Tamiya Bruiser Transmission Manual
(58048)

1

850 Flanged bearing
x2

Shift spring A
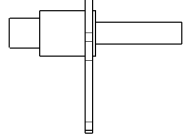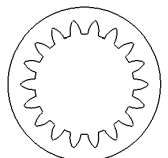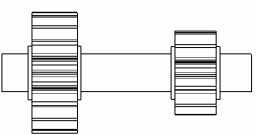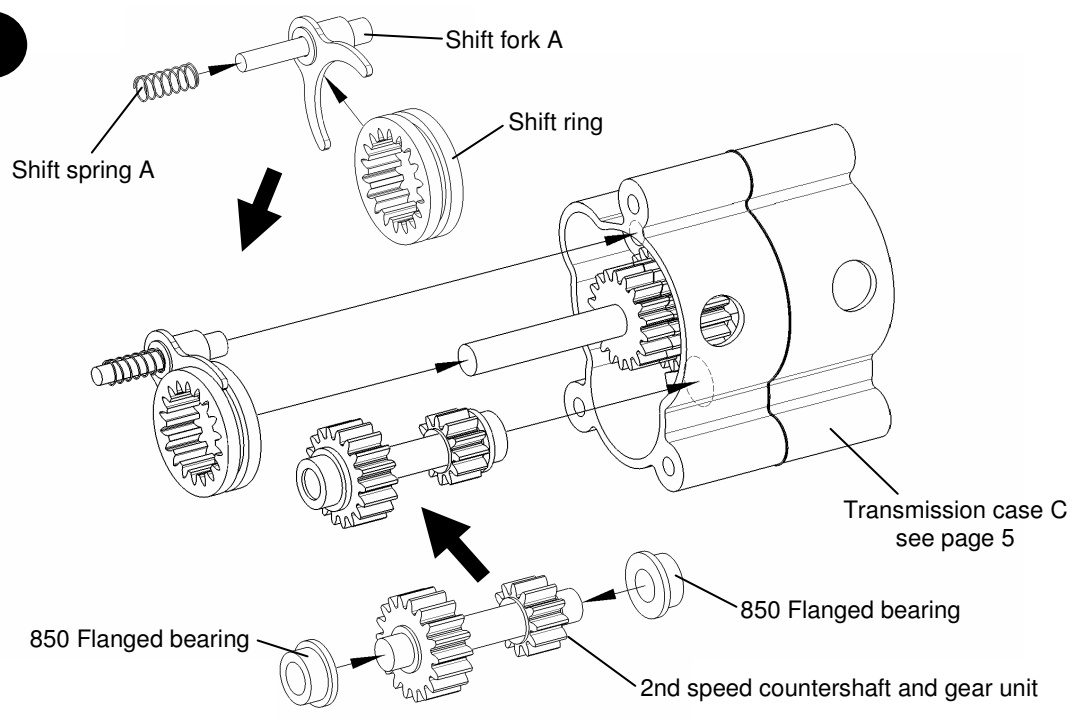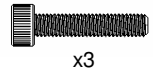x1

Shift fork A
x1

Shift ring
x1

2nd speed countershaft
and gear unit
x1

2

3x15mm Screw
x3

3
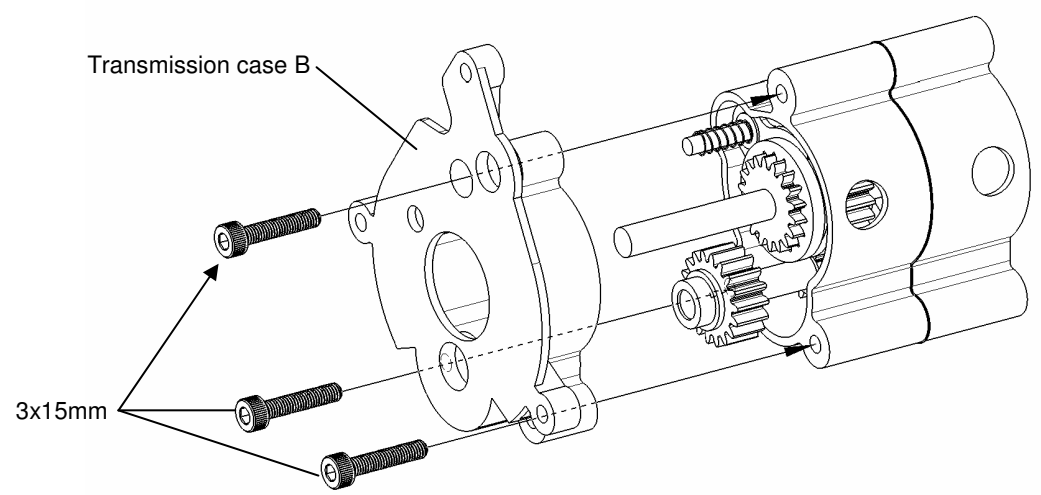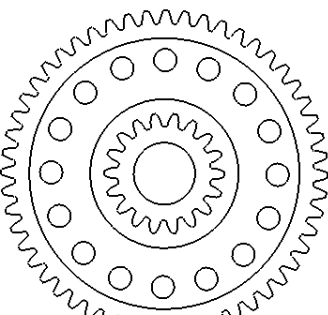
850 Flanged bearing
x2

Dust Protector
x1

Spur gear
x1

1

Shift fork A

Shift ring

Shift spring A

Transmission case C
see page 5

850 Flanged bearing

850 Flanged bearing

2nd speed countershaft and gear unit

2

Transmission case B

3x15mm

3

850 Flanged bearing

Spur gear

Dust Protector
Note - Apply silicone sealant to hold dust Protector in place

Dust Protector
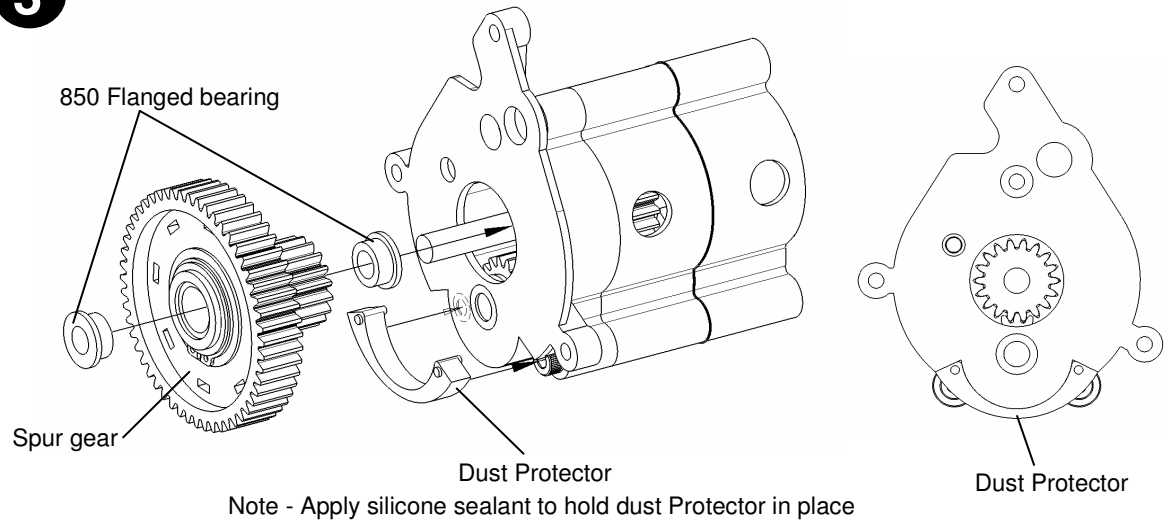
4

3x10mm Screw
x2

3x15mm Screw
x1

1150 Metal bearing
x1
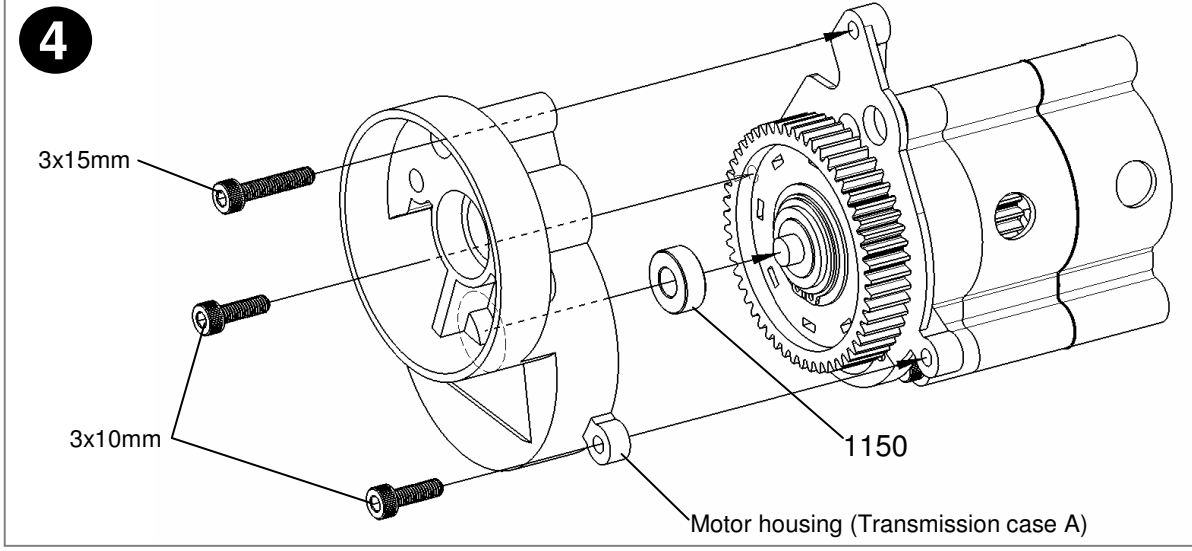
5

x2

Shift fork B
x1

Low speed countershaft and gear unit
x1

Main gear cluster
x1

Shift ring
x1

Recommended orientation
for easy assembly

6

3x10mm Screw
x3

4

3x15mm

3x10mm

1150

Motor housing (Transmission case A)

