	
7	0		4PL-4C	0	0		4PL-10A
	1	Picker Axis Output 5			1	Picker Axis Output 5	

Address: 1349H PTF (machine 1), 1389H PTF (machine 2)

PC BOARD: PCB, PTF CONTROL I/O ASSY				MEMORY TYPE: VME A16/D8			
FUNCTION: X AXIS STATUS				NOTE: 1349, 1389			
BIT		INPUT (RD4)	CONN/PIN	BIT		OUTPUT (WR4)	CONN/PIN
0	0	X Axis (Input 1)	4PL-11C	0	0		4PL-17A
	1				1	X Axis (Spare 1)	
1	0	X Axis (Input 2)	4PL-12A	1	0		4PL-17C
	1				1	X Axis (Spare 2)	
2	0	X Axis Fault	4PL-12C	2	0		4PL-18A
	1				1	X Axis (Spare 3)	
3	0		4PL-13A	3	0		4PL-18C
	1	X Axis Home			1	X Axis Output 1	
4	0		4PL-13C	4	0		4PL-19A
	1	X Axis Output 2			1	X Axis Output 2	
5	0		4PL-14A	5	0		4PL-19C
	1	X Axis Output 3			1	X Axis Output 3	
6	0		4PL-14C	6	0		4PL-20A
	1	X Axis Output 4			1	X Axis Output 4	
7	0		4PL-15A	0	0		4PL-20C
	1	X Axis Output 5			1	X Axis Output 5	

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Address: 134BH PTF (machine 1), 138BH PTF (machine 2)

PC BOARD: PCB, PTF CONTROL I/O ASSY				MEMORY TYPE: VME A16/D8			
FUNCTION: Y AXIS STATUS				NOTE: 134B, 138B			
BIT		INPUT (RD5)	CONN/PIN	BIT		OUTPUT (WR5)	CONN/PIN
0	0	Y Axis (Input 1)	4PL-22A	0	0		4PL-27C
	1				1	X Axis (Spare 1)	
1	0	Y Axis (Input 2)	4PL-22C	1	0		4PL-28A
	1				1	X Axis (Spare 2)	
2	0	Y Axis Fault	4PL-23A	2	0		4PL-28C
	1				1	X Axis (Spare 3)	
3	0		4PL-23C	3	0		4PL-29A
	1	Y Axis Home			1	X Axis Output 1	
4	0		4PL-24A	4	0		4PL-29C
	1	Y Axis Output 2			1	X Axis Output 2	
5	0		4PL-24C	5	0		4PL-30A
	1	Y Axis Output 3			1	X Axis Output 3	
6	0		4PL-25A	6	0		4PL-30C
	1	Y Axis Output 4			1	X Axis Output 4	
7	0		4PL-25C	0	0		4PL-31A
	1	Y Axis Output 5			1	X Axis Output 5	

Address: 134DH PTF (machine 1), 138DH PTF (machine 2)

PC BOARD: PCB, PTF CONTROL I/O ASSY				MEMORY TYPE: VME A16/D8			
FUNCTION: ELEVATOR AXIS				NOTE: 134D, 138D			
BIT		INPUT (RD6)	CONN/PIN	BIT		OUTPUT (WR6)	CONN/PIN
0	0	Elevator Axis (Input 1)	5PL-1A	0	0		5PL-6C
	1				1	Elevator Axis (Spare 1)	
1	0	Elevator Axis (Input 2)	5PL-1C	1	0		5PL-7A
	1				1	Elevator Axis (Spare 2)	
2	0		5PL-2A	2	0		5PL-7C
	1	Elevator Axis Enabled			1	Elevator Axis (Spare 3)	
3	0		5PL-2C	3	0		5PL-8A
	1	Elevator Axis Home			1	Elevator Axis Output 1	
4	0		5PL-3A	4	0		5PL-8C
	1	Elevator Axis Output 2			1	Elevator Axis Output 2	
5	0		5PL-3C	5	0		5PL-9A
	1	Elevator Axis Output 3			1	Elevator Axis Output 3	
6	0		5PL-4A	6	0		5PL-9C
	1	Elevator Axis Output 4			1	Elevator Axis Output 4	
7	0		5PL-4C	0	0		5PL-10A
	1	Elevator Axis Output 5			1	Elevator Axis Output 5	

Address: 134FH PTF (machine 1), 138FH PTF (machine 2)

PC BOARD: PCB, PTF CONTROL I/O ASSY				MEMORY TYPE: VME A16/D8			
FUNCTION: PALLET AXIS				NOTE: 134F, 138F			
BIT		INPUT (RD7)	CONN/PIN	BIT		OUTPUT (WR7)	CONN/PIN
0	0	Pallet Axis (Input 1)	5PL-11C	0	0		5PL-17A
	1				1	Pallet Axis (Spare 1)	
1	0	Pallet Axis (Input 2)	5PL-12A	1	0		5PL-17C
	1				1	Pallet Axis (Spare 2)	
2	0	Pallet Axis Fault	5PL-12C	2	0		5PL-18A
	1				1	Pallet Axis (Spare 3)	
3	0		5PL-13A	3	0		5PL-18C
	1	Pallet Axis Home			1	Pallet Axis Output 1	
4	0		5PL-13C	4	0		5PL-19A
	1	Pallet Axis Output 2			1	Pallet Axis Output 2	
5	0		5PL-14A	5	0		5PL-19C
	1	Pallet Axis Output 3			1	Pallet Axis Output 3	
6	0		5PL-14C	6	0		5PL-20A
	1	Pallet Axis Output 4			1	Pallet Axis Output 4	
7	0		5PL-15A	0	0		5PL-20C
	1	Pallet Axis Output 5			1	Pallet Axis Output 5	

