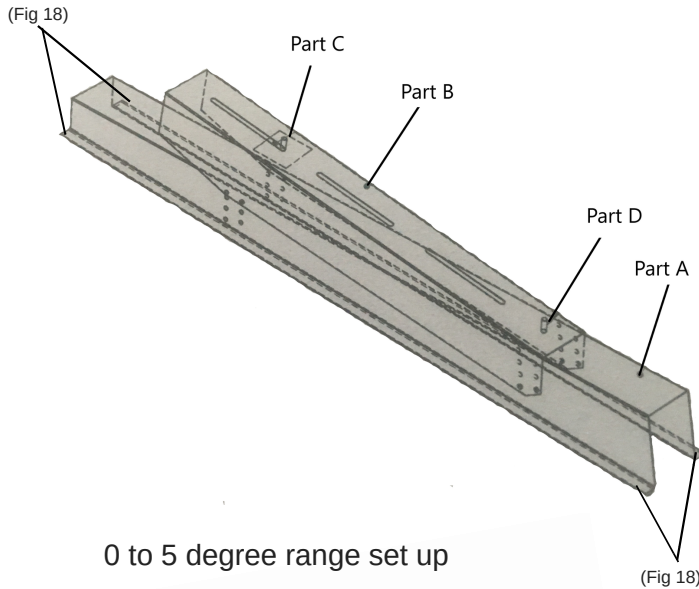


# Multi Pitch Roof Bracket Installation Instructions

## What's in the box



- Part A- Base bracket
- Part B- Top bracket
- Part C- Washer with stud
- Part D- Fixed stud

Part E- 4 X 8mm bolts



Part F- 4 X 8mm nuts



Part G- 2 X 10mm nuts

Part H- 4 X 8mm washer

Part I- 2 X 10mm washer



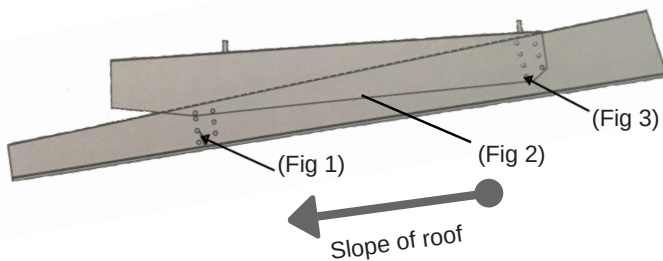
Part J- 2 X vibration pad



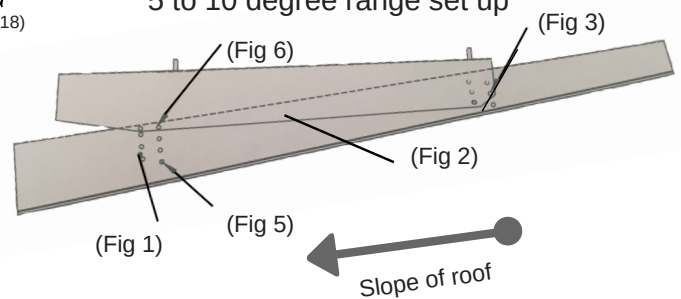
Part K- 2 X hex screw



## 0 to 5 degree range set up



## 5 to 10 degree range set up



## IMPORTANT NOTES BEFORE INSTALLATION

\*BEFORE ANY ROOF INSTALLATIONS ARE CARRIED OUT. THE SUPPORTING ROOF STRUCTURE MUST BE DESIGNED TO SUPPORT THE APPLICABLE VERTICAL AND WIND LOADS BY A QUALIFIED ENGINEER.

**\*THE BRACKET IS TO BE SUITABLY FIXED TO THE ROOF STRUCTURE TO SUPPORT THE APPLICABLE VERTICAL AND WIND LOADS.**

\*THE BASE BRACKET (Part A) SHOULD BE SECURELY FIXED TO THE SUPPORTING STRUCTURE IN FOUR POINTS SO THAT NOT TO OPEN UP UNDER LOAD (Fig18).

**\* A BARRIER MEMBRANE SHOULD BE USED TO PREVENT ANY METAL CONTACT WITH THE ROOF STRUCTURE DURING INSTALLATION.**

\*ANY ROOF PENETRATIONS MUST BE SUITABLY SEALED AND WATERPROOFED FOR THE EXPECTED LIFE OF THE SYSTEM.

## Installation steps

**Step 1-** Set up bracket in either 0-5 or 5-10 range depending on pitch of roof.

**Step 2-** Install 2 x 8mm bolts (Part E) into pivot point of bracket. One each side of the bracket (Fig 3).

**Step 3-** Install 1 x 8mm washer (Part H) and 1 x 8mm nut (Part F) to the end of each bolt. Tighten nuts hand tight only so that the top bracket can still pivot.

**Step 4-** Measure the distance between the two fixing points of the equipment being installed. Measure from fixed stud (Part D) to corresponding slot in top bracket (Part B).

**Step 5-** Install washer with stud (Part C) into corresponding slot. Place vibration pad (Part J) over stud to prevent the washer stud from dropping.

**Step 6-** Place bracket on the roof with a level on top of the top bracket (Part B). Raise the top bracket until level. Install 2 x 8mm bolt (Part E) into corresponding hole (Fig 1) or (Fig 5) one each side.

**Step 7-** Install 1 x 8mm washer (Part H) and 1 x 8mm nut (Part F) to each bolt. Tighten nuts with spanner securely including two bolts at pivot point (Fig 3).

**Step 8-** Install 2 x hex screws (Part K) into small holes (Fig 2) one each side of the top bracket (Part B).

**Step 9-** Bracket should be securely fixed to the roof structure ensuring the points stated above in "IMPORTANT NOTES BEFORE INSTALLATION" are followed.

**Step 10-** Vibration pad (Part J) should be installed onto fixed stud (Part D).

**Step 11-** Once equipment is mounted onto bracket the equipment should be securely fixed to the bracket using 1 x 10mm washer (Part I) and 1 x 10mm nut (Part G).