

# Shuttle SCEADU Evolution GRADE-UP NO.4 OPTIONAL PARTS

# More & More SCEADU



### Optional main blades

SE L=550 FRP main blades for 30 class 0402-621

SD L=600 Carbon main blades for 50 class 0403-315

L=600 FRP Symmetrical main blades for 50 class 0403-314

※0412-109 is standard for Evolution 30, 0403-314 is standard for Evolution 50.

### Drag bolt (Hardened)

① Drag bolt M4x35 2532-044  
For FZ-4 rotor head

② Drag bolt M4x30 2532-065  
For SD-G rotor head

### Rotor head system

•SZ-IV Blade holder (1pcs, 2sets necessary) 0412-184

•SD-G Pitch arm (2pcs) 0412-235

SD-G Seesaw (1set) 0412-207

SD-G Mixing arm (1set, 2set necessary) 0412-208

SD-G Stabilizer control arm (1set) 0412-209

SD-G York 0412-210

SD-G Rotor head ASSY 0412-206  
This head can be used for GHP346, GPH50  
※Stabilizer control arm, mixing arm, seesaw are included.  
★All above parts are necessary.

### For softer cyclic control

For FZ-IV, SD-G R/H

Not for SZ-IV

Damper rubber 6x12x7.5 (60#) 0412-177

### CNC aluminum metal swash plate

EX Swash plate for HPM 0404-121

SWM Swash plate 120 (10mm) 0414-045

※For upper plate, use 2530-005 Pivot bolt E 5x7xM3

### Tail Housing

① Tail blade holder set 0404-662

② Tail housing 0414-164

③ BRG 3x9x30P 2500-070

④ M3 Nylon nut 2505-006

⑤ FW3x6x0.5T 2506-003

⑥ EX 5mm ball with stand 2525-007

⑦ CS M3x16 2532-005

⑧ CS M2x8 2532-028

★All above parts are necessary.

### Reinforcing frame

•Cross member M3x57 2511-006

•EX 3mm washer 2506-039

•CS M3x12 2532-004

Use cross member above fuel tank.  
★All above parts are necessary.

•SX Cabin damper bush set 0404-547

•Cross member M3x30-S 2511-014

•Cross member M3x22 2511-016

•CS M3x15 2532-015

★All above parts are necessary.

### SD-G FRP cabin 0412-266

This cabin can be used for both plastic and carbon frame. Cabin damper rubber is included. Decal is sold separately.

SCEADU Evo EX decal 0412-266  
Only for SD-G FRP cabin

### SD-EX Carbon frame conversion set 0412-250

All parts required for converting to carbon frame is included. For using with SD-EX HPM PP parts set 0412-271, 0414-199 Pitch up BRG holder is required.

φ10 hard grip mast lock 0414-312

### SD Shaft drive parts set 0412-162

SD Carbon rudder control rod (5mm) 0412-190

### SD-G Tail unit set 0412-260

Metal tail unit upgrade from plastic tail unit.

SD-G Horizontal fin(Carbon) 0412-264

SD-G Vertical fin(Carbon) 0412-265  
Decal not included

### Needle control

SE Needle control set for OS32 SX-H 0402-723

SE Needle control lever for OS50-90 0414-219

Tapping screw M2.6X10 2537-001  
HPM Adjust rod M2X45 2522-005  
SWM Adjust rod M2X95 2522-012

### Skid foot 0414-286

Use either Scaedu skid pipe or Freya skid pipe.

Landing gear ASSY (Black) 0402-533

Skid foot (white) 0403-254

Skid foot (black) 0403-259

•GT landing gear ASSY 0402-296

•CS M3x15 2532-015

★Both are necessary.

### Metal landing gear

•GT landing gear ASSY 0402-296

•CS M3x15 2532-015

★Both are necessary.

### Fly wheel

SD-G Fly wheel (OSS0 (key type)) 0412-191

### Auto-rotation clutch

SD-G High torque auto-rotation clutch Assy 0412-290  
Higher strength auto rotation unit for 3D

### Counter gear

EX Counter gear 17T 0414-169

CNC machined gear for more strength.

### Second gear

SD-G Second gear 80T(DTDS) 0412-259

Gear only. 0412-171 SD Second gear housing is required.

### DTDS Main gear

•SD main gear 87T 0412-215

•SD Second gear 80T 0412-216

For converting 30 Evolution to DTDS. (Standard for 50 Evolution)

•SD Main gear 89T 0412-291

CNC gear for 50 Scaedu. Changes gear ratio to 8&:1

•SD DTDS set 0412-168

CNC gear with CNC blue aluminum hub. Second gear 79T

★Use both gears.

### SCEADU part for repair

SCEADU parts set (A) 0412-178

Tail pipe, main mast, feathering spindle, stabilizer bar included.

### 3D tail pouley

Counter gear pouley set 0414-116

Convert gear ratio from 4.6 to 5.2 for faster tail.

### F3C flight part

RG tail wing set 0402-712

※Use only horizontal wing. Changing tail boom brace angle is necessary.

### Lightweight carbon parts

SE rudder servo mount set (Carbon) 0402-725

Tail control rod L=1200 (Carbon) 2523-015

Tail boom pipe L=695 (Carbon) 0402-718

SD-G carbon Tail boom brace L=455 0412-263

## Changing linkage

### Converting single linkage (30 HPM) to push pull linkage (Choose from following 3)

Converting to plastic push pull linkage

SD HPM PP Lever set 0412-220

Screw and balls are included. 0412-223 SD HPM PP linkage set (frame) and 2500-051 BRG 4x8x32Z are required.

Converting to metal push pull linkage

SD-G HPM push pull parts set 0412-192

All levers are CNC. All levers and linkage rods are included.

Converting to metal EX push pull linkage

SD-EX HPM PP parts set 0412-271

Same as below

### Converting single linkage (30 SWM) to SWM push pull linkage

Converting to plastic push pull linkage

SD SWM PP parts set 0412-224

5mm ball included. 0412-226 SD SWM PP linkage set is required.

Converting to metal push pull linkage

SD-G SWM push pull linkage parts set 0412-196

All necessary parts are included.

### Converting HPM to SWM push pull linkage

PP Type

SD SWM PP parts set 0412-231

All linkage parts are included.

Converting to metal push pull linkage

SD-G SWM push pull parts set 0412-196

All necessary parts are included.

### Converting 50 HPM push pull to metal push pull (choose from following 2)

Converting to metal levers

φ5 ball necessary.

SD-G HPM Elevator torque lever 0412-193  
2506-039 EX 3mm washer and 5mm ball required.

SD-G HPM X type lever 0412-194  
0414-128 Collect pitch bolt is required.

φ5 ball necessary.

SD-G HPM T-type pitch lever 0412-195  
2521-104 3x6x12.5S collar required.

Converting to metal EX type push pull

SD-EX HPM PP parts set 0412-271

Metal elevator lever/arm, carbon control levers, metal levers are included. All linkage rods are included. For using with 0412-250 SD-EX Carbon frame conversion set, 0414-199 Pitch up BRG holder is required.

E3 Aileron lever 0414-324  
2521-057 4x6x3 collar required.

### Converting 50 SWM (push pull) to metal push pull

SD-G SWM push pull parts set 0412-196

All necessary parts required.

### Converting SWM to HPM push pull linkage

PP Type

SD HPM PP parts set 0412-230

Converting to metal levers → 50 HPM Type①

Converting to EX type push pull → 50 SWM Type②

**50 SCALE** For Shuttle Scaedu, Scaedu Evolution. Painted fuselage with some assembly required. Above picture is a sample and may differ from actual product.

50 Scale fuselage MD 500E 0403-946

50 Scale fuselage Bell 222 0403-937

50 Scale fuselage Long ranger (Blue) 0403-921 (Red) 0403-922

50 Scale fuselage Hughes 500D 0403-939

50 Scale fuselage Jet Ranger 0403-938

50 Scale fuselage Agusta A109 (Yellow) 0403-923 (Red) 0403-924

SD-E Electric conversion set 0412-240  
This set converts Shuttle Scaedu Evolution 50 to electric model. Use same gear ratio as 50 size. Motor, amplifier, battery are not included in this set.

•Motor:Hacker B50-20~23XL  
•Size:Shaft diameter 5mm. Motor outer diameter 36mm  
•Amplifier:Hacker MASTER Brushless controller 48A OPTO HELI  
•Battery:NiMH battery pack. More than 3,000mAh required 20-24 cell in series (10-12cell x 2 packs)

Set contents

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