



NATIONAL OPTICAL ASTRONOMY OBSERVATORY

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**TORRENT
KIT PARTS LIST
CONTROLLER MODULE BASE KIT**

Dwg No.: TRNT-EL-02-0018 Rev: OD

Next Assembly: TRNT-EL-02-0001

Applicable Drawings: TRNT-EL-02-0002

TRNT-EL-02-0004

TRNT-EL-02-0007

TRNT-EL-02-0008

LTR	DESCRIPTION	ECR	DATE	BY	APPRVD
OD	INITIAL RELEASE		7-Jul-11	DMS	

ITEM	QTY	Part Number	MFR	Description
1	REF	TRNT-EL-02-0004		Assembly, Power Supply Module
2	3			Plastic Bag, 3 x 4
3	1			Plastic Bag, 7 x 8

NOTES:

- Reference assembly drawing TRNT-EL-02-0004 for item callouts not on this sheet, all items shown may not be part of this kit.
- Bag sizes are specified as minimum size necessary
- Pull parts for number of kits desired to build then do each of the following steps to the whole number of desired kits before moving on to the next step. For instance if you want to build 6 kits do 3.1, 6 times before moving on to 3.2, and so on.
 - Attach Handles.
 - Attach DHE Mounting Tab, and Mounting Bolt
 - Attach Cable, PSM to Utility DB25, see Figure 7 for Orientation.
- Use 3x4 bag, add PSM Enclosure Fill Plate with mounting hardware, label bag Fill Plate & hardware
- Use 3x4 bag, add fasteners for the PSM Enclosure Bottom Cover, label bag "PSM Bottom Cover HW"
- Use 3x4 bag, add fasteners for the Power Supply Module Board, label bag "Power Supply Board Mounting Hardware".
- Use 7x8 bag, place PSM Enclosure Bottom Cover and all bagged fasteners into larger bag.
- Set aside until ready to attached to controller chassis



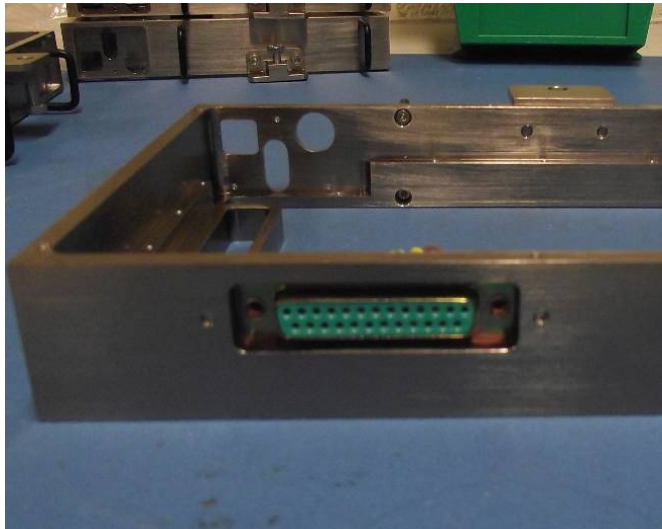
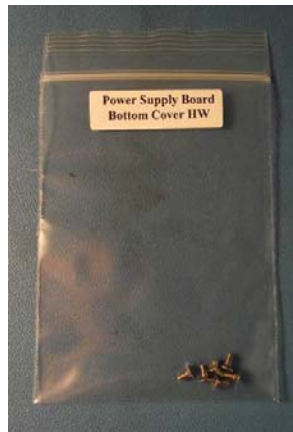
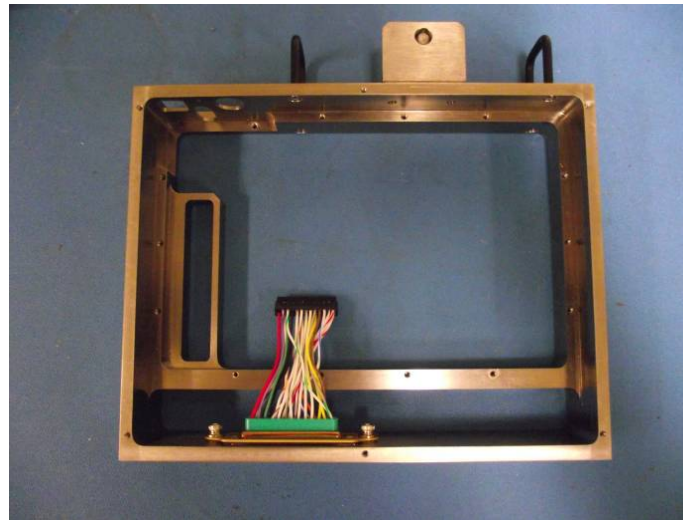


FIGURE 7



ITEM	QTY	Part Number	MFR	Description
1	REF	TRNT-EL-02-0008		Assembly, Controller Chassis
2	REF	TRNT-EL-02-0007		Assembly, Finned Blower Cover
3	REF	TRNT-EL-02-0002		Assembly, Controller

1. Reference Drawing: Items 1, 2, 3, all items shown on assemblies may not be part of this kit. Pull parts for number of kits desired for build, then do each of the following steps for desired quantity before moving on to the next step. For instance if you want to build 6 kits do 1.1, 6 times before moving on to 1.2, and so on.

1.1 Mount Controller parts Front panel, Rear panel, Left and Right cross rails to Base plate, loosely fasten all parts in place for fit. Tighten all flat head screws on base plate first, install SHC screws on Front and Rear Panels, leave screws so they are just starting to tighten up, do not torque down, they should be below the surface of front and rear panels. These may need to be loosened to fit the top cover later.

1.2 Mount Rear Panel Insert (TRNT-EL-02-1007), using specified hardware, purposely using longer screws than necessary to accommodate insertion and removal of Local Control Board without completely removing insert. Must be installed before the blower housing. Only insert screws a few turns. (FIG. 1)

1.3 Mount modified blower unit to the rear panel, feeding wires in slot and through opening in panel. Tighten screws, then back off just enough to allow the blower to move a slight bit. (FIG. 2)

1.4 Mount Right Angle RJ45 coupler in Finned blower housing, form the Patch cable using a heat gun to moderately heat cable to shape and route as shown in FIG. 3. Feed loose cable end through opening on right side of Rear panel, work blower housing over blower and fasten in place. Make sure there is no interference with the rear panel insert mounted in step 1.2.

1.5 Assemble Blower housing cover according to TRNT-EL-02-0007 (see Figure 1), mount to blower housing on controller.

1.6 Mounting TSM present switch assembly, making sure leads are positioned approximately as shown, FIG. 5.

1.7 Mount Power Supply enclosure to Base Controller Chassis assembly.

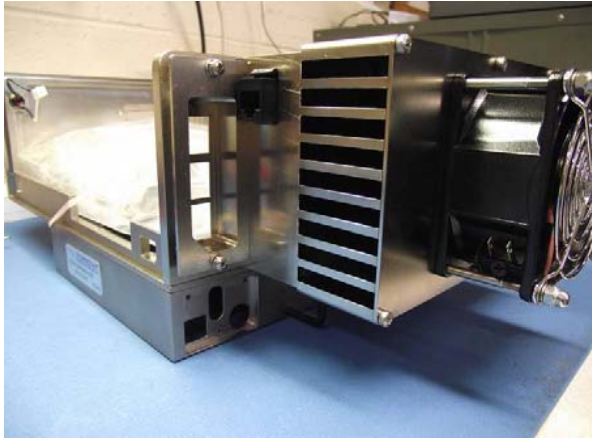


FIGURE 1



FIGURE 2

Route blower wires to notch panel



FIGURE 3

Heat and rout cable approximately as shown



FIGURE 4

feed cable through
slot in panel



FIGURE 5

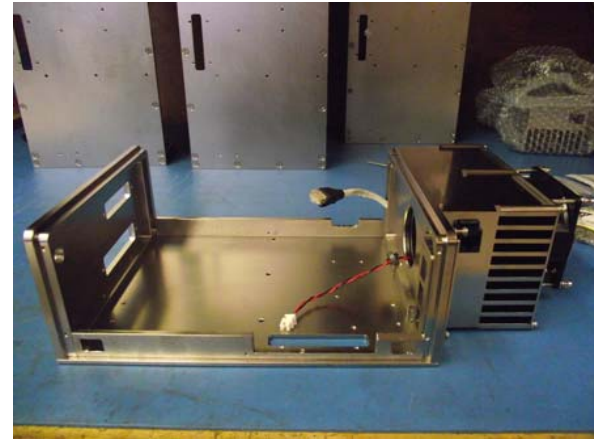


FIGURE 6

Finished sub assembly should look like above.

ITEM	QTY	Part Number	MFR	Description
1	REF	TRNT-EL-02-0002		Controller Assembly
2	1			Plastic Bag 3 x 4
3	1	TRNT-EL-02-0017		LCB Mounting Kit
4	1	TRNT-EL-02-0019		Ethernet GIGe Kit
5	1			Rubberband, large pink
6	REF	TRNT-EL-02-0024		Controller Assembly Steps

NOTES:

1. Reference Drawing: TRNT-EL-02-0002, Controller Assembly. May need to reference again when installing pcbs, as well as Controller Assembly Steps TRNT-EL-02-. All items in reference drawing may not be part of this kit.
2. Bag sizes are specified as minimum size necessary
3. Use 3x4 bag, add 2 Controller EMI Plates and fastening hardware, label bag "EMI Plate & Hardware".
4. Pull LCB Mounting Kit and Ethernet GIGe Kit to include with the Controller Module.
5. Place all bagged items and kits inside the Controller Module in the following order, approximately as shown below.
PSM cover and bagged parts
EMI Plate & HW
GIGe & LCB Mounting Kits
6. Place rubberband from TSM end to hold bags inside the Controller Module, approximately as shown below.



