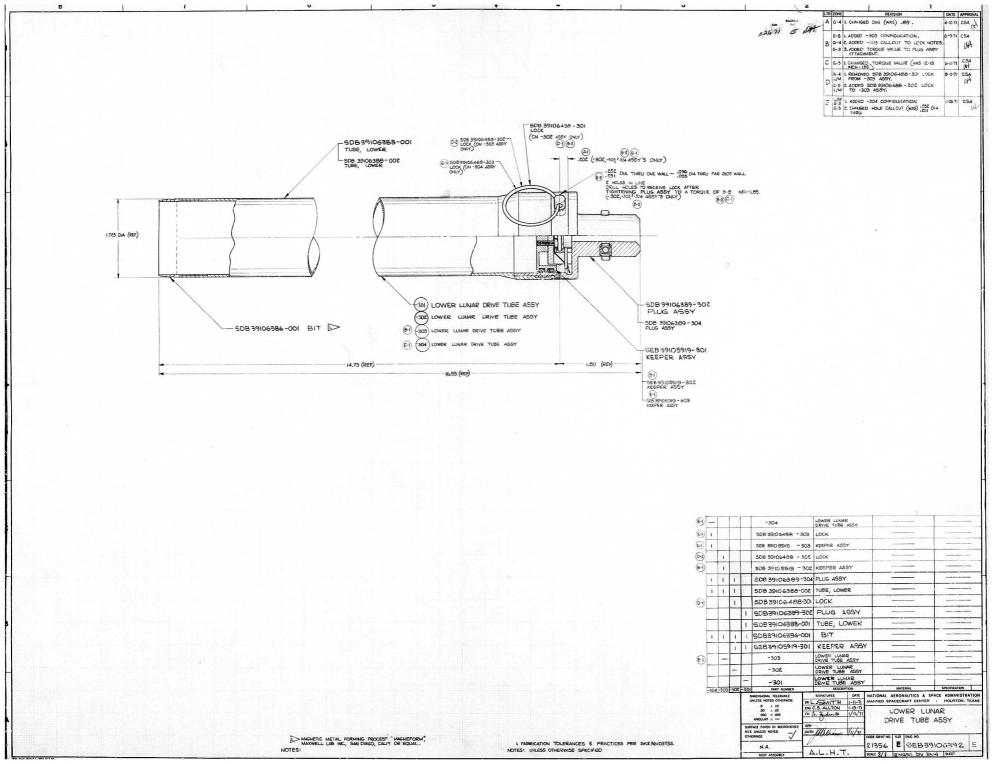
LOWER DRIVE TUBE TECHNICAL DRAWINGS

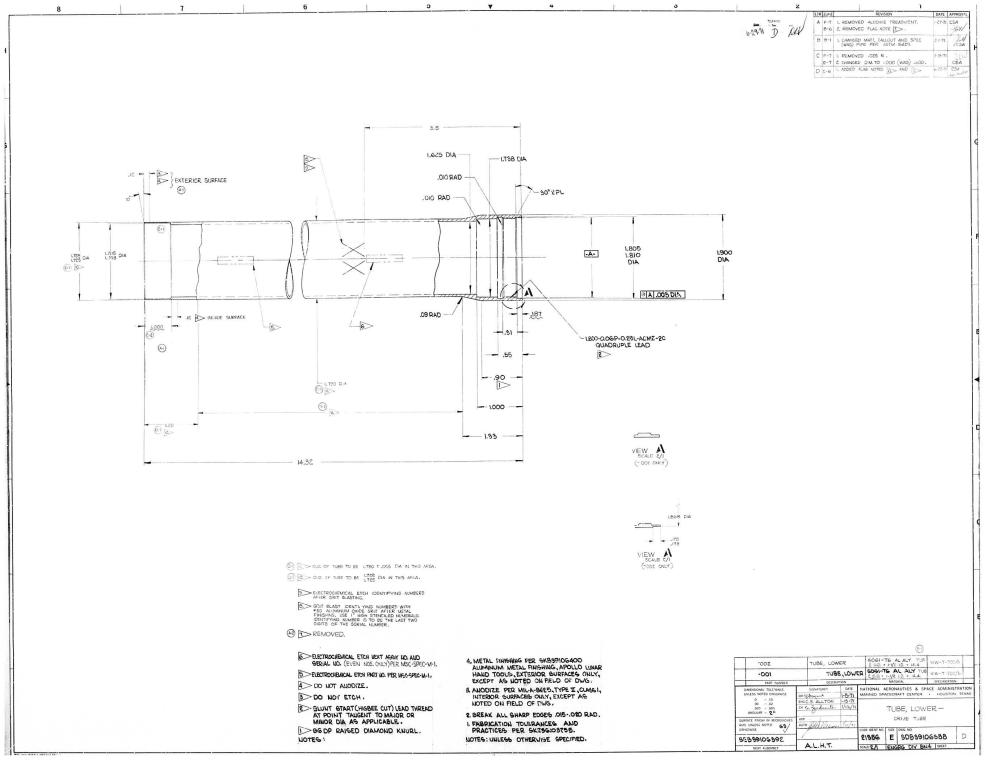
NOTE: These are archival drawings generated prior to 8/29/1972 and are suitable for reference only. They depict sampling hardware which has been exhibited to the public since that time.

The LOWER DRIVE TUBE ASSY is the device with a bit used for either single or the lower portion of a double drive tube.

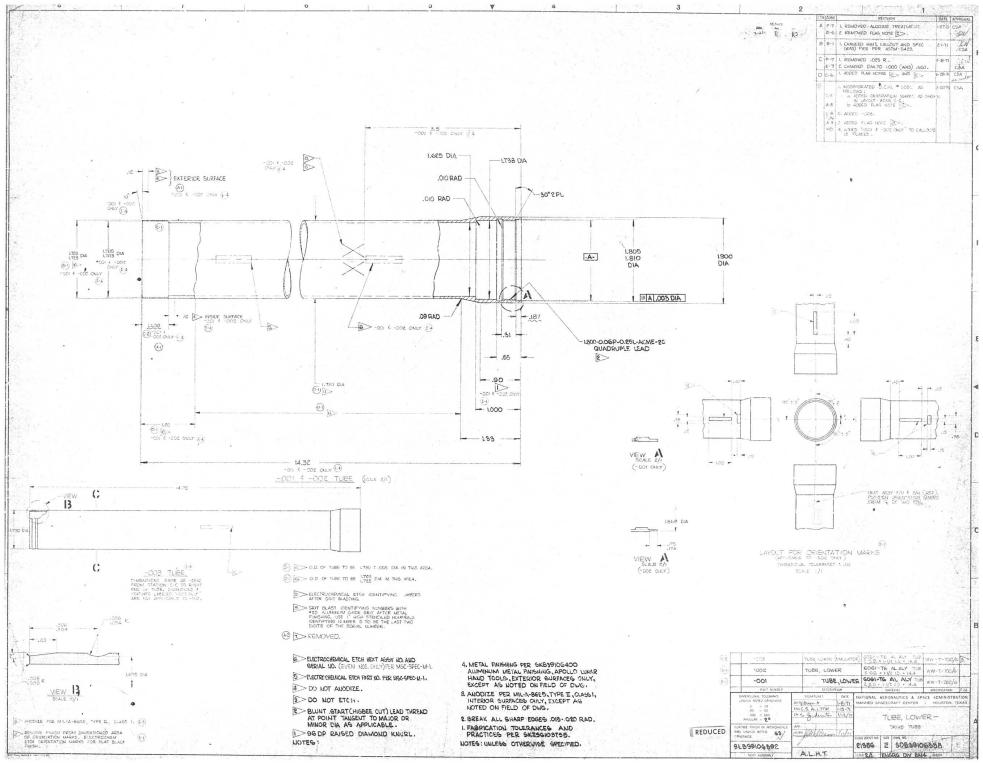
CONTENTS:

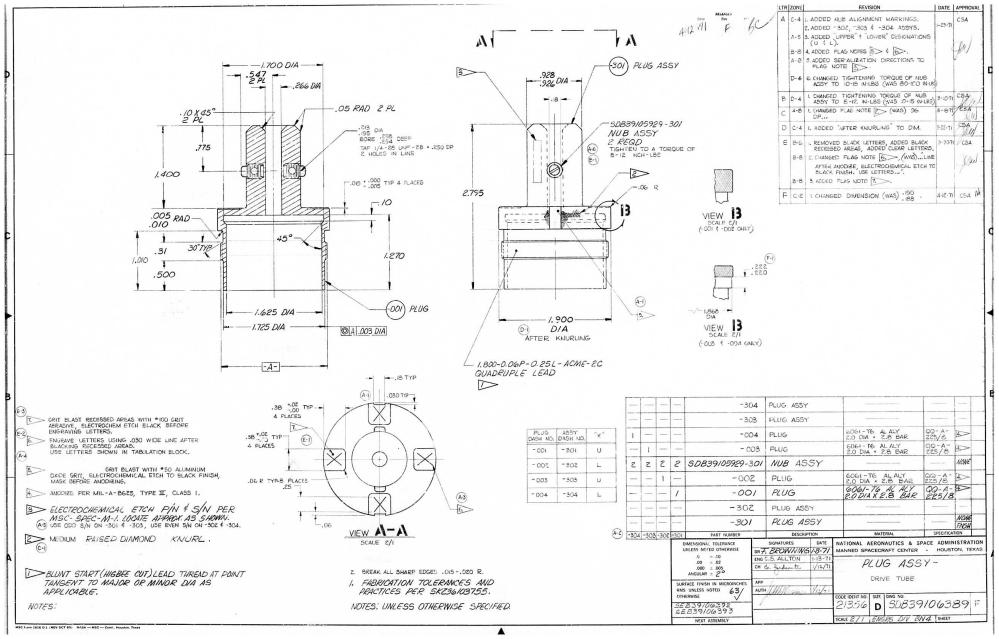
LOWER DRIVE TUBE ASSY	SEB39106392_E
TUBE, LOWER	SDB39106388_D
TUBE, LOWER	SDB39106388_D_30510
TUBE, LOWER	SDB39106388_E
PLUG ASSY	SDB39106389_F
BIT	SDB39106386_C
