Heavy Duty Belt Conversion for 770

[H0171-K]

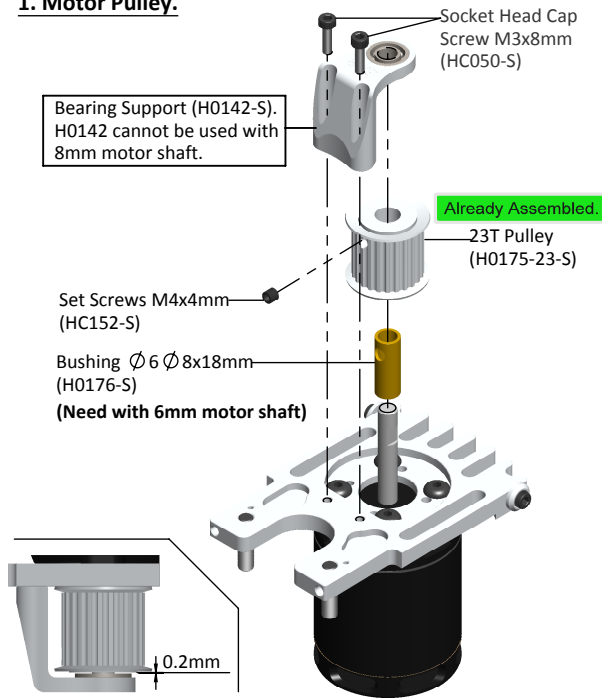**Increased power transfer and longer belt and one way bearing life.**

1. Motor Pulley.

Socket Head Cap Screw M3x8mm (HC050-S)

Bearing Support (H0142-S). H0142 cannot be used with 8mm motor shaft.

Already Assembled.

23T Pulley (H0175-23-S)

Set Screws M4x4mm (HC152-S)

Bushing ⌀6 ⌀8x18mm (H0176-S)
(Need with 6mm motor shaft)

0.2mm

2. Belt Tensioner.

Flanged Bearing ⌀5x ⌀9x3mm (HC400-S)

Belt Tensioner Arm
Already Assembled.

Washer ⌀3.2x ⌀6x0.5mm (HC176-S)

Washer ⌀3x ⌀4x0.5mm (HC176-S)

Tail Belt Idler
Already Assembled.

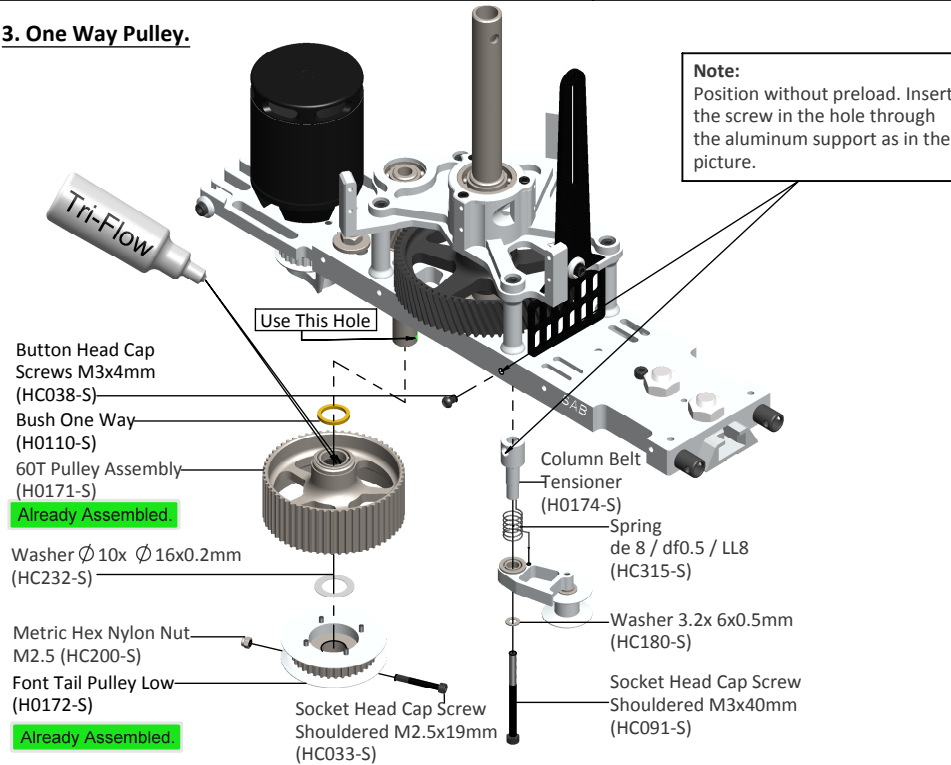Flanged Bearing ⌀3x ⌀7x3mm (HC400-S)

