GRUMMAN AIRCRAFT ENGINEERING CORPORATION BETHPAGE, L. I., NEW YORK

SECTION V RCS JET DISCRETES

Sig. Ref.	Figure	
	•	
El	13	Thruster 4d Command
E2	18	Thruster 3d Command
E3	18	Thruster 2d Command
E4	18	Thruster 1d Command
E5	18	Thruster 3u Command
E6	18	Thruster 2u Command
E7	18	Thruster 4u Command
E8	. 18	Thruster lu Command
E9 .	18	Thruster 2s Command
ElO	184	Thruster Is Command
Ella	18	Thruster As Commend
El2	18	Thruster 3s Command
E13	18	Thruster of Command
E14	18	Thruster 3f Command
E15	18	Thruster 4f Command
E16	18	Thruster 1f Command

For El - El6:

Signal levels, source and load impedances and noise limits are specified with respect to the LGC Return (interface connector P/J 222 Pin G).

- Noise Limits: 1. Switch closes ("1"):) Maximum noise amplitude is 450V if noise pulse does not exceed 0.5 millisecond width at maximum repetition rate of 50 pps.
 - Switch open ("O"): . Maximum noise amplitude is -50V if noise pulse does not exceed I millisecond width at maximum repetition rate of 50 pps.

TORR 38154

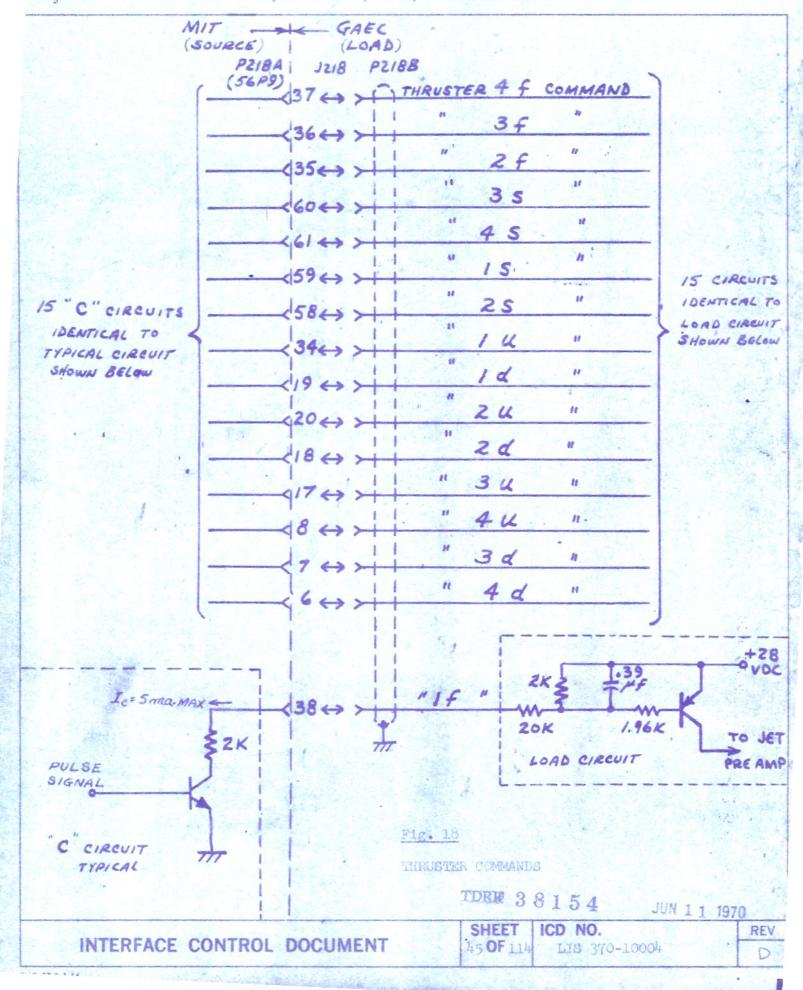
JUN 1 1 1970

INTERFACE CONTROL DOCUMENT

440F114

SHEET | ICD NO. LIS 370-10004 REV D

GRUMMAN AIRCRAFT ENGINEERING CORPORATION BETHPAGE, L. I., NEW YORK



	ID	SIGNAL	SIGN LEV		Zso	A STATE OF THE STA	Z LO	AD ± 10%	FUNCTIONAL DESCRIPTION
3		LOGIC	H H	"O"	"1"	"0"	" "	"0"	DESCRIPTION
INTERFACE CO	El.	Thruster 4d Command	2±2	28±1.1 -	< 3K	>500K	22K	22K	A logic "1" from the LGC to the ATCA jet pre-amp will activate the appropriate jet solenoid to fire RCS jet 4d when in PGNCS control.
CONTROL	E2	Thruster 3d Command	2±2	. 28±11	< 3K	>500K	55K	22K	Same as above except jet 3d will be fired.
100	€3	Thruster 2d Command .	2 ±2	28±11	< 3K	>500K	SSK	22K	Same as above except jet 2d will be fired.
DOCUMENT	E4 -,	Thruster 1d Command	2±2	\$g+JT	< 3E	>500K	22K	55%	Same as above except jet 1d will be fired.
4	E5	Thruster 3u Command	2±2	68±11	< 3K	>500K	55K	25k-	Same as above except jet 3u will be fired.
April	E6	Thruster 2ù Command	2±2	28±11	<3K	>500K	22K	22K	Same as above except jet 2u will be fired.
SHEE		Thruster 4U Command	2±2	28±11	< 3K	≯500K	22K	22K	Same as above except jet bu will be fired.
T ICS		Thruster lu Command	212	28±11	< 3K	>500K	52K	22K	Same as above except jet lu will be fired.
LIS 3	E9	Thruster 2s Command	2±2	28±11	< 3K	>500K	22K	- 22K	Same as above except jet 2s will be fired.
70-10004	ElO	Thruster is Command	`2±2	28±11	< 3K	\$500K	2 2 K	Sex	Same as above except jet is will be fired.
2	Ell	Thruster 4s Command	2±2	28±11	< 3K	>500K	23K	2 2K	Same as above except jet 4s will be fired.
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	ID SIGNAL		SIGNAL LEVEL DC VOLTS		Z SOURCE				FUNCTIONAL DESCRIPTION
E		LOGIC	" j"	"0"		"0"	" "	"0"	DESCRIPTION
INTERFACE	E13	Thruster 3s Command	2±2	28±11	< 3K	>500K	22K	52K	Same as above except jet 3s will be fired.
CONTROL	E13	Thruster 27 Command	2±2	28±11)	< 3K	>500K	22K	22K	Same as above except jet 2f will be fired.
Carlo I	E14	Thruster 3f Command	2±2	28±11	< 3K	>500K	\$2K	22K	Same as above except jet 3f will be fired.
DOCUMENT	E15	Thruster 47 Command	2±2	28±11	< 3K	>500K	22K	22K	Same as above except jet hf will be fired.
	E16	Thruster If Command	2±2	28±11	< 3K	>500K	epek T	SSK	Same as above except jet lf will be fired.
SHEE	TDRR				2 <u>2</u>				
T ICD NO.	CO								
0	5.4				"0" is	impedar specifi a B+ of	ed for	ogic a	
-1000 ⁴	SF T T'NOF				"l" is	impedar specifi i Ic of	ce for ed for 5ma.	ogic a	
REV	1970		3 2 3						