

Date:

# Installation

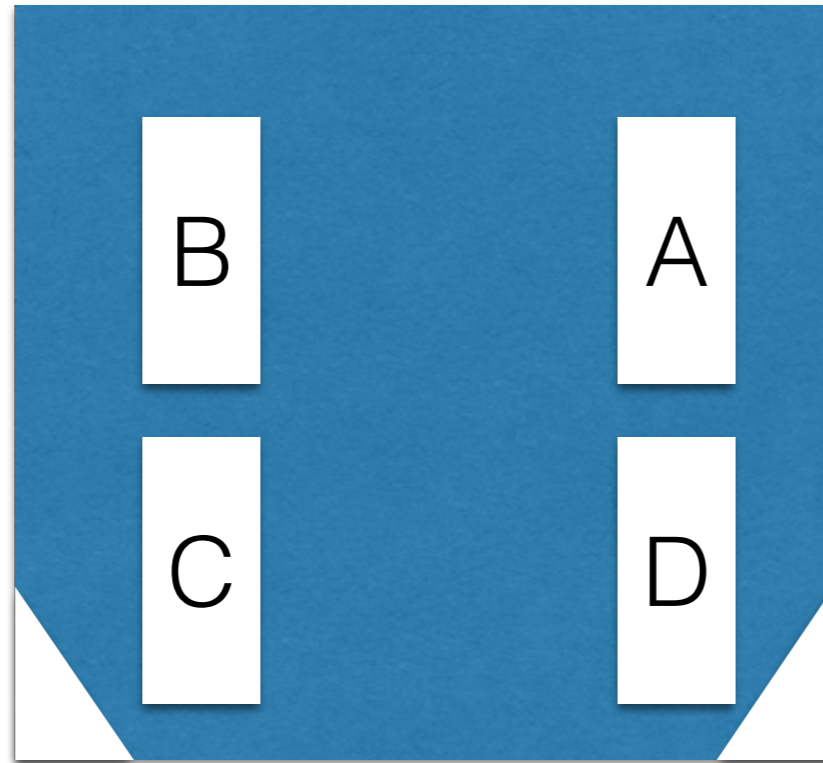
- |   |  |
|---|--|
| Make sure the RP are in the “retracted” position.                               |  |
| make sure low voltage supply is off   |  |
| make sure Bias voltage supply is off  |  |
| Turn off air flow   |  |
| Clean inside RP   |  |
| Check signal and grey cables reach RP   |  |
| record the low voltage card Id number (only visible for chain D)                |  |
| Connect daisy chain serial cable  |  |
| Connect signal cables to package  |  |
| Connect pig tails and label them  |  |
| Transfert package to RP station (2 person)                                      |  |
| Insert package using guide rods. A second person needed for “Down” assemblies   |  |
| Secure inserted package with springs and screws                                 |  |
| Mount connector plate on RP (2 screws)  |  |
| Connect gray cables (counter clockwise looking from outside)                    |  |
| Connect Lemo and SHV connector to connector plate (PMT1 closest to drive plate) |  |
| Connect pig tails to gray cables. Secure grounds with wing nuts                 |  |
| Secure signal and daisy chain cables with clamp in connector plate              |  |
| Make sure no wires are pinched by springs                                       |  |
| Make sure pig tails and daisy chain connections are good                        |  |
| Mount filter holder on top of RP. Tygon tube enters between PMTs                |  |
| Secure filter cap with several screws.  |  |
| Tie signal and gray cables to add some tension relief                           |  |

Date:

# Repairs out

Make sure the RP to be repaired is in the “retracted” position.	
make sure low voltage supply is off	
make sure Bias voltage supply is off	
Make sure HV on PMTs is off	
Turn off air flow	
Prepare clean table	
Make the connection between STAR ground and beam pipe (labelled banana plug)	
Remove air flow cap	
Disconnect ground connections on the near side	
Disconnect pig tails on near side	
Disconnect SHV and Lemo cables for both PMTs	
Disconnect pig tails on far side	
Disconnect ground connections on far side	
Release signal and daisy chain cable from clamp on side plate	
If necessary disconnect the splices on the daisy chain cable	
Make sure the signal cable is not tied and the whole assembly will reach the working table	
If removing a “Down” assembly, a second person should help to hold it while releasing screws	
Release the two screws+spring that hold the assembly	
Carefully slide the detector along the two alignment bars. Avoid sudden jerky movements	
Pass the assembly to a second person who will place it on the table (PMT up)	
To change blown fuses, the LV card can be pushed out	
Replace fuses, DPECL 1.5A DVDD 1.A	
Once fuses have been replaced, push card gently guiding from its sides to make good connection	
If a test is needed, tie the grey cables to the table, connect pig tails and daisy chain cable	
To install assembly back follow appropriate steps in “Installation” table	

# Labeling of grey cable connections



Looking at the connector plate from the outside