

GLAST LAT Tracker Subsystem

TOWER ASSEMBLY and TEST FLOW CHART

Tower P/N:

LAT-DS-00722

Revision number:

3

Tower S/N:

11

Assembly supervisor

Emilio Rapposelli

Assembly operator 1

Francesco Bellardi

Assembly QA responsible

Aldo Troianiello

Assembly operator 2

Marco Ceccanti

*Tower
Assembly*

Tray Assembling

Top Tray (n° 18)

IDENTIFICATION:

tray type:

T

tray S/N:

016

tray weight (gr):

1260

VISUAL INSPECTION:

Date (mm/dd/yyyy):

7/29/2005 10:40:50 AM

Note

Flag

OK

MOUNTING:

Date (mm/dd/yy):

7/29/2005 10:40:51 AM

Note

Mid Tray (n° 17)

IDENTIFICATION:		
tray type:	tray S/N:	tray weight (gr):
M	176	1180

VISUAL INSPECTION:	
Date (mm/dd/yyyy):	Note
7/29/2005 10:45:53 AM	
Flag <input type="checkbox"/> OK	

MOUNTING:	
Date (mm/dd/yy):	Note
7/29/2005 10:49:19 AM	

Mid Tray (n° 16)

IDENTIFICATION:		
tray type:	tray S/N:	tray weight (gr):
M	203	1165

VISUAL INSPECTION:	
Date (mm/dd/yyyy):	Note
7/29/2005 11:32:30 AM	
Flag <input type="checkbox"/> OK	

MOUNTING:	
Date (mm/dd/yy):	Note
7/29/2005 11:32:31 AM	

Mid Tray (n° 15)

IDENTIFICATION:		
tray type:	tray S/N:	tray weight (gr):
<input type="text" value="M"/>	<input type="text" value="182"/>	<input type="text" value="1175"/>

VISUAL INSPECTION:	
Date (mm/dd/yyyy):	Note
<input type="text" value="7/29/2005 11:41:15 AM"/>	<input type="text"/>
Flag <input type="text" value="OK"/>	

MOUNTING:	
Date (mm/dd/yy):	Note
<input type="text" value="7/29/2005 11:41:16 AM"/>	<input type="text"/>

Mid Tray (n° 14)

IDENTIFICATION:		
tray type:	tray S/N:	tray weight (gr):
<input type="text" value="M"/>	<input type="text" value="214"/>	<input type="text" value="1175"/>

VISUAL INSPECTION:	
Date (mm/dd/yyyy):	Note
<input type="text" value="7/29/2005 12:33:39 PM"/>	<input type="text"/>
Flag <input type="text" value="OK"/>	

MOUNTING:	
Date (mm/dd/yy):	Note
<input type="text" value="7/29/2005 12:33:39 PM"/>	<input type="text"/>

Mid Tray (n° 13)

IDENTIFICATION:		
tray type:	tray S/N:	tray weight (gr):
<input type="text" value="M"/>	<input type="text" value="219"/>	<input type="text" value="1160"/>

VISUAL INSPECTION:	
Date (mm/dd/yyyy):	Note
<input type="text" value="7/29/2005 12:33:43 PM"/>	<input type="text"/>
Flag <input type="text" value="OK"/>	

MOUNTING:	
Date (mm/dd/yy):	Note
<input type="text" value="7/29/2005 12:33:44 PM"/>	<input type="text"/>
<input type="text"/>	

Mid Tray (n° 12)

IDENTIFICATION:		
tray type:	tray S/N:	tray weight (gr):
<input type="text" value="M"/>	<input type="text" value="217"/>	<input type="text" value="1170"/>

VISUAL INSPECTION:	
Date (mm/dd/yyyy):	Note
<input type="text" value="8/1/2005 10:05:36 AM"/>	<input type="text"/>
Flag <input type="text" value="OK"/>	

MOUNTING:	
Date (mm/dd/yy):	Note
<input type="text" value="8/1/2005 10:05:36 AM"/>	<input type="text"/>
<input type="text"/>	

Mid Tray (n° 11)

IDENTIFICATION:		
tray type:	tray S/N:	tray weight (gr):
M	198	1175

VISUAL INSPECTION:	
Date (mm/dd/yyyy):	Note
8/1/2005 10:19:31 AM	
Flag	<input type="text" value="OK"/>

MOUNTING:	
Date (mm/dd/yy):	Note
8/1/2005 10:19:33 AM	

Mid Tray (n° 10)

IDENTIFICATION:		
tray type:	tray S/N:	tray weight (gr):
M	189	1170

VISUAL INSPECTION:	
Date (mm/dd/yyyy):	Note
8/1/2005 10:35:21 AM	
Flag	<input type="text" value="OK"/>

MOUNTING:	
Date (mm/dd/yy):	Note
8/1/2005 10:35:24 AM	

Mid Tray (n° 09)

IDENTIFICATION:		
tray type:	tray S/N:	tray weight (gr):
M	190	1185

VISUAL INSPECTION:	
Date (mm/dd/yyyy):	Note
8/1/2005 11:00:09 AM	
Flag <input type="checkbox"/> OK	

MOUNTING:	
Date (mm/dd/yy):	Note
8/1/2005 11:00:09 AM	

Mid Tray (n° 08)

IDENTIFICATION:		
tray type:	tray S/N:	tray weight (gr):
M	188	1180

VISUAL INSPECTION:	
Date (mm/dd/yyyy):	Note
8/1/2005 11:00:47 AM	
Flag <input type="checkbox"/> OK	

MOUNTING:	
Date (mm/dd/yy):	Note
8/1/2005 11:00:47 AM	

Mid Tray (n° 07)

IDENTIFICATION:		
tray type:	tray S/N:	tray weight (gr):
<input type="text" value="M"/>	<input type="text" value="90"/>	<input type="text" value="1175"/>

VISUAL INSPECTION:	
Date (mm/dd/yyyy):	Note
<input type="text" value="8/1/2005 11:48:26 AM"/>	<input type="text"/>
Flag <input type="text" value="OK"/>	

MOUNTING:	
Date (mm/dd/yy):	Note
<input type="text" value="8/1/2005 11:48:24 AM"/>	<input type="text"/>
<input type="text"/>	

Heavy Tray (n° 06)

IDENTIFICATION:		
tray type:	tray S/N:	tray weight (gr):
<input type="text" value="H"/>	<input type="text" value="046"/>	<input type="text" value="2655"/>

VISUAL INSPECTION:	
Date (mm/dd/yyyy):	Note
<input type="text" value="8/1/2005 11:49:02 AM"/>	<input type="text"/>
Flag <input type="text" value="OK"/>	

MOUNTING:	
Date (mm/dd/yy):	Note
<input type="text" value="8/1/2005 11:49:03 AM"/>	<input type="text"/>
<input type="text"/>	

Heavy Tray (n° 05)

IDENTIFICATION:		
tray type:	tray S/N:	tray weight (gr):
H	050	2640

VISUAL INSPECTION:	
Date (mm/dd/yyyy):	Note
8/1/2005 11:49:33 AM	
Flag <input type="checkbox"/> OK	

MOUNTING:	
Date (mm/dd/yy):	Note
8/1/2005 11:49:34 AM	

Heavy Tray (n° 04)

IDENTIFICATION:		
tray type:	tray S/N:	tray weight (gr):
H	065	2630

VISUAL INSPECTION:	
Date (mm/dd/yyyy):	Note
8/1/2005 12:01:43 PM	
Flag <input type="checkbox"/> OK	

MOUNTING:	
Date (mm/dd/yy):	Note
8/1/2005 12:01:45 PM	

Heavy Tray (n° 03)

IDENTIFICATION:		
tray type:	tray S/N:	tray weight (gr):
H	063	2630

VISUAL INSPECTION:	
Date (mm/dd/yyyy):	Note
8/1/2005 12:10:55 PM	
Flag <input type="checkbox"/>	

MOUNTING:	
Date (mm/dd/yy):	Note
8/1/2005 12:10:56 PM	

Light Tray (n° 02)

IDENTIFICATION:		
tray type:	tray S/N:	tray weight (gr):
L	037	935

VISUAL INSPECTION:	
Date (mm/dd/yyyy):	Note
8/1/2005 2:45:17 PM	
Flag <input type="checkbox"/> OK	

