

# GLAST LAT Tracker Subsystem

## TOWER ASSEMBLY and TEST FLOW CHART

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**Tower P/N:**

LAT-DS-00722

**Revision number:**

3

**Tower S/N:**

15

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**Assembly supervisor**

Emilio Rapposelli

**Assembly operator 1**

Francesco Bellardi

**Assembly QA responsible**

Aldo Troianiello

**Assembly operator 2**

Nicola Saggini

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**Tower  
Assembly**

**Tray Assembling**

**Top Tray (n° 18)**

<b>IDENTIFICATION:</b>		
<b>tray type:</b>	<b>tray S/N:</b>	<b>tray weight (gr):</b>
T	019	1225

<b>VISUAL INSPECTION:</b>	
<b>Date (mm/dd/yyyy):</b>	<b>Note</b>
9/19/2005 12:31:56 PM	
<b>Flag</b>	
OK	

<b>MOUNTING:</b>	
<b>Date (mm/dd/yy):</b>	<b>Note</b>
9/19/2005 12:31:57 PM	

**Mid Tray (n° 17)**

<b>IDENTIFICATION:</b>		
<b>tray type:</b>	<b>tray S/N:</b>	<b>tray weight (gr):</b>
<input type="text" value="M"/>	<input type="text" value="159"/>	<input type="text"/>

<b>VISUAL INSPECTION:</b>	
<b>Date (mm/dd/yyyy):</b>	<b>Note</b>
<input type="text" value="9/19/2005 12:33:34 PM"/>	<input type="text"/>
<b>Flag</b> <input type="text" value="OK"/>	

<b>MOUNTING:</b>	
<b>Date (mm/dd/yy):</b>	<b>Note</b>
<input type="text"/>	<input type="text"/>

**Mid Tray (n° 16)**

<b>IDENTIFICATION:</b>		
<b>tray type:</b>	<b>tray S/N:</b>	<b>tray weight (gr):</b>
<input type="text" value="M"/>	<input type="text" value="197"/>	<input type="text"/>

<b>VISUAL INSPECTION:</b>	
<b>Date (mm/dd/yyyy):</b>	<b>Note</b>
<input type="text" value="9/19/2005 12:33:37 PM"/>	<input type="text"/>
<b>Flag</b> <input type="text" value="OK"/>	

<b>MOUNTING:</b>	
<b>Date (mm/dd/yy):</b>	<b>Note</b>
<input type="text" value="9/19/2005 12:33:39 PM"/>	<input type="text"/>

**Mid Tray (n° 15)**

<b>IDENTIFICATION:</b>		
tray type:	tray S/N:	tray weight (gr):
<input type="text" value="M"/>	<input type="text" value="192"/>	<input type="text"/>

<b>VISUAL INSPECTION:</b>	
Date (mm/dd/yyyy):	Note
<input type="text" value="9/19/2005 12:33:44 PM"/>	<input type="text"/>
Flag <input type="text" value="OK"/>	

<b>MOUNTING:</b>	
Date (mm/dd/yy):	Note
<input type="text" value="9/19/2005 12:33:45 PM"/>	<input type="text"/>

**Mid Tray (n° 14)**

<b>IDENTIFICATION:</b>		
tray type:	tray S/N:	tray weight (gr):
<input type="text" value="M"/>	<input type="text" value="172"/>	<input type="text"/>

<b>VISUAL INSPECTION:</b>	
Date (mm/dd/yyyy):	Note
<input type="text" value="9/19/2005 12:33:48 PM"/>	<input type="text"/>
Flag <input type="text" value="OK"/>	

<b>MOUNTING:</b>	
Date (mm/dd/yyyy):	Note
<input type="text" value="9/19/2005 12:33:53 PM"/>	<input type="text"/>

**Mid Tray (n° 13)**

<b>IDENTIFICATION:</b>		
<b>tray type:</b>	<b>tray S/N:</b>	<b>tray weight (gr):</b>
<input type="text" value="M"/>	<input type="text" value="238"/>	<input type="text"/>

<b>VISUAL INSPECTION:</b>	
<b>Date (mm/dd/yyyy):</b>	<b>Note</b>
<input type="text" value="9/19/2005 12:48:39 PM"/>	<input type="text"/>
<b>Flag</b> <input type="text" value="OK"/>	

<b>MOUNTING:</b>	
<b>Date (mm/dd/yy):</b>	<b>Note</b>
<input type="text" value="9/19/2005 12:48:40 PM"/>	<input type="text"/>