Address: 1351H PTF (machine 1), 1391H PTF (machine 2)

PC BOARD: PCB, PTF CONTROL I/O ASSY				MEMORY TYPE: VME A16/D8			
FUNCTION: SHUTTLE AXIS				NOTE: 1351, 1391			
BIT		INPUT (RD8)	CONN/PIN	BIT		OUTPUT (WR8)	CONN/PIN
0	0	Shuttle Axis (Input 1)	5PL-22A	0	0		5PL-27C
	1				1	Shuttle Axis (Spare 1)	
1	0	Shuttle Axis (Input 2)	5PL-22C	1	0		5PL-28A
	1				1	Shuttle Axis (Spare 2)	
2	0	Shuttle Axis Fault	5PL-23A	2	0		5PL-28C
	1				1	Shuttle Axis (Spare 3)	
3	0		5PL-23C	3	0		5PL-29A
	1	Shuttle Axis Output 1			1	Shuttle Axis Output 1	
4	0		5PL-24A	4	0		5PL-29C
	1	Shuttle Axis Output 2			1	Shuttle Axis Output 2	
5	0		5PL-24C	5	0		5PL-30A
	1	Shuttle Axis Output 3			1	Shuttle Axis Output 3	
6	0		5PL-25A	6	0		5PL-30C
	1	Shuttle Axis Output 4			1	Shuttle Axis Output 4	
7	0		5PL-25C	0	0		5PL-31A
	1	Shuttle Axis Output 5			1	Shuttle Axis Output 5	

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Address: 1353H PTF (machine 1), 1393H PTF (machine 2)

PC BOARD: PCB, PTF CONTROL I/O ASSY				MEMORY TYPE: VME A16/D8			
FUNCTION: THETA AXIS				NOTE: 1353, 1393			
BIT		INPUT (RD9)	CONN/PIN	BIT		OUTPUT (WR9)	CONN/PIN
0	0	Theta Axis (Input 1)	6PL-1A	0	0		6PL-6C
	1				1	Theta Axis (Spare 1)	
1	0	Theta Axis (Input 2)	6PL-1C	1	0		6PL-7A
	1				1	Theta Axis (Spare 2)	
2	0	Theta Axis Fault	6PL-2A	2	0		6PL-7C
	1				1	Theta Axis (Spare 3)	
3	0		8PL-4/6PL-2C	3	0		6PL-8A
	1	Theta Axis Home			1	Theta Axis Output 1	
4	0		6PL-3A	4	0		6PL-8C
	1	Theta Axis Output 2			1	Theta Axis Output 2	
5	0		6PL-3C	5	0		6PL-9A
	1	Theta Axis Output 3			1	Theta Axis Output 3	
6	0		6PL-4A	6	0		6PL-9C
	1	Theta Axis Output 4			1	Theta Axis Output 4	
7	0		6PL-4C	0	0		6PL-10A
	1	Theta Axis Output 5			1	Theta Axis Output 5	

Address: 1355H PTF (machine 1), 1395H PTF (machine 2)

PC BOARD: PCB, PTF CONTROL I/O ASSY				MEMORY TYPE: VME A16/D8			
FUNCTION: SPARE AXIS				NOTE: 1355, 1395			
BIT		INPUT (RDA)	CONN/PIN	BIT		OUTPUT (WR10)	CONN/PIN
0	0	Spare Axis (Input 1)	6PL-11C	0	0		6PL-17A
	1				1	Spare Axis (Spare 1)	
1	0	Spare Axis (Input 2)	6PL-12A	1	0		6PL-17C
	1				1	Spare Axis (Spare 2)	
2	0	Spare Axis Fault	6PL-12C	2	0		6PL-18A
	1				1	Spare Axis (Spare 3)	
3	0		6PL-13A	3	0		6PL-18C
	1	Spare Axis Output 1			1	Spare Axis Output 1	
4	0		6PL-13C	4	0		6PL-19A
	1	Spare Axis Output 2			1	Spare Axis Output 2	
5	0		6PL-14A	5	0		6PL-19C
	1	Spare Axis Output 3			1	Spare Axis Output 3	
6	0		6PL-14C	6	0		6PL-20A
	1	Spare Axis Output 4			1	Spare Axis Output 4	
7	0		6PL-15A	0	0		6PL-20C
	1	Spare Axis Output 5			1	Spare Axis Output 5	

Address: 1357H PTF (machine 1), 1397H PTF (machine 2)

PC BOARD: PCB, PTF CONTROL I/O ASSY				MEMORY TYPE: VME A16/D8			
FUNCTION: Magazine/Pallet Sense Status & Indicators				NOTE: 1357, 1397			
BIT		INPUT (RDB)	CONN/PIN	BIT		OUTPUT (WR11)	CONN/PIN
0	0		2PL-19	0	0		2PL-37
	1	Location 1 in Position			1	Location 1 Empty	
1	0		2PL-18	1	0		2PL-36
	1	Location 2 in Position			1	Location 2 Empty	
2	0		2PL-17	2	0		2PL-35
	1	Location 3 in Position			1	Location 3 Empty	
3	0		2PL-16	3	0		2PL-34
	1	Location 4 in Position			1	Location 4 Empty	
4	0		2PL-15	4	0		2PL-33
	1	Location 5 in Position			1	Location 5 Empty	
5	0		2PL-14	5	0		2PL-32
	1	Location 6 in Position			1	Location 6 Empty	
6	0		2PL-13	6	0		2PL-31
	1	Location 7 in Position			1	Location 7 Empty	
7	0		2PL-12	0	0		2PL-30
	1	Location 8 in Position			1	Location 8 Empty	

Address: 1359H PTF (machine 1), 1399H PTF (machine 2)

PC BOARD: PCB, PTF CONTROL I/O ASSY				MEMORY TYPE: VME A16/D8			
FUNCTION: Magazine/Pallet Sense Status & Indicators				NOTE: 1359, 1399			
BIT		INPUT (RDC)	CONN/PIN	BIT		OUTPUT (WR12)	CONN/PIN
0	0		2PL-11	0	0		2PL-29
	1	Location 9 in Position			1	Location 9 Empty	
1	0		2PL-10	1	0		2PL-28
	1	Location 10 in Position			1	Location 10 Empty	
2	0		2PL-9	2	0		2PL-27
	1	Location 11 in Position			1	Location 11 Empty	
3	0		2PL-8	3	0		2PL-26
	1	Location 12 in Position			1	Location 12 Empty	
4	0		2PL-7	4	0		2PL-25
	1	Location 13 in Position			1	Location 13 Empty	
5	0		2PL-6	5	0		2PL-24
	1	Location 14 in Position			1	Location 14 Empty	
6	0		2PL-5	6	0		2PL-23
	1	Location 15 in Position			1	Location 15 Empty	
7	0		2PL-1	0	0		
	1	Spare			1	Spare	

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Address: 135BH PTF (machine 1), 139BH PTF (machine 2)

PC BOARD: PCB, PTF CONTROL I/O ASSY				MEMORY TYPE: VME A16/D8			
FUNCTION: Magazine/Pallet Sense Status & Indicators				NOTE: 135B, 139B			
BIT		INPUT (RDD)	CONN/PIN	BIT		OUTPUT (WR13)	CONN/PIN
0	0		3PL-19	0	0		3PL-37
	1	Location 16 in Position			1	Location 16 Empty	
1	0		3PL-18	1	0		3PL-36
	1	Location 17 in Position			1	Location 17 Empty	
2	0		3PL-17	2	0		3PL-35
	1	Location 18 in Position			1	Location 18 Empty	
3	0		3PL-16	3	0		3PL-34
	1	Location 19 in Position			1	Location 19 Empty	
4	0		3PL-15	4	0		3PL-33
	1	Location 20 in Position			1	Location 20 Empty	
5	0		3PL-14	5	0		3PL-32
	1	Location 21 in Position			1	Location 21 Empty	
6	0		3PL-13	6	0		3PL-31
	1	Location 22 in Position			1	Location 22 Empty	
7	0		3PL-12	0	0		3PL-30
	1	Location 23 in Position			1	Location 23 Empty	

Address: 135DH PTF (machine 1), 139DH PTF (machine 2)

PC BOARD: PCB, PTF CONTROL I/O ASSY				MEMORY TYPE: VME A16/D8			
FUNCTION: Magazine/Pallet Sense Status & Indicators				NOTE: 135D, 139D			
BIT		INPUT (RDE)	CONN/PIN	BIT		OUTPUT (WR14)	CONN/PIN
0	0		3PL-11	0	0		3PL-29
	1	Location 24 in Position			1	Location 24 Empty	
1	0		3PL-10	1	0		3PL-28
	1	Location 25 in Position			1	Location 25 Empty	
2	0		3PL-9	2	0		3PL-27
	1	Location 26 in Position			1	Location 26 Empty	
3	0		3PL-8	3	0		3PL-26
	1	Location 27 in Position			1	Location 27 Empty	
4	0		3PL-7	4	0		3PL-25
	1	Location 28 in Position			1	Location 28 Empty	
5	0		3PL-6	5	0		3PL-24
	1	Location 29 in Position			1	Location 29 Empty	
6	0		3PL-5	6	0		2PL-2
	1	Spare			1	Operator Gate Open	
7	0		3PL-1	0	0		
	1	Spare			1	Spare	

Address: 1361H PTF (machine 1), 13A1H PTF (machine 2)

PC BOARD: PCB, PTF CONTROL I/O ASSY				MEMORY TYPE: VME A16/D8			
FUNCTION: AXIS STATUS				NOTE: 1361, 13A1			
BIT		INPUT (RD10)	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		4PL-5A	0	0		
	1	Picker Axis CW Limit			1		
1	0		4PL-5C	1	0		
	1	Picker Axis CCW Limit			1		
2	0	X Axis + Limit/Home	4PL-15C	2	0		
	1				1		
3	0	X Axis - Limit	4PL-16A	3	0		
	1				1		
4	0	Y Axis + Limit/Home	4PL-26A	4	0		
	1				1		
5	0	Y Axis - Limit	4PL-26C	5	0		
	1				1		
6	0	Elev Axis + Limit	5PL-5A	6	0		
	1				1		
7	0	Elev Axis - Limit	5PL-5C	0	0		
	1				1		

Address: 1363H PTF (machine 1), 13A3H PTF (machine 2)

PC BOARD: PCB, PTF CONTROL I/O ASSY				MEMORY TYPE: VME A16/D8			
FUNCTION: AXIS STATUS				NOTE: 1363, 13A3			
BIT		INPUT (RD11)	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		5PL-15C	0	0		
	1	Pallet Axis CW Limit			1		
1	0		5PL-16A	1	0		
	1	Pallet Axis CCW Limit			1		
2	0		5PL-26A	2	0		
	1	Shuttle Axis CW Limit			1		
3	0		5PL-26C	3	0		
	1	Shuttle Axis CCW Limit			1		
4	0		6PL-5A	4	0		
	1	Spare 1 CW Limit			1		
5	0		6PL-5C	5	0		
	1	Spare 1 CW Limit			1		
6	0		6PL-15C	6	0		
	1	Spare 2 CW Limit			1		
7	0		6PL-16A	0	0		
	1	Spare 2 CW Limit			1		

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Address: 1365H PTF (machine 1), 13A5H PTF (machine 2)

PC BOARD: PCB, PTF CONTROL I/O ASSY				MEMORY TYPE: VME A16/D8			
FUNCTION: General Inputs/Outputs				NOTE: 1365, 13A5			
BIT		INPUT (RD12)	CONN/PIN	BIT		OUTPUT (WR12)	CONN/PIN
0	0		8PL-13	0	0		8PL-20
	1	Picker Up/Home			1	Tray Removal Extend	
1	0		8PL-14	1	0		8PL-21
	1	Component Vacuum Sense			1	Tray Removal Vacuum	
2	0		8PL-15	2	0		8PL-22
	1	Tray Removal Up			1	Picker Vacuum	
3	0		8PL-16	3	0		8PL-23
	1	Picker Impact			1	Picker Air Kiss	
4	0		8PL-17	4	0		8PL-24
	1	Tray Removal Vacuum Sense			1	Spare	
5	0		8PL-18	5	0		8PL-32
	1	Pallet in Position			1	Spare	
6	0		8PL-19	6	0		8PL-33
	1	Pallet Pins Out			1	Tray Removal Air Kiss	
7	0		8PL-25	7	0		8PL-34
	1	Pallet Pins Out			1	Spare	

Address: 1367H PTF (machine 1), 13A7H PTF (machine 2)

PC BOARD: PCB, PTF CONTROL I/O ASSY				MEMORY TYPE: VME A16/D8			
FUNCTION: General Inputs/Outputs				NOTE: 1367, 13A7			
BIT		INPUT (RD13)	CONN/PIN	BIT		OUTPUT (WR13)	CONN/PIN
0	0		1PL-4	0	0		1PL-11
	1	60V Power Active			1	Piz Enable	
1	0		1PL-6	1	0		8PL-35
	1	60V Pilz Active			1	Spare	
2	0		1PL-8	2	0		8PL-36
	1	24V Power Active			1	Spare	
3	0		1PL-9	3	0		8PL-37
	1	24V Pilz Active			1	Spare	
4	0			4	0		8PL-38
	1	Switched 24V Active			1	Spare	
5	0		8PL-26	5	0		8PL-39
	1	Magazine Gate Closed			1	Spare	
6	0		8PL-27	6	0		8PL-40
	1	Low Air Sensed			1	Spare	
7	0		8PL-28	7	0		8PL-41
	1	Tray Chute Sensed			1	Spare	

Address: 1369H PTF (machine 1), 13A9H PTF (machine 2)

PC BOARD: PCB, PTF CONTROL I/O ASSY				MEMORY TYPE: VME A16/D8			
FUNCTION: General Inputs/Outputs				NOTE: 1369, 13A9			
BIT		INPUT (RD14)	CONN/PIN	BIT		OUTPUT (WR14)	CONN/PIN
0	0		8PL-6	0	0		8PL-7
	1	Start			1	Start Indicator	
1	0		8PL-8	1	0		8PL-9
	1	Error Service			1	Stop Indicator	
2	0		8PL-10	2	0		8PL-11
	1	Load Feeder			1	Load Feeder Indicator	
3	0		8PL-3	3	0		8PL-2
	1	Brake Relay On			1	Brake on	
4	0		8PL-5	4	0		8PL-4
	1	Door Violated			1	Door Latch	
5	0		8PL-1	5	0		8PL-12
	1	E-Stop			1	Cycle Counter	
6	0		8PL-29	6	0		8PL-42
	1	Theta Home			1	Cover Latch	
7	0		8PL-30	7	0		8PL-43
	1	Theta Axis Mounted			1	Magazine Gate	

Address: 136BH PTF (machine 1), 13ABH PTF (machine 2)

PC BOARD: PCB, PTF CONTROL I/O ASSY				MEMORY TYPE: VME A16/D8			
FUNCTION: General Inputs/Outputs				NOTE: 136B, 13AB			
BIT		INPUT (RD15)	CONN/PIN	BIT		OUTPUT (WR15)	CONN/PIN
0	0		10PL-1	0	0		10PL-9
	1	Spare			1	Spare	
1	0		10PL-2	1	0		10PL-10
	1	Spare			1	Spare	
2	0		10PL-3	2	0		10PL-11
	1	Spare			1	Spare	
3	0		10PL-4	3	0		10PL-12
	1	Spare			1	Spare	
4	0		10PL-5	4	0		10PL-13
	1	Spare			1	Spare	
5	0		10PL-6	5	0		10PL-14
	1	Spare			1	Spare	
6	0		10PL-7	6	0		10PL-15
	1	Spare			1	Spare	
7	0		10PL-8	7	0		10PL-16
	1	Spare			1	Spare	

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Address: 136FH PTF (machine 1), 13AFH PTF (machine 2)

PC BOARD: PCB, PTF CONTROL I/O ASSY				MEMORY TYPE: VME A16/D8			
FUNCTION: Diagnostic MMIT				NOTE: 136F, 13AF			
BIT		INPUT (RD17)	CONN/PIN	BIT		OUTPUT (WR17)	CONN/PIN
0	0			0	0		
	1	Diagnostic Read, Bit 0			1	Diagnostic Write, Bit 0	
1	0			1	0		
	1	Diagnostic Read, Bit 1			1	Diagnostic Write, Bit 1	
2	0			2	0		
	1	Diagnostic Read, Bit 2			1	Diagnostic Write, Bit 2	
3	0			3	0		
	1	Diagnostic Read, Bit 3			1	Diagnostic Write, Bit 3	
4	0			4	0		
	1	Diagnostic Read, Bit 4			1	Diagnostic Write, Bit 4	
5	0			5	0		
	1	Diagnostic Read, Bit 5			1	Diagnostic Write, Bit 5	
6	0			6	0		
	1	Diagnostic Read, Bit 6			1	Diagnostic Write, Bit 6	
7	0			7	0		
	1	Diagnostic Read, Bit 7			1	Diagnostic Write, Bit 7	

HP AMP Interface - GSMx, GSMxs

Address: 1101H, Location: HP1, Slot: PC4

PC BOARD: DSP CONTROLLER				MEMORY TYPE: VME A16/D8			
FUNCTION:				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1				1		
1	0			1	0		
	1				1		
2	0			2	0		
	1				1		
3	0			3	0		
	1				1		
4	0			4	0		
	1				1		
5	0			5	0		
	1				1		
6	0			6	0		
	1				1		
7	0			7	0		
	1				1		

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Address: 1103H, Location: HP1, Slot: PC4

PC BOARD: HP AMP INTERFACE				MEMORY TYPE: VME A16/D8			
FUNCTION:				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1				1		
1	0			1	0		
	1				1		
2	0			2	0		
	1				1		
3	0			3	0		
	1				1		
4	0			4	0		
	1				1		
5	0			5	0		
	1	Machine E-Stopped			1		
6	0			6	0		
	1				1		
7	0			7	0		
	1				1		

Address: 1105H, Location: HP1, Slot: PC4

PC BOARD: HP AMP INTERFACE				MEMORY TYPE: VME A16/D8			
FUNCTION: HP				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1				1		
1	0			1	0		
	1				1		
2	0			2	0		
	1				1		
3	0			3	0		
	1				1		
4	0			4	0		
	1				1		
5	0			5	0		
	1				1		
6	0			6	0		
	1				1		
7	0			7	0		
	1				1		

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Address: 1107H, Location: SMT, Slot: HPC

PC BOARD: HP AMP INTERFACE MEMORY TYPE: VME A16/D8

FUNCTION: HP CHASSIS NOTE:

BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1				1		
1	0			1	0		
	1				1		
2	0			2	0		
	1				1		
3	0			3	0		
	1				1		
4	0			4	0		
	1				1		
5	0			5	0		
	1				1		
6	0			6	0		
	1	Interlock Violation			1		
7	0			7	0		
	1				1		

Address: 1109H, Location: SMT, Slot: HPC

PC BOARD: HP AMP INTERFACE MEMORY TYPE: VME A16/D8

FUNCTION: HP CHASSIS NOTE:

BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1				1		
1	0			1	0		
	1				1		
2	0			2	0		
	1				1		
3	0			3	0		
	1				1		
4	0			4	0		
	1				1		
5	0			5	0		
	1				1		
6	0			6	0		
	1				1		
7	0			7	0		
	1				1		

Address: 110FH, Location: HP1, Slot: PC4 - NA for AdVantis

PC BOARD: HP AMP INTERFACE **MEMORY TYPE: VME A16/D8**

FUNCTION: DIAGNOSTIC BYTE **NOTE:**

BIT	INPUT	CONN/PIN	BIT	OUTPUT	CONN/PIN
0	Reads Diagnostic Byte		0	Writes Diagnostic Byte	
1			1		
2			2		
3			3		
4			4		
5			5		
6			6		
7			7		

