

AMT12 reduction (step-up) pulley replacement

Applies to

Make: AMT12 Series Fixed Stride and Open Stride Adaptive Motion Trainer
 Model: 813, 823, 833, 835, and 885
 Mfg. Date: Units manufactured prior to Feb 2, 2015

Issue

There are two issues with the AMT12 reduction (step-up) pulley bracket assembly that can cause catastrophic drive belt failure: Improper belt alignment and pulley bearing failure. The bracket assembly does not guarantee that the drive belt pulley is correctly aligned resulting in belt misalignment and failure. Also, the reduction pulley press-fit bearing can become loose allowing bearing movement resulting in failure of the reduction pulley and attached belts. Plastic debris falling from the damaged reduction pulley can also get impacted into the drive Input pulley grooves causing additional damage to the drive input belt.

Symptoms

Noises such as a rapid popping sound have been associated with the pulleys with oversized bearing bores. Clunky, jerky, and/or slipping pedal and arm motion could also be associated with drive belts that have been damaged by the pulley misalignment or debris from the damaged pulley.

Resolution

Replace the reduction (step-up) pulley and bracket with a new reduction pulley/bracket assembly that includes an updated bracket that corrects the pulley misalignment problem and a new updated reduction (step-up) pulley that corrects the bearing issues.

Tools required

- #2 Philips screwdriver
- Small standard flat blade screwdriver
- Small brass or steel bristle brush
- 7/16" Open End Wrench
- Ratchet with 7/16" and 1/2" socket sizes
- Belt Tension Gauge: Range" (30 lbs to 140 lbs), (model: SPX6673 or equivalent)

Parts required

QTY	Part Number	Description
1	PPP00000058112102	KIT, REDUCTION PULLEY, AMT12



Parts Included with Kit 58112-102 (PPP00000058112102)

Procedure

This service bulletin installs Kit 58112-102 (PPP000000058112102) which replaces the reduction (step-up) pulley/bracket assembly, the generator belt, and the input drive belt.

Refer to Work Instruction 20157-101 (included in Kit 58112-102) for installation/repair procedure instructions.



Note: The new replacement reduction pulley is not backward compatible. The new reduction pulley will not fit properly on previous legacy pulley brackets.



Note: Field servicers should scrap existing inventory of the old style reduction pulley 301186-101 (PPP000000301186101).