**Mid Tray (n° 12)**

<b>IDENTIFICATION:</b>		
<b>tray type:</b>	<b>tray S/N:</b>	<b>tray weight (gr):</b>
<input type="text" value="M"/>	<input type="text" value="226"/>	<input type="text"/>

<b>VISUAL INSPECTION:</b>	
<b>Date (mm/dd/yyyy):</b>	<b>Note</b>
<input type="text" value="9/19/2005 3:04:17 PM"/>	<input type="text"/>
<b>Flag</b> <input type="text" value="OK"/>	

<b>MOUNTING:</b>	
<b>Date (mm/dd/yy):</b>	<b>Note</b>
<input type="text" value="9/19/2005 3:04:17 PM"/>	<input type="text"/>

**Mid Tray (n° 11)**

<b>IDENTIFICATION:</b>		
tray type:	tray S/N:	tray weight (gr):
<input type="text" value="M"/>	<input type="text" value="175"/>	<input type="text"/>

<b>VISUAL INSPECTION:</b>	
Date (mm/dd/yyyy):	Note
<input type="text" value="9/19/2005 3:04:51 PM"/>	<input type="text"/>
Flag <input type="text" value="OK"/>	

<b>MOUNTING:</b>	
Date (mm/dd/yy):	Note
<input type="text" value="9/19/2005 3:04:51 PM"/>	<input type="text"/>

**Mid Tray (n° 10)**

<b>IDENTIFICATION:</b>		
tray type:	tray S/N:	tray weight (gr):
<input type="text" value="M"/>	<input type="text" value="178"/>	<input type="text"/>

<b>VISUAL INSPECTION:</b>	
Date (mm/dd/yyyy):	Note
<input type="text" value="9/19/2005 3:21:57 PM"/>	<input type="text"/>
Flag <input type="text" value="OK"/>	

<b>MOUNTING:</b>	
Date (mm/dd/yy):	Note
<input type="text" value="9/19/2005 3:21:58 PM"/>	<input type="text"/>

**Mid Tray (n° 09)**

<b>IDENTIFICATION:</b>		
tray type:	tray S/N:	tray weight (gr):
<input type="text" value="M"/>	<input type="text" value="227"/>	<input type="text"/>

<b>VISUAL INSPECTION:</b>	
Date (mm/dd/yyyy):	Note
<input type="text" value="9/19/2005 3:36:02 PM"/>	<input type="text"/>
Flag <input type="text" value="OK"/>	

<b>MOUNTING:</b>	
Date (mm/dd/yy):	Note
<input type="text" value="9/19/2005 3:36:07 PM"/>	<input type="text"/>

**Mid Tray (n° 08)**

<b>IDENTIFICATION:</b>		
tray type:	tray S/N:	tray weight (gr):
<input type="text" value="M"/>	<input type="text" value="221"/>	<input type="text"/>

<b>VISUAL INSPECTION:</b>	
Date (mm/dd/yyyy):	Note
<input type="text" value="9/19/2005 3:43:38 PM"/>	<input type="text"/>
Flag <input type="text" value="OK"/>	

<b>MOUNTING:</b>	
Date (mm/dd/yy):	Note
<input type="text" value="9/19/2005 4:21:58 PM"/>	<input type="text"/>

**Mid Tray (n° 07)**

<b>IDENTIFICATION:</b>		
tray type:	tray S/N:	tray weight (gr):
<input type="text" value="M"/>	<input type="text" value="222"/>	<input type="text"/>

<b>VISUAL INSPECTION:</b>	
Date (mm/dd/yyyy):	Note
<input type="text" value="9/19/2005 4:21:53 PM"/>	<input type="text"/>
Flag <input type="text" value="OK"/>	

<b>MOUNTING:</b>	
Date (mm/dd/yy):	Note
<input type="text" value="9/19/2005 4:21:52 PM"/>	<input type="text"/>

**Heavy Tray (n° 06)**

<b>IDENTIFICATION:</b>		
tray type:	tray S/N:	tray weight (gr):
<input type="text" value="H"/>	<input type="text" value="45"/>	<input type="text"/>

<b>VISUAL INSPECTION:</b>	
Date (mm/dd/yyyy):	Note
<input type="text" value="9/19/2005 4:22:28 PM"/>	<input type="text"/>
Flag <input type="text" value="OK"/>	

<b>MOUNTING:</b>	
Date (mm/dd/yy):	Note
<input type="text" value="9/19/2005 4:22:29 PM"/>	<input type="text"/>

**Heavy Tray (n° 05)**

<b>IDENTIFICATION:</b>		
tray type:	tray S/N:	tray weight (gr):
<input type="text" value="H"/>	<input type="text" value="74"/>	<input type="text"/>

<b>VISUAL INSPECTION:</b>	
Date (mm/dd/yyyy):	Note
<input type="text" value="9/19/2005 5:06:23 PM"/>	<input type="text"/>
Flag <input type="text" value="OK"/>	

<b>MOUNTING:</b>	
Date (mm/dd/yy):	Note
<input type="text" value="9/19/2005 5:06:31 PM"/>	<input type="text"/>

**Heavy Tray (n° 04)**

<b>IDENTIFICATION:</b>		
tray type:	tray S/N:	tray weight (gr):
<input type="text" value="H"/>	<input type="text" value="71"/>	<input type="text"/>

<b>VISUAL INSPECTION:</b>	
Date (mm/dd/yyyy):	Note
<input type="text" value="9/19/2005 5:06:45 PM"/>	<input type="text"/>
Flag <input type="text" value="OK"/>	

<b>MOUNTING:</b>	
Date (mm/dd/yy):	Note
<input type="text" value="9/19/2005 5:06:48 PM"/>	<input type="text"/>

**Heavy Tray (n° 03)**

<b>IDENTIFICATION:</b>		
tray type:	tray S/N:	tray weight (gr):
<input type="text" value="H"/>	<input type="text" value="80"/>	<input type="text"/>

<b>VISUAL INSPECTION:</b>	
Date (mm/dd/yyyy):	Note
<input type="text" value="9/19/2005 5:10:45 PM"/>	<input type="text"/>
Flag <input type="text" value="OK"/>	

<b>MOUNTING:</b>	
Date (mm/dd/yy):	Note
<input type="text" value="9/19/2005 5:12:43 PM"/>	<input type="text"/>
<input type="text"/>	

**Light Tray (n° 02)**

<b>IDENTIFICATION:</b>		
tray type:	tray S/N:	tray weight (gr):
<input type="text" value="L"/>	<input type="text" value="034"/>	<input type="text"/>

<b>VISUAL INSPECTION:</b>	
Date (mm/dd/yyyy):	Note
<input type="text" value="9/19/2005 5:20:45 PM"/>	<input type="text"/>
Flag <input type="text" value="OK"/>	

<b>MOUNTING:</b>	
Date (mm/dd/yy):	Note
<input type="text" value="9/19/2005 5:25:45 PM"/>	<input type="text"/>
<input type="text"/>	

**Light Tray (n° 01)**

<b>IDENTIFICATION:</b>		
<b>tray type:</b>	<b>tray S/N:</b>	<b>tray weight (gr):</b>
<input type="text" value="L"/>	<input type="text" value="033"/>	<input type="text"/>

<b>VISUAL INSPECTION:</b>	
<b>Date (mm/dd/yyyy):</b>	<b>Note</b>
<input type="text" value="9/19/2005 5:30:45 PM"/>	<input type="text"/>
<b>Flag</b> <input type="text" value="OK"/>	

<b>MOUNTING:</b>	
<b>Date (mm/dd/yy):</b>	<b>Note</b>
<input type="text" value="9/19/2005 5:32:45 PM"/>	<input type="text"/>

**Bottom Tray (n° 00)**

<b>IDENTIFICATION:</b>		
<b>tray type:</b>	<b>tray S/N:</b>	<b>tray weight (gr):</b>
<input type="text" value="B"/>	<input type="text" value="017"/>	<input type="text"/>

<b>VISUAL INSPECTION:</b>	
<b>Date (mm/dd/yyyy):</b>	<b>Note</b>
<input type="text" value="9/19/2005 5:40:45 PM"/>	<input type="text"/>
<b>Flag</b> <input type="text" value="OK"/>	

<b>MOUNTING:</b>	
<b>Date (mm/dd/yy):</b>	<b>Note</b>
<input type="text" value="9/19/2005 5:45:45 PM"/>	<input type="text"/>

Cables +X (C0-C1)

<b>C-0</b> <i>(-Y corner)</i> cable +XC0 sn: C0-P-008	<b>VISUAL INSPECTION:</b>
	<b>Date (mm/dd/yyyy):</b> 9/19/2005 7:59:21 PM <b>Flag:</b> OK <b>Note:</b>
<b>C-1</b> <i>(+Y corner)</i> cable +XC1 sn: C1-P-005	<b>MOUNTING:</b>
	<b>Date (mm/dd/yy):</b> 9/19/2005 7:59:23 PM <b>Note:</b>
	<b>VISUAL INSPECTION:</b>
	<b>Date (mm/dd/yyyy):</b> 9/19/2005 7:59:24 PM <b>Flag:</b> OK <b>Note:</b>
	<b>MOUNTING:</b>
	<b>Date (mm/dd/yyyy):</b> 9/19/2005 7:59:26 PM <b>Note:</b>

**Cables +Y (C2-C3)**

**C-2  
(+X corner)**

**cable +YC2 sn:**

C2-020

**VISUAL INSPECTION:**

**Date (mm/dd/yyyy):** **Flag:** **Note:**

10/10/2005 OK

**MOUNTING:**

**Date (mm/dd/yy):** **Note:**

10/10/2005 replace NF C2-008 assembled 9/19/2005

**C-3  
(-X corner)**

**cable +YC3 sn:**

C3-P-007

**VISUAL INSPECTION:**

**Date (mm/dd/yyyy):** **Flag:** **Note:**

9/19/2005 8:05:10 PM OK

**MOUNTING:**

**Date (mm/dd/yyyy):** **Note:**

9/19/2005 8:05:11 PM

**Cables -X (C4-C5)**

**C-4  
(-Y corner)**  
cable -XC5 sn:  
C4-P-002

<b>VISUAL INSPECTION:</b>		
<b>Date (mm/dd/yyyy):</b>	<b>Flag:</b>	<b>Note:</b>
9/19/2005 8:01:42 PM	OK	

<b>MOUNTING:</b>	
<b>Date (mm/dd/yy):</b>	<b>Note:</b>
9/19/2005 8:01:43 PM	replace NF C2-008 assembled 9/19/2005

**C-5  
(+Ycorner)**  
cable -XC6 sn:  
C5-P-005

<b>VISUAL INSPECTION:</b>		
<b>Date (mm/dd/yyyy):</b>	<b>Flag:</b>	<b>Note:</b>
10/10/2005 2:01:11 PM	OK	M.Bagni

<b>MOUNTING:</b>	
<b>Date (mm/dd/yyyy):</b>	<b>Note:</b>
10/10/2005 2:01:10 PM	Marco Ceccanti

**Cables -Y (C6-C7)**

**C-6  
(+X corner)**

**cable -YC6 sn:**

C6-019

**VISUAL INSPECTION:**

**Date (mm/dd/yyyy):** **Flag:** **Note:**

9/19/2005 8:03:30 PM OK

**MOUNTING:**

**Date (mm/dd/yy):** **Note:**

9/19/2005 8:03:31 PM

**C-7  
(-X corner)**

**cable -YC7 sn:**

C7-P-007

**VISUAL INSPECTION:**

**Date (mm/dd/yyyy):** **Flag:** **Note:**

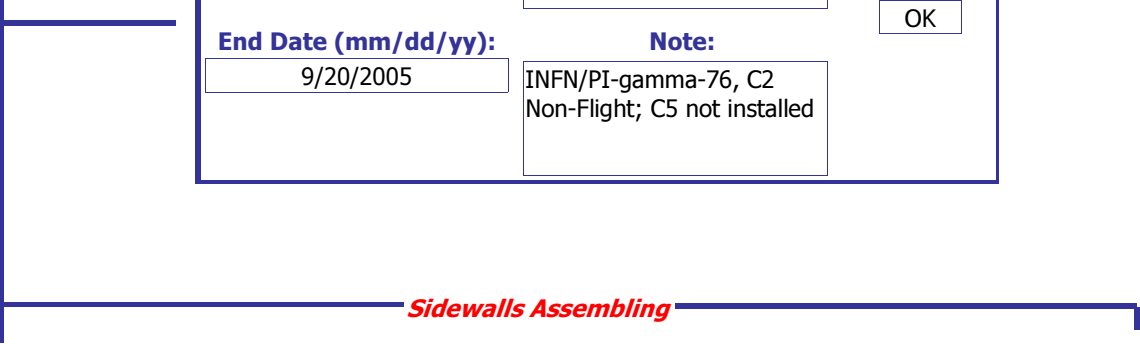
9/19/2005 8:03:32 PM OK

**MOUNTING:**

**Date (mm/dd/yyyy):** **Note:**

9/19/2005 8:03:33 PM

<b>1st FUNCTIONAL TEST CPT:</b>	
<b>Start Date (mm/dd/yy):</b> 9/19/2005	<b>Note:</b>  
<b>End Date (mm/dd/yy):</b> 9/20/2005	<b>Note:</b> INFN/PI-gamma-76, C2 Non-Flight; C5 not installed
<b>Flag:</b> OK	



**Sidewalls  
+X**

**serial nb:**  
016

<b>VISUAL INSPECTION:</b>	
<b>Date (mm/dd/yyyy):</b> /20/2005 10:13:01 AM	<b>Note</b>
<b>Flag</b> OK	
<b>MOUNTING:</b>	
<b>Date (mm/dd/yy):</b> 20/2005 10:13:04 A	<b>Note</b>

**Sidewalls  
-X**

serial nb:  
016

<b>VISUAL INSPECTION:</b>	
Date (mm/dd/yyyy): 9/20/2005 10:13:06 AM	Note
Flag <input type="checkbox"/> OK	

<b>MOUNTING:</b>	
Date (mm/dd/yyyy): 9/20/2005 10:13:07 AM	Note

**Sidewalls  
+Y**

serial nb:  
016

<b>VISUAL INSPECTION:</b>	
Date (mm/dd/yyyy): 9/20/2005	Note
Flag <input type="checkbox"/> OK	

<b>MOUNTING:</b>	
Date (mm/dd/yyyy): 9/20/2005	Note

**Sidewalls  
-Y**

serial nb:  
016

<b>VISUAL INSPECTION:</b>	
Date (mm/dd/yyyy): 9/20/2005	Note
Flag <input type="checkbox"/> OK	

<b>MOUNTING:</b>	
Date (mm/dd/yyyy): 9/20/2005	Note

<b>ALIGNMENT:</b>	
<b>Date (mm/dd/yyyy):</b>	<b>Note:</b>
9/20/2005	
<b>Flag:</b> <input type="text" value="OK"/>	

<b>BASE PLATE ASSEMBLING:</b>	
<b>Date (mm/dd/yyyy):</b>	<b>Note:</b>
9/20/2005	
<b>Flag:</b> <input type="text" value="OK"/>	

<b>2nd FUNCTIONAL TEST :</b>		
<b>Start Date (mm/dd/yy):</b>	<b>Note:</b>	<b>Flag:</b> <input type="text" value="OK"/>
9/21/2005	INFN/PI-gamma-78, performed after turn-over	
<b>End Date (mm/dd/yy):</b>	<b>Note:</b>	
9/21/2005		

<b>TOWER Turn Over :</b>	
<b>Date (mm/dd/yyyy):</b>	<b>Note:</b>
9/21/2005	
<b>Flag:</b> <input type="text" value="OK"/>	

<b>BRACKET ASSEMBLING:</b>	
Date (mm/dd/yyyy):	Note:
9/21/2005	
Flag: <input type="text" value="OK"/>	

<b>SHIPPING TO ALENIA:</b>	
Date (mm/dd/yyyy):	Note:
9/22/2005	
Flag: <input type="text"/>	

<b>THERMO-VACUUM:</b>	
Date (mm/dd/yyyy):	Note:
9/26/2005	ended 9/29
Flag: <input type="text" value="OK"/>	

<b>VIBRATIONAL:</b>	
Date (mm/dd/yyyy):	Note:
9/30/2005	ended 10/3
Flag: <input type="text" value="OK"/>	

<b>SHIPPING TO INFN/PISA:</b>	
Date (mm/dd/yyyy):	Note:
10/4/2005	for C5 and C2 Flight Cables assembling and solithane
Flag: <input type="text" value="OK"/>	

**Test @ALENIA**

<b>Verify</b>	<b>TOWER BOX VISUAL INSPECTION:</b> <b>Date (mm/dd/yyyy):</b> 10/5/2005 <b>Flag:</b> <input type="checkbox"/> OK <b>Note:</b>
	<b>MEASUREMENT CMM:</b> <b>Date (mm/dd/yyyy):</b> 10/11/2005 <b>Flag:</b> <input type="checkbox"/> OK <b>Note:</b>
	<b>FUNCTIONAL TEST:</b> <b>Date (mm/dd/yyyy):</b> 10/10/2005 <b>Flag:</b> <input type="checkbox"/> OK <b>Note:</b> INFN/PI-gamma-81
	<b>PACKAGING:</b> <b>Date (mm/dd/yyyy):</b> 10/11/2005 <b>Flag:</b> <input type="checkbox"/> OK <b>Note:</b>
<b>SHIPPING TO SLAC:</b> <b>Date (mm/dd/yyyy):</b> 10/12/2005 <b>Flag:</b> <input type="checkbox"/> OK <b>Note:</b>	