



# Parts and Operators Manual

## STM Super Flail 36"

*Issue 5 Aug 2026*

**SERIAL NUMBER 1431 (10/2013)**  
**onwards**

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## STM Super Flail 36"

### **BELT ADJUSTMENTS**

To adjust either the engine-driven belt or gearbox drive belt, remove the guard (4)

#### Engine-driven belt

Electric Clutch models: tighten nut to keep washer level with face of endplate [see figure 2]

Non Electric Clutch models: adjust by means of turnbuckle (71)

**Do not over-tension!**

#### Gearbox belt

Slacken bearing lockbolts (58) and corresponding lockbolts on bottom bearing.

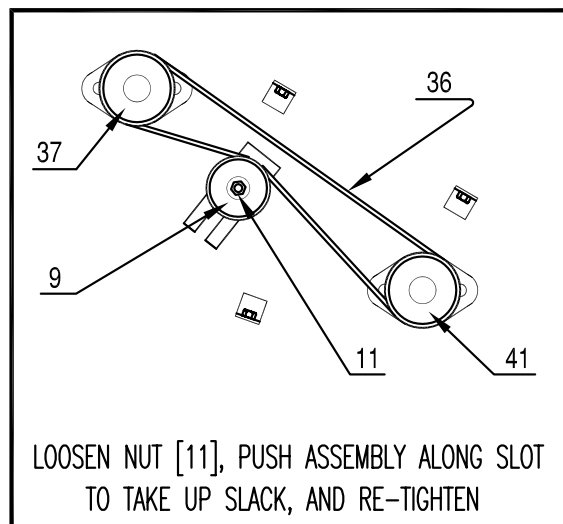
Adjust twin pulley by means of screw (97). Do not over-tighten!

Tighten all bearing bolts and locknuts and re-fit guard.

#### Twin rotor drive belts

Remove guard (7), slacken locknut (11) in centre of flat pulley (9), and pull up by hand. Tighten locknut. (See illustration below). **Do not over-tension belts!**

fig 1



### **BELT REPLACEMENT**

#### Engine-driven belt

##### **Electric Clutch models:**

Remove guard (4): Loosen off Lock nut and washer "A" - as shown in fig 2 below.

This slackens off the electric clutch pre-tension mechanism.

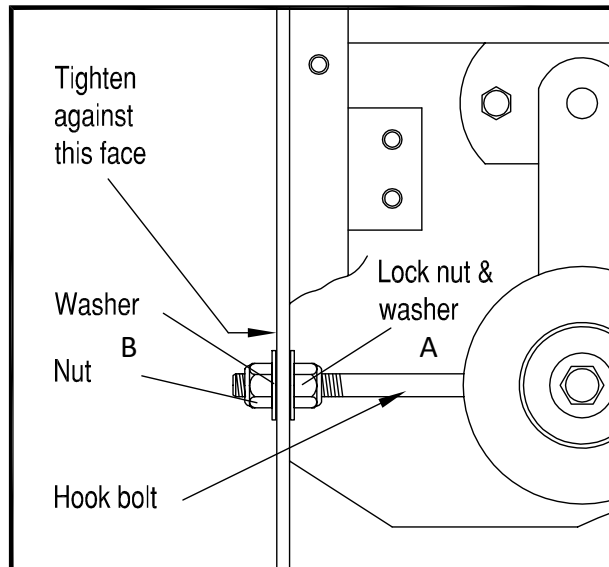
Replace belt.

Re-tension belt with Lock nut and washer "B" and lock up nut and washer "A" - ref fig 2 below.

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### **BELT REPLACEMENT** *Electric Clutch models: [continued]*

fig 2



*Illustration for pre-tensioning pulley on Electric Clutch models*

### **BELT REPLACEMENT** *[Engine driven belt]....continued*

#### Rotor belts

Remove guard (7), slacken adjuster pulley (9) to bottom of slide and remove belts.

**ALWAYS REPLACE THESE BELTS IN PAIRS.**

Adjust belt tension as above and refit guard.

