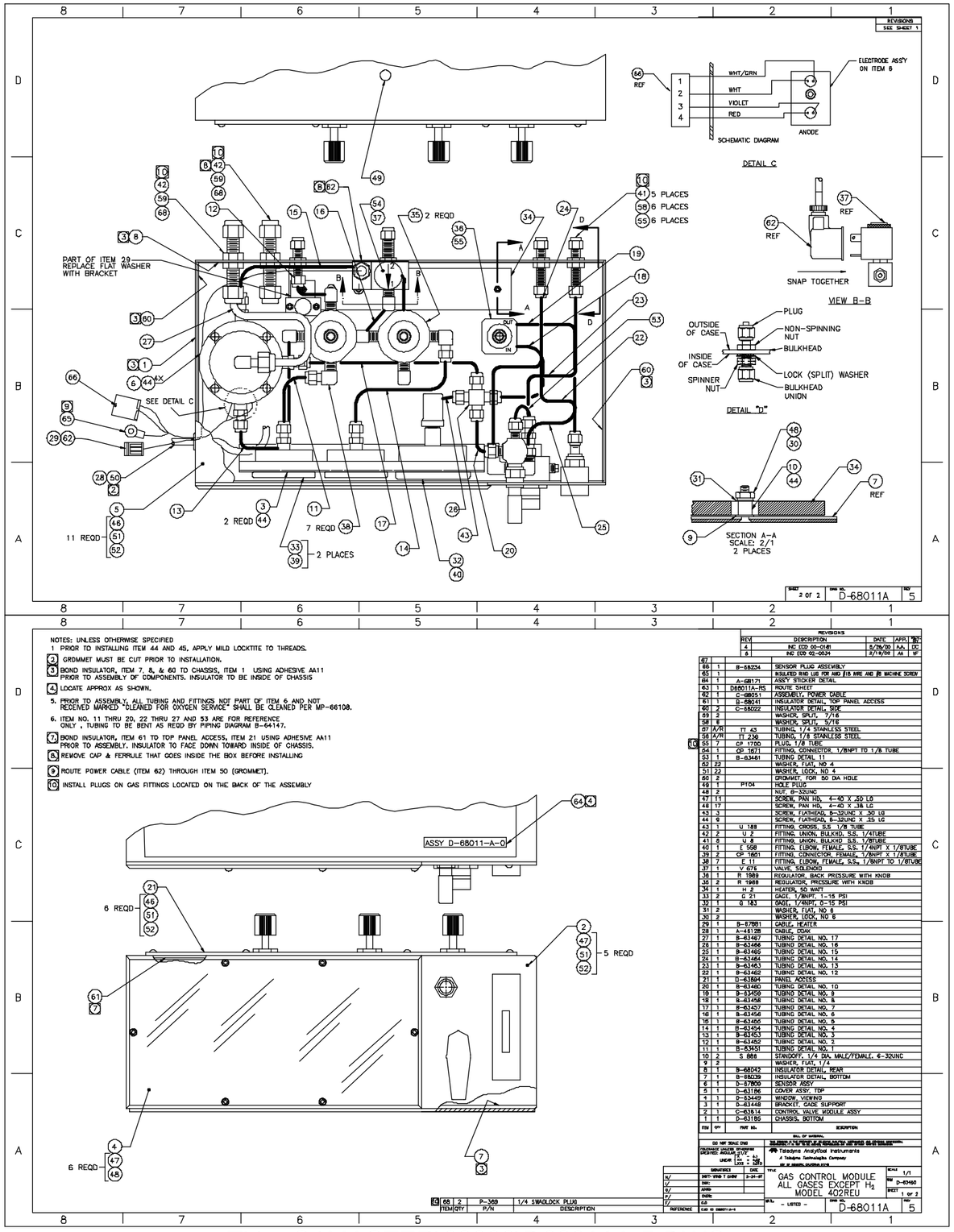
Date: 7/8/03

Time : 10:37:36 AM



NOTES: UNLESS OTHERWISE SPECIFIED

1. PRIOR TO INSTALLING ITEM 44 AND 45, APPLY MILD LOCKTITE TO THREADS.
2. GROMMET MUST BE CUT PRIOR TO INSTALLATION.
3. BOND INSULATOR, ITEM 7, 8, & 60 TO CHASSIS, ITEM 1 USING ADHESIVE AA11 PRIOR TO ASSEMBLY OF COMPONENTS. INSULATOR TO BE INSIDE OF CHASSIS
4. LOCATE APPROX AS SHOWN.
5. PRIOR TO ASSEMBLY, ALL TUBING AND FITTINGS NOT PART OF ITEM 6 AND NOT RECEIVED MARKED "CLEANED FOR OXYGEN SERVICE" SHALL BE CLEANED PER MP-66108.
6. ITEM NO. 11 THRU 20, 22 THRU 27 AND 53 ARE FOR REFERENCE ONLY , TUBING TO BE BENT AS REQD BY PIPING DIAGRAM B-64147.
7. BOND INSULATOR, ITEM 61 TO TOP PANEL ACCESS, ITEM 21 USING ADHESIVE AA11 PRIOR TO ASSEMBLY. INSULATOR TO FACE DOWN TOWARD INSIDE OF CHASSIS.
8. REMOVE CAP & FERRULE THAT GOES INSIDE THE BOX BEFORE INSTALLING
9. ROUTE POWER CABLE (ITEM 62) THROUGH ITEM 50 (GROMMET).
10. INSTALL PLUGS ON GAS FITTINGS LOCATED ON THE BACK OF THE ASSEMBLY

REVISIONS				
REV	DESCRIPTION	DATE	APPR.	BY
4	INC ECO 00-0181	8/28/00	AA	DC
5	INC ECO 02-0024	2/19/02	AA	MF

ITEM	QTY	PART NO.	DESCRIPTION
67			
66	1	B-68234	SENSOR PLUG ASSEMBLY
65	1		INSULATED RING LUG FOR AWG #18 WIRE AND #8 MACHINE SCREW
64	1	A-68171	ASSY STICKER DETAIL
63	1	D68011A-RS	ROUTE SHEET
62	1	C-68051	ASSEMBLY, POWER CABLE
61	1	B-68041	INSULATOR DETAIL, TOP PANEL ACCESS
60	2	C-68022	INSULATOR DETAIL, SIDE
59	2		WASHER, SPLIT, 7/16
58	8		WASHER, SPLIT, 5/16
57	A/R	TT 43	TUBING, 1/4 STAINLESS STEEL
56	A/R	TT 236	TUBING, 1/8 STAINLESS STEEL
55	7	CP 1700	PLUG, 1/8 TUBE
54	1	CP 1671	FITTING, CONNECTOR, 1/8NPT TO 1/8 TUBE
53	1	B-63481	TUBING DETAIL 11
52	22		WASHER, FLAT, NO 4
51	22		WASHER, LOCK, NO 4
50	2		GROMMET, FOR .50 DIA HOLE
49	1	P104	HOLE PLUG
48	2		NUT, 8-32UNC
47	11		SCREW, PAN HD, 4-40 X .50 LG
46	17		SCREW, PAN HD, 4-40 X .38 LG
45	3		SCREW, FLATHEAD, 8-32UNC X .50 LG
44	9		SCREW, FLATHEAD, 8-32UNC X .25 LG
43	1	U 188	FITTING, CROSS, S.S. 1/8 TUBE
42	2	U 2	FITTING, UNION, BULKHD, S.S. 1/4TUBE
41	6	U 8	FITTING, UNION, BULKHD S.S. 1/8TUBE
40	1	F 568	FITTING, ELBOW, FEMALE, S.S. 1/4NPT X 1/8TUBE
39	2	CP 1601	FITTING, CONNECTOR, FEMALE, 1/8NPT X 1/8TUBE
38	7	F 11	FITTING, ELBOW, FEMALE, S.S. 1/8NPT TO 1/8TUBE
37	1	V 676	VALVE, SOLENOID
36	1	R 1989	REGULATOR, BACK PRESSURE WITH KNOB
35	2	R 1988	REGULATOR, PRESSURE WITH KNOB
34	1	H 2	HEATER, 50 WATT
33	2	G 21	GAGE, 1/8NPT, 1-15 PSI
32	1	G 183	GAGE, 1/4NPT, 0-15 PSI
31	2		WASHER, FLAT, NO 6
30	2		WASHER, LOCK, NO 6
29	1	B-67881	CABLE, HEATER
28	1	A-68128	CABLE, COAX
27	1	B-63467	TUBING DETAIL NO. 17
26	1	B-63466	TUBING DETAIL NO. 16
25	1	B-63465	TUBING DETAIL NO. 15
24	1	B-63464	TUBING DETAIL NO. 14
23	1	B-63463	TUBING DETAIL NO. 13
22	1	B-63462	TUBING DETAIL NO. 12
21	1	D-63804	PANEL ACCESS
20	1	B-63460	TUBING DETAIL NO. 10
19	1	B-63459	TUBING DETAIL NO. 9
18	1	B-63458	TUBING DETAIL NO. 8
17	1	B-63457	TUBING DETAIL NO. 7
16	1	B-63456	TUBING DETAIL NO. 6
15	1	B-63455	TUBING DETAIL NO. 5
14	1	B-63454	TUBING DETAIL NO. 4
13	1	B-63453	TUBING DETAIL NO. 3
12	1	B-63452	TUBING DETAIL NO. 2
11	1	B-63451	TUBING DETAIL NO. 1
10	2	S 888	STANDOFF, 1/4 DIA, MALE/FEMALE, 4-32UNC
9	2		WASHER, FLAT, 1/4
8	1	B-68042	INSULATOR DETAIL, REAR
7	1	B-68039	INSULATOR DETAIL, BOTTOM
6	1	D-67809	SENSOR ASSY
5	1	D-63186	COVER ASSY, TOP
4	1	D-63449	WINDOW, VIEWING
3	1	D-63448	BRACKET, CASE SUPPORT
2	1	C-63614	CONTROL VALVE MODULE ASSY
1	1	D-63185	CHASSIS, BOTTOM

ITEM	QTY	PART NO.	DESCRIPTION
68	2	P-169	1/4 SWAGLOCK PLUG

BILL OF MATERIAL

DO NOT SCALE DWG

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMALS ANGULAR ±1/2° XX ± .03 XXX ± .010

Teledyne Analytical Instruments
A Teledyne Technologies Company

SIGNATURES	DATE
DRFT: BRD T GIBB	3-24-97
ENG:	
APVD:	
PM:	
QA:	

TITLE: GAS CONTROL MODULE ALL GASES EXCEPT H_2 MODEL 402REU

SCALE 1/1 | SIZE B | D-63460 | SHEET 1 OF 2

MTL – LISTED – | DWG NO. D-68011A | REV 5

Title: G:\MASTER\68000\D68011A-5.DWG