LOCK	SDB39106488_E
KEEPER	SEB39105919_D
Related drawings for background-	
UPPER LUNAR DRIVE TUBE ASSY	SEB39106393_E
TUBE, UPPER	SDB39106387_C
TUBE, UPPER	SDB39106387_C_30509

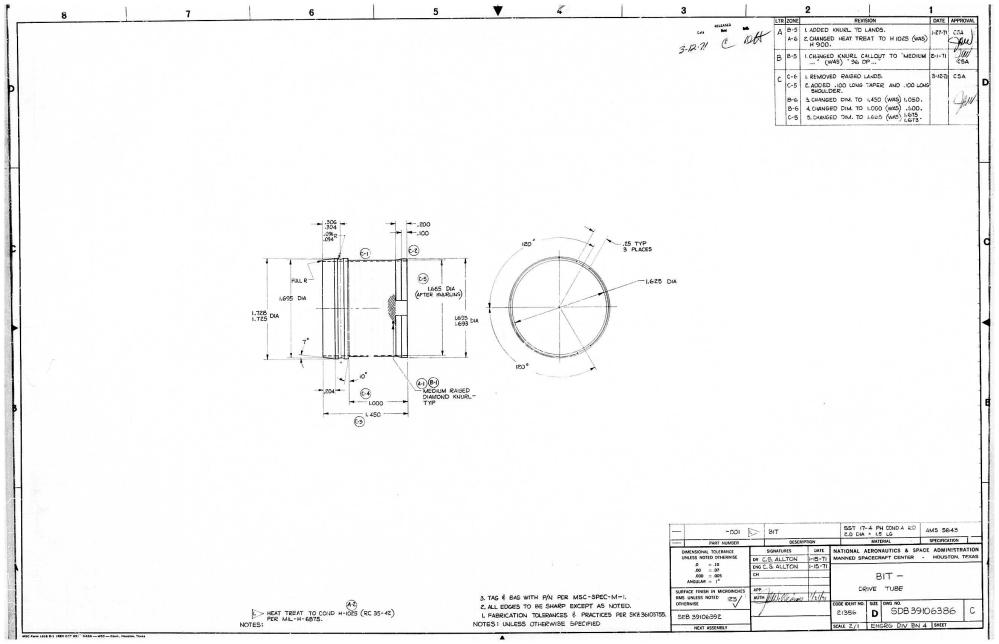


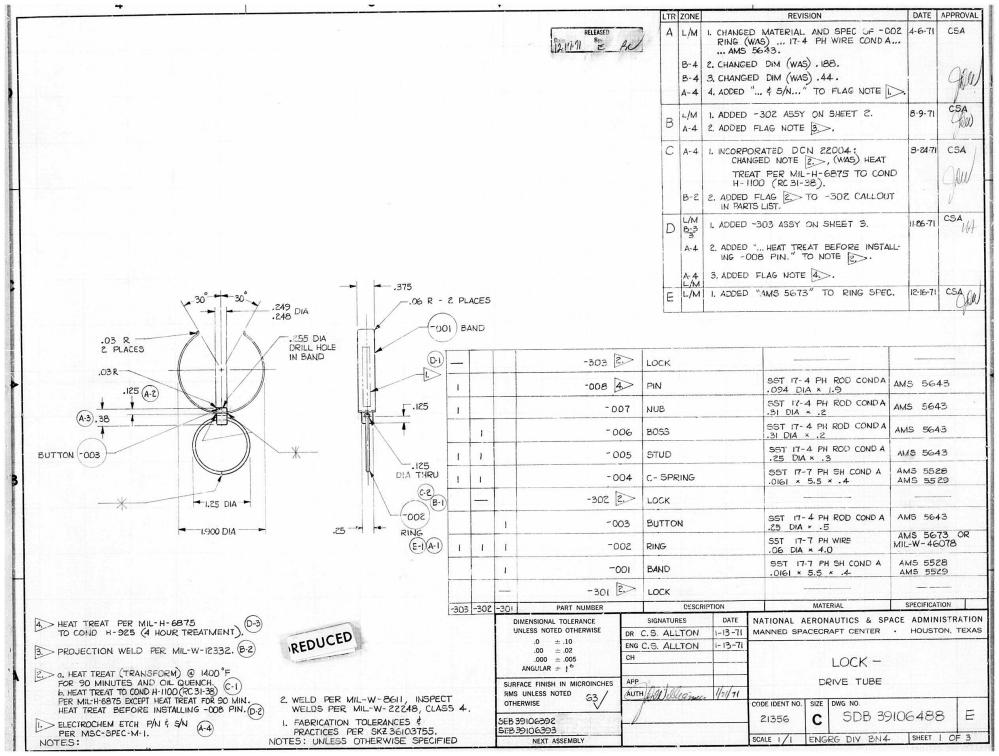


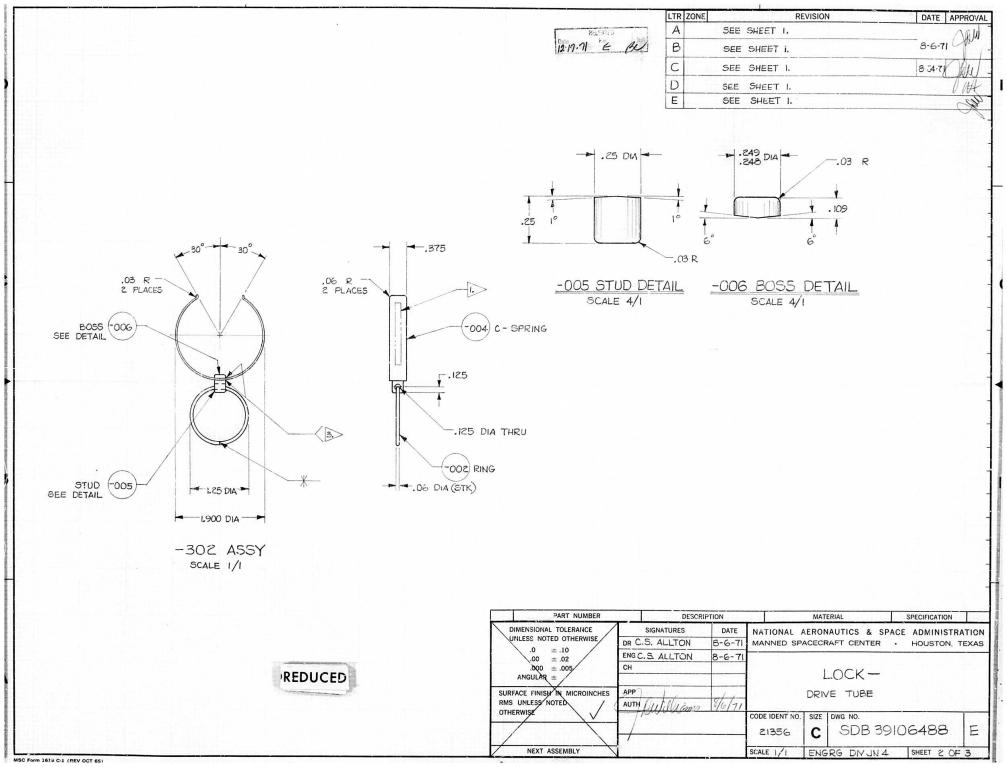
NUMBER	30519	8-29-72	DRAWIN	G CHANG	E NOTICE		SHEET 1 OF	
DRAWING NO.		REV.	REASON FOX CHANGE		ORIGINATOR	DATE	R	ELEASE
	39106388	D			C.S. ALLTON	8-29-72		
TUBE, LOWER - DRIVE			DESIGN IMP	ROVEMENT	APPROVED		Date	ELEASED Rev Init
PROJECT	DRAWING TO BE CHANGED	YES NO			APPROVED		8.29.72	D AS
DISPOSITION O	F EXISTING MATL/PARTS	-	EFFECT	IVITY	j	,		
USE AS IS RETURN TO STOCK	REWORK		2	SERIAL NO. 2044, 2046, 2048, 2050, 2052.	Williams	929/2.		
