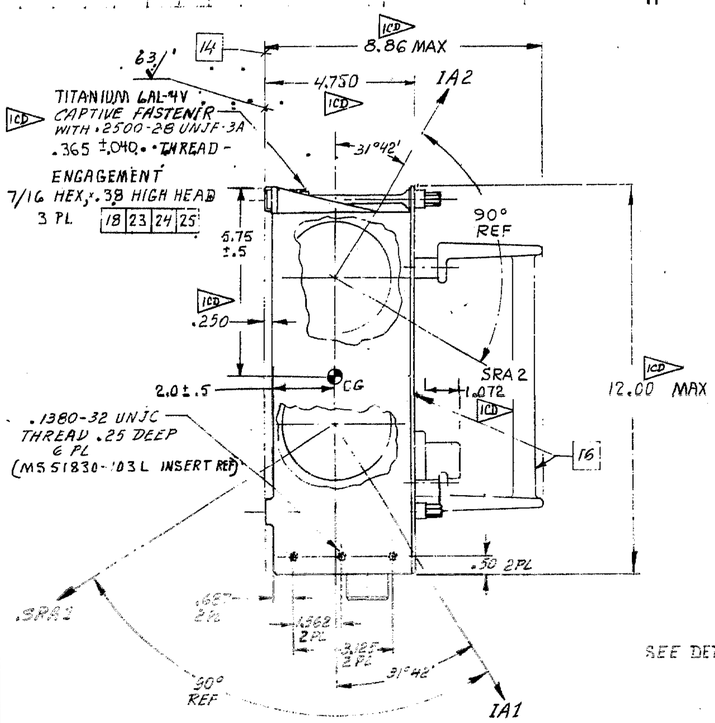
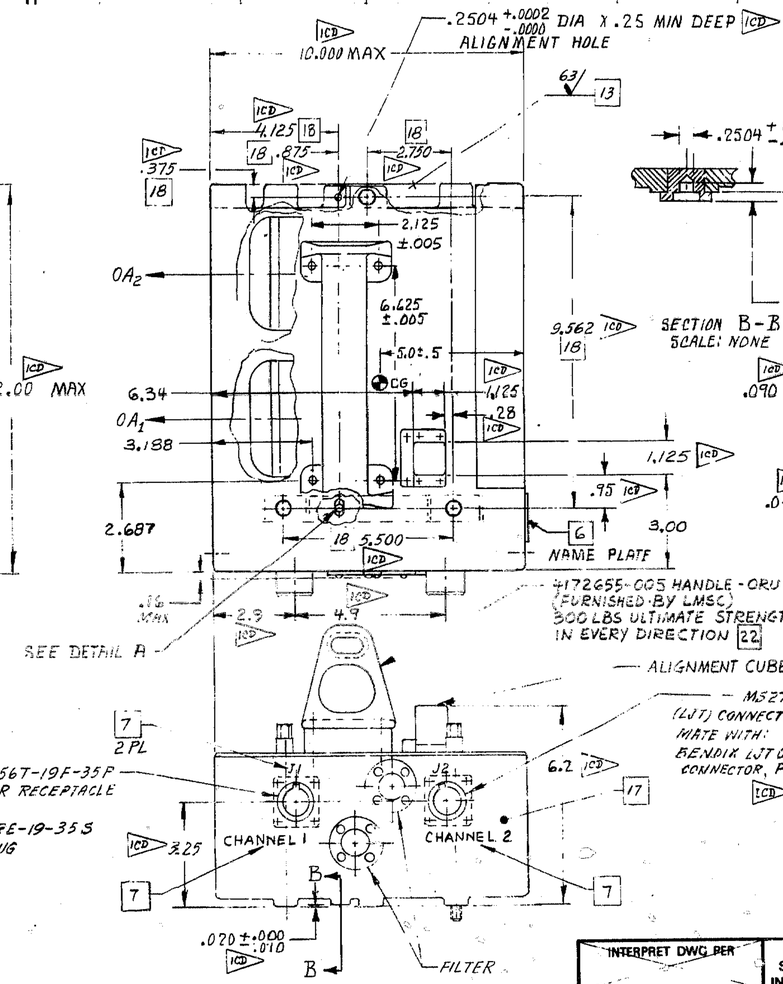
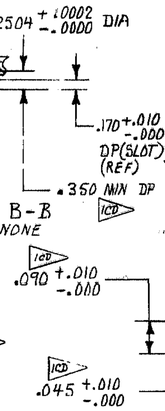
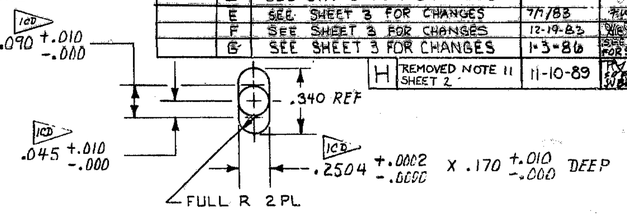
QUANTITY REQUIRED PER ASSEMBLY	LOCKHEED DATA PART NUMBER	NOMENCLATURE	SPECIFICATION	SUPPLIER DATA CODE IDENT	PART NUMBER	DRAWING NUMBER	NAME AND ADDRESS	ZIP CODE
	4171776-001	RATE SENSOR UNIT	4171761	55973	5077012-9	5077012	BENDIX CORP GSD, TETERBORO, N.J.	07608
	4171776-003	ELEX CONTROL UNIT	4171761	55973	5057007-19	5057007	BENDIX CORP GSD, TETERBORO, N.J.	07608

ZONE	LTR	REVISIONS DESCRIPTION	DATE	APVD
		NC NOT RELEASED		
	A	A REVISION RELEASED FOR PROCUREMENT		
		REVISED PER BENDIX MARKED DWG AND PIN FUNCTION INPUT	9-6-79	
	B	CCA WAS 2409	11-26-79	
4B	C	REVISED ORU HANDLE CONFIG. ADDED HANDLE SPACERS. ADDED PART NO. & [22]. ADDED ±.005 TO	2-17-81	
4C		2.125 & 6.625 DIM. MAX HEIGHT WAS		
5B		7.79. REMOVED 3.00 MAX DIM.		
7D		DIM (WAS) 4.770		
6C		DIM (WAS) 11.985		
		NOTE 4 (WAS, MAX WEIGHT- 23 LBS (-001), 16 LBS (-003)		
5D		DIM (WAS) 7.995		
6B		DIM (WAS) .2504 +.0002 -.0000 DIA 2 ALIGNMENT HOLES		
6B		DIM (WAS) .156 MAX		
4B		(ADDED) DECAL LOCATION & [6]		
2C		(ADDED) DETAIL A SEE SHTS 2 & 3		
5A		(ADDED) SECTION B-B (ADDED) ICD & BCD TO SHTS 1&3		
8C		ADDED NOTES 23, 24, 25	7-1-82	
	D	SEE SHT 3 FOR CHANGES	7/1/83	
	E	SEE SHEET 3 FOR CHANGES	12-19-83	
	F	SEE SHEET 3 FOR CHANGES	1-3-86	
	G	SEE SHEET 3 FOR CHANGES	11-10-89	
	H	REMOVED NOTE 11 SHEET 2		









DETAIL A
SCALE: NONE

NOTES:

1. DOCUMENTATION AND CHANGE CONTROL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE PROCUREMENT DOCUMENT.
2. SPECIFICATION LISTED IN LOCKHEED DATA BLOCK ABOVE GOVERNS THE PROCUREMENT AND ACCEPTANCE OF THIS ITEM.
3. PACKAGING AND PRESERVATION SHALL BE AS SPECIFIED IN THE PROCUREMENT DOCUMENT.
4. MAXIMUM WEIGHT — 24 POUNDS (-001), 17.5 POUNDS (-003)
5. NON STANDARD ABBREVIATIONS:
   IA = INPUT AXIS
   OA = OUTPUT AXIS
   SRA = SPIN REFERENCE AXIS
   ORU = ORBITAL REPLACEABLE UNIT

NOTES CONTINUED ON SHEET 2

- THE -003 UNIT CONTAINS INFORMATION FLAGGED BCD WHICH IS CONTROLLED BY A BASIC CORRELATION DRAWING (BCD). NO CHANGES SHALL BE MADE TO THE CONTROLLED INFORMATION WITHOUT PRIOR AUTHORIZATION OF A CORRESPONDING CHANGE TO BCD DRAWING 4172869.
- THE -001 UNIT CONTAINS INFORMATION FLAGGED ICD WHICH IS CONTROLLED BY AN INTERFACE CONTROL DOCUMENT (ICD). NO CHANGES SHALL BE MADE TO INFORMATION CONTROLLED BY AN ICD PRIOR TO INTERFACE CONTROL MANAGEMENT AUTHORIZATION. SEE DRAWING ST ICD-001.

-001 RATE SENSOR UNIT. RSU

REVISION STATUS OF SHEETS	REV	H	H	G	D
	SH	1	2	3	4

INTERPRET DWG PER	UNLESS OTHERWISE SPECIFIED DIM ARE IN INCHES. TOLERANCES ON:	DATE 7-1-82
	FRACTIONS = ± 1/16	DWN L. H. Hirr
	DECIMALS: .X = ± .1	APVD
	.XX = ± .03	APVD
	.XXX = ± .010	ENGRG
	ANGLES = ± 2 DEG	CHKR
NEXT ASSY / USED ON	CONTR NAS8-32697	APVD W. T. Kennedy
APPLICATION	CCA SEE NOTE 6	APVD

LOCKHEED MISSILES & SPACE COMPANY, INC.
A SUBSIDIARY OF LOCKHEED AIRCRAFT CORPORATION
SUNNYVALE, CALIFORNIA

RATE GYRO ASSEMBLY
ENVELOPE DRAWING

SIZE	CODE IDENT	DRAWING NO	REV
D	06887	4171776	H

SCALE 1/2 SHEET 1 OF 4

F_M-VL201-0105-01X

FORM LMSC 10518-3 PRINTED ON LMSC CODE K
LOWR FMSC AMED'S

ZONE	LTR	DESCRIPTION	DATE	APVD
8B	H	REMOVED NOTE 11	11-10-89	

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APVD
	B	PIN FUNCTIONS ADDED	11-14-79	
	C	ADDED NOTE 22, 23, 24, 25	2-19-81	

20. WHEN CHANGES ARE MADE TO PROCESS SPECIFICATIONS CONSIDERED TO BE VENDOR PROPRIETARY, THE VENDOR MUST ADVISE LMSC PROCUREMENT OF THE IMPACT OF ANY CONTEMPLATED CHANGE PRIOR TO THE CHANGE AND THE SERIAL OR LOT NUMBER ON WHICH THE CHANGE WILL BECOME EFFECTIVE.

19. FOR LOCATION OF 6 CONNECTORS, COUNTERSUNK ENDS OF 4 SLOTS AND DRIVE RECEPTACLE USE CONTROLLED TOOLING. TOOL SHALL BE FURNISHED BY LMSC.

18. FOR LOCATION OF 2 ALIGNMENT HOLES AND 3 CAPTIVE FASTENER MOUNTING HOLES USE CONTROLLED TOOLING. TOOL SHALL BE FURNISHED BY LMSC.

17. CHEMICAL TREAT PER MIL-C-5541 CLASS 3, 100%; PAINT TOP AND FRONT (CONNECTOR) END SURFACE OF -001 WITH FLAT BLACK POLYURETHANE PAINT (CHEMGLAZE Z306) OVER WASH PRIMER (CHEMGLAZE 9924) EXCEPT DO NOT PAINT FILTER GLANDS.

16. THIS SURFACE MUST HAVE HIGH EMITTANCE $\epsilon \geq$ OR $\geq .85$. (ICD)

15. TO BE FURNISHED TO VENDOR BY LMSC.

14. THE MATING SURFACE OF MOUNTING BOSSES MUST BE FLAT AND IN THE SAME PLANE WITHIN .001 IN. (ICD)

13. THE INDICATED SURFACES ON ALIGNMENT FLANGES SHALL BE PERPENDICULAR TO ALIGNMENT HOLES WITHIN .0002 AND PROTECTED FROM NICKS AND SCRATCHES.

12. CONTROLLED FUNCTIONAL EQUIPMENT, -001 ASSY (RATE SENSOR UNIT). OPERATING RECORD REQUIRED FROM START OF ATP. OPERATING TIME AND NUMBER OF START-STOP CYCLES TO BE RECORDED.

10. INTERPRET DWG PER STDS IN LMSC 1420838.

9. FINISH:
   A. IMPREGNATE BRAZED JOINTS PER MIL-STD-276.
   B. CHEMICAL TREAT PER MIL-C-5541 CLASS 3, 100%.
   C. PAINT ALL OUTSIDE SURFACE EXCEPT MOUNTING SURFACE AND FILTER GLANDS WITH FLAT BLACK POLYURETHANE PAINT (CHEMGLAZE Z306) OVER WASH PRIMER (CHEMGLAZE 9924)

8. ALL EDGES AND CORNERS MUST BE .06 R MINIMUM.

7. MARK CONN AND CHANNEL REF DESIGNATION PER MIL-STD-130.

6. UNIT IDENTIFICATION SHALL BE IN ACCORDANCE WITH MIL-STD-130 AND SHALL CONTAIN, AS A MINIMUM, THE FOLLOWING INFORMATION:
   NOMENCLATURE: RATE SENSOR UNIT FOR -001.
   ELECTRONICS CONTROL UNIT FOR -003.
   LMSC PART NUMBER: 4171776-X.
   CCA 4408 FOR -001 RATE SENSOR UNIT & 4411 FOR -003 ELEX CONT UNIT (PLUS DASH AND APPLICABLE LMSC SUPPLIED 4 DIGIT SERIAL NUMBER)
   LMSC CUSTOMER'S PRIME CONTRACT NUMBER AS REFLECTED ON PROCUREMENT DOCUMENT.
   MANUFACTURER'S SERIAL NUMBER.
   U.S.

NOTES CONTINUED FROM SHEET 1

25. CAUTION: MOUNTING BOLTS LIMITED TO A MAXIMUM OF TEN INSERTIONS, AFTER EACH REMOVAL OF THE BOLT FROM THE STRUCTURE, THE BOLT AND INSERT THREAD REGIONS SHALL BE VISUALLY INSPECTED UNDER A MINIMUM 5X MAGNIFICATION FOR DAMAGE (i.e., VISIBLE CORROSION OR CORROSION PRODUCTS, GALLING, STRIPPING, SCORING OR SCRATCHING OF THREADS, DEFORMATION OF ANY VISIBLE PART OF THE BOLT, OR FOREIGN MATERIALS IN THREADS WHICH CANNOT BE EASILY REMOVED WITH A NONMETALLIC BRISTLE BRUSH USING AN APPROVED SOLVENT.)

24. INSTALL LOCKING VESPEL PELLET TO ALLOW 1 TO 1 1/2 TURNS OF BOLT, BEFORE PELLET ENGAGEMENT.

23. NEW TITANIUM BOLTS TO BE INSTALLED PRIOR TO SHIPMENT.

22. INSTALL HANDLE WITH 10-32 VENDOR-FURNISHED ROUND HD OR PAN HD CRES SCREWS AND .781 HIGH X .62 WIDTH X 2.75 LONG ALUM SPACERS. HANDLE MUST BE ELECTRICALLY BONDED TO BOX.

21. MANUFACTURE IN CONFORMANCE WITH PROCESS SPECIFICATIONS LISTED IN LOCKHEED DATA BLOCK ABOVE OR IN NOTE 3. ANY DEVIATION MADE BY THE VENDOR TO THESE SPECIFICATIONS OR TO PREVIOUSLY APPROVED VENDOR SPECIFICATIONS SHALL BE REPORTED TO LMSC PROCUREMENT. APPROVAL OF ANY DEVIATION SHALL BE FORMALLY INDICATED BY LMSC ISSUANCE OF A NEW OR REVISED SPECIFICATION OR ENVELOPE DRAWING PRIOR TO ACCEPTANCE OF ANY HARDWARE MANUFACTURED IN CONFORMANCE WITH SUCH DEVIATION.

RSU/ECU INTERFACE. CHANNEL 1.

PIN	J1 MS27656T-19F-35P
1	SUS RET
2	SHIELD FOR PINS 1
3	SHIELD FOR PINS 8,9
4	CON THM LO
5	SUS
6	SPARE
7	SPARE
8	WHEEL DRIVE ØA HI
9	WHEEL DRIVE ØA LO
10	CON THM HI
11	SHIELD FOR PINS 2,10
12	SHIELD FOR PINS 19,20
13	SYNC HI
14	SYNC LO
15	SHIELD FOR PINS 13,14
16	SHIELD FOR PINS 23,24
17	CON SEN HI
18	CON SEN LO
19	9.6 KHZ
20	9.6 KHZ RET
21	SPARE
22	SPARE
23	WHEEL DRIVE ØB HI
24	WHEEL DRIVE ØB LO
25	SHIELD FOR PINS 17, 18
26	20 VDC
27	+15 VDC
28	+15 V RET
29	SPARE
30	PWM HI
31	PWM LO
32	SHIELD FOR PINS 30,31
33	CHASSIS GND
34	RATE IN HI
35	SHIELD FOR PINS 34,43
36	20 VDC RET
37	-15 VDC
38	-15 VDC RET
39	SHIELD FOR PINS 46,47
40	SHIELD FOR PINS 48,49
41	SHIELD FOR PINS 42,50
42	HTR LO
43	RATE IN LO
44	RSU THERMISTOR HI
45	+5 VDC RET
46	SIM TQ SIG HI
47	SIM TQ SIG LO
48	307.2 KHZ HI
49	307.2 KHZ LO
50	HTR HI
51	RSU THERMISTOR LO
52	+5 VDC
53	SIM TQ EN
54	MODE CMD
55	SHIELD FOR EACH PIN 53,54
56	SPARE
57	28V SUR HTR
58	NOT TO BE WIRED
59	NOT TO BE WIRED
60	NOT TO BE WIRED
61	SHIELD FOR PINS 44, 51
62	SUR HTR MON
63	28V SUR HTR RET
64	SHIELD FOR PINS 65,66
65	MON SEN HI
66	MON SEN LO

RSU/ECU INTERFACE. CHANNEL 2.

PIN	J2 MS27656T-19F-35PA
1	SUS RET
2	SHIELD FOR PINS 1,5
3	SHIELD FOR PINS 8,9
4	CON THM LO
5	SUS
6	SPARE
7	SPARE
8	WHEEL DRIVE ØA HI
9	WHEEL DRIVE ØA LO
10	CON THM HI
11	SHIELD FOR PINS 4,10
12	SHIELD FOR PINS 19,20
13	SYNC HI
14	SYNC LO
15	SHIELD FOR PINS 13,14
16	SHIELD FOR PINS 23,24
17	CON SEN HI
18	CON SEN LO
19	9.6 KHZ
20	9.6 KHZ RET
21	SPARE
22	SPARE
23	WHEEL DRIVE ØB HI
24	WHEEL DRIVE ØB LO
25	SHIELD FOR PINS 17, 18
26	20 VDC
27	+15 VDC
28	+15 V RET
29	SPARE
30	PWM HI
31	PWM LO
32	SHIELD FOR PINS 30,31
33	CHASSIS GND
34	RATE IN HI
35	SHIELD FOR PINS 34,43
36	20 VDC RET
37	-15 VDC
38	-15 VDC RET
39	SHIELD FOR PINS 46,47
40	SHIELD FOR PINS 48,49
41	SHIELD FOR PINS 42,50
42	HTR LO
43	RATE IN LO
44	SPARE
45	+5 VDC RET
46	SIM TQ SIG HI
47	SIM TQ SIG LO
48	307.2 KHZ HI
49	307.2 KHZ LO
50	HTR HI
51	SPARE
52	+5 VDC
53	SIM TQ EN
54	MODE CMD
55	SHIELD FOR EACH PIN 53,54
56	SPARE
57	28V SUR HTR
58	NOT TO BE WIRED
59	NOT TO BE WIRED
60	NOT TO BE WIRED
61	SPARE
62	SUR HTR MON
63	28V SUR HTR RET
64	SHIELD FOR PINS 65,66
65	MON SEN HI
66	MON SEN LO

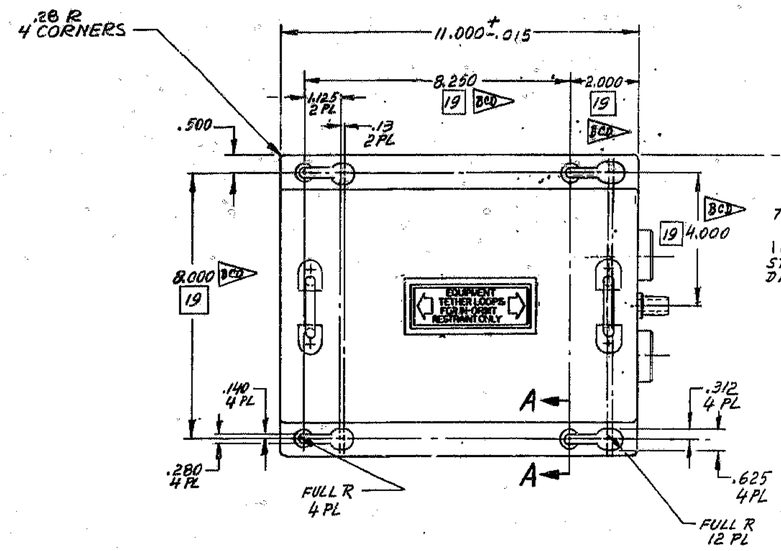
-001 RATE SENSOR UNIT

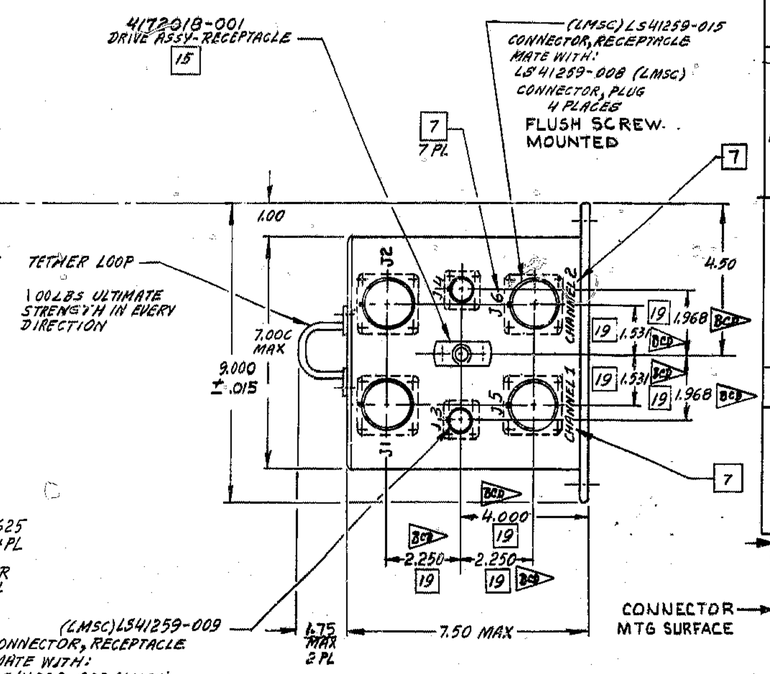
SIZE	CODE IDENT	DRAWING NO	REV
D	06887	4171776	H