FAW Assignment 44936601 Rev. Y

HP Amp Interface - GSM

Address: 1101H, Location: HP1, Slot: PC4

PC BOARD: HP AMP INTERFACE				MEMORY TYPE: VME A16/D8			
FUNCTION: POWER SUPPLY FAULTS				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P1-7	0	0		P1-3
	1	Shunt Fault PS#1			1	Reset Faults #1	
1	0		P1-8	1	0		P1-13
	1	Bus Fault PS#1			1	Reset Faults #2	
2	0		P1-9	2	0		
	1	Over Temp Fault PS#1			1		
3	0		P1-10	3	0		
	1	Pwr Supply Fault PS#1			1		
4	0		P1-17	4	0		
	1	Shunt Fault PS#2			1		
5	0		P1-18	5	0		
	1	Bus Fault PS#2			1		
6	0		P1-19	6	0		
	1	Over Temp Fault PS#2			1		
7	0		P1-20	7	0		
	1	Pwr Supply Fault PS#2			1		

Address: 1101H, Location: HP1, Slot: PC4 - AdVantis

PC BOARD: HP AMP INTERFACE				MEMORY TYPE: VME A16/D8			
FUNCTION: POWER SUPPLY FAULTS				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		P1-3
	1				1	Reset Faults - X	
1	0			1	0		YR-Amp 6
	1				1	Reset Faults - YR	
2	0			2	0		YL-Amp 6
	1				1	Reset Faults - YL	
3	0		X-Amp 7	3	0		
	1	X Amp Fault			1		
4	0			4	0		
	1				1		
5	0			5	0		
	1				1		
6	0			6	0		
	1				1		
7	0		YL-Amp 7	7	0		
	1	YL Amp Fault			1		

Address: 1103H, Location: HP1, Slot: PC4

PC BOARD: HP AMP INTERFACE				MEMORY TYPE: VME A16/D8			
FUNCTION: AXIS FAULTS				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P2-8	0	0		
	1	Fault X1 Amp			1		
1	0		P2-9	1	0		
	1	Over Temp X1			1		
2	0			2	0		
	1				1		
3	0		P2-19	3	0		
	1	Fault Y1 Amp			1		
4	0		P2-20	4	0		
	1	Over Temp Y1			1		
5	0		P14-9	5	0		
	1	Machine E-Stopped			1		
6	0	U36-1 Closed		6	0		
	1	U36-1 Open			1		
7	0	U36-2 Closed		7	0		
	1	U36-2 Open			1		

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Address: 1103H, Location: HP1, Slot: PC4 - AdVantis

PC BOARD: HP AMP INTERFACE				MEMORY TYPE: VME A16/D8			
FUNCTION: AXIS FAULTS				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		X-Amp 7	0	0		
	1	Fault X Amp			1		
1	0			1	0		
	1				1		
2	0			2	0		
	1				1		
3	0		YR-Amp 7	3	0		
	1	Fault YR Amp			1		
4	0			4	0		
	1				1		
5	0		AC-Intf 9	5	0		
	1	Machine E-Stopped			1		
6	0			6	0		
	1	Tied "1"			1		
7	0			7	0		
	1	Tied "1"			1		

Address: 1105H, Location: HP1, Slot: PC4

PC BOARD: HP AMP INTERFACE				MEMORY TYPE: VME A16/D8			
FUNCTION: HP CHASSIS				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P3-8	0	0		
	1	Fault X2 Amp			1		
1	0		P3-9	1	0		
	1	Over Temp X2			1		
2	0			2	0		
	1				1		
3	0		P3-19	3	0		
	1	Fault Y2 Amp			1		
4	0		P3-20	4	0		
	1	Over Temp Y2			1		
5	0		P14-9	5	0		
	1	Machine E-Stopped			1		
6	0	U36-3 Closed		6	0		
	1	U36-3 Open			1		
7	0	U36-4 Closed		7	0		
	1	U36-4 Open			1		

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Address: 1105H, Location: HP1, Slot: PC4 - AdVantis

PC BOARD: HP AMP INTERFACE				MEMORY TYPE: VME A16/D8			
FUNCTION: HP CHASSIS				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1	Tied "1"			1		
1	0			1	0		
	1	Tied "1"			1		
2	0			2	0		
	1	Tied "1"			1		
3	0			3	0		
	1				1		
4	0			4	0		
	1				1		
5	0		AC-Intf 9	5	0		
	1	Machine E-Stopped			1		
6	0			6	0		
	1	Tied "1"			1		
7	0			7	0		
	1	Tied "1"			1		

Address: 1107H, Location: SMT, Slot: HPC

PC BOARD: HP AMP INTERFACE				MEMORY TYPE: VME A16/D8			
FUNCTION: HP CHASSIS				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0	S3: 1-2 In		0	0		
	1	S3: 1-2 Out			1		
1	0	DB Drive Relay On X1		1	0		
	1				1		
2	0	DB Drive Relay On Y1		2	0		
	1				1		
3	0			3	0		
	1	Y1 EOBT Open			1		
4	0	S3: 3-4 In		4	0		
	1	S3: 3-4 Out			1		
5	0	S3: 5-6 In		5	0		
	1	S3: 5-6 Out			1		
6	0		P14-5	6	0		
	1	Interlock Violation			1		
7	0	S3: 11-12 In		7	0		
	1	S3: 11-12 Out			1		