MOUNTING:	
Date (mm/dd/yy):	Note
8/1/2005 2:45:18 PM	

Light Tray (n° 01)

IDENTIFICATION:		
tray type:	tray S/N:	tray weight (gr):
<input type="text" value="L"/>	<input type="text" value="042"/>	<input type="text"/>

VISUAL INSPECTION:	
Date (mm/dd/yyyy):	Note
<input type="text" value="8/1/2005 3:01:18 PM"/>	<input type="text"/>
Flag <input type="text" value="OK"/>	

MOUNTING:	
Date (mm/dd/yy):	Note
<input type="text" value="8/1/2005 3:01:19 PM"/>	<input type="text"/>
<input type="text"/>	

Bottom Tray (n° 00)

IDENTIFICATION:		
tray type:	tray S/N:	tray weight (gr):
<input type="text" value="B"/>	<input type="text" value="015"/>	<input type="text" value="2125"/>

VISUAL INSPECTION:	
Date (mm/dd/yyyy):	Note
<input type="text" value="8/1/2005 3:01:45 PM"/>	<input type="text"/>
Flag <input type="text" value="OK"/>	

MOUNTING:	
Date (mm/dd/yy):	Note
<input type="text" value="8/1/2005 3:01:46 PM"/>	<input type="text"/>
<input type="text"/>	

Cables +X (C0-C1)

C-0
(-Y corner)

cable +XC0 sn:

C0-028

VISUAL INSPECTION:

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

8/10/2005 3:51:03 PM

OK

after sidewall removal

MOUNTING:

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

8/10/2005 3:51:05 PM

C-1
(+Y corner)

cable +XC1 sn:

C1-P-004

VISUAL INSPECTION:

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

8/1/2005 4:23:28 PM

OK

MOUNTING:

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

9/16/2005 4:23:29 PM

after env. tests dismantled C1-001 NFH

Cables +Y (C2-C3)

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

cable +YC2 sn:

C2-018

VISUAL INSPECTION:

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

9/16/2005 4:23:23 PM OK

MOUNTING:

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

9/16/2005 4:23:24 PM after env. Tests dismounted C2-008 NFH

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

cable +YC3 sn:

C3-P-001

VISUAL INSPECTION:

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

8/18/2005 10:16:15 AM OK

MOUNTING:

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

8/18/2005 10:16:20 AM

Cables -X (C4-C5)

**C-4
(-Y corner)**

cable -XC5 sn:

C4-020

VISUAL INSPECTION:

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

8/1/2005 3:35:05 PM

OK

MOUNTING:

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

8/1/2005 3:35:07 PM

after env. Tests dismantled C2-008 NFH

**C-5
(+Ycorner)**

cable -XC6 sn:

C5-018

VISUAL INSPECTION:

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

8/1/2005 5:47:22 PM

OK

MOUNTING:

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

8/1/2005 5:47:23 PM

Cables -Y (C6-C7)

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

cable -YC6 sn:

C6-P-001

VISUAL INSPECTION:

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

8/18/2005 11:20:53 AM

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MOUNTING:

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

8/18/2005 11:20:54 AM

--

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

cable -YC7 sn:

C7-P-001

VISUAL INSPECTION:

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

8/18/2005 11:40:07 AM

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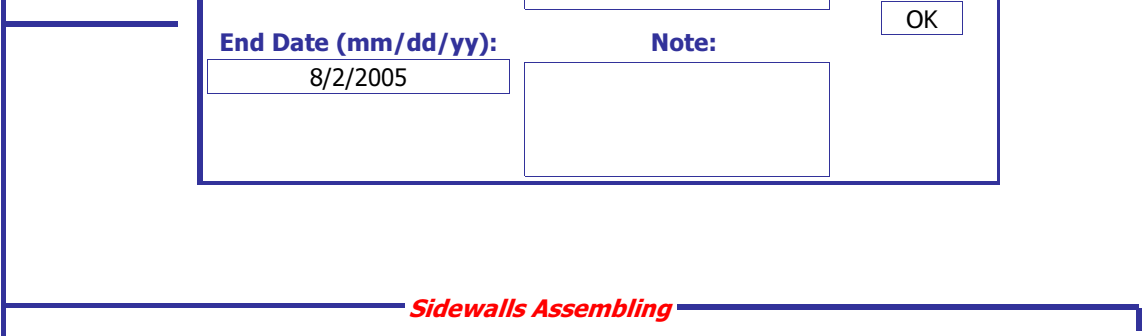
MOUNTING:

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

8/18/2005 11:41:03 AM

C7-009 Mounted 01/08/2005 Dismounted 18/08/2005

1st FUNCTIONAL TEST CPT:		
Start Date (mm/dd/yy): 8/1/2005	Note: INFN/PI-gamma-58	Flag: OK
End Date (mm/dd/yy): 8/2/2005	Note:	



*Sidewalls
+X*

serial nb:
014

VISUAL INSPECTION:	
Date (mm/dd/yyyy): 8/2/2005 11:14:07 AM	Note
Flag OK	

MOUNTING:	
Date (mm/dd/yy): /2/2005 11:14:09 AM	Note

**Sidewalls
-X**

serial nb:
014

VISUAL INSPECTION:

Date (mm/dd/yyyy):
8/2/2005 11:14:10 AM

Note

Flag OK

MOUNTING:

Date (mm/dd/yy):
8/2/2005 11:14:11 AM

Note

**Sidewalls
+Y**

serial nb:
014

VISUAL INSPECTION:

Date (mm/dd/yyyy):
8/2/2005

Note

Flag OK

MOUNTING:

Date (mm/dd/yy):
8/2/2005

Note

**Sidewalls
-Y**

serial nb:
014

VISUAL INSPECTION:

Date (mm/dd/yyyy):
8/2/2005

Note

Flag OK

MOUNTING:

Date (mm/dd/yy):
8/2/2005

Note

ALIGNMENT:	
Date (mm/dd/yyyy):	Note:
8/3/2005	
Flag: <input type="text" value="OK"/>	

BASE PLATE ASSEMBLING:	
Date (mm/dd/yyyy):	Note:
8/3/2005	
Flag: <input type="text" value="OK"/>	

2nd FUNCTIONAL TEST :	
Start Date (mm/dd/yy):	Note:
	skipped. Full functional test performed on 8/18 after tower turn-over (INFN/PI-alpha-363)
End Date (mm/dd/yy):	Note:
	Flag: <input type="text"/>

TOWER Turn Over :	
Date (mm/dd/yyyy):	Note:
8/4/2005	
Flag: <input type="text" value="OK"/>	

BRACKET ASSEMBLING:	
Date (mm/dd/yyyy):	Note:
8/4/2005	
Flag: <input type="checkbox"/> OK	

SHIPPING TO ALENIA:	
Date (mm/dd/yyyy):	Note:
8/22/2005	
Flag: <input type="checkbox"/> OK	

THERMO-VACUUM:	
Date (mm/dd/yyyy):	Note:
9/5/2005	ended on 9/8
Flag: <input type="checkbox"/> OK	

**Test
@ALENIA**

VIBRATIONAL:	
Date (mm/dd/yyyy):	Note:
9/12/2005	ended on 9/13
Flag: <input type="checkbox"/> OK	

SHIPPING TO INFN/PISA:	
Date (mm/dd/yyyy):	Note:
8/19/2005	
Flag: <input type="checkbox"/> OK	

Verify	TOWER BOX VISUAL INSPECTION: Date (mm/dd/yyyy): 9/16/2005 Flag: <input type="text" value="OK"/>	Note:
	MEASUREMENT CMM: Date (mm/dd/yyyy): 9/20/2005 Flag: <input type="text" value="OK"/>	Note: after solithane and cabling
	FUNCTIONAL TEST: Date (mm/dd/yyyy): 9/16/2005 Flag: <input type="text" value="OK"/>	Note: INFN/PI-gamma-74. TE101 not performed)
	PACKAGING: Date (mm/dd/yyyy): 9/21/2005 Flag: <input type="text" value="OK"/>	Note:
	SHIPPING TO SLAC: Date (mm/dd/yyyy): 9/22/2005 Flag: <input type="text" value="OK"/>	Note: