

# Engineering Release

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<input type="checkbox"/> INITIAL RELEASE	<input type="checkbox"/> ADVANCE	CLASSIFICATION <input type="checkbox"/> I <input checked="" type="checkbox"/> II	QUAL STATUS IMPACTED? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	NUMBER 8W-0000007475
<input checked="" type="checkbox"/> ENGINEERING ORDER	<input type="checkbox"/> REVISION NOTICE		ATP AFFECTED? <input type="checkbox"/> Y <input checked="" type="checkbox"/> N	PAGE 1 OF 2
<input type="checkbox"/> VARIATION ENGINEERING ORDER				

DOCUMENT NUMBER: <b>1030-5579</b>	DOCUMENT TITLE: Cable Assembly, 1W1, GQM-163A STBD BOOSTER INTFC	FROM: -	TO: -1
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JOB NUMBER(S): 40 106004.007.201.1010101140	8/7/06 for m. Bullock
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HW ID REQMENTS (INITIAL RELEASE ONLY) <input type="checkbox"/> P/N <input type="checkbox"/> S/N <input type="checkbox"/> D/L CODE	COMMODITY CODE 10318	MRP <input type="checkbox"/>	MAKE/BUY DETERMINATION - SELECT ONLY ONE <input checked="" type="checkbox"/> MAKE <input type="checkbox"/> BUY <input type="checkbox"/> REFERENCE (DOC ONLY)
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NEW DASH NUMBERS NA	FOR INITIAL RELEASE EFFECTIVITY, STATUS OF ITEMS AND DISPOSITION IS NOT REQUIRED. FOR ALL CHANGES (EO, RN, VEO), SEE ATTACHED EFFECTIVITY WORKSHEET(S).	NEXT HIGHER ASSY (S) →
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REASON FOR CHANGE: C1A

ECR(S) INCORP: GQM0126	IPCR(S) INCORP:	NC(S) INCORP:
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ZONE	DESCRIPTION OF CHANGE	CM DATA
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**WAS:**

TABLE B														CONN/BSHL TORQUE IN LB	STRAIN RELIEF TORQUE IN LB	SADDLE CLAMP HDW TORQUE IN LB	CONNECTOR TERMINATION TYPE	REF CABLE DIA
CONN DESIG	TERM TYPE (5600-8575)	A	B	C	D	E	F	G	H	I	J	K						
P1	SEE VIEW A-A	-	-	-	-	-	-	-	-	-	-	-	116.0+5.0	NA	NA	CRIMP	.42	
P2	Figure 6-12	5	6	8	9	NA	11	12	-	-	-	-	40.0+5.0	NA	NA	CRIMP	.23	
P3	Figure 6-12	5	6	8	9	NA	11	12	-	-	-	-	40.0+5.0	NA	NA	CRIMP	.23	

**IS:**

TABLE B														CONN/BSHL TORQUE IN LB	STRAIN RELIEF TORQUE IN LB	SADDLE CLAMP HDW TORQUE IN LB	CONNECTOR TERMINATION TYPE	REF CABLE DIA
CONN DESIG	TERM TYPE (5600-8575)	A	B	C	D	E	F	G	H	I	J	K						
P1	Figure 6-12	5	6	7	9	10	11	12	-	-	-	-	116.0+5.0	NA	NA	CRIMP	.42	
P2	Figure 6-12	5	6	8	9	NA	11	12	-	-	-	-	40.0+5.0	NA	NA	CRIMP	.23	
P3	Figure 6-12	5	6	8	9	NA	11	12	-	-	-	-	40.0+5.0	NA	NA	CRIMP	.23	

DISTRIBUTION (NAME/LOCATION):			
PREPARED BY: Morgan T. Bullock	DATE: 7/31/2006	ELECTRICAL ENGINEERING (WHEN REQ'D): KEITH STAPLEY E103339	DATE: 8-4-06
PROGRAM: Edwin 102	DATE: 8/4/06	PROPULSION ENGINEERING (WHEN REQ'D): N/A	DATE:
DESIGN: 100342	DATE: 8 Aug 06	MECHANICAL ENGINEERING (WHEN REQ'D): N/A	DATE:
PRODUCT LEAD (WHEN REQ'D): N/A	DATE:	SYSTEMS ENGINEERING (WHEN REQ'D): N/A	DATE:
MANUFACTURING: 125	DATE: 8/9/06	ENVIRONMENTS (WHEN REQ'D): N/A	DATE:
QUALITY ASSURANCE: <input checked="" type="checkbox"/> HW <input type="checkbox"/> SW JEFF KORONITCH 103105	DATE: 8-10-06	MECHANICAL TEST (WHEN REQ'D): N/A	DATE:
PLANNING & CONTROL: 103088	DATE: 8/8/06	MATERIALS & PROCESSES (WHEN REQ'D): N/A	DATE:
SOFTWARE ENGINEERING (WHEN REQ'D): N/A	DATE:	SYSTEM/INDUSTRIAL SAFETY (WHEN REQ'D): N/A	DATE:
102 11/2/06	DATE: 8/7/06	SYSTEM/RANGE SAFETY (WHEN REQ'D): N/A	DATE:

**ORIGINAL**

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\* CM → SEE ATTACHED Pg 2  
AUG 8 AM

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**Orbital**

CUSTOMER APPROVAL/CONCURRENCE (WHEN REQ'D):	DATE:	CONFIGURATION MANAGEMENT:	DATE:
		<i>[Signature]</i> 103/10	8/11/06

ECN- 7475  
2 OF 2

 ORIGINAL

AUG 8 A.M.

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# Engineering Release Effectivity Worksheet

ER NUMBER <u>80-00000007475</u>			PAGE 1 OF 1	SHEET REVISION (Circle One)					JOB NUMBER(S): <u>106004.007.201.1010101140</u>		
DOCUMENT NUMBER <u>1030-5579 (-1)</u>				<u>New</u> R1 R2 R3 R4	R5 R6 R7 R8 R9						
ECR NUMBER (when applicable) <u>GQM0126</u>											
REV	DASH NO.	NEW DASH NO.	EFFECTIVITY	STATUS OF ITEMS	DISPOSITION	S/N REQ'D	MAKE/BUY	NEXT HIGHER ASSEMBLY			
	<u>-001</u>		<u>AMD</u>	<u>N/A</u>	<u>N/A</u>	<u>Y</u>	<u>M</u>				
			<u>30</u>								
COMMENTS											
PREPARED BY: Morgan T. Bullock				DATE: 8/01/2006	QUALITY ASSURANCE: <u>JEFF KOKORITCH # 103105</u>			DATE: 8/10/06			
PLANNING & CONTROL: <u>Rich Hughes 103088</u>				DATE: 8/8/06	CONFIGURATION MANAGEMENT: <u>9/5/103100</u>			DATE: 8/11/06			

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## ORBITAL SCIENCES CORPORATION

UNRELEASED

Drawing #: 1030-5579 Description: CABLE ASSY, 1W1, GQM-163A STBD BOOSTER INTFC Rev. Change To: -1 Cage: 27555 ECN-00000007475

Comp Find	Comp Ln No	Comp Part Id	Item Description	Cage Id	U/M	TYPE	-001
0001	1	D38999/26FD18PN	CONNECTOR CIRC STR PLUG	MS	EA		1
0002	2	MS3126E10-6S	CONNECTOR CIRC PLUG STRT	MS	EA		2
0003	3	440DS031M1031-3	BACKSHELL-STRAIGHT-BANDING	06324	EA		1
0004	4	440DH031M1031	BACKSHELL-BANDING	06324	EA		1
0005	8005	WRCM-717-637W	LABEL, CABLE, WHITE	85480	RL	AR	0
0006	6	FLEX7412	SLEEVING-1/2" INSIDE DIAMETER, 1/16" WALL	87585	FT		7
0007	8007	FIT-221-1	TUBING, SHRINK, BLK, 1"	92194	FT	AR	0
0008	8008	FIT-221-1/2	TUBING, SHRINK, 1/2"	92194	FT	AR	0
0009	9	2172	BRAID-METAL TUBULAR 3/8	92194	FT		4
0010	8010	M83519/2-8	TERMINATOR, SHIELD, W / LEAD	MS	EA	AR	0
0011	8011	S063-3-01	TERMINATOR, SHIELD W / BRAIDED STRAP	06090	EA	AR	0
0012	12	600-052	BAND, METAL	06324	EA		3
0013	13	M27500-20SP2S23	CABLE, 20 AWG, TW / SH / PR	MS	FT		5
0014	14	M22759/43-20-9	WIRE, 20 AWG STRANDED, SINGLE	MS	FT		2
0015	15	1030-2013-001	TUBE, CONNECTOR LANYARD	27555	EA		1
0016	16	1030-2016-001	PLUG, CONNECTOR ADAPTER	27555	EA		1
0017	17	1030-2120-001	PLUG, HOLD DOWN	27555	EA		1
0018	18	1030-2122-001	GROMMET	27555	EA		1
0019	19	NAS1423-20	NUT HEX PLAIN 1.25-12 UNF	MS	EA		2
0020	20	NAS1149C2016R	WASHER-FLAT-1/14	MS	EA		2
0021	8021	LC-136	TAPE, FLAT, BRAIDED	92194	RL	AR	0
0022	8022	69	TAPE, FIBERGLASS CLOTH	76381	EA	AR	0
0023	8023	620-1	TAPE, SILICON, RED, (MOX TAPE) .020 THICK 1.0" WIDE	0H6Y7	EA	AR	0
0024	9024	TM-8575	CABLE WORKMANSHIP AND ACCEPTANCE STANDARDS	27555	REF	REF	0
0025	9025	TM-16599	GQM-163A ATP FOR FLIGHT AND GSE CABLES	27555	REF	REF	0

FINAL  
DRAFT  
initials  date 8/11/06  
KM 103386