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Address: 1107H, Location: SMT, Slot: HPC - AdVantis

PC BOARD: HP AMP INTERFACE				MEMORY TYPE: VME A16/D8			
FUNCTION: HP CHASSIS				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1				1		
1	0	AMP Relay Active		1	0		
	1				1		
2	0	AMP Relay Active		2	0		
	1				1		
3	0			3	0		
	1				1		
4	0			4	0		
	1				1		
5	0			5	0		
	1				1		
6	0		AC-Intf 5	6	0		
	1	Interlock Violation			1		
7	0			7	0		
	1				1		

Address: 1109H, Location: SMT, Slot: HPC - NA for AdVantis

PC BOARD: HP AMP INTERFACE				MEMORY TYPE: VME A16/D8			
FUNCTION: HP CHASSIS				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0	S3: 1-2 In		0	0		
	1	S3: 1-2 Out			1		
1	0	DB Drive Relay On X2		1	0		
	1				1		
2	0	DB Drive Relay On Y2		2	0		
	1				1		
3	0			3	0		
	1	Y2 EOBT Open			1		
4	0	S3: 9-10 In		4	0		
	1	S3: 9-10 Out			1		
5	0	S3: 7-8 In		5	0		
	1	S3: 7-8 Out			1		
6	0		P14-5	6	0		
	1	Interlock Violation			1		
7	0			7	0		
	1				1		

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Address: 110FH, Location: HP1, Slot: PC4

PC BOARD: HP AMP INTERFACE			MEMORY TYPE: VME A16/D8		
FUNCTION: DIAGNOSTIC BYTE			NOTE:		
BIT	**INPUT**	**CONN/PIN**	**BIT**	**OUTPUT**	**CONN/PIN**
0	Reads Diagnostic Byte		0	Writes Diagnostic Byte	
1			1		
2			2		
3			3		
4			4		
5			5		
6			6		
7			7		

FAW Assignment 44936601 Rev. Y

Themis Axis Controller

Address: 800101H, Location: VME1, Slot: PC11 - NA for AdVantis

PC BOARD: AXIS CONTROLLER, THEMIS			MEMORY TYPE: LOCAL		
FUNCTION: 8 BIT DAC OUTPUTS			NOTE:		
BIT	INPUT	CONN/PIN	BIT	OUTPUT	CONN/PIN
0			0	PEC Inner Ring	P2-A26
1			1		
2			2		
3			3		
4			4		
5			5		
6			6		
7			7		

Address: 800501H, Location: VME1, Slot: PC11

PC BOARD: AXIS CONTROLLER, THEMIS			MEMORY TYPE: LOCAL		
FUNCTION: 8 BIT DAC OUTPUTS			NOTE:		
BIT	INPUT	CONN/PIN	BIT	OUTPUT	CONN/PIN
0			0	PEC Outer Ring	P2-C27
1			1		
2			2		
3			3		
4			4		
5			5		
6			6		
7			7		

Address: 800901H, Location: VME1, Slot: PC11

PC BOARD: AXIS CONTROLLER, THEMIS			MEMORY TYPE: LOCAL		
FUNCTION: 8 BIT DAC OUTPUTS			NOTE:		
BIT	INPUT	CONN/PIN	BIT	OUTPUT	CONN/PIN
0			0	PEC Inner Ring	P2-A27
1			1		
2			2		
3			3		
4			4		
5			5		
6			6		
7			7		

Address: 800D01H, Location: VME1, Slot: PC11

PC BOARD: AXIS CONTROLLER, THEMIS			MEMORY TYPE: LOCAL		
FUNCTION: 8 BIT DAC OUTPUTS			NOTE:		
BIT	INPUT	CONN/PIN	BIT	OUTPUT	CONN/PIN
0			0	PEC Outer Ring	P2-C28
1			1		
2			2		
3			3		
4			4		
5			5		
6			6		
7			7		

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Address: 8001D7H, Location: VME1, Slot: PC11

PC BOARD: AXIS CONTROLLER, THEMIS				MEMORY TYPE: LOCAL			
FUNCTION: X/Y LIMITS				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P2-17A	0	0		
	1	X1 Positive Limit			1		
1	0		P2-17C	1	0		
	1	X1 Negative Limit			1		
2	0		P2-18A	2	0		
	1	Y1 Positive Limit			1		
3	0		P2-18C	3	0		
	1	Y1 Negative Limit			1		
4	0		P2-19A	4	0		
	1	X2 Positive Limit			1		
5	0		P2-19C	5	0		
	1	X2 Negative Limit			1		
6	0		P2-20A	6	0		
	1	Y2 Positive Limit			1		
7	0		P2-20C	7	0		
	1	Y2 Negative Limit			1		

Address: 8001D5H, Location: VME1, Slot: PC12

PC BOARD: AXIS CONTROLLER, THEMIS				MEMORY TYPE: LOCAL			
FUNCTION: MISC INPUTS/FRONT HEAD BEAM 1				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P2-13A	0	0		
	1	Board Clear Sensor			1		
1	0		P2-13C	1	0		
	1	Board In Position Sensor			1		
2	0		P2-14A	2	0		
	1				1		
3	0		P2-14C	3	0		
	1				1		
4	0	Front Head, Beam 1 Z Impact Spindle 1	P2-15A	4	0		
	1				1		
5	0	Front Head, Beam 1 Z Impact Spindle 2	P2-15C	5	0		
	1				1		
6	0	Front Head, Beam 1 Z Impact Spindle 3	P2-16A	6	0		
	1				1		
7	0	Front Head, Beam 1 Z Impact Spindle 4	P2-16C	7	0		
	1				1		

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Address: 8001D7H, Location: VME1, Slot: PC12

PC BOARD: AXIS CONTROLLER, THEMIS				MEMORY TYPE: LOCAL			
FUNCTION: L.P. LIMITS				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1				1		
1	0			1	0		
	1				1		
2	0		P2-18A	2	0		
	1	PWC Positive Limit			1		
3	0		P2-18C	3	0		
	1	PWC Negative Limit			1		
4	0			4	0		
	1				1		
5	0			5	0		
	1				1		
6	0			6	0		
	1				1		
7	0			7	0		
	1				1		

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Address: 8001D5H, Location: VME1, Slot: PC13

PC BOARD: AXIS CONTROLLER, THEMIS				MEMORY TYPE: LOCAL			
FUNCTION: REAR HEAD BEAM 1 AND 2				NOTE:			
BIT		**INPUT**	**CONN/PIN**	**BIT**		**OUTPUT**	**CONN/PIN**
0	0		P2-13A	0	0		
	1	Rear Head, Beam 1 Z Impact Spindle 1			1		
1	0		P2-13C	1	0		
	1	Rear Head, Beam 1 Z Impact Spindle 2			1		
2	0		P2-14A	2	0		
	1	Rear Head, Beam 1 Z Impact Spindle 3			1		
3	0		P2-14C	3	0		
	1	Rear Head, Beam 1 Z Impact Spindle 4			1		
4	0		P2-15A	4	0		
	1	Rear Head, Beam 2 Z Impact Spindle 1			1		
5	0		P2-15C	5	0		
	1	Rear Head, Beam 2 Z Impact Spindle 2			1		
6	0		P2-16A	6	0		
	1	Rear Head, Beam 2 Z Impact Spindle 3			1		
7	0		P2-16C	7	0		
	1	Rear Head, Beam 2 Z Impact Spindle 4			1		

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Address: 8001D7H, Location: VME1, Slot: PC14

PC BOARD: AXIS CONTROLLER, THEMIS				MEMORY TYPE: LOCAL			
FUNCTION: SHUTTLE PICK LIMITS				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0			0	0		
	1	Pick 1 Positive Limit			1		
1	0			1	0		
	1	Pick 1 Negative Limit			1		
2	0		P2-18A	2	0		
	1	Pick 2 Positive Limit			1		
3	0		P2-18C	3	0		
	1	Pick 2 Negative Limit			1		
4	0			4	0		
	1				1		
5	0			5	0		
	1				1		
6	0			6	0		
	1				1		
7	0			7	0		
	1				1		

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Address: 8001D5H, Location: VME1, Slot: PC15

PC BOARD: AXIS CONTROLLER, THEMIS				MEMORY TYPE: LOCAL			
FUNCTION: SHUTTLE HEADS IMPACT SENSORS				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P2-13A	0	0		
	1	Shuttle 1 Z Impact Spindle 1			1		
1	0		P2-13C	1	0		
	1	Shuttle 1 Z Impact Spindle 2			1		
2	0		P2-14A	2	0		
	1	Shuttle 1 Z Impact Spindle 3			1		
3	0		P2-14C	3	0		
	1	Shuttle 1 Z Impact Spindle 4			1		
4	0		P2-15A	4	0		
	1	Shuttle 2 Z Impact Spindle 1			1		
5	0		P2-15C	5	0		
	1	Shuttle 2 Z Impact Spindle 2			1		
6	0		P2-16A	6	0		
	1	Shuttle 2 Z Impact Spindle 3			1		
7	0		P2-16C	7	0		
	1	Shuttle 2 Z Impact Spindle 4			1		

Address: 8001D7H, Location: VME1, Slot: PC15

PC BOARD: AXIS CONTROLLER, THEMIS				MEMORY TYPE: LOCAL			
FUNCTION: SHUTTLE TRANSFER LIMITS				NOTE:			
BIT		INPUT	CONN/PIN	BIT		OUTPUT	CONN/PIN
0	0		P2-17A	0	0		
	1				1		
1	0		P2-17C	1	0		
	1				1		
2	0		P2-18A	2	0		
	1	Transfer 1 Positive Limit			1		
3	0		P2-18C	3	0		
	1	Transfer 1 Negative Limit			1		
4	0		P2-19A	4	0		
	1				1		
5	0		P2-19C	5	0		
	1				1		
6	0		P2-20A	6	0		
	1	Transfer 2 Positive Limit			1		
7	0		P2-20C	7	0		
	1	Transfer 2 Negative Limit			1		

Changes To This Revision

- Added new GSM2 AdVantis FAW information (Address 1007H, Location:VME, Slot: PC20 - GSM2 AdVantis) on page 9.