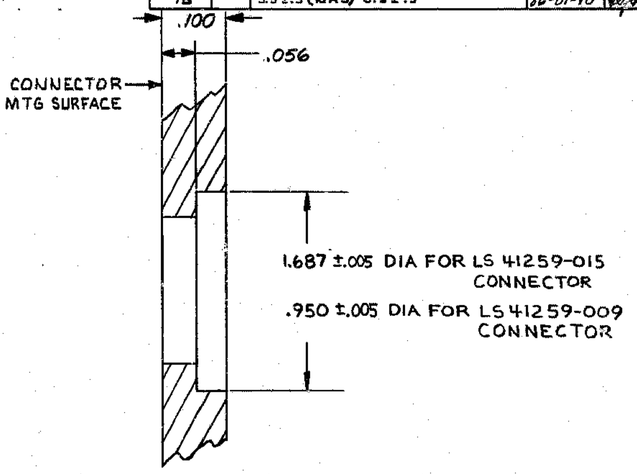
SCALE: NONE SHEET 2

DRAWING NO 4171776 H

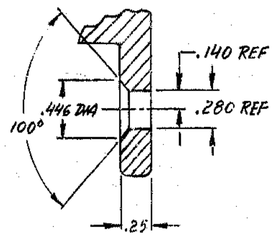
ZONE	LTR	DESCRIPTION	DATE	APVD
	B	REVISED PER VENDOR DWG.	11-26-79	
6C	C	CHANGED NAME PLATE LOCATION (WAS) ZONE C6 ADDED EQUIP TETHER LOOPS DECAL.	3-13-81 3-17-81	
1-5D 1-3C 1-5C-7C 1-6A-3C 1-4C5A 2-8C 3-7B	D	P/N (WAS) 5077019-9 & 5077019 CHANGED PICTURE SECTION B-B (ADDED) C G & DIM. (ADDED) ICD FLAG (ADDED) KEYWAY TO J1-J2 CONNS (ADDED) ICD FLAG TO NOTE 16. ADDED C G & DIM.	6-7-82 6-10-82 82-07-01	
1-8C 1-5C 1-4B 3-6D 3-6B 3-7B 3-8A 3-4C 3-4B 3-2B 3-2B	E	.365±.040 (WAS) .385±.040 6.34 (WAS) 6.344 3.00 (WAS) 3.000 .28R (WAS) .09R 3.48 (WAS) 3.50 .88±.05 (WAS) .87 ROTATED J1 90° CCW (REF DESIG) ROTATED J1 90° CCW (REF DESIG) ROTATED J2 90° CW (REF DESIG) 1.75 (WAS) 1.50 1.687±.008 (WAS) 1.687 +.010 -.000 .950±.005 (WAS) .950 +.010 -.000	7/7/83 83-08-05	
3-6D 3-5C	F	11.000±.015 (WAS) 11.000 +.000 -.015 9.000±.015 WAS 9.000 +.000 -.015	83-12-19 84-01-04	
7B 7B 7B 8B 7B 7B 7A 7B	G	.88±.1 (WAS) .88±.05 9.25±.1 (WAS) 9.25 .2 MAX (WAS) .156 3.48±.1 (WAS) 3.48 2.88±.1 (WAS) 2.88 2.75±.1 (WAS) 2.75 1.0 (WAS) 1.000 3.5±.5 (WAS) 3.9±.5	1-3-86 1-10-86 86-01-10	B. RAMIREZ



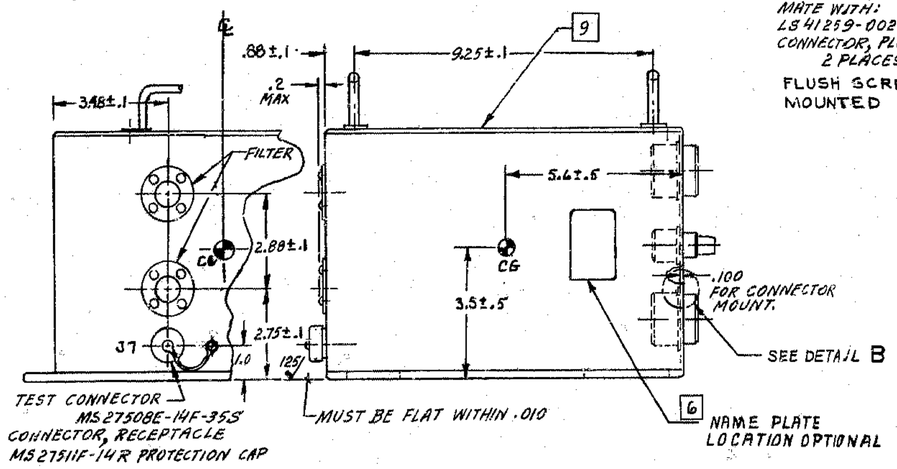




DETAIL B
NO SCALE



SECTION A-A
SCALE 2/1
4 PL



-003 ELECTRONICS CONTROL UNIT (ECU)

-003 ELEX CONTROL UNIT (ECU)

SIZE	CODE IDENT	DRAWING NO	REV
D	06887	4171776	G
SCALE 1/2		SHEET 3	

THIS PHOTOGRAPHIC IMAGE WAS PRODUCED IN ACCORDANCE WITH LMSC ENGINEERING DRAWING SERVICES STANDARD OPERATING PROCEDURES

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APVD
	B	PIN FUNCTIONS ADDED		

VEHICLE INTERFACE	
PIN	J1 LS41259-015
1	CHASSIS GND
2	MOTOR CURRENT A T/M
3	CHASSIS GND
4	QUANTIZED RATE SIG HI A
5	CLOCK HI B
6	SHIELD FOR PINS 4&13, 15&16, 55&56
7	5 VDC-A T/M
8	5 VDC-B T/M
9	MOTOR CURRENT B T/M
10	SPARE
11	SURV. HTR A T/M
12	QUANTIZED RATE SIG HI B
13	QUANTIZED RATE SIG LO A
14	CLOCK LO B
15	CLOCK LO A
16	CLOCK HI A
17	SHIELD FOR PINS 5&14, 12&27, 32&33
18	15 VDC - A T/M
19	15 VDC - B T/M
20	SPARE
21	SPARE
22	SHIELD FOR PINS 40, 41
23	ANALOG RATE A T/M
24	MODE STATUS A T/M
25	SURV. HTR B T/M
26	TEMP CONTR A T/M
27	QUANTIZED RATE SIG LO B
28	OFF CMD B
29	COMMAND RET
30	OFF CMD A
31	ON CMD A
32	MODE CMD LO B
33	MODE CMD HI B
34	SIG GND T/M
35	HEATER DUTY CYCLE A T/M
36	HEATER DUTY CYCLE B T/M
37	SHIELD FOR PINS 38, 61
38	ANALOG RATE RET A
39	SHIELD FOR PINS 57, 60
40	ANALOG RATE RET B
41	ANALOG RATE B
42	SPARE
43	ANALOG RATE B T/M
44	MODE STATUS B T/M
45	SMRD A T/M
46	SMRD B T/M
47	TEMP CONTR B T/M
48	ON CMD B
49	BACKUP TEMP CONTROL CMD B
50	NORMAL TEMP CONTROL CMD B
51	COMMAND RET
52	NORMAL TEMP CONTR CMD A
53	BACKUP TEMP CONTR CMD A
54	SPARE
55	MODE CMD LO A
56	MODE CMD HI A
57	RSU THERMISTOR LO
58	GYRO TEMP A T/M
59	GYRO TEMP B T/M
60	RSU THERMISTOR HI
61	ANALOG RATE A

VEHICLE INTERFACE	
PIN	J2 LS41259-015
1	CHASSIS GND
2	MOTOR CURRENT A T/M
3	CHASSIS GND
4	QUANTIZED RATE SIG HI A
5	CLOCK HI B
6	SHIELD FOR PINS 4&13, 15&16, 55&56
7	5 VDC-A T/M
8	5 VDC-B T/M
9	MOTOR CURRENT B T/M
10	SPARE
11	SURV HTR A T/M
12	QUANTIZED RATE SIG HI B
13	QUANTIZED RATE SIG LO A
14	CLOCK LO B
15	CLOCK LO A
16	CLOCK HI A
17	SHIELD FOR PINS 5&14, 12&27, 32&33
18	15 VDC - A T/M
19	15 VDC - B T/M
20	SPARE
21	SPARE
22	SHIELD FOR PINS 40, 41
23	ANALOG RATE A T/M
24	MODE STATUS A T/M
25	SURV HTR B T/M
26	TEMP CONTR A T/M
27	QUANTIZED RATE SIG LO B
28	OFF CMD B
29	COMMAND RET
30	OFF CMD A
31	ON CMD A
32	MODE CMD LO B
33	MODE CMD HI B
34	SIG GND T/M
35	HEATER DUTY CYCLE A T/M
36	HEATER DUTY CYCLE B T/M
37	SHIELD FOR PINS 38, 61
38	ANALOG RATE RET A
39	SHIELD FOR PINS 57, 60
40	ANALOG RATE RET B
41	ANALOG RATE B
42	SPARE
43	ANALOG RATE B T/M
44	MODE STATUS B T/M
45	SMRD A T/M
46	SMRD B T/M
47	TEMP CONTR B T/M
48	ON CMD B
49	BACKUP TEMP CONTROL CMD B
50	NORMAL TEMP CONTROL CMD B
51	COMMAND RET
52	NORMAL TEMP CONTR CMD A
53	BACKUP TEMP CONTR CMD A
54	SPARE
55	MODE CMD LO A
56	MODE CMD HI A
57	ECU THERMISTOR LO
58	GYRO TEMP A T/M
59	GYRO TEMP B T/M
60	ECU THERMISTOR HI
61	ANALOG RATE A

VEHICLE INTERFACE	
PIN	J3 LS41259-009
1	28 VRET
2	28 VRET
3	28 VRET
4	28 VHTR
5	28 VPS
6	28 VPS
7	28 VRET
8	28 V SURV HEATER
9	SURV HEATER RET
10	SURV HEATER RET
11	28V SURV. HEATER
12	28V HTR

VEHICLE INTERFACE	
PIN	J4 LS41259-009
1	28 VRET
2	28 VRET
3	28 VRET
4	28 VHTR
5	28 VPS
6	28 VPS
7	28 VRET
8	28 V SURV HEATER
9	SURV HEATER RET
10	SURV HEATER RET
11	28V SURV HEATER
12	28V HTR

TEST CONNECTOR	
PIN	J7 MS27508E-14F-35S
1	-15 VDC CH1
2	+20 VDC CH1
3	MOTOR VOLTAGE CH1
4	WHEEL DRIVE Ø A HI CH1
5	WHEEL DRIVE Ø A LO CH1
6	WHEEL DRIVE Ø B HI CH1
7	WHEEL DRIVE Ø B LO CH1
8	9.6 KHZ REF CH1
9	SIM TQ EN CH1
10	WHL EN CH1
11	SIM TQ SIG HI CH1
12	SIM TQ SIG LO CH1
13	+TCV CH1
14	-TCV CH1
15	-15 VDC CH2
16	+20 VDC CH2
17	MOTOR VOLTAGE CH2
18	WHEEL DRIVE Ø A HI CH2
19	WHEEL DRIVE Ø A LO CH2
20	WHEEL DRIVE Ø B HI CH2
21	WHEEL DRIVE Ø B LO CH2
22	9.6 KHZ REF CH2
23	SIM TQ EN CH2
24	WHL EN CH2
25	SIM TQ SIG HI CH2
26	SIM TQ SIG LO CH2
27	+TCV CH2
28	-TCV CH2
29	SPARE
30	SPARE
31	SPARE
32	SPARE
33	SIG GND CH1
34	SPARE
35	CHASSIS GND
36	SPARE
37	SPARE

RATE SENSOR UNIT INTERFACE (CHANNEL 1)	
PIN	J5 LS41259-015
1	-15 VDC
2	-15 VRET
3	SIM TQ SIG LO
4	SHIELD FOR PINS 3, 10
5	PWM HI
6	+15 VDC
7	+15 V RETURN
8	+20 V RETURN
9	+5 V RETURN
10	SIM TQ SIG HI
11	MODE CMD
12	307.2 KHZ HI
13	SHIELD FOR PINS 12, 27
14	PWM LO
15	SPARE
16	SPARE
17	9.6 KHZ REF LO
18	9.6 KHZ REF HI
19	SHIELD FOR PINS 17, 18
20	+20 VDC
21	SHIELD FOR PINS 39, 40
22	RSU THERMISTOR LO
23	+5 VDC
24	SIM TQ EN
25	SHIELD FOR EACH PIN 11, 24
26	SHIELD FOR PINS 22, 41
27	307.2 KHZ LO
28	SHIELD FOR PINS 48, 49
29	SHIELD FOR PINS 5, 14
30	WHEEL DRIVE Ø B HI
31	SHIELD FOR PINS 32, 33
32	SYNC LO
33	SYNC HI
34	SPARE
35	SPARE
36	CONTROL SENSOR LO
37	CONTROL SENSOR HI
38	SHIELD FOR PINS 36, 37
39	RATE IN HI
40	RATE IN LO
41	RSU THERMISTOR HI
42	SHIELD FOR PINS 43, 44
43	MON SENSOR HI
44	MON SENSOR LO
45	SURV HEATER MON
46	SURV HEATER HI
47	SURV HEATER LO
48	NORM HTR HI
49	NORM HTR LO
50	CHASSIS GND
51	WHEEL DRIVE Ø B LO
52	SHIELD FOR PINS 30, 51
53	WHEEL DRIVE Ø A LO
54	WHEEL DRIVE Ø A HI
55	SHIELD FOR PINS 53, 54
56	SHIELD FOR PINS 57, 58
57	SUSP RET
58	SUSP EXCITATION
59	CONTROL THERM LO
60	CONTROL THERM HI
61	SHIELD FOR PINS 59, 60

RATE SENSOR UNIT INTERFACE (CHANNEL 2)	
PIN	J6 LS41259-015
1	-15 VDC
2	-15 VRET
3	SIM TQ SIG LO
4	SHIELD FOR PINS 3, 10
5	PWM HI
6	+15 VDC
7	+15 V RETURN
8	+20 V RETURN
9	+5 V RETURN
10	SIM TQ SIG HI
11	MODE CMD
12	307.2 KHZ HI
13	SHIELD FOR PINS 12, 27
14	PWM LO
15	SPARE
16	SPARE
17	9.6 KHZ REF LO
18	9.6 KHZ REF HI
19	SHIELD FOR PINS 17, 18
20	+20 VDC
21	SHIELD FOR PINS 39, 40
22	SPARE
23	+5 VDC
24	SIM TQ EN
25	SHIELD FOR EACH PIN 11, 24
26	SPARE
27	307.2 KHZ LO
28	SHIELD FOR PINS 48, 49
29	SHIELD FOR PINS 5, 14
30	WHEEL DRIVE Ø B HI
31	SHIELD FOR PINS 32, 33
32	SYNC LO
33	SYNC HI
34	SPARE
35	SPARE
36	CONTROL SENSOR LO
37	CONTROL SENSOR HI
38	SHIELD FOR PINS 36, 37
39	RATE IN HI
40	RATE IN LO
41	SPARE
42	SHIELD FOR PINS 43, 44
43	MON SENSOR HI
44	MON SENSOR LO
45	SURV HEATER MON
46	SURV HEATER HI
47	SURV HEATER LO
48	NORM HTR HI
49	NORM HTR LO
50	CHASSIS GND
51	WHEEL DRIVE Ø B LO
52	SHIELD FOR PINS 30, 51
53	WHEEL DRIVE Ø A LO
54	WHEEL DRIVE Ø A HI
55	SHIELD FOR PINS 53, 54
56	SHIELD FOR PINS 57, 58
57	SUSP RET
58	SUSP EXCITATION
59	CONTROL THERM LO
60	CONTROL THERM HI
61	SHIELD FOR PINS 59, 60

SIZE	CODE IDENT	DRAWING NO.	REV
D	06887	4171776	D
SCALE: NONE		SHEET 4	

THIS PHOTOGRAPHIC IMAGE WAS PRODUCED IN ACCORDANCE WITH LMSC ENGINEERING DRAWING SERVICES STANDARD OPERATING PROCEDURES