5

Shift rail
x1

Shift rail

Shift fork B

Shift ring

5mm Flanged bearing

Main gear cluster

850 Flanged bearing

Low speed countershaft and gear unit

6

Transmission case D
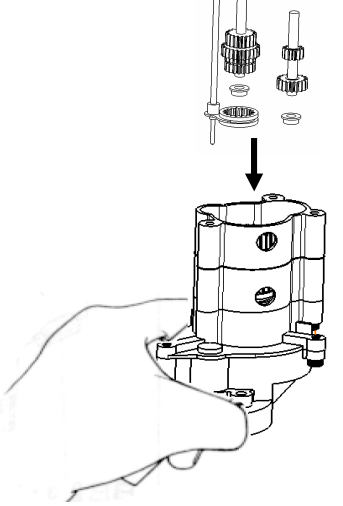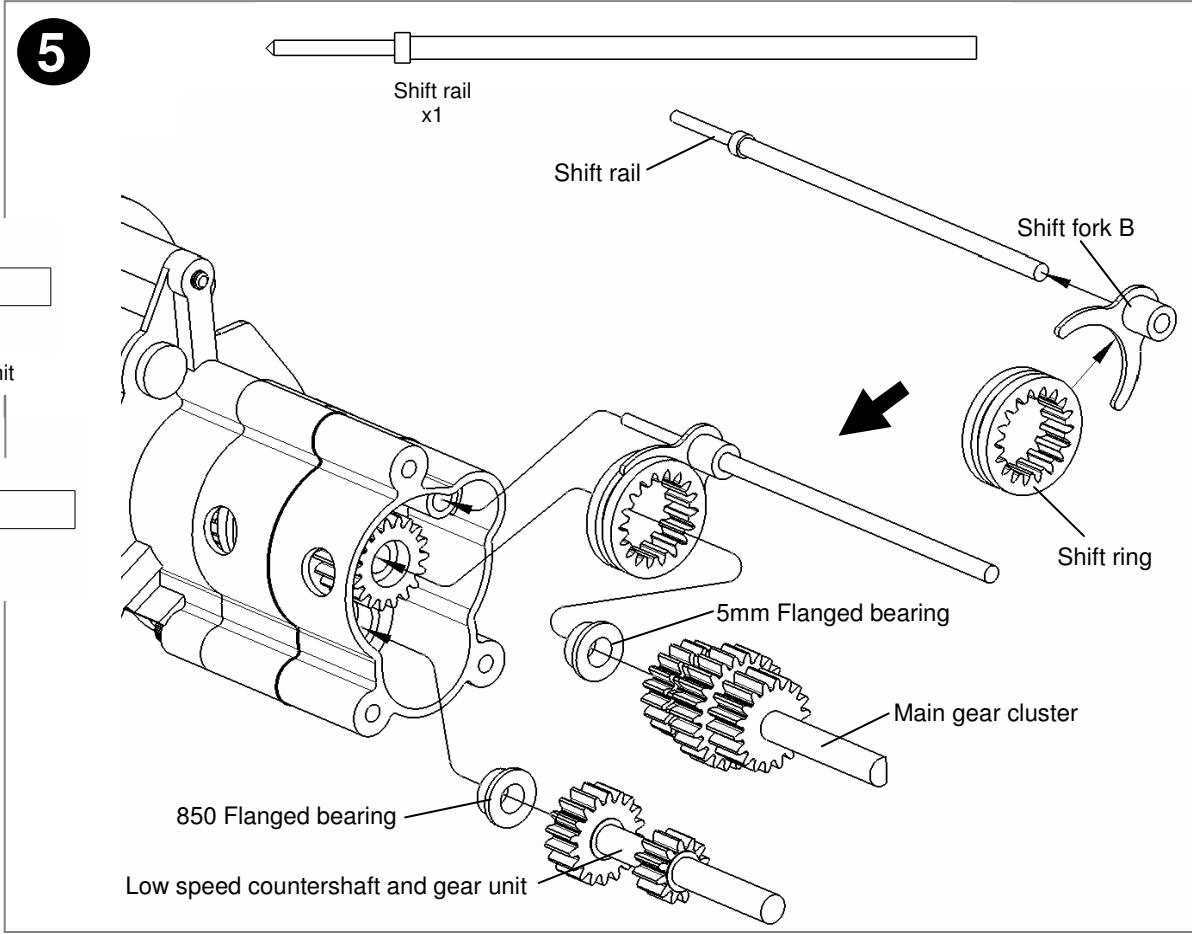
3x10mm
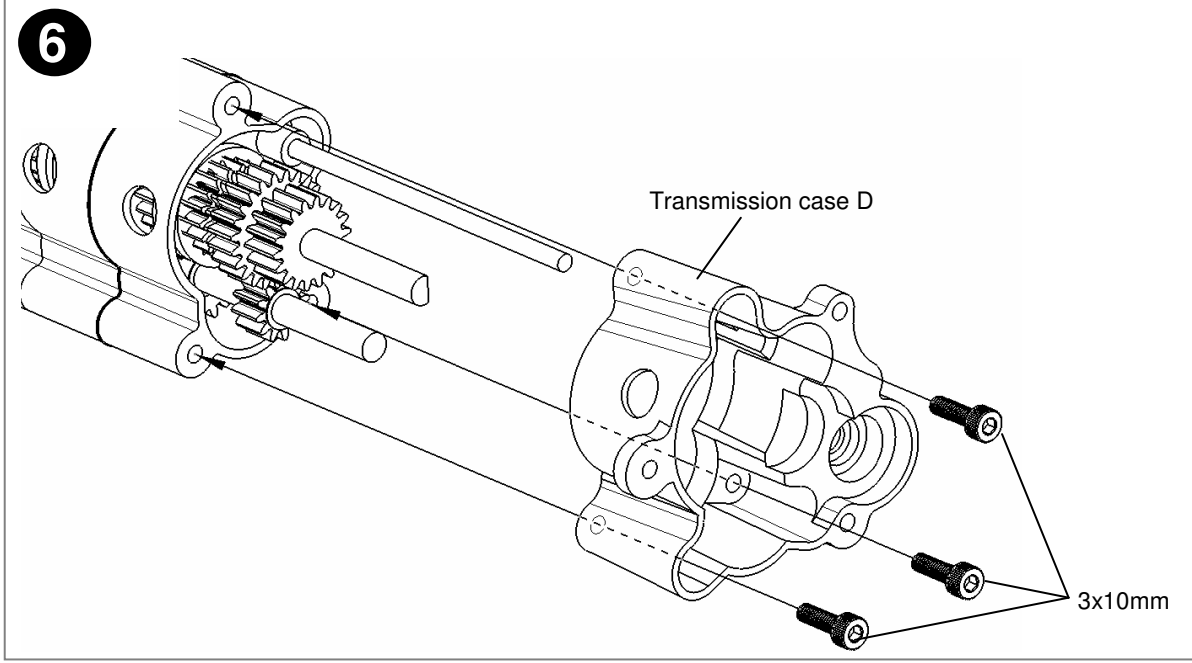
7

5mm X 12.5 Bushing x2

Shift spring B x1

Shift spring C x1

Shift fork B x1

Shift ring x1

Shift spring B

Shift fork B

Shift spring C

5mm X 12.5 Bushing

5mm X 12.5 Bushing

Shift ring

8

1150 Metal bearing x1

850 Flanged bearing x2

Front drive shaft and gear unit x1

18T Idler gear x1

Front drive shaft and gear unit

1150

18T Idler gear

850 Flanged bearing
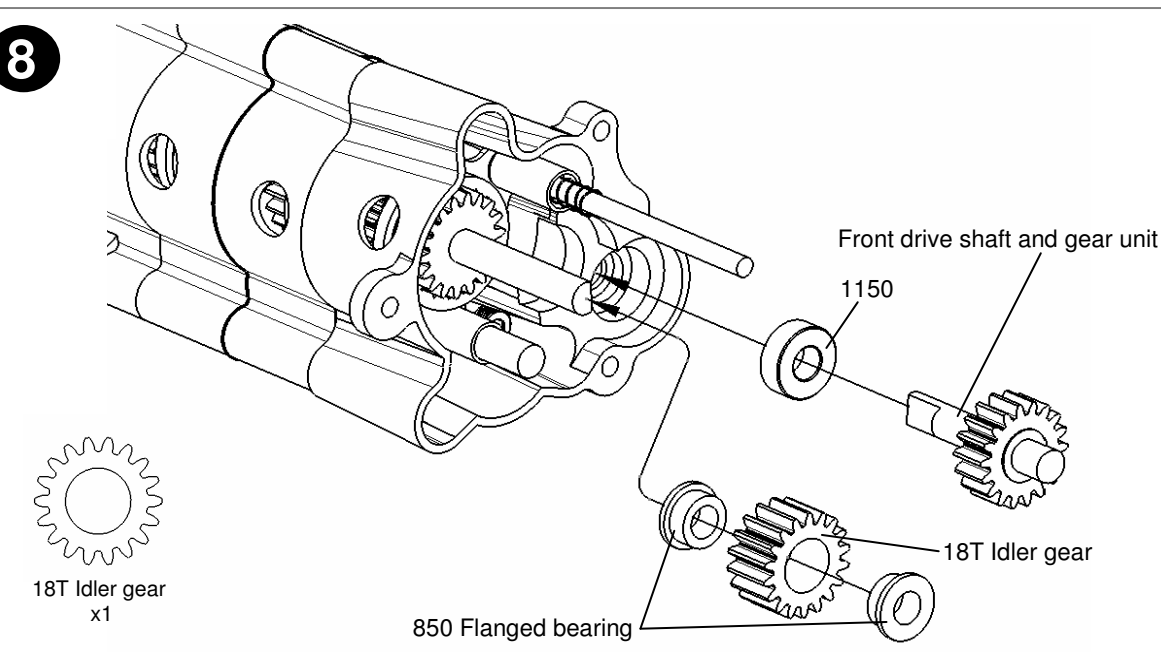
9

1150 Metal bearing x2

850 Flanged bearing x1

3mm Flanged nut x2

3x18mm Screw x1

Front drive countershaft x1

Plastic bushing x1

Threaded shaft x1

Front drive countergear x1

Threaded shaft

3mm Nut

Gearbox case E

Front drive countershaft

Plastic bushing

3x18mm
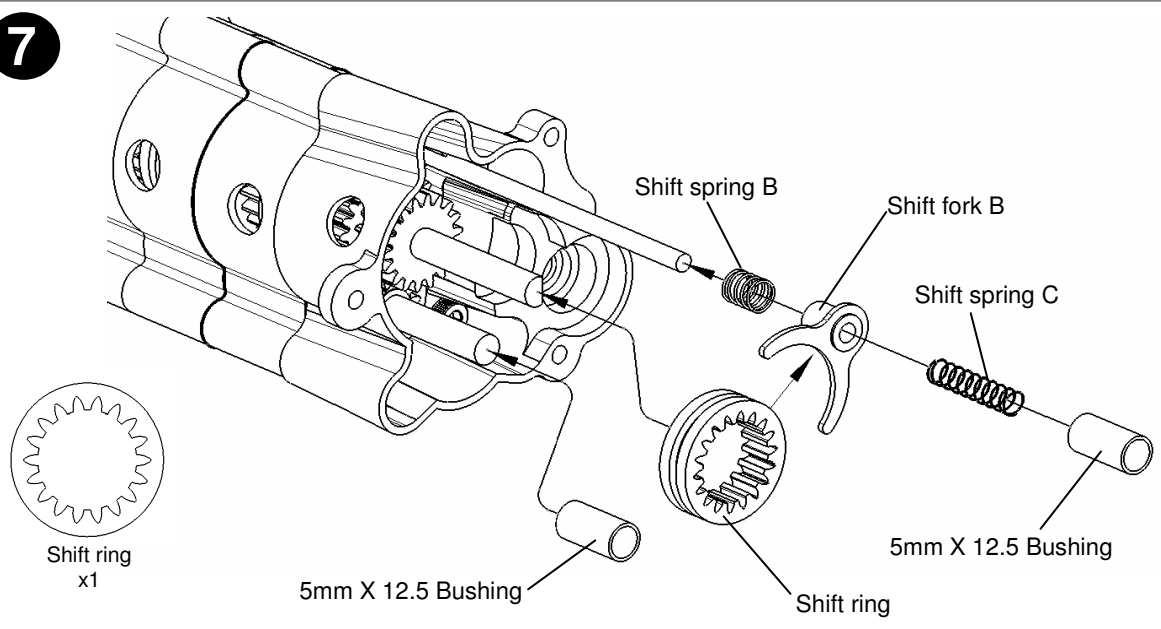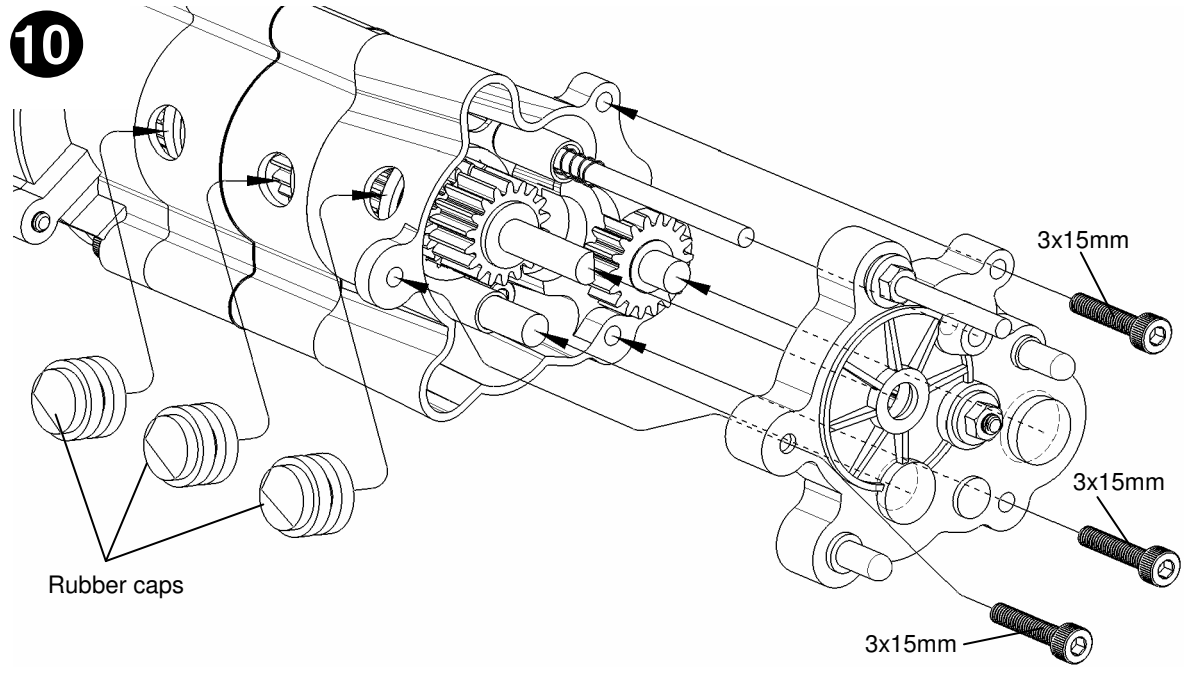
Front drive countergear

1150

1150

850 Flanged bearing

3
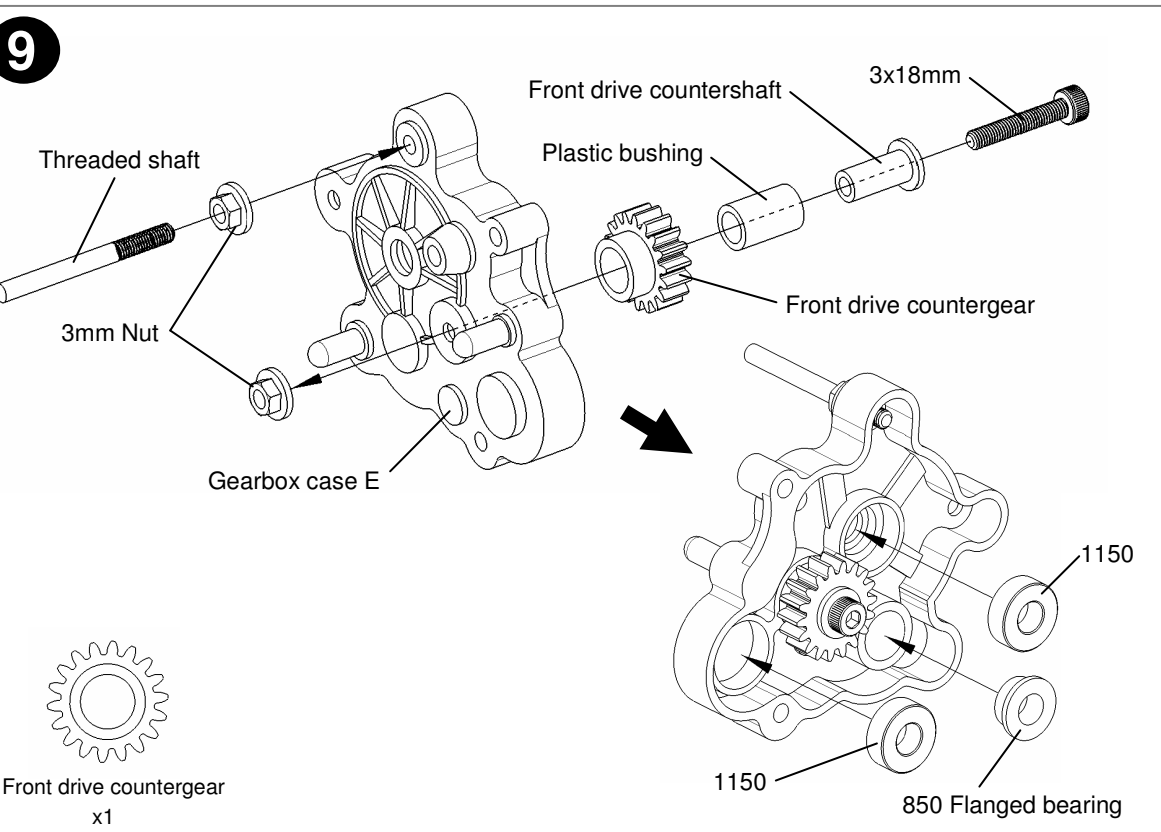
10

3x15mm Screw
x3

Rubber cap
x3

Rubber caps

3x15mm

3x15mm

3x15mm

11

4x11mm screw
x2

OPTIONS

1150
Metal bearing → 1150
Ball bearing

850
Flanged bearing → 0.5mm Shim + 850
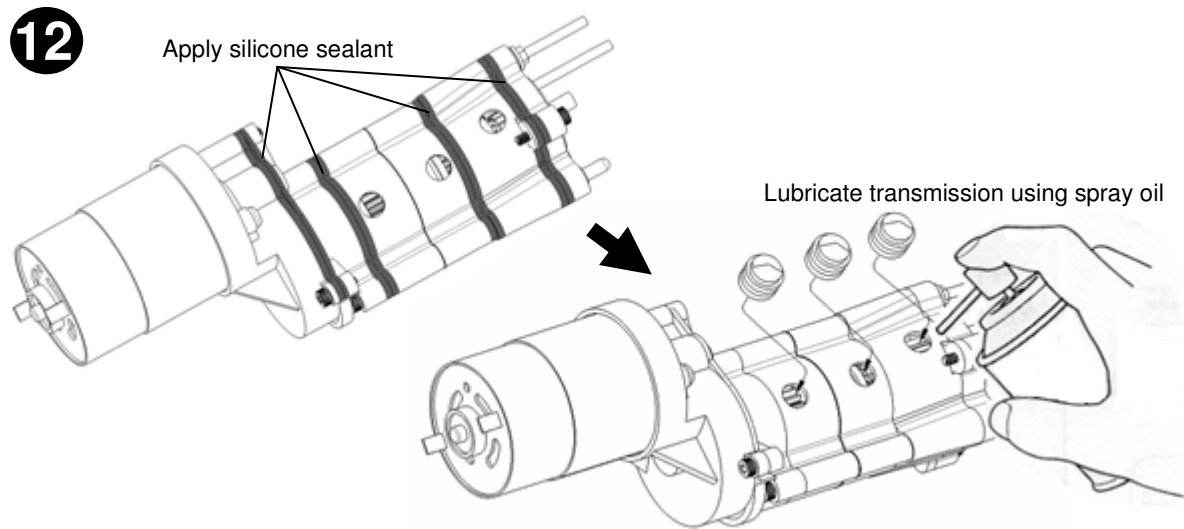Flanged ball bearing

RS-750SH Motor
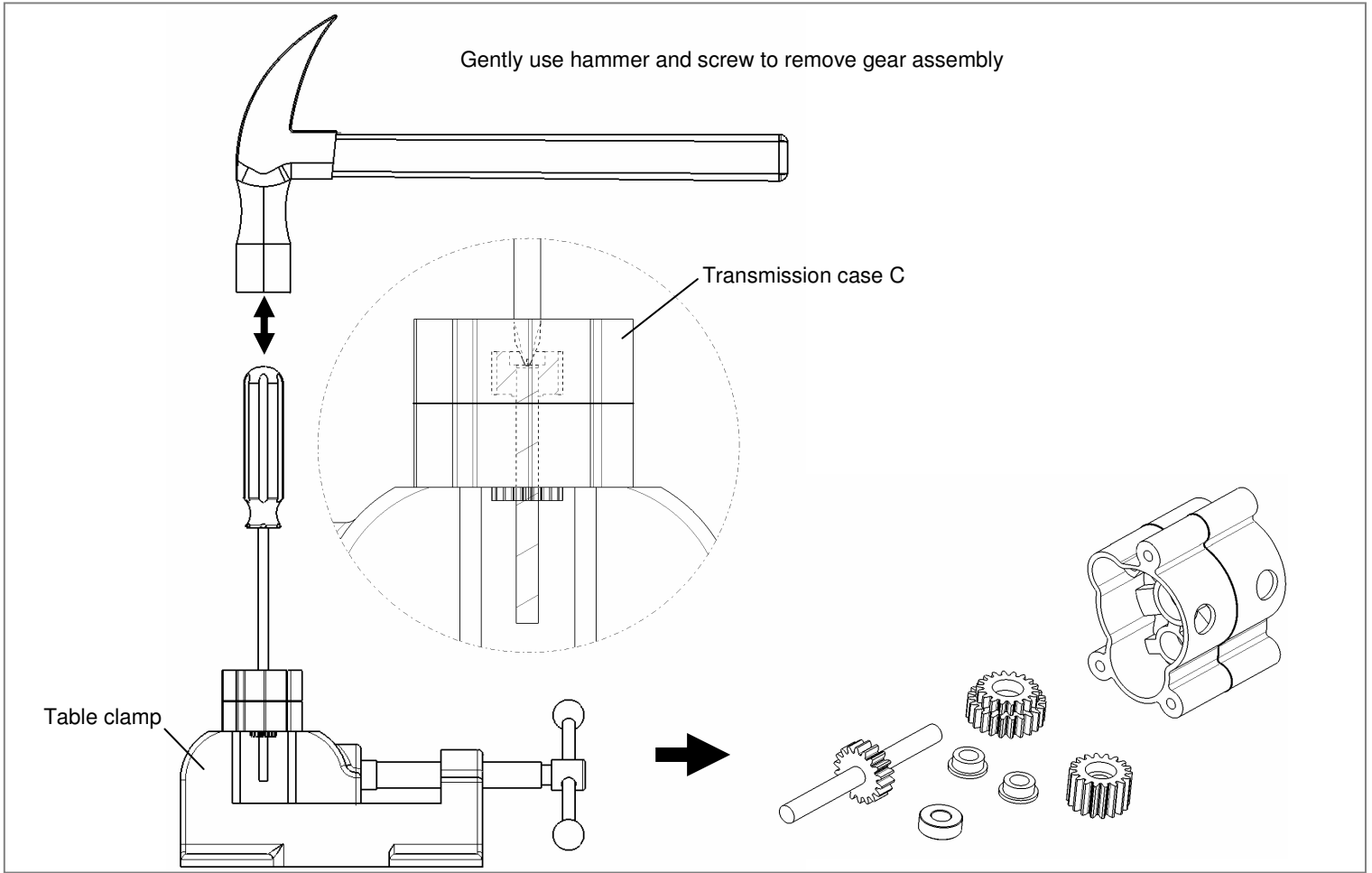
Note - Insert notch into motor

4x11mm

4x11mm
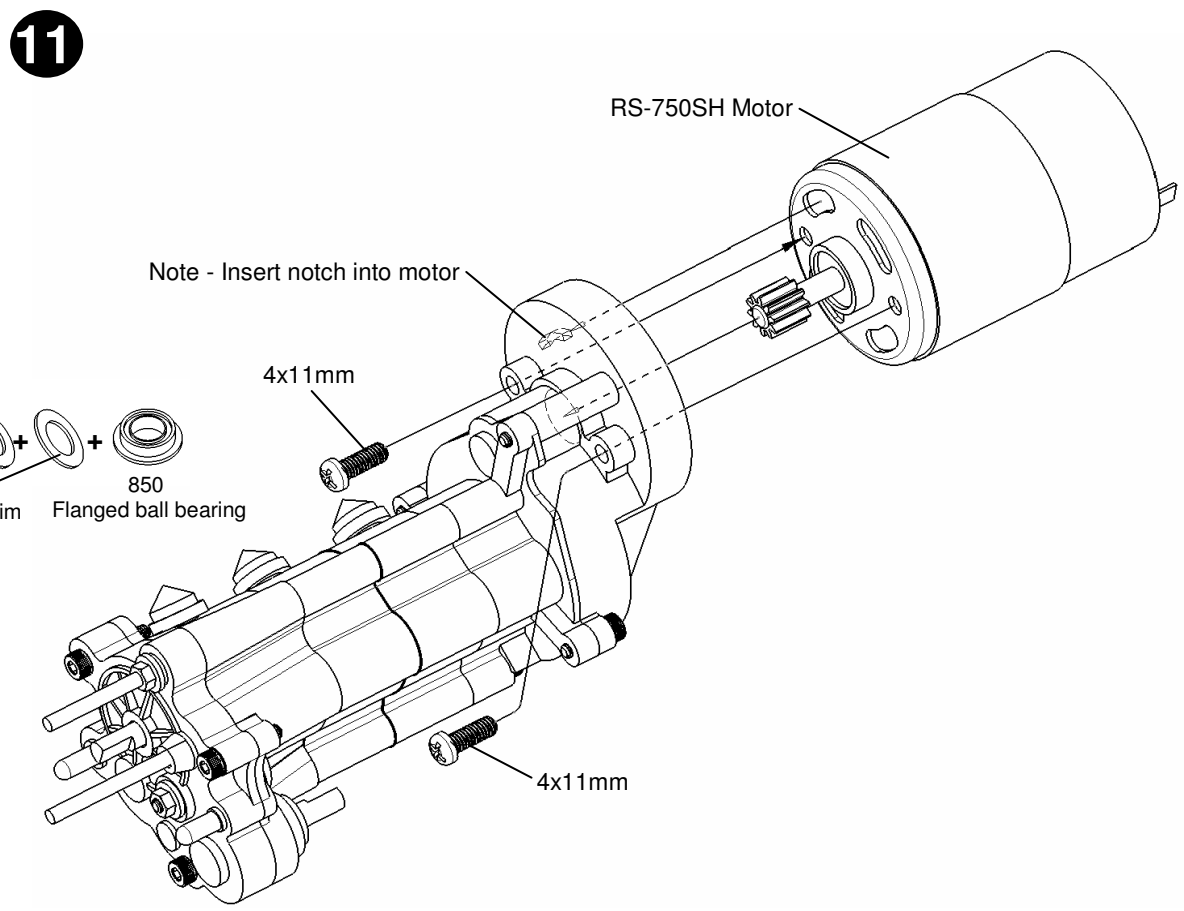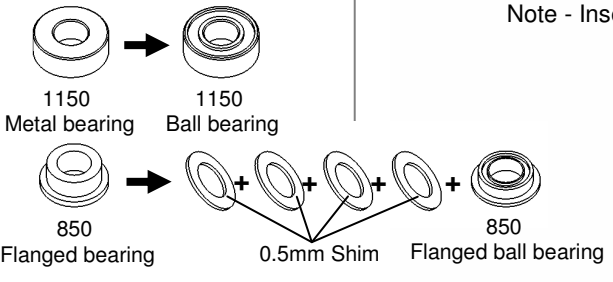
12

Silicone sealant will prevent dirt entering transmission and will keep oil from leaking. Make sure not to apply silicone on gears and moving parts.

Apply silicone sealant

Lubricate transmission using spray oil

Transmission case C disassembly

Gently use hammer and screw to remove gear assembly

Transmission case C

Table clamp

Transmission case C assembly

1150

Gently use hammer and Tamiya tool to tighten gear assembly
Do not over tighten gear assembly on transmission case c
To release use transmission case c disassembly step

850 Flanged bearing

Transmission case C

Tamiya tool

Table clamp