Socket Head Cap Screw M3x12mm (HC062-S)

NOTE:
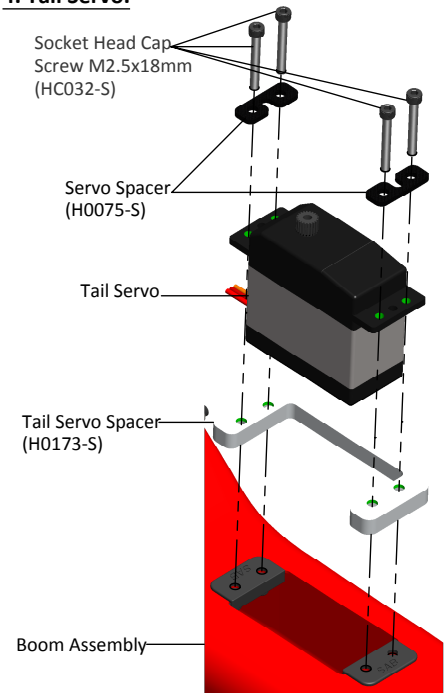For proper belt tension alignment:
- Assemble the tensioner arm as shown
- Cut the main frame where highlighted

3. One Way Pulley.

Note:
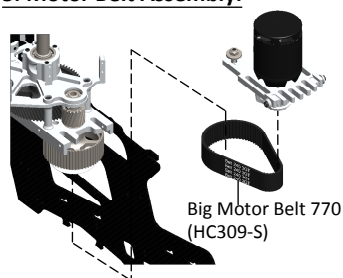Position without preload. Insert the screw in the hole through the aluminum support as in the picture.

Tri-Flow

Use This Hole

Button Head Cap Screws M3x4mm (HC038-S)

Bush One Way (H0110-S)

60T Pulley Assembly (H0171-S)
Already Assembled.

Washer ⌀10x ⌀16x0.2mm (HC232-S)

Metric Hex Nylon Nut M2.5 (HC200-S)

Font Tail Pulley Low (H0172-S)
Already Assembled.

Socket Head Cap Screw Shouldered M2.5x19mm (HC033-S)

Column Belt Tensioner (H0174-S)

Spring de 8 / df0.5 / LL8 (HC315-S)

Washer 3.2x 6x0.5mm (HC180-S)

Socket Head Cap Screw Shouldered M3x40mm (HC091-S)

4. Tail Servo.

Socket Head Cap Screw M2.5x18mm (HC032-S)

Servo Spacer (H0075-S)

Tail Servo

Tail Servo Spacer (H0173-S)

Boom Assembly

5. Motor Belt Assembly.

Big Motor Belt 770 (HC309-S)

Sequence:

- Install the motor and motor pulley to its mounting plate.
- Fit the motor assembly into position.
- Compress the springs by pushing the motor toward the main shaft.
- At maximum compression, temporarily tighten one of the slide nuts.
- Engage the belt around the motor pulley.
- Engage the belt around the main pulley.
- Rotate the motor several times by hand.
- Losen up the slide nut to allow the springs to tension the belt.
- Help the springs by pulling on the motor slightly.
- Lock both slide nuts and front screws.
- **The belt must be very tight.**

6. Spare Parts.

H0171-S	One Way Double Bearing.
H0172-S	Font Tail Pulley Low.
H0173-S	Tail Servo Spacer
H0175-18-S	Motor Pulley 18T 20mm.
H0175-19-S	Motor Pulley 19T 20mm.
H0175-20-S	Motor Pulley 20T 20mm.
H0175-21-S	Motor Pulley 21T 20mm.
H0175-22-S	Motor Pulley 22T 20mm.
H0175-23-S	Motor Pulley 23T 20mm.
HC309-S	Big Motor Belt 770