DESCRIPTION	ON OF CHANGE	T. Letter						
I. ADD OR	HENTATION MARKS	AS SH	OWN (DIMENSIONAL	.15 //	1.00			
2. ADD FL	AG NOTE IZ. REMOVE FINISH AREA OF ORIENT ELECTROCHEM I MARKS FOR FLA FINISH.	FROM ATION I	DIMENSIONED MARKS, IENTATION	.40	E CONTRACTOR OF THE PROPERTY O	-+	- -,40	
								25
			i . (180°		\Box	-	.15 ↓
			38	- q	(- - - -			38
			1 .15		90±5° L			
				-,15	\$0.5	-	1.00	.15
			1.00	- [NEXT	ASSY NO). ¢
				1		5/N	(REF). PO	SITION
					No.	FRO	M & OF	THIS P/N.
PA	RT NUMBER		DESCRIPTION	MATERIAL	SPECIFICAT	ION		CHANGE

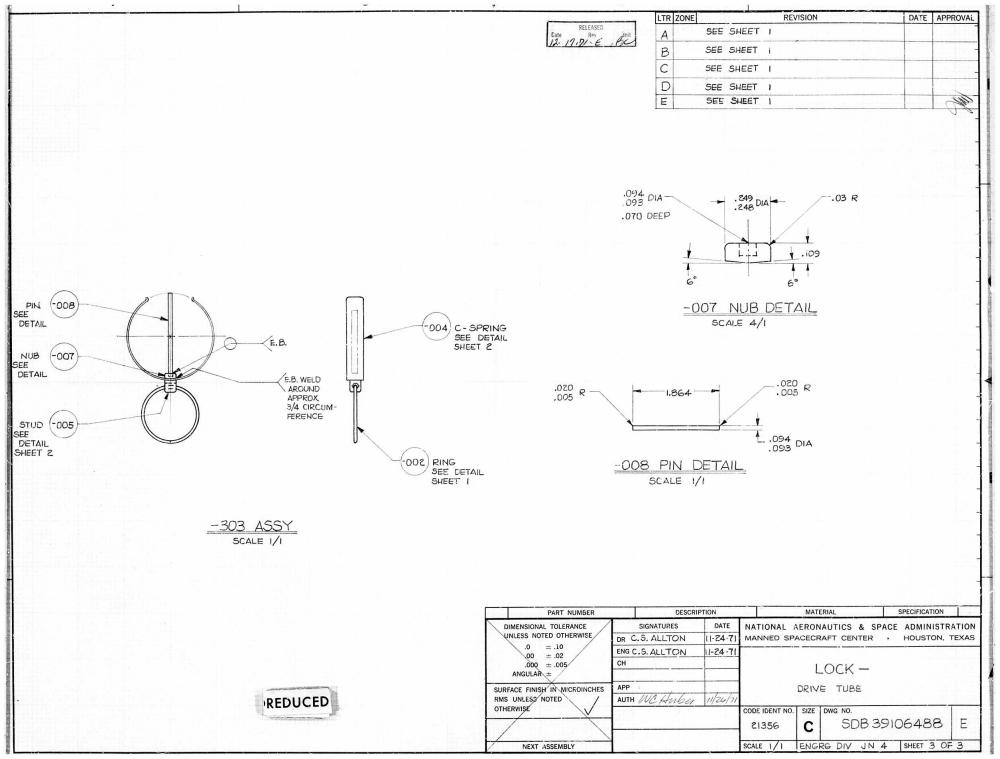




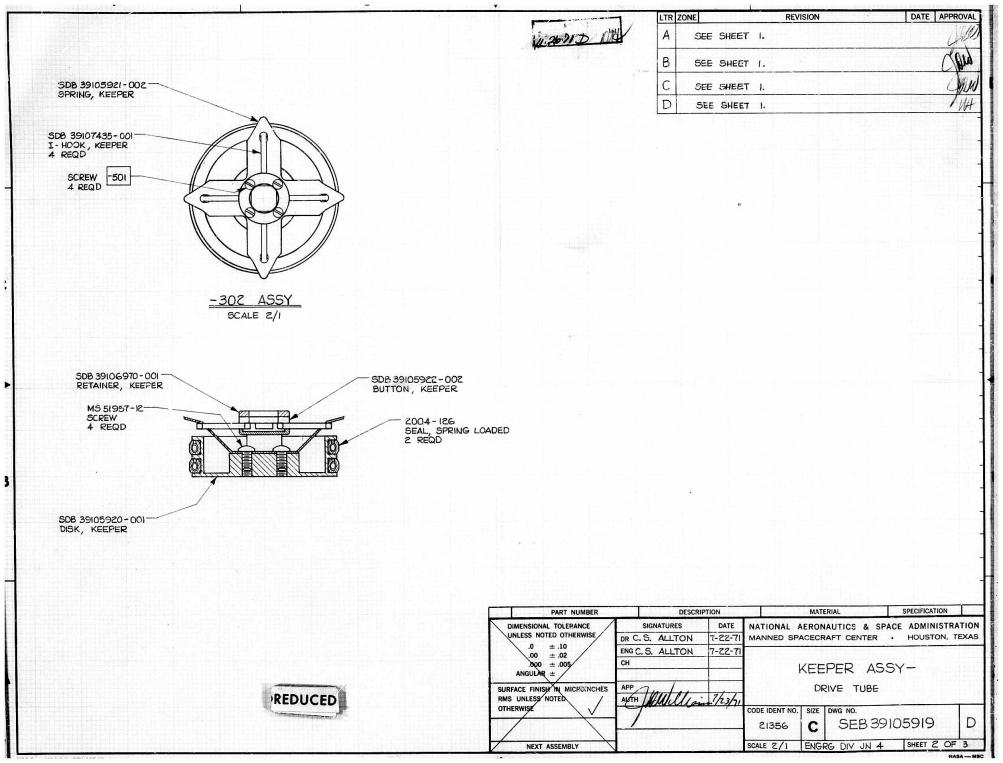


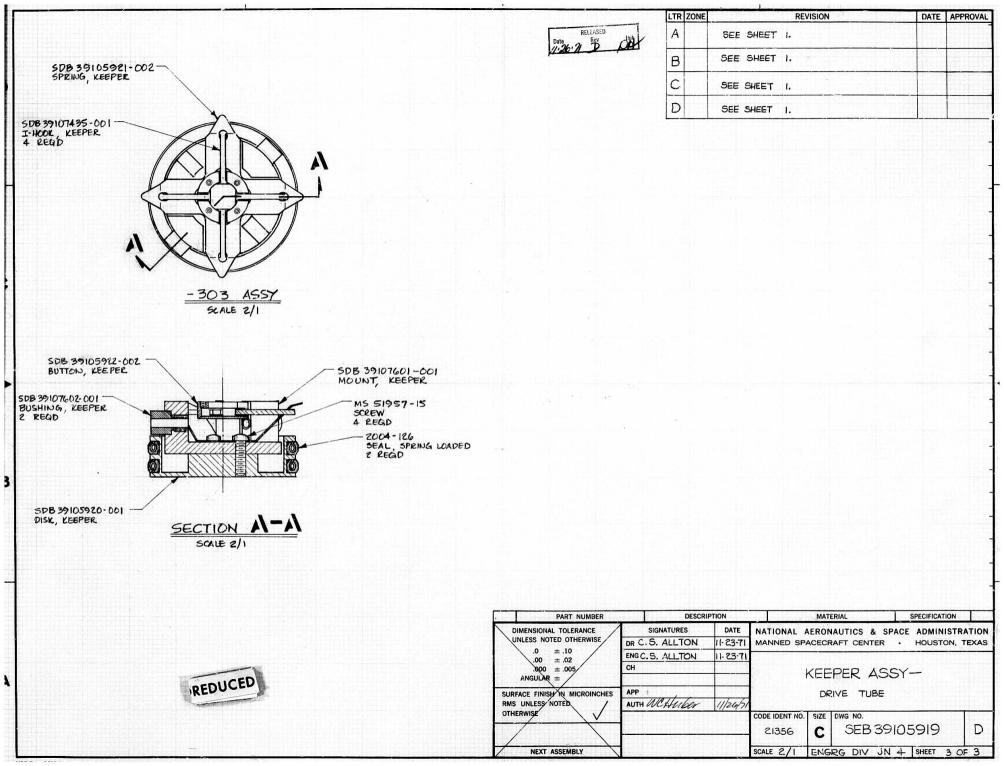


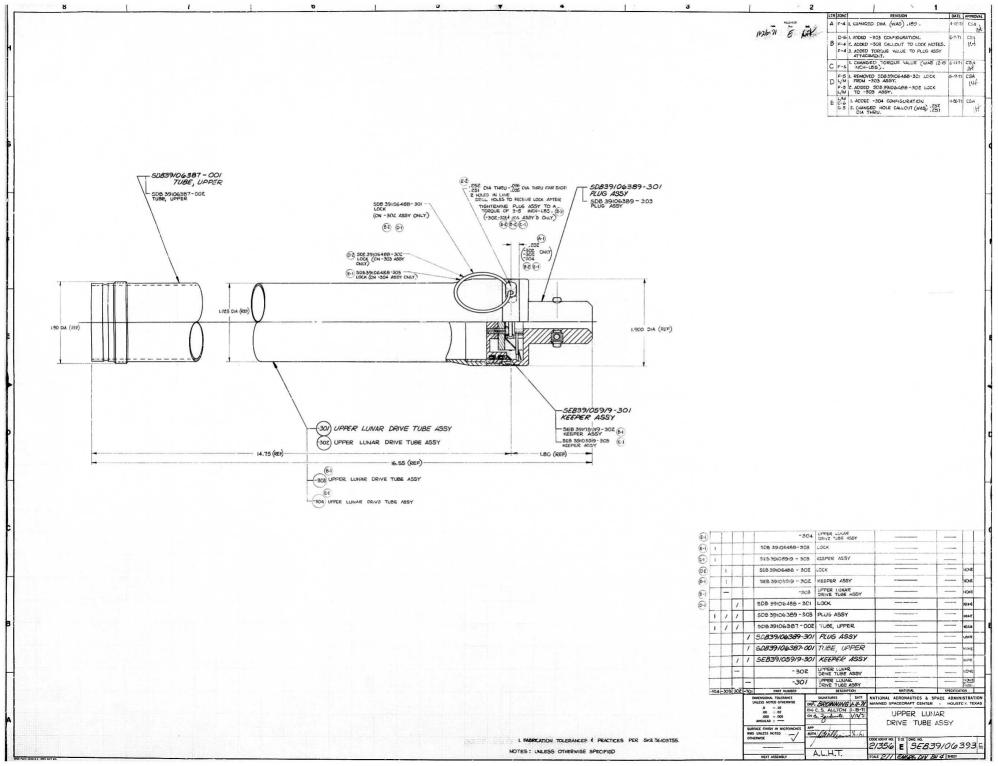


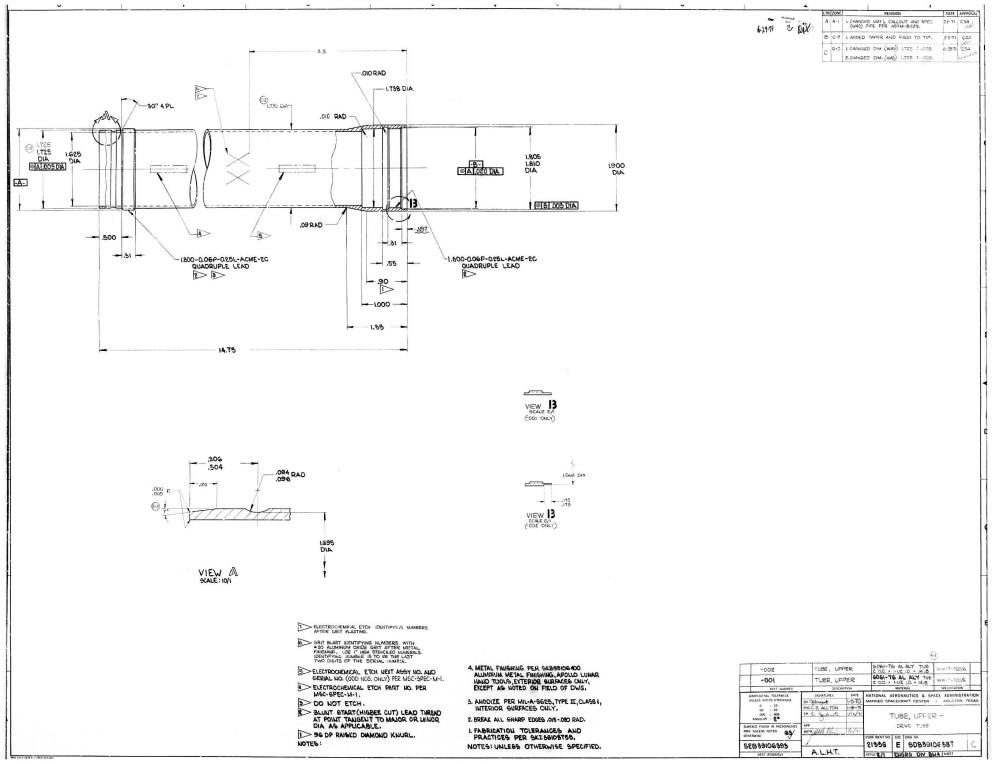


					Date RELEASED IN. 11: 26: 21 D DF	id .	A C-4 REPLACET	REVISION 1 *2004 - 128 SPRING SEALS 104 - 126 SPRING SEALS 10 SDB 39105923 - 301 CAB 11TH SDB 39106394 - 001	DATE APPROVAL E I-18-71
A /	A							TAINER CALLOUT TO L/M 03 CONFIGURATION ON	7-22-71 CSA JOU 7-21-71 CSA JOU 11-26-71 CSA JA
1									
					-30	3 1	KEEPER ASSY	CART MOSS SEC	
	9	4			MS 51957-15		SCREW, MACH-PAN HD	CRES CROSS-REC #4-40 UNC-ZB × 3/8	
	(e)	2			5DB 39107602-0	001 E	BUSHING, KEEPER		
-30		1			SD8 39107601-0	001 N	MOUNT, KEEPER		
SDB 39105922 -001	MS 51957-12 SCREW,	l vij	1		(C-I) SDB 39106970 - 0	001 F	RETAINER, KEEPER		
(A-2) SDB 39106394-001 HOCK - 4 REQD	4 REQD	d I	4		-501		SCREW, FLAT HEAD	CRES 0-80 × .12 LG	•
5DB 39105921-001 SPRING		4	4		5DB 39107435-0	001	I-HOOK, KEEPER		
	SDB 39105920	1	1		SDB 39105922-0	002 1	BUTTON, KEEPER		
(A-I) 2004-126 SEAL, SPRING	-001 DISK		1		SDB 39105921-00		SPRING, KEEPER		
LOADED - 2 REGD			4	4	MS 51957-12		SCREW, MACH - PAN HD	CRES CROSS RECESSED #4-40 UNC-ZA × 3/16	
SECTI SCA	ON 1-1	2	2	2	2 2004-126		SEAL, SPRING LOADED	SST 302 \$ TEFLON 1.562 O.D. × 1.375 I.D.	
	A-2)			4	SDB 39106394-0	100	ноок		
AND MAYER TO STRATE TO STR					SDB 39105922 TO	100	BUTTON		
				1	SDB 39105921 T	001	SPRING		
		1			SDB 39105920 = 0		DISK		
	(B-1)						KEEPER ASSY		
							KEEPER ASSY		
			-302	-301	processing and the large		DESCRIPTION	MATERIAL	SPECIFICATION
BAL SEAL ENGRG CC, TUSTIN,					DIMENSIONAL TOLERANCE UNLESS NOTED OTHERWISE .0 ± .10 .00 ± .02 .000 ± .005 ANGULAR ± — RFACE FINISH IN MICROINCHES	DR C.S ENG C.S CH	S. ALLTON 8-21-70 M. S. ALLTON 1-18-71	ATIONAL AERONAUTICS & SPACEANNED SPACECRAFT CENTER KEEPER ASS DRIVE TUBE	HOUSTON, TEXAS
CALIF. OR EQUAL.				OTHERWISE		AUTH		DE IDENT NO. SIZE DWG NO. 21356 C SEB 391	0.5919 D
NOTES:	1. FABRICATION TOLERANCES \$ PRACTICES PER SKZ 36103755 NOTES: UNLESS OTHERWISE SPECIF	i. -IED			SEB 39106392 SEB 39106393 NEXT ASSEMBLY			ALE 2/1 ENGRG DIV BN 4	









NUMBER 30509	DATE 8-29-72	DRAWIN	G CHANG	SE NO	TICE		SHEET 1	OF [
DRAWING NO.	REV.	REASON FOR CHANGE		ORIGINATOR		DATE		RELEASE	
SDB 39106387	С			C.S. ALL	TON 8	3-29-72			
TUBE, UPPER — I		DESIGN IMPR	OVEMENT	APPROVED			Date	RELEASED Rev	Init
PROJECT DRAWING	YES NO			APPROVED		- 1	Date 7.29,72	CA	12
DISPOSITION OF EXISTING MATL/PART	Marin S. Waller and Conference of the Service	EFFEC.	TIVITY						4
USE AS IS REWORLD CONDE	K 🔀	MODEL	SERIAL NO. 2031 , 2033, 2035 , 2037	AUTH OF	liams	129/12			
DESCRIPTION OF CHANGE									- 148
I. ADD ORIENTATION MARK TOLERANCES ± .03).	S AS SHO	WN (DIMENSIONAL	.15		1.00				
Z. ADD FLAG NOTE 8 AS									
8. REMOVE FINISH AREA OF ORIEN	FROM	DIMENSIONED IARKS.	.40						
ELECTROCHEM I	ETCH DRIE	NTATION					·40		
FINISH.			H40	Ę			,40	25	
					90°±3°				
		T ()	180°±	3	//	M		1.15	
		38		$(-\downarrow -)$	1	1.1.		-38	
		Total Surfices	- P		1 4		- 11	1	
		.15	#4	No.	°±5°	14			
			-15	-			1.00		
		1.00	-						
							ASSY H		
			1					N MARKS	
				hat		FRO	M & OF	MARKS THIS P/N.	
				15					
				لنال					n va
PART NUMBER		DESCRIPTION	MATERIAL		SPECIFICATION			CHANGE	