TOSHIBA
Window Switch / Remote On-Off Controller Accessory

INSTALLATION MANUAL
Use for Indoor Unit Only
Model : TCB-IFCB5-PE

Please refer to the Installation Instructions of the Indoor Unit for further Information

PRECAUTIONS

△ This equipment should only be installed by suitably trained professionals.

△ Incorrect installation by unqualified personnel may result in the Window Switch / Remote On-Off Controller not operating correctly, electric shock or fire.

△ In all cases ensure safe working practices are followed. Observe precautions for persons in the vicinity of the works.

△ Ensure that all local, national and international regulations are satisfied.

△ Before commencing the installation, ensure all relevant electrical supplies are isolated.

△ Carefully unpack the equipment and check for damage or shortages. Please report any damage or shortages immediately.

COMPONENTS LIST

Window Switch / Remote On-Off Controller components:

TCB-IFCB5-PE :   Window Switch / Remote On-Off Controller PCB

Interconnecting cable (450mm)

HA Adapter

PCB Mounts x3

Installation Instructions (English)

WINDOWS SWITCH / REMOTE ON-OFF CONTROLLER

Product Outline

This accessory enables the external control of an Indoor Unit (VRF, SDI, DI – Excluding the XT series & most RAS Inverters) with a simple contact input. The priority of the device can be selected when used as a Remote On-Off Controller, and when used as a Window Switch a 'Return Back' mode can be turned on or off depending on the customers requirements.

When used as a Remote On-Off Controller, the following modes are available:

- #1 ~ Full priority is given to the remote On-Off signal, therefore the Remote Controller On-Off will be ignored.
- #2 ~ Priority is given to the remote On signal, when the remote signal is Off, then it is last touch priority.
- #3 ~ Priority is given to the remote Off signal, when the remote signal is On, then it is last touch priority.
- #4 ~ Last touch priority mode.

When used as a Window Switch, the following modes are available:

- #5 ~ When window is open the indoor unit is off, when the window is closed, the indoor unit returns to the previous setting (restarts)*.
- #6 ~ When window is open the indoor unit is off, when the window is closed, the indoor unit will stay off.

*Note: That if the indoor unit was off before the window is opened, and the user attempts to start the unit when the window is open, upon closing the window the indoor unit will start to the previous setting.

### WINDOWS SWITCH / ON-OFF CONTROLLER SPECIFICATION

Product Specifications

This accessory enables the use of an external switch (locally supplied) or a window switch (locally supplied) to control the on/off of the air conditioning indoor unit. It utilises the CN61 connector on the indoor PCB which is available on most of the VRF, DI and SDI ranges (except the XT range).

Using the supplied HA Adapter, it is possible to connect to most Inverter type Residential (RAS) units that have an HA connector (except the RAS-M**GDV-E and RAS-M**GDCV-E).

The remote switch or window switch will need to provide a volt-free contact for this accessory.

An additional connector is provided (CN03) which can be used to access the additional features (Operation and Alarm outputs) that are available on the indoor unit CN61 connection. However the Locking feature is not available as it will adversely effect the operation of this Window Switch / Remote On-Off Controller.

Connection Schematic:
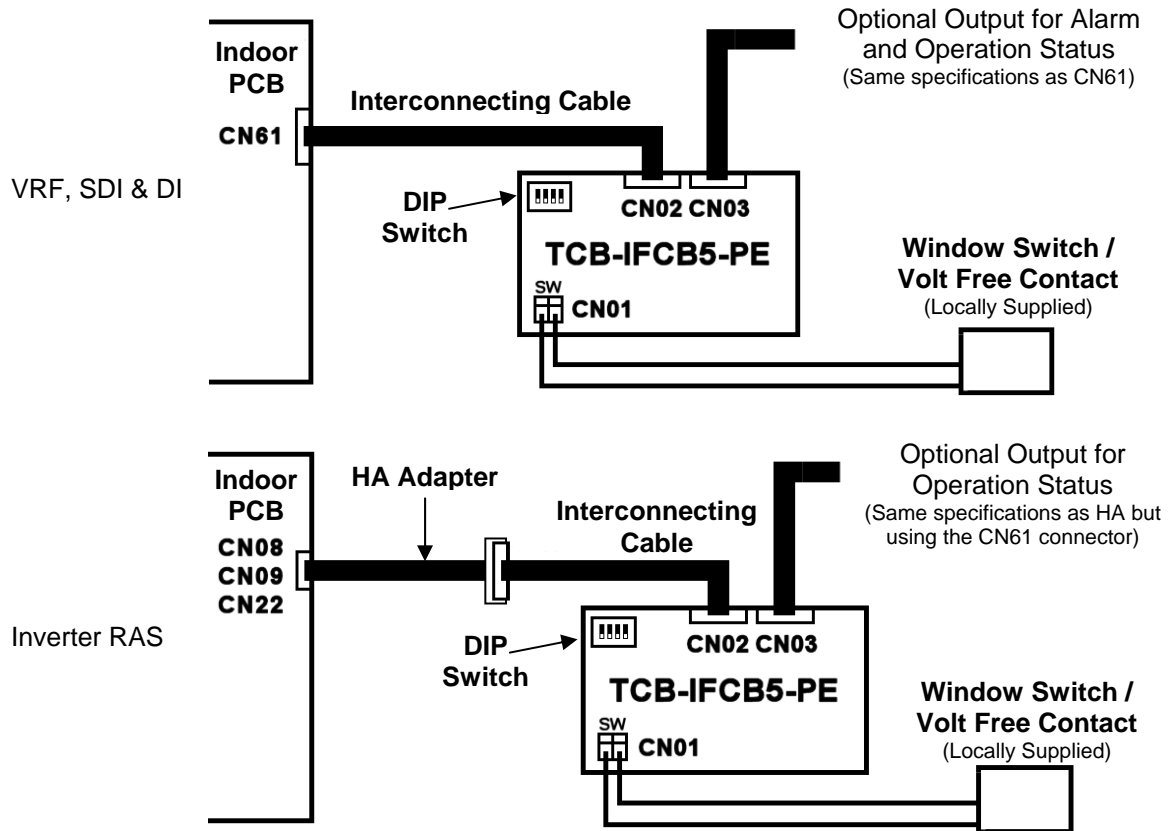
Optional Parts:

There are two optional enclosures which can be used to mount the Window Switch / Remote On-Off Controller PCB.

TCB-PX100-PE: A plastic enclosure for mounting outside of the indoor unit, where there is no room within the unit. It comes supplied with PCB mounts and 1.5m interconnecting cable.

TCB-PX30MUE: A metal enclosure for mounting inside the 4 Series Split 4-Way Cassettes, the 2 Series VRF 4-Way Cassettes and the Compact 4-Way Cassettes (Split, Multi Split and VRF).
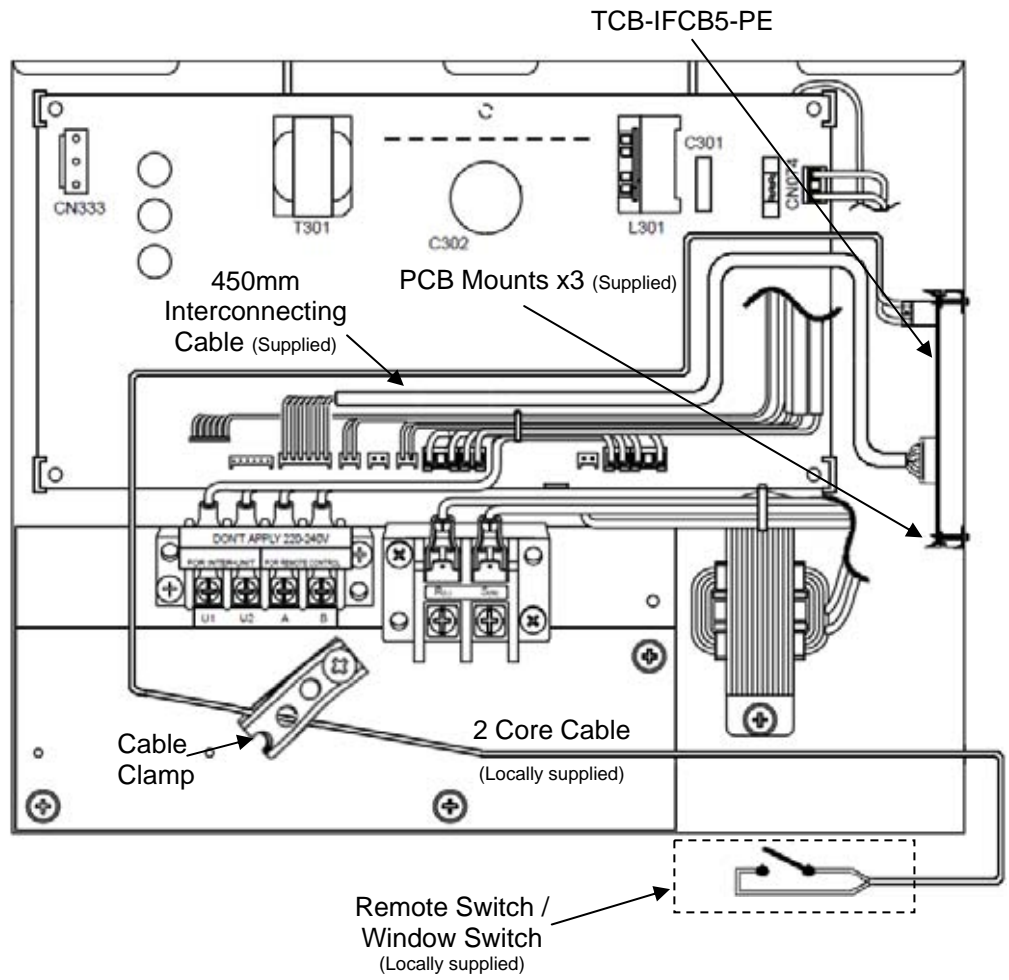
PCB Installation & Setup

Using the table below please set the DIP Switch to the required setting depending on the function you require.

Function Required	DIP Switch Setting	Mode / Description
Remote On-Off Controller Application	All = OFF	#1 : Remote On-Off signal has full priority
	Bit 1 = On ~ 2,3 & 4 = Off	#2 : Priority is given to the remote ON signal
	Bit 2 = On ~ 1,3 & 4 = Off	#3 : Priority is given to the remote OFF signal
	Bit 1 & 2 = On ~ 3 & 4 = Off	#4 : Last touch priority
Window Switch Application	Bit 3 = On ~ 1,2 & 4 = Off	#5 : With return back to previous operation
	Bit 4 = On ~ 1,2 & 3 = Off	#6 : With no return back function

The fitting method of this accessory differs depending on the type of Indoor Unit it will be fitted to. Please refer to the correct type of Indoor Unit for the appropriate instructions.
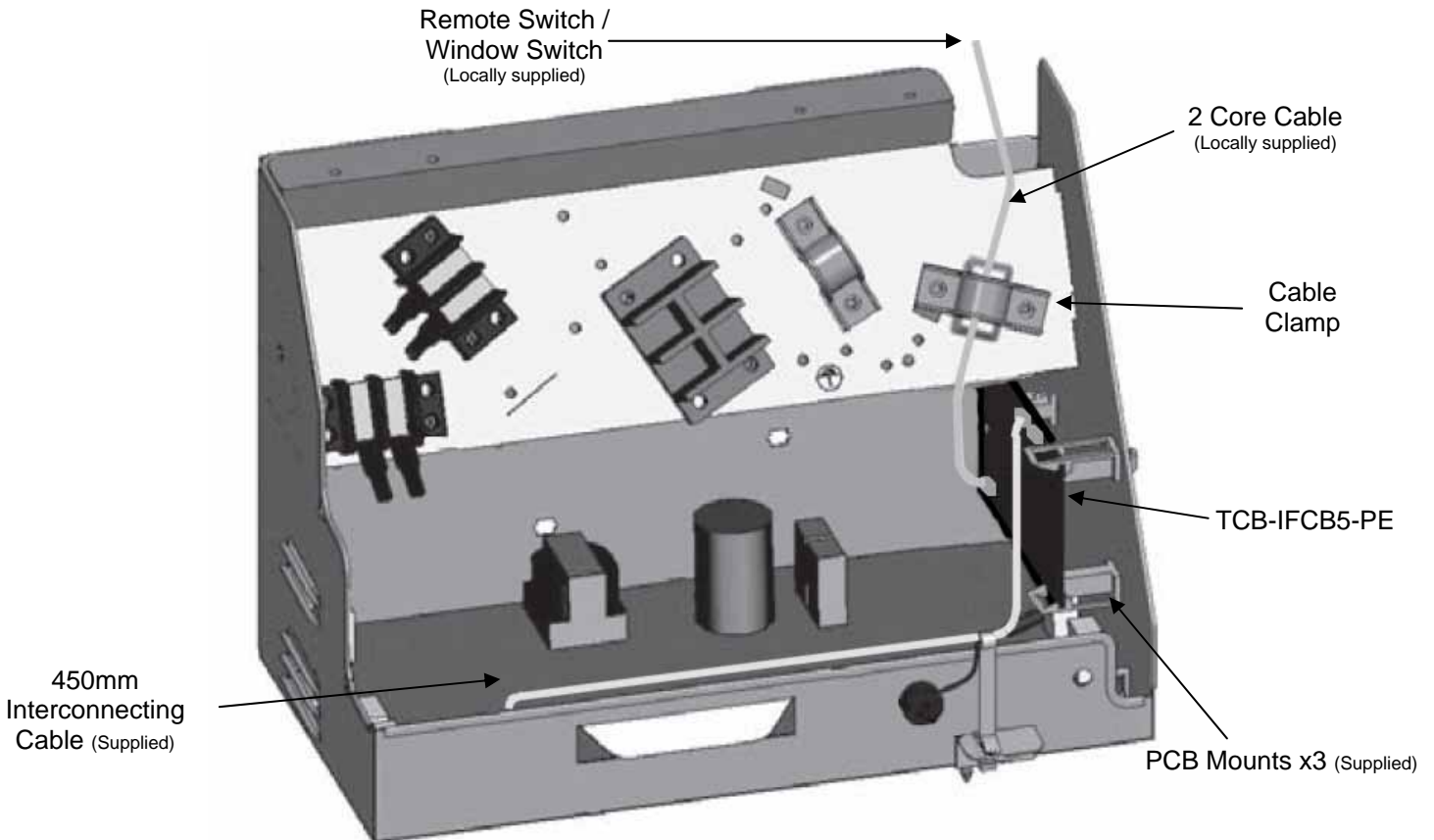
Standard Concealed Duct

- Remove the electrical cover.
- Fit the supplied PCB mounts to the holes provided in the right-hand side of the electrical box, and then mount the supplied PCB onto them.
- Connect the supplied cable to the socket on the Indoor Unit PCB labelled CN61 and connect the other end to the socket on the supplied PCB labelled CN02.
- Connect locally supplied cable (15m max.) from the terminals marked 'SW' of CN01 on the TCB-IFCB5-PE to the locally supplied remote switch or Window Sensor, securing with the clamp as shown (note that the other low voltage central controller and local controller cables will also use this clamp).
- To setup the required functionality of this accessory, you need to set the DIP Switches on SW1 (top left of the PCB), see table on Page 2.

TCB-IFCB5-PE

450mm Interconnecting Cable (Supplied)

PCB Mounts x3 (Supplied)

Cable Clamp

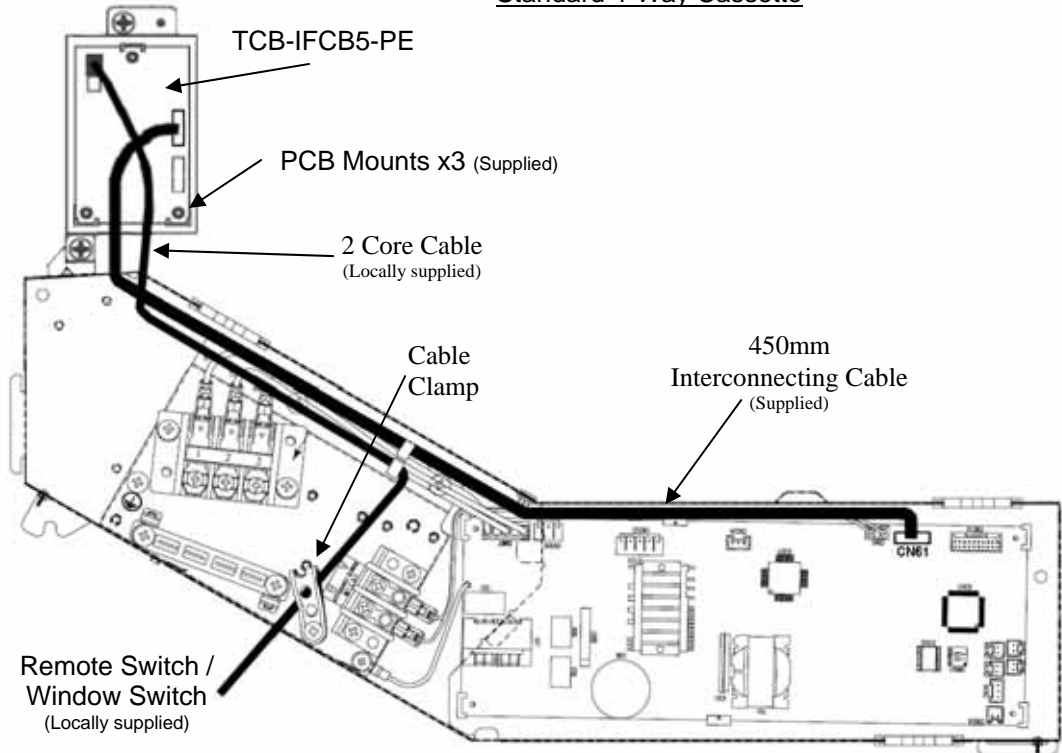2 Core Cable (Locally supplied)

Remote Switch / Window Switch (Locally supplied)

Slim Duct

- Please follow the installation instructions for the "Standard Concealed Duct" above, and refer to the diagram below.

Remote Switch / Window Switch (Locally supplied)

2 Core Cable (Locally supplied)

Cable Clamp

TCB-IFCB5-PE

450mm Interconnecting Cable (Supplied)
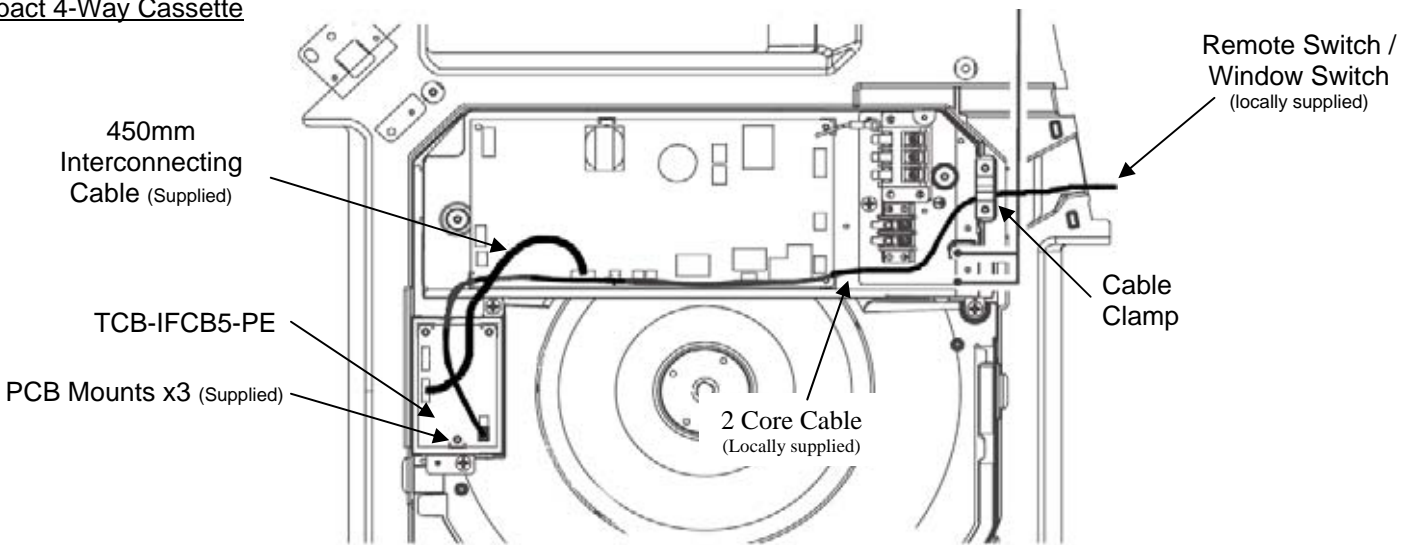
PCB Mounts x3 (Supplied)

Standard 4-Way Cassette & Compact 4-Way Cassette

- To install this product into the Standard 4-Way Cassette and the Compact 4-Way Cassette you will need the optional accessory TCB-PX30MUE.

- First fit the TCB-PX30MUE into the Indoor Unit by removing the plastic knockout in the Bell mouth assembly next to the Electrical Box.

- Then follow the instructions detailed under "Standard Concealed Duct" above, and refer to the appropriate diagram below.

Standard 4-Way Cassette

TCB-IFCB5-PE

PCB Mounts x3 (Supplied)

2 Core Cable (Locally supplied)

Cable Clamp

450mm Interconnecting Cable (Supplied)

Remote Switch / Window Switch (Locally supplied)

Compact 4-Way Cassette

450mm Interconnecting Cable (Supplied)

TCB-IFCB5-PE

PCB Mounts x3 (Supplied)

2 Core Cable (Locally supplied)

Remote Switch / Window Switch (locally supplied)

Cable Clamp

Ceiling Suspended

- Please install using the instructions for the "Standard Concealed Duct" above, and refer to the diagram below.

TCB-IFCB5-PE

2 Core Cable (Locally supplied)

PCB Mounts x3 (Supplied)

450mm Interconnecting Cable (Supplied)

Remote Switch / Window Switch (locally supplied)

Cable Clamp