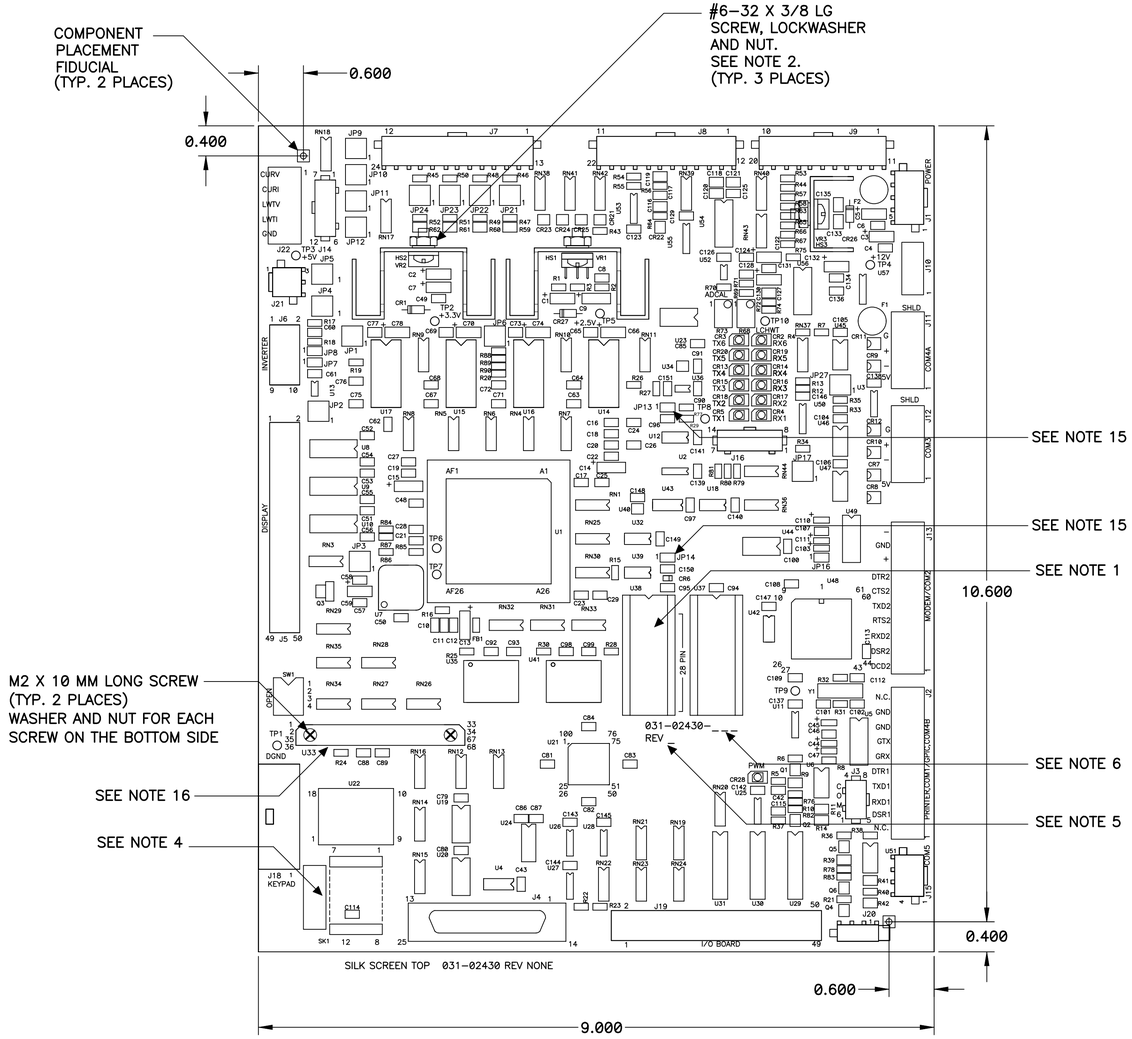
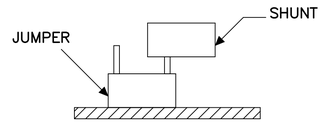


ASSEMBLY DRAWING – TOP SIDE

NOTES:

1. IF U38 SOCKET IS 28 PIN, INSTALL FLUSH WITH BOTTOM OF 32 PIN FOOTPRINT AS INDICATED BY THE SILKSCREEN.
2. APPLY HEAT CONDUCTIVE COMPOUND BETWEEN MATING SURFACES OF HS1 AND VR1; HS2 AND VR2; HS3 AND VR3.
3. CIRCUIT BOARDS SHALL BE ASSEMBLED AND CLEANED PER ESG STANDARD E–9.
4. MARK MFR'S INITIAL AND SERIAL NO. 1/8" HIGH MINIMUM PER ESG STANDARD E–9.
5. MARK APPROPRIATE BILL OF MATERIAL REVISION LEVEL 1/8" HIGH MINIMUM PER ESG STANDARD E–9.
6. MARK APPROPRIATE LINE NO. (BILL OF MATERIAL SUFFIX NUMBER) 1/8" HIGH MINIMUM PER ESG STANDARD E–9.
7. COVER TOP SIDE OF ASSEMBLED BOARD (BEFORE TESTING AND BURN–IN) ALL OVER, PER ESG STANDARD E–9, WITH CONFORMAL COATING SPECIFIED IN BILL OF MATERIAL EXECEPT: CRYSTAL Y1; FUSES F1 & F2; HEADERS J1 THRU J16, J18 THRU J22; HEATSINKS HS1, HS2 & HS3; 2 PIN JUMPERS JP7, JP8 & JP16; 3 PIN JUMPERS JP1 THRU JP6, JP9 THRU JP12, JP17, JP21 THRU JP24 & JP27; LEDS CR2 THRU CR5, CR13 THRU CR20 & CR28; MICROPROCESSOR U1; LED DISPLAY U22; OSCILLATOR U7; POTENTIOMETERS R68 & R73; SOCKETS FOR U33, U37, U38, U45, U46, U47 & SK1 (2 SINGLE ROW HEADERS); SWITCH SW1; TESTPOINTS TP1 THRU TP10.
8. VENDOR TESTING (PERFORM AFTER COATING!): PER ESG STANDARD (SEE MATERIAL AREA IN TITLE BLOCK.)
9. PACKAGING: ALL PRINTED CIRCUIT BOARDS SHALL BE PACKAGED PER ESG STANDARD E–9, SECTION 4.
10. RECEIVING INSPECTION – ALL SHIPMENTS THAT DO NOT COMPLY WITH ESG STANDARD E–64, SECTION 5 SHALL BE SCRAPPED AT VENDOR'S EXPENSE.
11. PURCHASING: APPROVED SOURCES OF SUPPPLY; RAM INDUSTRIES, READING, PA.
12. PLACE SHUNT (BILL OF MATERIAL ID NUMBER 00542) ACCORDING TO JUMPER TABLE.
13. JUMPER SHUNTS WHICH ARE NOT INSTALLED, SHALL BE PLACED ON A PIN OF THE ASSIGNED JUMPER, SO IT MAY BE USED LATER. THE OTHER END OF THE JUMPER SHUNT SHOULD BE "FREE HANGING" WITH NO POSSIBLE CONTACT TO SURROUNDING CIRCUITS. SEE DETAIL BELOW:



14. SEE SHEET 8 FOR BOTTOM SIDE ASSEMBLY NOTES.
15. INSTALL WIRE JUMPER IN JP13. INSTALL WIRE JUMPER IN JP14 IF U38 SOCKET IS 28 PIN. IF U38 SOCKET IS 32 PIN, JP14 WIRE SHOULD NOT BE INSTALLED.
16. INSTALL CAP (BOM 031–02430–998 ID NUMBER 01915) ON U33 SOCKET.

JUMPER SHUNT INSTALLATION TABLE	
IN = JUMPER SHUNT INSTALLED OUT = JUMPER SHUNT ON ONE PIN ONLY (SEE NOTE 13)	
JUMPER SHUNT	031–02430–000
JP1	PINS 2 & 3
JP2	PINS 2 & 3
JP3	PINS 2 & 3
JP4	PINS 2 & 3
JP5	PINS 1 & 2
JP6	PINS 1 & 2
JP7	IN
JP8	IN
JP9	PINS 2 & 3
JP10	PINS 2 & 3
JP11	PINS 2 & 3
JP12	PINS 2 & 3
JP16	IN
JP17	PINS 2 & 3
JP21	PINS 1 & 2
JP22	PINS 1 & 2
JP23	PINS 1 & 2
JP24	PINS 1 & 2
JP27	PINS 1 & 2

REV LEV	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
–		NEW.	NOT REL'D	KAW	BAS
A	04/03/03	ADDED NOTE 16. SEE OTHER SHEETS.	0702–0007	KAW	BAS
B	10/17/03	ADDED U1 TO NOTE 7.	0703–3024	KAW	BAS

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YORK, PA 17405

DIMENSIONS ARE IN INCHES
DO NOT SCALE
TOLERANCES PER ENG. STD. M–282
WELDING PER ENG. STD. M–30
REF. DWG.

CONTROL, OPTIVIEW MICROPROCESSOR BOARD (REF. DWG.)

MATERIAL
PART NO. _____ ENG. STD. E–355
TYPE _____
CUT SIZE _____

NAME	DATE
DR. K. WERTMAN	05–15–02
APPR. B. SMITH	06–15–02
SCALE: N.T.S.	

SIZE: D | CAGE NO: 66935 | DRAWING NUMBER: 031–02430–999

WT. = LBS. | ORIG. NO. | SHEET 7 OF 9