### **LUBRICATION**

#### Gearbox

Remove level plug and fill through plug hole with gear oil EP80/140

#### Bearings

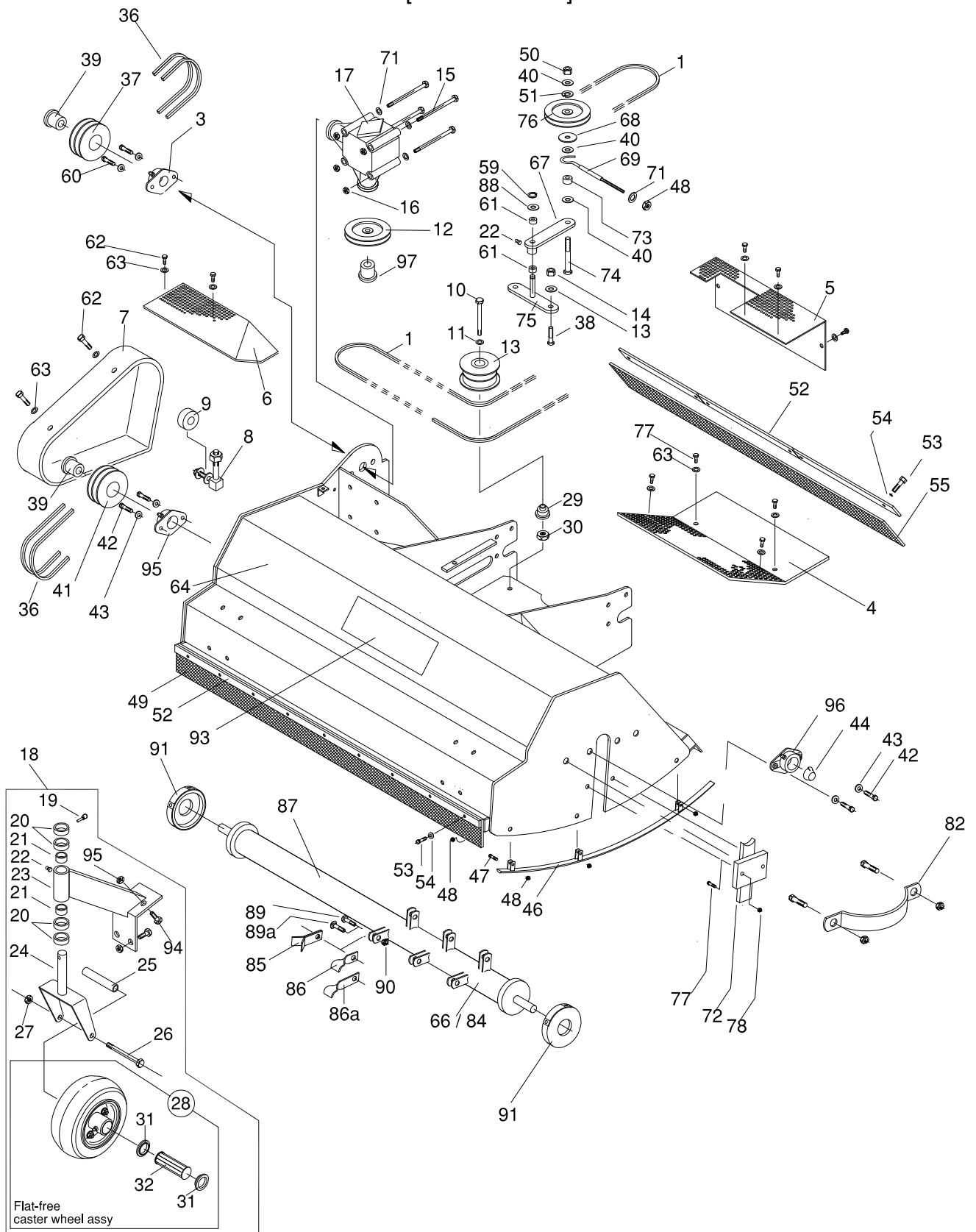
Nos 95 (2 off) and 3 (3 off) - give 2 or 3 shots with a hand-held grease gun every 500 hours.

**DO NOT OVER-GREASE**

Caster wheels: (swivel and axle nipples) - lubricate every 12-14 hours.

# STM Super Flail 36

## [ 16" CHASSIS ]



Issue 3

## STM Super Flail 36"

| Drawing ref | Part No. | Description                       |
|-------------|----------|-----------------------------------|
| 1           | 10693    | Belt (Gearbox) B66                |
| 2           |          |                                   |
| 3           | 10003    | Bearing LFTC25A                   |
| 4           | 10004    | Guard                             |
| 5           | 10005    | Guard                             |
| 6           | 10006    | Guard                             |
| 7           | 10007    | Guard                             |
| 8           | 10470    | Adjuster block                    |
| 9           | 10009    | Pulley                            |
| 10          | PL       | Bolt M10 x 100                    |
| 11          | PL       | M10 Flat washer                   |
| 12          | 482744   | Pulley                            |
| 13          | 486045   | Pulley                            |
| 14          | PL       | Hex nut - 8mm                     |
| 15          | PL       | Bolt                              |
| 16          | PL       | Nyloc nut                         |
| 17          | 10013    | Gearbox                           |
| 18          | 46079    | Caster assy complete (inc. 19-28) |
| 19          | 04066-01 | Quick pin                         |
| 20          | 43037-01 | 1/2" Spacer (Caster yoke)         |
| 21          | 48100-01 | Bronze bearing                    |
| 22          | 48114-04 | Grease nipple                     |
| 23          | 10014    | Support assembly (inc. 21 & 22)   |
| 24          | 45006    | Caster yoke                       |
| 25          | 43022    | Sleeve (Caster wheel bearing)     |
| 26          | 04001-37 | Bolt                              |
| 27          | 04021-07 | Hex locknut: 1/2" x 13            |
| 28          | 009275   | Wheel assy                        |
| 29          | 43660    | Boss                              |
| 30          | PL       | M10 Nut                           |
| 31          | 481770   | Bearing retainer (Caster wheel)   |
| 32          | 481769   | Roller bearing (Caster wheel)     |
| 33          |          |                                   |
| 34          |          |                                   |
| 35          |          |                                   |
| 36          | 10015    | SPZ Belts                         |
| 37          | 10016    | Pulley                            |
| 38          | PL       | Bolt: M8 x 30mm                   |
| 39          | 10117    | Taper hub lock                    |
| 40          | 04041-07 | Washer: 10 x 21                   |

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| Drawing ref | Part No. | Description                          |
|-------------|----------|--------------------------------------|
| 41          | 10019    | Pulley                               |
| 42          | PL       | Bolt                                 |
| 43          | PL       | Shakeproof washer                    |
| 44          | 10020    | Bearing cap                          |
| 45          |          |                                      |
| 46          | 10022    | Skid                                 |
| 47          | PL       | Bolt M8 x 30mm                       |
| 48          | PL       | Nut M8                               |
| 49          | 10305    | Rubber flap - front                  |
| 50          | 04021-09 | Hex nut: 3/8"                        |
| 51          | 04030-04 | Spring washer 3/8"                   |
| 52          | 10025    | Flap retainer                        |
| 53          | PL       | Bolt: M8 x 20mm                      |
| 54          | PL       | Spring washer: 8mm                   |
| 55          | 10315    | Rubber flap - rear                   |
| 56          |          |                                      |
| 57          |          |                                      |
| 58          | 10028    | Bolt                                 |
| 59          | 04050-02 | Retainer ring                        |
| 60          | 10029    | Bolt                                 |
| 61          | 48100-05 | Bronze BRG                           |
| 62          | PL       | Bolt: M6 x 20mm                      |
| 63          | PL       | Spring washer: 6mm                   |
| 64          | 10030    | Flail head (cowling only)            |
| 65          |          |                                      |
| 66          | 10032    | Flail shaft assembly: Twisted flails |
| 67          | 46081    | Idler arm                            |
| 68          | PL       | Washer: 3/8 x 2"                     |
| 69          | 44101    | Eye bolt                             |
| 70          |          |                                      |
| 71          | 04041-07 | Washer: 24 x 10 x 3                  |
| 72          | 10064    | Blanking plate                       |
| 73          | 43063    | Sleeve                               |
| 74          | 04001-54 | Bolt: 3/8 x 3"                       |
| 75          | 10043    | Idler pivot                          |
| 76          | 10239    | Pulley assy inc. bearing & bush      |
| 77          | PL       | M6 x 15 bolt                         |
| 78          | PL       | M6 Nyloc nut                         |
| 79          |          |                                      |
| 80          |          |                                      |

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| Drawing ref | Part No. | Description                           |
|-------------|----------|---------------------------------------|
| 81          |          |                                       |
| 82          | 10096    | Bearing protector plate               |
| 83          | 009275   | Flat-free caster wheel assy           |
| 84          | 10035    | Flail shaft assy: back to back flails |
| 85          | 10036    | Single back to back flail (64)        |
| 86          | 10037    | Single twisted flail (32)             |
| 86a         | 10082    | Single twisted flail long             |
| 87          |          |                                       |
| 88          | PL       | Flat washer                           |
| 89a         | 12615    | Coach bolt / nut                      |
| 89          | 10039    | Bolt (special)                        |
| 90          | 10040    | Nut (special)                         |
| 91          | 10041    | Grass guard                           |
| 92          | 10042    | Grass guard (slotted)                 |
| 93          | 10224    | STM decal                             |
| 94          | PL       | Bolt: 5/16 x 3/4"                     |
| 95          | PL       | Nut: 5/16"                            |
| 96          | 10044    | bearing (shaft)                       |
| 97          | 10471    | Taper hub lock                        |
| 98          |          |                                       |
| 99          |          |                                       |
| 100         |          |                                       |

PL - Purchase Locally