



Parallel Groove Clamp Installation Instructions

ELECTRICAL+INDUSTRIAL | TOOLS+TECHNOLOGIES

TMACTM
THEW &
McCANN
GROUP

ACTIVE INNOVATION



BEFORE YOU START

GENERAL PRECAUTIONS



Read and understand this guide before operating this equipment.

The TMAC PG Clamps are to be only used by qualified personnel and must be used in conjunction with the user's own working and safety procedures, without compromising the integrity of the TMAC product supplied.

Follow all safety instructions contained within this guide.

QUALIFIED PERSON

A qualified person is one who is familiar with the installation, construction, operation or maintenance of the equipment and the hazards involved. In addition this person is competent, trained and authorized to undertake the work involved in accordance with established safety and working procedures.



PROCEDURE

1. Select the correct clamp;

NOTE: If the correct size of clamp is not available do not cut strands from the conductor or double over strands of the conductor in order to make it fit – get the correct connector for the job.

2. Prepare the Conductor and PG Clamp by scratch brushing the contact surfaces to remove the oxide. Immediately continue to step 3;

NOTE: White brush for Aluminum.

Black brush for Copper.

Use of the wrong brush will introduce corrosion / contamination into the conductor.

3. Liberally apply T-Mac® CPG1 Grease or equivalent over the brushed area of the conductor only and ensure the entire contact area is covered;

NOTE: CPG1 is a non-conductive, oxide inhibiting grease that ensures long term reliable operation of the PG Clamp. TMAC does not recommend the use of Alminox or similar grease as they leave a zinc film behind that can cause damage to the cable or clamp.

4. Orientate the clamp onto the main conductor and insert the tap conductor fully into the correct side of the clamp;
5. When installing the clamp ensure that both conductor size and conductor material is compatible with the duty for which the clamp is designed;
6. Ensure that conductors fit fully within the grooves of the clamp;

Note: Do not use a powered gun to run the nuts / bolts up before proceeding to the next step as this can bind the stainless steel nuts / bolts up. This creates uncertainty of the actual torque placed on the bolts / nuts / cables.

7. Ensure the torque wrench is set to the correct torque value;

NOTE: The required Torque is stated on the PG Clamp.

8. For a single bolt clamp, tighten the bolt up to the correct torque value;
For a two bolt clamp, tighten the bolts sequentially, up to the correct torque, tightening each bolt between two (2) and five(5) times in sequence;
For a three bolt clamp, tighten the bolts sequentially, starting with the middle bolt, then the outer bolts, tightening each bolt between two (2) and five(5) times in sequence.

NOTE: When tightening a two or three bolt clamp, never tighten one bolt all the way, and then the other. If this is done, the first bolt tightened will relax, reducing the contact force on the connection.

REPAIR

The end user must not repair or modify any component associated with this device without written permission from TMAC.

If repair is required contact TMAC.

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DEFECTS / WARRANTY

DEFECTS

Goods are warranted to be free from defects. Provided they have been used strictly as recommended and subjected only to fair wear and tear, Goods (including parts within) which are found to be defective within 90 days after delivery to the Buyer will be repaired or replaced at the option of the Seller and at its expense. Repair or replacement by the Seller is the exclusive remedies of the Buyer.

WARRANTY

To the maximum extent permitted by law, the Seller makes no warranties, either express or implied, as to merchantability, fitness for purpose or otherwise with respect to the Goods other than in paragraph above and as required by statute. The Seller is not liable for any prospective profits or special, indirect or consequential damages or any general loss or damage, or for any expense resulting from use by the Buyer or others of defective Goods. The Seller's liability is limited to no more than the sale price of the Goods plus replacement delivery charges. Prior authority for the return of goods is required by the seller.

Please contact the seller by email sales@tmacgroup.com.au, phone 07 3826 6000 or fax 07 3826 6066 for claims related to defective / warranty of goods provided.

FOR THE FULL TERMS AND CONDITIONS PLEASE REFER TO TMAC "STANDARD TERMS OF TRADE"