

GLAST LAT Tracker Subsystem

TOWER ASSEMBLY and TEST FLOW CHART

Tower P/N:

LAT-DS-00722

Revision number:

3

Tower S/N:

9

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:	tray S/N:	tray weight (gr):
T	013	

VISUAL INSPECTION:	
Date (mm/dd/yyyy):	Note
7/8/2005 11:25:20 AM	
Flag	
OK	

MOUNTING:	
Date (mm/dd/yy):	Note
7/8/2005 11:34:52 AM	

Mid Tray (n° 17)

IDENTIFICATION:		
tray type:	tray S/N:	tray weight (gr):
M	194	1175

VISUAL INSPECTION:	
Date (mm/dd/yyyy):	Note
7/8/2005 11:44:03 AM	
Flag <input type="text" value="OK"/>	

MOUNTING:	
Date (mm/dd/yy):	Note
7/8/2005 11:46:15 AM	

Mid Tray (n° 16)

IDENTIFICATION:		
tray type:	tray S/N:	tray weight (gr):
M	152	1175

VISUAL INSPECTION:	
Date (mm/dd/yyyy):	Note
7/8/2005 3:02:41 PM	
Flag <input type="text" value="OK"/>	

MOUNTING:	
Date (mm/dd/yy):	Note
7/8/2005 3:02:42 PM	

Mid Tray (n° 15)

IDENTIFICATION:		
tray type:	tray S/N:	tray weight (gr):
<input type="text" value="M"/>	<input type="text" value="125"/>	<input type="text" value="1185"/>

VISUAL INSPECTION:	
Date (mm/dd/yyyy):	Note
<input type="text" value="7/8/2005 3:15:47 PM"/>	<input type="text"/>
Flag <input type="text" value="OK"/>	

MOUNTING:	
Date (mm/dd/yy):	Note
<input type="text" value="7/8/2005 3:15:48 PM"/>	<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="160"/>	<input type="text" value="1175"/>

VISUAL INSPECTION:	
Date (mm/dd/yyyy):	Note
<input type="text" value="7/8/2005 3:32:30 PM"/>	<input type="text"/>
Flag <input type="text"/>	

MOUNTING:	
Date (mm/dd/yy):	Note
<input type="text" value="7/8/2005 3:32:37 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="142"/>	<input type="text" value="1170"/>

VISUAL INSPECTION:	
Date (mm/dd/yyyy):	Note
<input type="text" value="7/8/2005 3:49:28 PM"/>	<input type="text"/>
Flag <input type="text"/>	

MOUNTING:	
Date (mm/dd/yy):	Note
<input type="text" value="7/8/2005 3:49:29 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="138"/>	<input type="text" value="1180"/>

VISUAL INSPECTION:	
Date (mm/dd/yyyy):	Note
<input type="text" value="7/8/2005 4:12:12 PM"/>	<input type="text"/>
Flag <input type="text" value="OK"/>	

MOUNTING:	
Date (mm/dd/yy):	Note
<input type="text" value="7/8/2005 4:12:13 PM"/>	<input type="text"/>
<input type="text"/>	

Mid Tray (n° 11)

IDENTIFICATION:		
tray type:	tray S/N:	tray weight (gr):
M	157	1155

VISUAL INSPECTION:	
Date (mm/dd/yyyy):	Note
7/8/2005 4:22:28 PM	
Flag	
OK	

MOUNTING:	
Date (mm/dd/yy):	Note
7/8/2005 4:22:29 PM	

Mid Tray (n° 10)

IDENTIFICATION:		
tray type:	tray S/N:	tray weight (gr):
M	158	1175

VISUAL INSPECTION:	
Date (mm/dd/yyyy):	Note
7/8/2005 4:40:36 PM	
Flag	
OK	

MOUNTING:	
Date (mm/dd/yy):	Note
7/8/2005 4:40:37 PM	

Mid Tray (n° 09)

IDENTIFICATION:		
tray type:	tray S/N:	tray weight (gr):
<input type="text" value="M"/>	<input type="text" value="147"/>	<input type="text" value="1175"/>

VISUAL INSPECTION:	
Date (mm/dd/yyyy):	Note
<input type="text" value="7/9/2005 10:09:46 AM"/>	<input type="text"/>
Flag <input type="text" value="OK"/>	

MOUNTING:	
Date (mm/dd/yy):	Note
<input type="text" value="7/9/2005 10:09:49 AM"/>	<input type="text"/>
<input type="text"/>	

Mid Tray (n° 08)

IDENTIFICATION:		
tray type:	tray S/N:	tray weight (gr):
<input type="text" value="M"/>	<input type="text" value="124"/>	<input type="text" value="1180"/>

VISUAL INSPECTION:	
Date (mm/dd/yyyy):	Note
<input type="text" value="7/9/2005 10:26:50 AM"/>	<input type="text"/>
Flag <input type="text" value="OK"/>	

MOUNTING:	
Date (mm/dd/yy):	Note
<input type="text" value="7/9/2005 10:26:54 AM"/>	<input type="text"/>
<input type="text"/>	

Mid Tray (n° 07)

IDENTIFICATION:		
tray type:	tray S/N:	tray weight (gr):
M	127	1200

VISUAL INSPECTION:	
Date (mm/dd/yyyy):	Note
7/9/2005 10:36:30 AM	
Flag <input type="checkbox"/> OK	

MOUNTING:	
Date (mm/dd/yy):	Note
7/9/2005 10:36:28 AM	

Heavy Tray (n° 06)

IDENTIFICATION:		
tray type:	tray S/N:	tray weight (gr):
H	053	2640

VISUAL INSPECTION:	
Date (mm/dd/yyyy):	Note
7/9/2005 11:03:01 AM	
Flag <input type="checkbox"/> OK	

MOUNTING:	
Date (mm/dd/yy):	Note
7/9/2005 11:03:02 AM	

Heavy Tray (n° 05)

IDENTIFICATION:		
tray type:	tray S/N:	tray weight (gr):
<input type="text" value="H"/>	<input type="text" value="059"/>	<input type="text" value="2650"/>

VISUAL INSPECTION:	
Date (mm/dd/yyyy):	Note
<input type="text" value="7/9/2005 11:02:59 AM"/>	<input type="text"/>
Flag <input type="text" value="OK"/>	

MOUNTING:	
Date (mm/dd/yy):	Note
<input type="text" value="7/9/2005 11:03:00 AM"/>	<input type="text"/>
<input type="text"/>	

Heavy Tray (n° 04)

IDENTIFICATION:		
tray type:	tray S/N:	tray weight (gr):
<input type="text" value="H"/>	<input type="text" value="060"/>	<input type="text" value="2625"/>

VISUAL INSPECTION:	
Date (mm/dd/yyyy):	Note
<input type="text" value="7/9/2005 11:30:15 AM"/>	<input type="text"/>
Flag <input type="text" value="OK"/>	

MOUNTING:	
Date (mm/dd/yy):	Note
<input type="text" value="7/9/2005 11:30:15 AM"/>	<input type="text"/>
<input type="text"/>	

Heavy Tray (n° 03)

IDENTIFICATION:		
tray type:	tray S/N:	tray weight (gr):
<input type="text" value="H"/>	<input type="text" value="061"/>	<input type="text" value="2635"/>

VISUAL INSPECTION:	
Date (mm/dd/yyyy):	Note
<input type="text" value="7/9/2005 11:36:07 AM"/>	<input type="text"/>
Flag <input type="text" value="OK"/>	

MOUNTING:	
Date (mm/dd/yy):	Note
<input type="text" value="7/9/2005 11:36:07 AM"/>	<input type="text"/>
<input type="text"/>	

Light Tray (n° 02)

IDENTIFICATION:		
tray type:	tray S/N:	tray weight (gr):
<input type="text" value="L"/>	<input type="text" value="039"/>	<input type="text" value="930"/>

VISUAL INSPECTION:	
Date (mm/dd/yyyy):	Note
<input type="text" value="7/9/2005 11:52:05 AM"/>	<input type="text"/>
Flag <input type="text" value="OK"/>	

MOUNTING:	
Date (mm/dd/yy):	Note
<input type="text" value="7/9/2005 11:52:06 AM"/>	<input type="text"/>
<input type="text"/>	

Light Tray (n° 01)

IDENTIFICATION:		
tray type:	tray S/N:	tray weight (gr):
<input type="text" value="L"/>	<input type="text" value="040"/>	<input type="text" value="930"/>

VISUAL INSPECTION:	
Date (mm/dd/yyyy):	Note
<input type="text" value="7/9/2005 12:00:15 PM"/>	<input type="text"/>
Flag <input type="text" value="OK"/>	

MOUNTING:	
Date (mm/dd/yy):	Note
<input type="text" value="7/9/2005 12:00:16 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="009"/>	<input type="text" value="2145"/>

VISUAL INSPECTION:	
Date (mm/dd/yyyy):	Note
<input type="text" value="7/9/2005 12:11:41 PM"/>	<input type="text"/>
Flag <input type="text"/>	

MOUNTING:	
Date (mm/dd/yy):	Note
<input type="text" value="7/9/2005 12:11:42 PM"/>	<input type="text"/>
<input type="text"/>	

Cables +X (C0-C1)

C-0
(-Y corner)

cable +XC0 sn:

C0-P-006

C-1
(+Y corner)

cable +XC1 sn:

C1-017

VISUAL INSPECTION:

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

9/7/2005 9:39:45 AM OK

Assembled C0-023 14/07/2005
non-flight cable

MOUNTING:

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

9/5/2005 3:23:32 PM

Replaced C0-023

VISUAL INSPECTION:

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

7/14/2005 5:53:38 PM OK

MOUNTING:

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

7/14/2005 5:53:40 PM

Cables +Y (C2-C3)

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

cable +YC2 sn:

C2-017

VISUAL INSPECTION:

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

7/9/2005 3:55:06 PM OK

MOUNTING:

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

7/9/2005 3:55:07 PM

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

cable +YC3 sn:

C3-P-005

VISUAL INSPECTION:

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

9/7/2005 9:39:49 AM OK

MOUNTING:

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

9/5/2005 12:25:55 PM

Cables -X (C4-C5)

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

cable -XC5 sn:

C4-013

VISUAL INSPECTION:		
Date (mm/dd/yyyy):	Flag:	Note:
9/7/2005 9:28:13 AM	<input type="checkbox"/>	

MOUNTING:	
Date (mm/dd/yy):	Note:
7/9/2005 3:55:15 PM	

**C-5
(+Ycorner)**

cable -XC6 sn:

C5-019

VISUAL INSPECTION:		
Date (mm/dd/yyyy):	Flag:	Note:
9/7/2005 9:28:16 AM	<input type="checkbox"/>	

MOUNTING:	
Date (mm/dd/yyyy):	Note:
7/18/2005 5:55:59 PM	

Cables -Y (C6-C7)

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

YC6 sn:

C6-017

VISUAL INSPECTION:

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

7/18/2005 5:56:01 PM

MOUNTING:

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

7/18/2005 5:56:03 PM

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

YC7 sn:

C7-P-005

VISUAL INSPECTION:

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

9/7/2005 9:39:51 AM

Assembled C7-008 14/07/2005
non-flight cable

MOUNTING:

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

9/5/2005 11:27:59 AM

Replaced C7-008

1st FUNCTIONAL TEST CPT:	
Start Date (mm/dd/yy): 7/12/2005	Note: INFN/PI-gamma-49
End Date (mm/dd/yy): 7/12/2005	Note:
Flag: OK	

Sidewalls Assembling

**Sidewalls
+X**

serial nb:
011

VISUAL INSPECTION:	
Date (mm/dd/yyyy): 7/13/2005 6:02:17 PM	Note
Flag OK	
MOUNTING:	
Date (mm/dd/yy): /18/2005 6:02:19 PM	Note

**Sidewalls
-X**

serial nb:
011

VISUAL INSPECTION:	
Date (mm/dd/yyyy): 7/13/2005 6:02:20 PM	Note
Flag <input type="checkbox"/> OK	

MOUNTING:	
Date (mm/dd/yyyy): 7/18/2005 6:02:21 PM	Note

**Sidewalls
+Y**

serial nb:
011

VISUAL INSPECTION:	
Date (mm/dd/yyyy): 7/13/2005 6:02:28 PM	Note
Flag <input type="checkbox"/> OK	

MOUNTING:	
Date (mm/dd/yyyy): 7/18/2005 6:02:29 PM	Note

**Sidewalls
-Y**

serial nb:
011

VISUAL INSPECTION:	
Date (mm/dd/yyyy): 7/13/2005 6:02:32 PM	Note
Flag <input type="checkbox"/> OK	

MOUNTING:	
Date (mm/dd/yyyy): 7/18/2005 6:15:28 PM	Note

ALIGNMENT:	
Date (mm/dd/yyyy):	Note:
7/14/2005	
Flag: <input type="text" value="OK"/>	

BASE PLATE ASSEMBLING:	
Date (mm/dd/yyyy):	Note:
7/14/2005	
Flag: <input type="text" value="OK"/>	

2nd FUNCTIONAL TEST :		
Start Date (mm/dd/yy):	Note:	Flag: <input type="text"/>
<input type="text"/>	skipped	
End Date (mm/dd/yy):	Note:	
<input type="text"/>		

TOWER Turn Over :	
Date (mm/dd/yyyy):	Note:
7/15/2005	
Flag: <input type="text" value="OK"/>	

BRACKET ASSEMBLING:	
Date (mm/dd/yyyy):	Note:
7/15/2005	
Flag: <input type="checkbox"/> OK	

SHIPPING TO ALENIA:	
Date (mm/dd/yyyy):	Note:
7/20/2005	
Flag: <input type="checkbox"/> OK	

THERMO-VACUUM:	
Date (mm/dd/yyyy):	Note:
7/25/2005	ended 7/28/2005
Flag: <input type="checkbox"/> OK	

Test @ALENIA

VIBRATIONAL:	
Date (mm/dd/yyyy):	Note:
8/2/2005	ended 8/3/2005
Flag: <input type="checkbox"/> OK	

SHIPPING TO INFN/PISA:	
Date (mm/dd/yyyy):	Note:
8/5/2005	stored in clean room
Flag: <input type="checkbox"/> OK	

Verify	TOWER BOX VISUAL INSPECTION: Date (mm/dd/yyyy): 9/5/2005 Flag: <input type="text" value="OK"/>	Note: Removed Sidewalls and assembled C0, C3 and C7 flight cables
	MEASUREMENT CMM: Date (mm/dd/yyyy): 9/6/2005 Flag: <input type="text" value="OK"/>	Note: after solithane
	FUNCTIONAL TEST: Date (mm/dd/yyyy): 9/5/2005 Flag: <input type="text" value="OK"/>	Note: Before CMM measurements
	PACKAGING: Date (mm/dd/yyyy): 9/7/2005 Flag: <input type="text" value="OK"/>	Note:
	SHIPPING TO SLAC: Date (mm/dd/yyyy): 9/9/2005 Flag: <input type="text" value="OK"/>	Note: