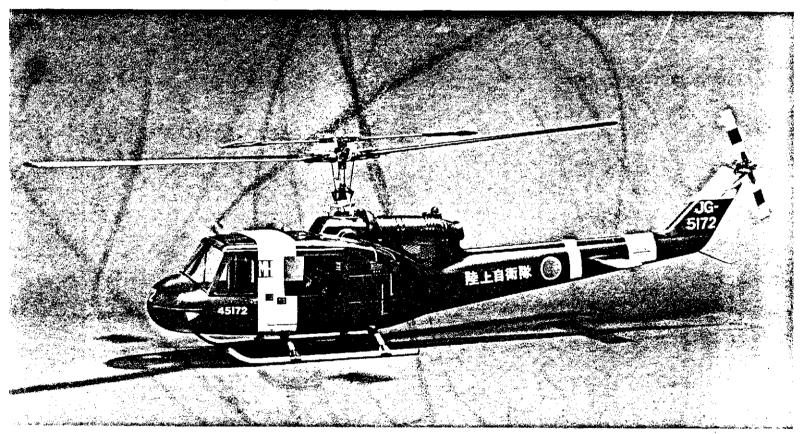


- 主ローター直径 Main Rotor Span/1,560%(61.4°) ●テールローター直径 Tail Rotor Span/310%(12.2°)
- 胴体長 Fuselage Length/1,400mm(55.3")
- ●全備重量 Full-equipped Weight/5,200g(11.4lbs)
- ・エンジン Engine/60-61class
- ●無線機 Radio/4ch.





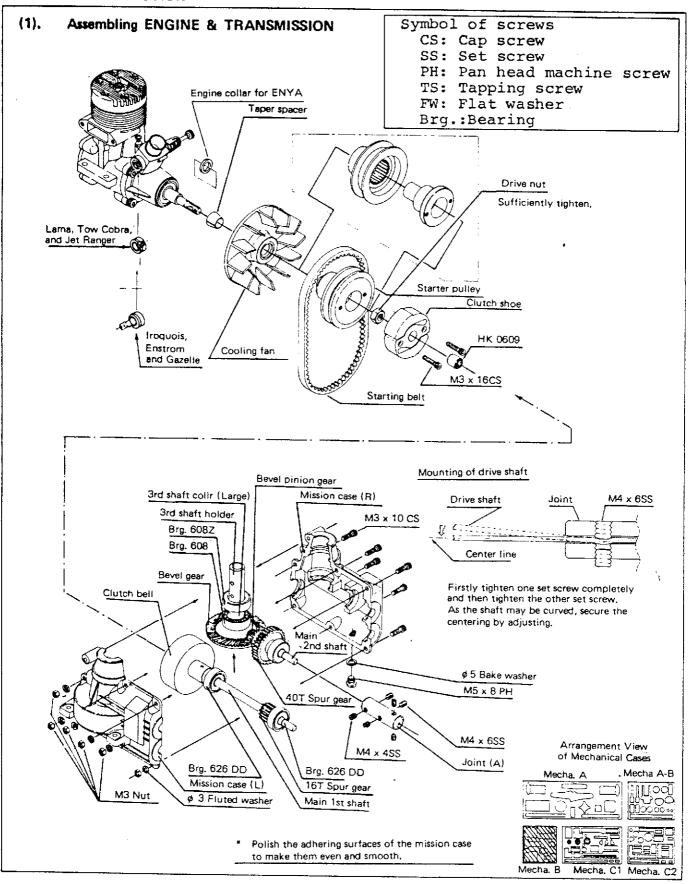
# BELL UH-1B ITOQUOIS



主ローター直径	1,580‰		
テールローター直径	3107/m		
胴 体 長	1,400%		
全 備 重 量	5,200g		
エンジン	60~61クラス		
無線機	4ch		

Main rotor dia.	62-1/5′′
Tail rotor dia.	12-1/5"
Fuselage	55-3/25"
Full-equipped weight	11-12/25 lbs.
Engine	60-61 class
Radio	4 channels

#### - ASSEMBLING SECTION -

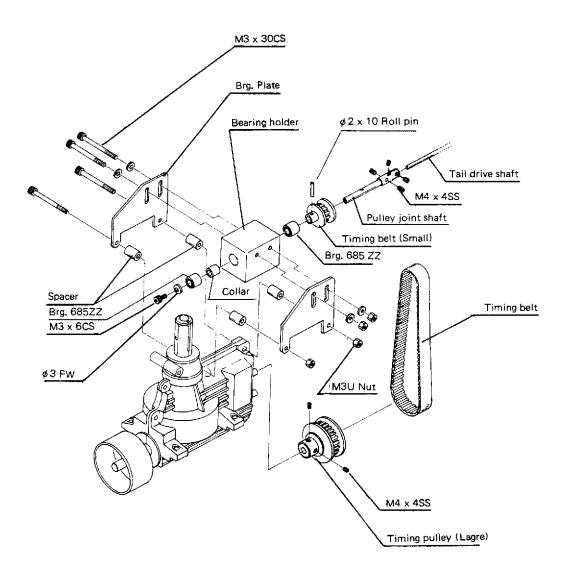


- Finish the fitting surfaces and the bearing holding surface of the mission case to be even and smooth. After that, cement the mission case together with epoxi-adhesive and fix it by M3 x 10 cap screws.
- Suuply half (20 to 25cc) of the accessory oil through the lower drain port of the mission case, Then, provide M5x8 Pan head machine screw with a bake washer. After that, screw in the pan head machine screw at the drain port,

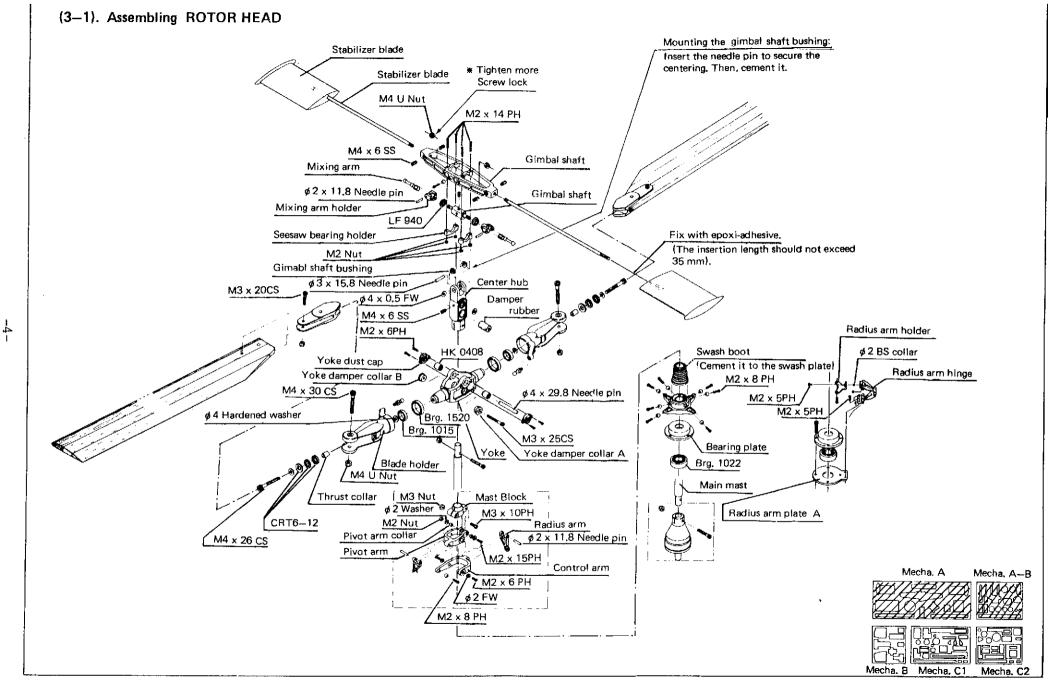
#### NB:

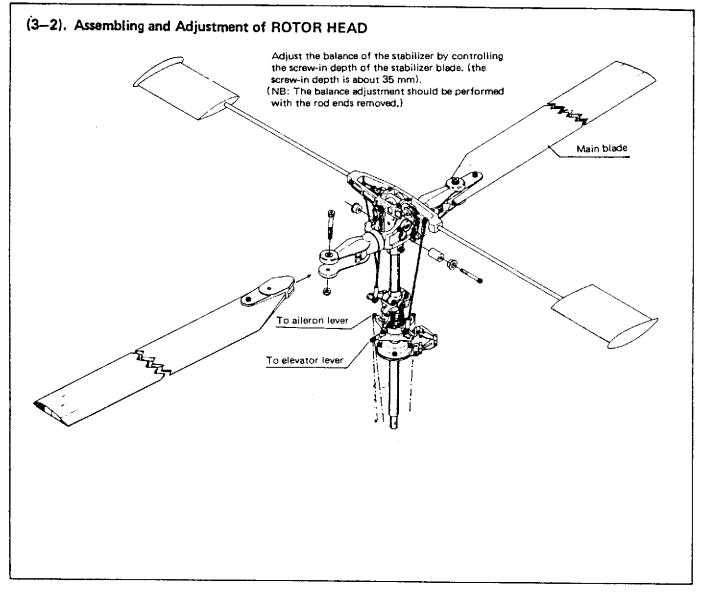
To prevent oil from leaking during assembling, you may supply oil just before trial flying. But in this case, please be careful so as not to forget ciling. It is much recommended that HIROBO HOBBY OIL 50 is used for supplement; This oil is the best quality oil for this purpose since 2 % molybdenum bisulfide ( $M_0S_2$ ) is added).

Please use this tail acceleration unit by replacing the W-type tail blade holder alternatively.



# (2) Assembling PITCH UP MECHANISM View illustrating the completion of the collect pitch up section \* A = Short (for I AMA) (\* (B) = short, for Lama) Collect pitch shaft (A), (B) Link arm shaft (A), (B) Collar (B) and (D) for pitch up M4 x 6 SS ((B) = short, for Lama) M4 U Nut Ø2 BS Collar F4 x 6 Bushing Collar for pitch up (C) (not required for Lama) M4 Nut Link lever T-type lever shaft Aileron lever Link arm collar Pitch plate collar In case of T-type lever jet Ranger Joint lever M2 x 30 Adjust rod 50mm Link arm Collect pitch lever M2 x 6 PH M3 x 40 CS Link mechanism (Firstly assemble this link Pitch up plate mechanism and check that it may move lightly). M3M Nut Mission mounting section M4 x 10 CS Collar (C) for pitch up Collar (A) for pitch up M2 x 10 Pan head machine screw Mecha, A-B Mecha, B Mecha, C1 Mecha, C2





(1). For 60 Jet Ranger, the radius arm hinge section is mounted at the 45° left forward position.

For all the other models, it is mounted at the 45° left rearward position. (The mounting plate for LAMA is different from that for others).

(2). For the bearing plate, work or make the upper seat surface of the body so that the mast smoothly rotate. Then, obtain the centering of the mast.

(When mounting an auto-rotation unit of an optional accessory, the centering is especially important.)

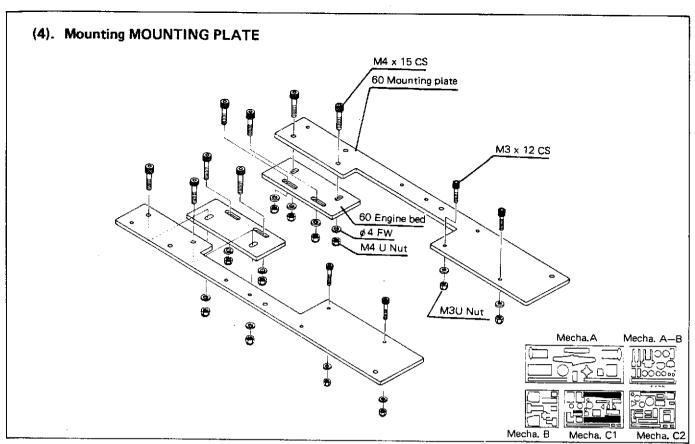
#### REMARKS:

Never fail to check the head section of the helicopter before flying, in order to see if screws or bolts are loosened. If necessary, please replace the components as early as possible.

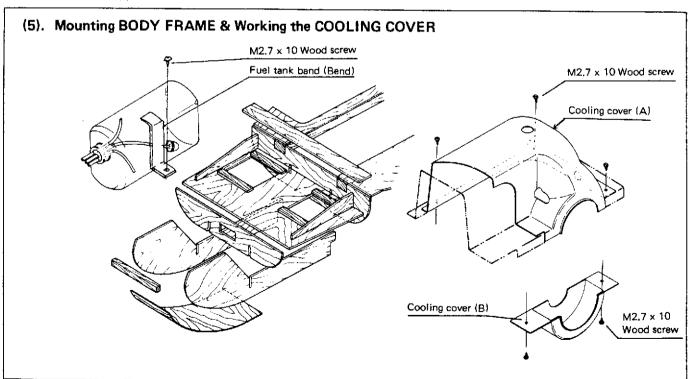
In case the stabilizer bar, main mast or main blade is damaged, please never fail to check the following points.

- (1). To see if the yoke is damaged or not.
- (2). To see if the blade holder is damaged or not.
- (3). To see if all the screws, nuts or bolts are damaged or not.

If you find anything doubtful, please replace it as early as possible.



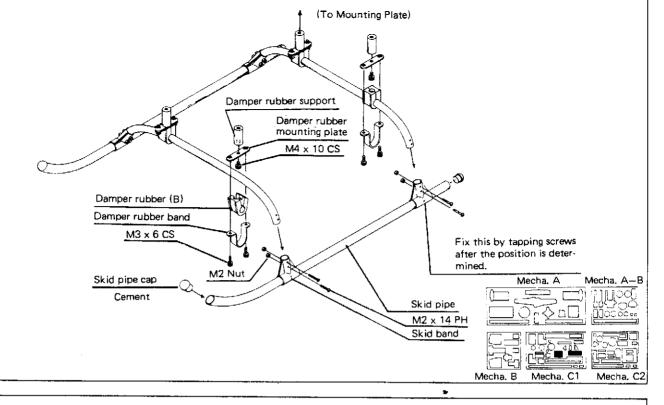
- (1). Place the pre-assembled drive mechanism section on the mounting plate. For 60 class helicopter, mount the mounting plate to the wood member from underside and for 50 class helicopter, mount it from the upperside.
- (2). When mounting, check that the mast is inclined forwards a little.



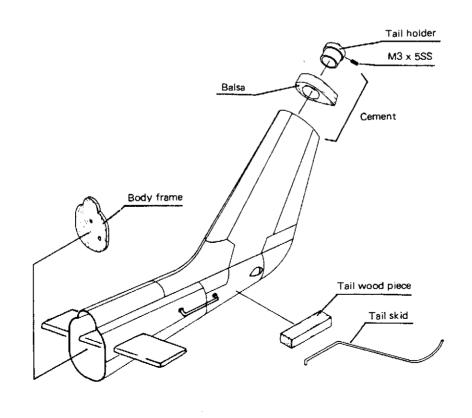
(1) Working the cooling cover: Cut the cooling cover for the plug hole, needle position and the muffler section to the shape of the engine

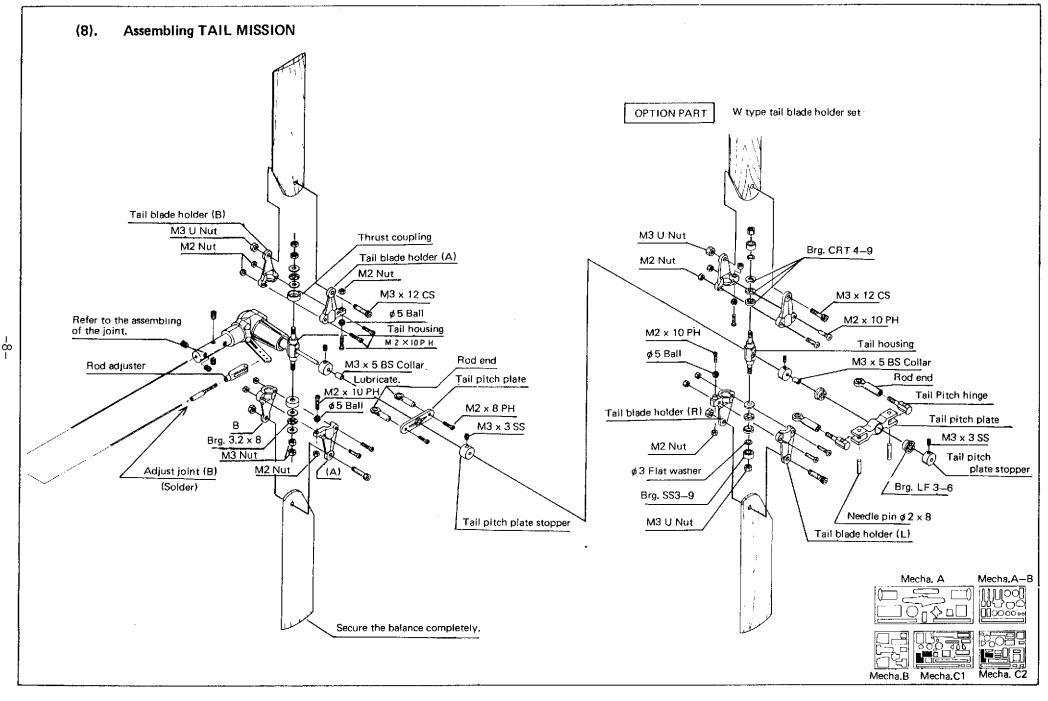
#### (2). For fuel tank:

Bend the fuel tank band after the tank is mounted in a position. ( No band is required for the model Tow Cobra). (The band is fixed by a wood screw.)



# (7). Assembling TAIL SECTION





**(9)**. **Balance Adjustment of Blades** Make by yourself or Purchase a marketed one, ∮2 to 3 dia, hole ¢ 1.2 piano wire Hammer Thread solder Blade Anvil Blade

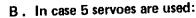
## Arrangement View of Servoes for Iroquois & Enstrom

### A. In case 4 servoes are used:

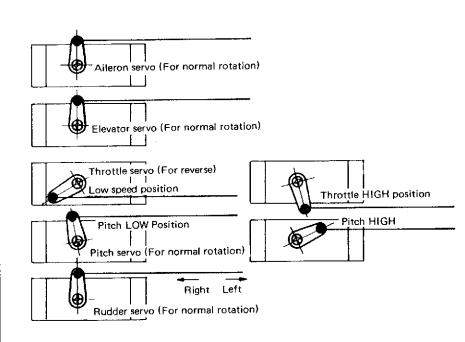
Rudder servo (For reverse)

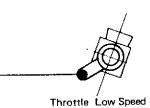
— Right

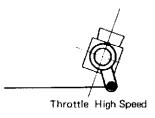
# Aileron servo (for normal rotation) - Right Left ---> Backward Forward --Elevator servo (for normal rotation) Throttle, High Throttle, Slow Pitch LOW Pitch HIGH Throttle and pitch servo (For normal rotation)

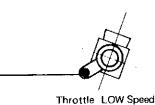


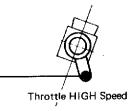
( One servo for normal rotation is additionally provided)

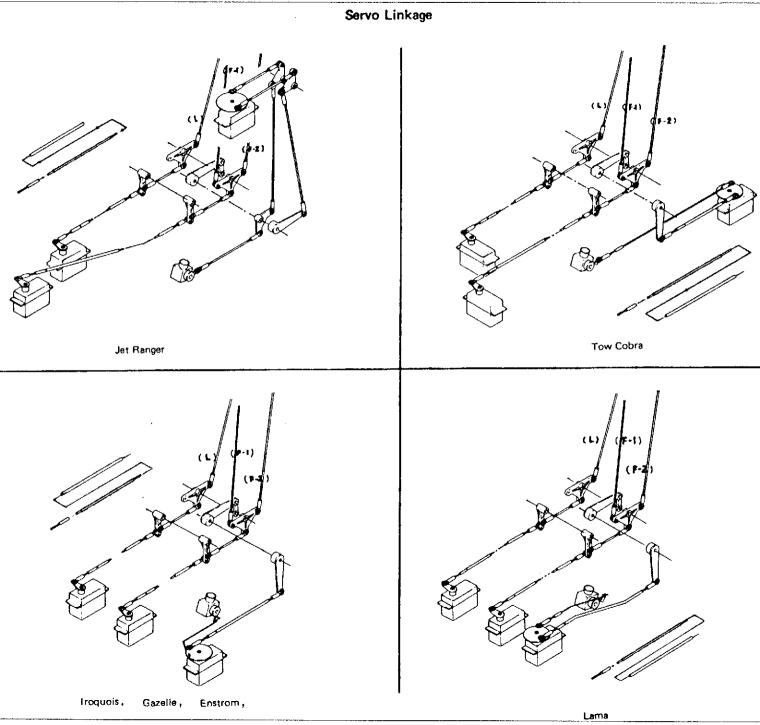




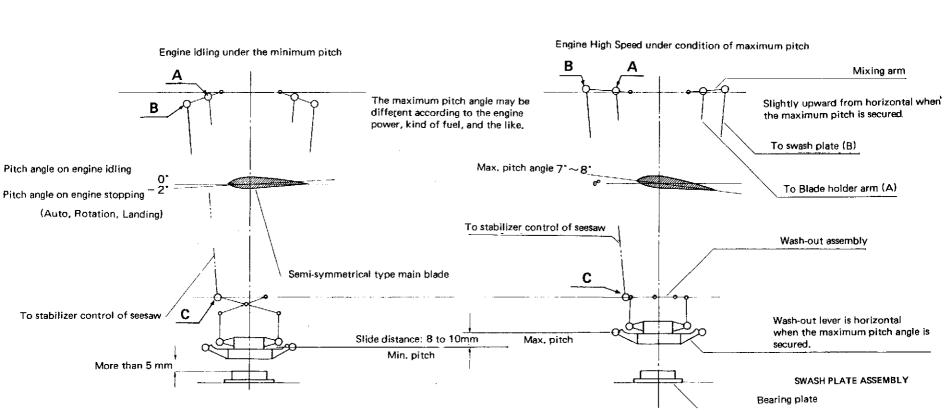








## ADJUSTMENT OF MAIN BLADE PITCH MIXING



# ASSEMBLING INSTRUCTION (Supplementary explanation)

Mounting the power (drive ) section in the body:

Drill a hole of  $\phi$  12 mm, for passing the mast through, at the upper part of the body after the hole position is well confirmed according to the drawing. Then, place the pre-assembled power section from the underside of the body and mount the mast at the main mission. However, there is no need to make a hole of 3 mm dia for cooling cover because the cooling cover is to be mounted with wood screws.

After the hole is drilled, fix the damper rubber base and its affiliated members by screws. For ENSTROM, insert the power section in the body from its front part and mount it on the wood member.

#### Cautions for mounting the bearing plate:

polyurethane or epoxi oriented clear to them.

After the power section is mounted in a position, furnish the mast with the bearing plate and set it so that it may be in soft touch with the upper part of the body. At this time, file the upper part, where the bearing plate is mounted, so that the seat surface of the bearing plate may become completely plane (even).

If this seat surface is not even or inclined, excessive load may be given to the mast assembly

If this seat surface is not even or inclined, excessive load may be given to the mast assembly with the auto rotation clutch mounted and the auto rotation clutch may be damaged. Please be careful to this point.

#### Painting

Firstly, stick thin paper or silk to the tail blade or other balsa materials with clear lacquer and finish them with the surfacer.

For the FRP body, polish the whole surface of the body by # 240 sand paper. If the body is partially injured, correct it with polyester putty or surfacer. Again polish it with # 300 to 400 sand paper. After that, finish the whole by painting. Use a paint of polyurethane, vinyl chloride, or epoxi type. In case of lacquer-oriented paint, it may be injured by fuel. Therefore, if such a paint is used, finish it with polyurethane or epoxi-oriented clear. For the part around or near the fuel tank, engine and the gear box, give a thick coat of

#### ADJUSTMENT SECTION

- A. Mounting the servoes & Adjustment of the linkage Mounting the servoes:
  - a. Prepare the servoes as follows:
  - (1). In case 4 servoes are used:
  - Normal-turn servo ----- 3 pcs.
    - Reverse-turn servo ----- 1 pc.
    - (2). In case 5 servoes are used:
      - Normal-turn servo ------ 4 pcs.
      - Reverse-turn servo ------ 1 pc.
  - Paying attention to the rotation direction and the mounting position of the rod, mount the servoes in accordance with the arrangement view of the servoes and the drawing.
  - c. Neutral position of servo horn

the lowest position.)

Switch on the transmitter and the receiver and set the trim to the centrial position. (For engine and pitch control, keep the stick and the trim of the transmitter to

Working and mounting the push-pull rod

In accordance with the servo arrangement view, furnish the servo horn with  $\phi$  5 ball by M2 x 8 pan head machine screw and M2 nut.

- a. Aileron, elevator
- Aileron:

perpendicular.

Elevator: Mount the adjust rod (M2  $\times$  110) for elevator as well as for alleron.

b. Engine throttle rod

(1). Loosen the SLOW adjust screw about two turns for the engine carburetter and adjust it so that the engine may can completely stop. (Please refer to the instruction manual of the engine which you purchased.)

Mount the adjust rod (M2  $\times$  150) for alleron at the alleron servo and the alleron lever. However, adjust the screw-in distance of the rod end so that the alleron lever may become

(2). Mounting the rod at the servo horn: (please refer to the arrangement view of the servoes).

(Use a servo horn whose shape is of disc type).

- (i). Mounting angle
- On idling ———— About 60° position from the lateral center line
- (ii). Mounting radiusFull OPEN/Full CLOSE stroke of the carburretter = Rod mounting stroke.

(3). Transmitter stick, Lowest, Trim, Lowest -----Engine stops Transmitter stick, Lowest, Trim, Intermediate ---Idling Transmitter stick, Highest, Trim, Intermediate ---Throttle, Full OPEN Collect Pitch Mounting the rod at the servo horn: (i). Mounting angle ----- About 100 from the lateral center line. On Idling (ii). Mounting radius The position where the slide distance of the collect pitch of the adjustment view of the rotor head mixing can be secured. (Vertical slide distance of the swash plate) Rudder control (1). Neutral position of the rudder servo Intermediate position of the engine control stick (in case of prop with mixing for helicopter) (2). Neutral position of the tail pitch lever Set the neutral position of the tail pitch lever a little gear box side from the intermediate point of the whole movable range. (3). Working the control wire: Solder an adjust joint at one end of the control wire and furnish it with a rod end. Then, pass it through the control pipe. After that, determine the length and cut off. Solder the adjust joint. Then, provide it with another rod end. The part exposed from the control pipe is to be reinforced by soldering. ADJUSTMENT OF SERVO LINKAGE Begin adjusting the linkage of each servo after the rods are mounted at each servo. Switch on both transmitter and receiver. Set the trim lever of the transmitter to its mean point. Check the rotation direction of each servo. Then, check that the horn of each servo is set at the neutral position. NB: For the aileron/elevator, check that the link lever of the pitch up mechanism is vertical. The relationship between the swash plate and control rod is as follows: ). Aileron: Lever (L) point Swash plate (L) Point Rod (L) point Lever (F-1) Point Swash plate (F-1) Point Rod (F-1) Point Elevator: Elevator: Lever (F-2) Point Swash plate (F-2) Point Rod (F-2) Point Mount the swash plate and the control rod in a position by screwing in the rod ends to M2 both-side threaded screw rods of the designated dimension of each helicopter.

At this time, adjust the swash plate so that it may be horizontal ( have a right angle to the mast in both forward/backward and left/right directions ) and that the clearance between the upper surface of the bearing plate and the lower surface of the swash

. - plate may be 5mm to 6mm . For this purpose, control the length of the rods by the screw-in distance of the rod ends.

Rod (A) Plate holder (A)

Rod (C)

NB:

horizontal.

gravity of the two blades.

Rod (B)

Rod (C)

Linkage of the rotor head

Swash plate (B) Wash-out (C)

Mixing arm (B) Seesaw (C)

Mixing arm (A)

Mount the rod (A) by uniformly screwing in the rod ends at both ends of the M2  $\times$  16 a. screw..

b.

C.

В.

Rod (B) Switch on the transmitter and lift up the engine control lever to the highest position

to shift the swash plate for maximum pitch. Then, furnish the M2 rod of the desi-

horizontal under the conditions described in (b).

gnated dimension of each helicopter with a rod end. Adjust the length of the rod so that the mixing arm may become a little upward with the seesaw kept horizontal.

Fix the wash-out to the mast so that the control arm of the wash-out may become Fix the wash-out at the position wherefour horns of the lower side of the swash plate may be piled up on the four horns of the upper plate with the rotor blade placed on the center line of the body (i.e. body length direction).

For the rod, furnish the adjust rod of the designated dimension of each helicopter with rod ends by screwing in, lead it to the wash-out (C) point through the seesaw (C) At this time, bend the rod near the wash-out so that it may not come in contact with the yoke. And adjust the length of the rod so that the stabilizer blade may become

BALANCE ADJUSTMENT OF ROTOR BLADE

point and the inside of the yoke.

Main rotor blade

a.

The main rotor blade rotates at high speed. So, if complete balance is not secured, poor ruddering and/or vibrations may be caused to be present. Therefore, obtain complete balance of the main rotor blade.

First of all, place a round pencil or a mast on an even table or so. Then, put the two blades on it. Under these conditions, roll the pencil or the mast to look into the center of gravity

of the blade in the length direction. Then, mark the center of gravity with a pencil or so. Check that the center of gravity of the two blades is located at the same position. If error more than 5mm is caused, make an opening of 2mm dia, at the tip or the root of the lighter blade and caulk a thread type solder in the opening to true up the centers of

Tail rotor blade As the tail rotor blades rotate at the speed of 4,000 to 6,000 rpm., secure complete balance of the tail rotor blades by the same method as that for the main rotor blades.

Next, adjust the balance of the weight of the two blades. At this time, use a blade

As the weight balance of the blades may change to the humidity content in the air, stick the adhesive tape (film) to the blade surfaces to protect it from humidity.

Protection of the blades

Do the same in the tail blades.

balancer to secure complete balance of the blades.

It is impossible to adjust the tracking of the main rotors if it is not possible to distin-

Coloring of blade ends of the main rotor:

guish the tracks of the blade ends of both right and left blades. So, provide the blade ends with a distinguishable color tape.

Adjustment of main blade pitch angle and adjustment of stabilizer: Switch on the transmitter and the receiver. Set the engine control trim to the interme-

diate position (Idling position) and set the stick to a little upper position from the mean point (i.e. 60% position of the total stroke). At this time, adjust the length of the rod so that each stabilizer blade may become horizontal ( do the adjustment for

the rod (C-1) and (C-2)). At the same time, adjust the length of the rods (B-1) and (B-2) so that the mixing arm may become parallel to the seesaw

Next, return the engine control stick to the lowest position.

Hold the stabilizer bar with your hands to make the seesaw horizontal. Adjust the length of the rod (A) so that, when observed from the rotor blade end, the line connecting the front end of the blade section surface with the rear end may turn upwards by  $2^{\tilde{0}}$  from the front end of the blade. If complete adjustment is not available even if the rod adjuster and the rod end of the rod (A) is fully screwed in, cut off the boss section of the rod adjuster.

Adjusting the maximum pitch angle

Since the maximum pitch angle may change to the engine output and the fuel, it is adequate that the maximum pitch angle is set to 7 to 80 degrees of angle in usual

cases if the rods of the engine control pitch and the servo horns are mounted in accordance with the servo arrangement view. Measure it by a pitch gauge. The standard judgement is as follows: as the pitch slide distance is 10 degree of angle for the slide distance of 1mm of the swash plate when moving the engine control stick from LOWEST and HIGHEST

position. Therefore, supposed that the minimum pitch is 20 and the slide distance is 5mm, the maximum pitch is then 7°. If the slide distance is 6mm, the maximum pitch is then 80.

prop for helicopter is used. ( Please refer to the instruction manual of the transmitter). Set the knob for tail mixing adjustment, of the transmitter, to the intermediate posi-

The following description covers the adjustment of the tail pitch when the mixing

Adjusting the tail rotor pitch angle

Checking each point before flight

tion and set the engine control stick a little upward from the mean point. (Hovering position). At this time, check that the horn of the rudder servo is located at the neutral position. Loosen the screws of the tail pitch plate stoppers and shift the pitch plate so that the

pitch angle of the tail blade may become zero (00 degree) with the engine control stick lowered to the lowest position. Adjust the length of the rudder servo horn so that the tail rotor may move by 35 to 40° in either direction when controlling the rudder control stick in each direction with the engine control stick set to the hovering position.

CHECKS AND INSPECTION BEFORE FLYING For the center of gravity The center of the gravity is to be so located that the skid pipe may be a little inclined

forward from the horizontalness when holding the stabilizer bar by your hands. Never locate the center of gravity so that the skid pipe may be inclined backwards.

Adjusting the blades and tracking Supply fuel in the tank. Check that the engine control lever of the transmitter is set to SLOW position and the trim lever of the transmitter may be set to IDLE position. After that, start the engine.

After the engine starts, firmly hold the rotor head and step on the skid. Then, raise the engine with loud roar two or three times. At this time, if the head tries to rotate strongly, the clutch is completely engaged. If you feel it a little weak, immediately slow down the engine. Try to touch the clutch bell (be careful for overheating). If

the bell is heated, cool it by waste cloth or water. Never engage the clutch with high temperature left. (because the clutch shoe is made of resin). When the clutch bell is cooled to be normal, again try to do setting it for complete

meeting. After the meeting(engagement) of the clutch shoe is checked, gradually increase the

rotation speed of the engine. At this time, if the tip ends of the main rotor can be doubly seen when the helicopter is going to land off, distinguish the color of the two rotors to see which blades is higher than the other. In this case, screw in the rod end of the rotor rod (A) of a rotor which goes undersides. Through these procedures, adjust

the two main rotors until they can be seen single. After the tracking adjustment is completed, slow down the engine for idling and check the pitch angle is zero (0° degree). If not so, adjust by screwing in the rod ends of both rods (A) by the same turns.

After that tracking adjustment is completed, begin to adjust the trims.

to the instruction manual of the mixing prop which you use.

# ADJUSTMENT OF FLIGHT

First of all, for the beginners, bend both ends of aluminum pipe or bamboo and mount them to the landing skid by vinyl tape or the like to prevent the helicopter from barrel roll.

# Gradually increase the rotation speed of the engine to float the helicopter body by 10 to 20 cm from the ground level. If the helicopter moves forwards or backwards,

Adjustment of each trim

use an elevator trim for correction. Or if the helicopter is inclined in the right and left direction, use the aileron trim for correction. For the rudder, use the rudder trim for correction, too. Adjust the length of each rod so that the hecliopter may be floated with the trim lever set to NEUTRAL. In case of the rudder, loosen the screw of the tail pitch plate stopper and take the pitch plate outside if the trim lever is located right. To the contrary, if the trim lever is located left, take the pitch plate insides for rudder adjustment. For further details, please refer

# FLIGHT ( In case of beginner )

Fill the tank with fuel after the whole adjustment is completed, in order to be ready for landing off. But wait a moment, breathe deeply and set your mind at ease. Pay a great attention to the neighbors, childrens or the surroundings. After the safety of the surroundings is confirmed, start the engine and turn the head of helicopter windwards. If you stand back of the helicopter, you can not observe the posture of helicopter in the elevator direction, causing the control to become impossible. Therefore, please stand

at the side of the helicopter.

Confirm the safety of the surroundings again. Gradually increase the rotation speed of the engine. Here, if the helicopter moves backwards, set the elevator trim to a little forward side so that the helicopter lands off as moving forwards.

Gradually increasing the rotation speed of the engine, the body begins to be floated from the rear part of the landing skid. At this time, increase the engine control stick by two or three units, and the helicopter advances as being floated.

At first, please don't float the helicopter more than 30cm high. If it is too high, lower

At first, please don't float the helicopter more than 30cm high. If it is too high, lower the engine control stick to land the helicopter. Then, float it again and walk together with the helicopter. After you reach the end of the yard as repeating the floating and landing of the hecliopter, bring it back to the start point. If the control is effected only in one side of the engine, a vice may be caused to be present. Exercise at both sides of the helicopter. Lateral inclination is corrected by aileron, forward/backward inclination by

perform hovering and fly it high in the air.

elevator, and the direction control by rudder. If you master these controls, you may

#### SAFETY MEASURES FOR R/C HELICOPTERS

Now, you have assembled your KIT with your heart and skill, To ensure comfortable and safe flight of the helicopter, please keep the followings.

- Selection of flying yard
   Select as wide and vacant flying yard as possible. And select a flying yard that is
- free from any transformer substation, high-voltage electric wires, and/or buildings.

  (2). Cautions before flying

  Check if the R/C unit is actuating without fail before engine starts. Check all the
- screws, nuts and /or linkages to see if they are loosened or not.

  (3). Cautions for flight

  When you begin to operate your helicopter, pay attention to the neighbors. Please
- never let the people approach to the helicopter. Please do not fly your helicopter on or over houses, trains, and cars, power-transmission lines, and warehouses of combustible matters. If you find that the output of the helicopter is lowered, please immediately land it on a safe place, please never let childrens or viewers
- approach to the helicopter.(4). Check the screws and nuts or bolts to see if they are loosened or not.Please pay attention specially to the rotary parts of the rotor head. If you should

find a loosening or a rattling, immediately give complete adjustment before flying.

# PARTS ARRANGEMENT & NAME OF PARTS FOR IROQUOIS

The table below shows the parts of the drawings and of the illustrations and the arrangement number of the parts in the parts case.

Arrange- ment no. of parts	Parts Number	Parts Particulars	Quantity required
DC-(1)	DC1-1	Expert stabilizer blade	1
DC-(2)	DC2-1	Expert stabilizer blade	1

#### Remarks:

DC-(5)

DC-(6)

DC-(7)

DC-(8)

DC5-1

DC6-1

DC6-2

DC6-3

DC6-4

DC7-1

DC8-1

Center hub

Radius arm

Mast block

Pivot arm

Main mast

Swash plate boot

Control arm

The quantity and quality of the kits have been well checked and inspected before shipment. However, if you should find anything inconvenient, please immediately inform the head office or the shop, where you purchased, together with the parts number eg. DC-0-0;

The specifications shall be subject to change without any prior notice.

Arrange- ment no. of parts	Parts Number	Parts Particulars	Quantity required	
MECHAN	NICAL CA	SE A		
DC-(1)	DC1-1	Expert stabilizer blade	1	
DC-(2)	DC2-1	Expert stabilizer blade	1	
DC-(3)	DC3-1	Gimbal seesaw	1	
DC-{4}	DC4-1 DC4-2 DC4-3 DC4-4 DC4-5	Main blade root end Blade holder Yoke Bearing 10-15 Bearing 15-20	2 2 1 2 2	
	DC4-6 DC4-7 DC4-8 DC4-9 DC4-10	Thrust CRT 6-12 Ø 4 hardened washer Ø 4 Washer Thrust collar M4 x 25 Cap screw	2 2 2 2 2	

			DC-1
Arrange- ment no. of parts	Parts Number	Parts Particulars	Quantity required
DC-(9)	DC9-1 DC9-2 DC9-3 DC9-4 DC9-5 DC9-6 DC9-7 DC9-8	Swash upper plate Swash lower plate Swash inner ring A Swash inner ring B Bearing 20-25  SF-10  M2 x 6 Pan head machine screw Swash lower lock	1 1 1 1 1 1 4
DC-(10)	DC10-1 DC10-2	Bearing plate Bearing 10-22	1
DC-(11)	DC11-1	  Stabilizer bar (A)	2
PARTS A	ARANGE	MENT OF MECHANICAL CASE	A D

#### PARTS ARRANGEMENT OF MECHANICAL CASE A-B

DCB-1	Mixing arm	1
DCB-2	Mixing arm	1
DCB-3	Mixing arm holder	1
DCB-4	Mixing arm holder	1
DCB-5A	Seesaw bearing holder	2
DCB-58	Gimbal shaft	1
DCB-6	LF940	1
DCB-7	LF940	1
DCB-8	Yoke damper collar A	1
DCB-9	Yoke damper collar B	1
DCB-10	Yoke dust cap	1
DCB-11	Yoke dust cap	1
DCB-12	M2 x 16 Rod screw	2
DCB-13	HK0408	1
DCB-14	HK0408	1
DCB-15	Gimbal shaft bushing	1
DCB-16	Gimbal shaft bushing	1
DCB-17A	Adjust rod M2 x 80	1
DCB-17B	Adjust rod M2 x 110	2

#### PARTS ARRANGED IN LOWER SECTION OF CASE A-B

DC-

2

1

1

(12)	DC12-1	M3 x 16 Cap screw	5
	DC12-2	M3 x 20 Cap screw	3
	DC12-3	M3 x 25 Cap screw	1
	DC12-4	M4 x 30 Cap screw	2
	DC12-6	M2 x 6 Pan head machine screw	6
		M2 x 8 Pan head machine screw	9
		M2 x 14 Pan head machine screw	4
		M2 x15Pan head machine screw	i
	_	M3 x 10 Pan head machine screw	1
	DC12-11	NA2 NI.	-
		i	5 1
	DC12-12	M3U Nut	5
		M4U Nut	4
		M4 x 4 Set screw	1
	5012-15	IVIA X A DEL SCIEW	1
		M4 x 6 Set screw	9
		ø 2 Flat washer	9 2 2
		ø 4 Flat washer	2
	DC12-19		
		Damper rubber	1
	DC12-21	Rod end	10
	DC12-22	ø 5 Ball	7
	DC12-23	Pivot bolt A	2
	DC12-24	Pivot arm collar	2
	DC12-25	Needle pin ø 2 x 11.8	4
		Needle pin ø 3 x 15.8	1
	DC12-27	Needle pin ¢4 x 29.8	1

DC24-2   DC24-3   DC24-4   DC24-5   DC24-4   DC24-5   DC24-5   DC24-6   DC24-5   DC24-6   DC24-6   DC24-6   DC24-7   DC24-6   DC24-7   DC24-6   DC24-7   DC24-6   DC24-7   DC24-6   DC24-7   DC24-7   DC24-6   DC24-7   D	DC-(20) DC20-1 M DC-(21) DC21-1 C1 DC21-2 15 DC21-3 16 DC21-4 6 DC21-5 6 DC21-6 B6 DC21-6 B6 DC23-1 B6 DC23-2 37 DC23-3 37 DC23-5 37 DC23-6 6 DC23-7 6 DC23-7 6 DC23-8 B6 DC23-9 B6 DC23-9 B6 DC24-1 DC24-1 A0 DC24-2 B6 DC24-3 M DC24-5 6 DC24-7 B6 DC24-7 B6 DC24-7 B6 DC24-7 B6 DC24-7 B6 DC27-1 M DC27-1 M DC27-2 M DC27-3 M DC27-4 6 DC27-5 6 DC38-3 6 DC38-7 Pit DC38-8 C0 DC38-8 C0 DC38-1 C0 DC38-	Mission case L Clutch bell lst shaft of mission case 16T Spur gear 162 x 14 Roll pin 166 Stop ring 169 Bearing 626 DD  Mission case R 169 Bevel gear 169 Shaft of mission case 161 Shaft collar (Large) 161 Shaft collar (Small) 161 Shaft holder	1 1 1 2 2 2 1 1	DC-(41)	DC40-2 DC41-1 DC41-2 DC41-3 DC42-1 DC42-2 DC42-3	M3 x 16 Cap screw  Mounting plate Engine bed Tail skid  L-type wrench 1.5	2 1 2
DC-120   DC20-1   Massion case   L	DC-(21) DC21-1 DC21-2 In DC21-3 In DC21-4 DC21-5 DC21-6 Be DC21-6 Be DC23-3 In DC23-1 DC23-3 In DC23-4 In DC23-5 In DC23-6 DC23-7 DC23-8 DC23-9 Be DC23-9 Be DC24-1 DC24-2 DC24-3 DC24-5 DC24-5 DC24-5 DC24-5 DC24-5 DC24-5 DC24-7 Be DC24-8	Clutch bell list shaft of mission case list shaft of mission case list Spur gear list 2 x 14 Roll pin list Stop ring list Stop	1 1 1 2 2 2 1 1	DC-(41)	DC40-2 DC41-1 DC41-2 DC41-3 DC42-1 DC42-2 DC42-3	M3 x 16 Cap screw  Mounting plate Engine bed Tail skid  L-type wrench 1.5	2 1 2
DC21-2   Start baff of mission case   DC21-2   DC21-3   Start baff of mission case   DC21-4   SC2 + 14 Fioth pin   DC21-4   SC2 + 14 Fioth pin   DC21-5   Sc2 + 15 Fioth pin   DC21-6   Sc2 + 15 Fioth pin   DC21-7	DC21-2   16   16   16   16   16   16   16   1	Ist shaft of mission case 16T Spur gear 162 x 14 Roll pin 16 6 Stop ring 16 Bearing 626 DD  Wission case R  Bevel gear 18rd shaft of mission case 18rd shaft collar (Large) 18rd shaft collar (Small) 18rd shaft holder	1 1 2 2 1 1 1	DC-(42)	DC41-2 DC41-3 DC42-1 DC42-2 DC42-3	Engine bed Tail skid L-type wrench 1.5	2
CC21-3   16T Spur gear   1	DC21-3   16   DC21-4   6   DC21-5   6   DC21-6   Br.   DC21-6   Br.   DC23-1   Br.   DC23-2   Gr.   Gr.   DC23-3   Gr.	16T Spur gear 62 x 14 Roll pin 66 Stop ring Bearing 626 DD  Mission case R  Bevel gear Brd shaft of mission case Brd shaft collar (Large) Brd shaft collar (Small) Brd shaft holder	1 2 2 1 1 1		DC41-3 DC42-1 DC42-2 DC42-3	Tail skid L-type wrench 1.5	
DC21-4   g2 x 1 4 Rolit pin   2   DC-(42)   DC2-1   C-(42)   Bearing 626 DD   2   DC-(42)   DC2-1   Bearing 626 DD   2   DC-(42)   DC2-1   DC2-1   Mission case R   1   DC-(43)   DC2-3   DC2-3   Sind shaft collar (Large)   1   DC-(43)   DC2-3   Sind shaft collar (Large)   1   DC-(43)   DC2-3   Sind shaft collar (Large)   1   DC-(43)   DC2-3   Sind shaft collar (Large)   1   DC-(44)   DC2-4   Collect pinch shaft B   1   DC-(43)   DC2-3   Sind shaft collar (Large)   1   DC-(44)   DC2-4   Collect pinch shaft B   1   DC-(44)   DC2-4   Collect pinch shaft B   1   DC-(44)   DC2-4	DC21-4   6, DC21-5   86   DC21-6   B6   DC23-1   DC23-3   GC23-3   GC23-4   GC23-7   DC23-8   DC23-8   DC23-9   B6   DC24-1   DC24-2   DC24-3   GC24-3   GC24-5   DC24-5   DC24-5   DC24-7   DC24-7   DC27-2   GC27-3   GC27-4   DC27-2   GC27-3   GC27-4   DC27-5   GC27-5   DC27-6   DC27-7   M4   DC27-7   M5   DC27-7   M6   DC27-7   M6   DC27-7   M7   DC27-1   M7   DC27-2   GC27-3   M8   GC27-4   DC27-5   GC27-6   DC27-7   M8   DC27-6   DC27-7   M8   DC38-2   DC38-3   DC38-4   Pit   DC38-5   DC38-8   CC38-9   DC38-1   DC38-8   CC38-9   DC38-1   DC38-9   CC38-1   DC38-1   DC38-3   DC38-1   DC38-3   DC38-1   DC38-3   DC38-1   DC38-3   DC38-3	2 x 14 Roll pin 6 Stop ring Bearing 626 DD  Mission case R  Bevel gear  Brd shaft of mission case  Brd shaft collar (Large)  Brd shaft collar (Small)  Brd shaft holder	2 2 1 1 1 1		DC42-1 DC42-2 DC42-3	L-type wrench 1.5	1
DC21-5   e8 Stop ring	DC21-5   Ø1 DC21-6   B6 DC21-6   B6 DC23-1   B6 DC23-2   B7 DC23-3   B7 DC23-4   B7 DC23-5   B7 DC23-8   B8 DC23-9   B8 DC23-9   B8 DC24-4   Ø2 DC24-5   Ø2 DC24-5   Ø2 DC24-5   Ø2 DC24-7   B8 DC24-7	66 Stop ring Bearing 626 DD  Mission case R  Bevel gear  Brd shaft of mission case  Brd shaft collar (Large)  Brd shaft collar (Small)  Brd shaft holder	2 1 1 1 1		DC42-2 DC42-3		
DC21-28   DC22-1   DC22-1   DC22-1   DC22-2   DC	DC-(22) DC22-1 M DC-(23) DC23-1 Be DC23-2 3r DC23-3 3r DC23-4 3r DC23-5 3r DC23-6 6 6 DC23-7 6 6 DC23-9 Be DC24-1 40 DC24-2 DC24-3 M DC24-5 62 DC24-6 DC24-7 Be DC24-6 DC24-7 Be DC24-7 Be DC24-7 Be DC24-5 62 DC24-7 Be DC24-8 Be DC24-7 Be DC24-7 Be DC24-7 Be DC24-7 Be DC24-8 Be DC24-7 Be DC34-8 Be DC34-9 C34-8 Be DC38-1 Be DC38-1 Be DC38-1 Be DC38-2 Be DC38-3 6 Be DC38-6 Be DC38-6 Be DC38-7 Pit DC38-8 C0 DC38-1 C0	Bearing 626 DD  Mission case R  Bevel gear  Brd shaft of mission case  Brd shaft collar (Large)  Brd shaft collar (Small)  Brd shaft holder	1 1 1		DC42-2 DC42-3		
DC-1221   DC-22-1   Mission case R	DC-(22) DC22-1 M DC-(23) DC23-1 Be DC23-2 Graph DC23-5 Graph DC23-6 Graph DC23-9 Be DC23-9 Be DC24-1 Graph DC24-1 Graph DC24-5 Graph DC24-5 Graph DC24-6 Graph DC24-7 Be DC24-6 Be DC24-8	Mission case R Bevel gear Brd shaft of mission case Brd shaft collar (Large) Brd shaft collar (Small) Brd shaft holder	1 1 1		DC42-3	Lityne wrench 2.0	1
DC-123) DC23-1   Mission case R   1   DC-123   DC23-2   Sevel gear   1   DC-123   DC23-2   Sevel gear   1   DC-123   DC23-3   Srd shaft of mission case   1   DC-123   DC23-3   Srd shaft of collar (Large)   1   DC-124   DC23-5   Srd shaft of collar (Large)   1   DC-124   DC23-6   Srd shaft holicer   1   DC-124   DC23-7   Srd shaft holicer   1   DC-124   DC23-8   Srd shaft holicer   1   DC-124   DC23-8   Srd shaft holicer   1   DC-124   DC23-8   Srd shaft holicer   1   DC-124   DC-124   DC23-8   Srd shaft holicer   1   DC-124   Srd shaft holicer   1   DC-124   Srd shaft holicer   1   DC-124   DC23-8   Srd shaft holicer   1   DC-124   Sr	DC-(23) DC23-1 Be DC23-2 GC23-3 GC23-4 GC23-5 GC23-7 DC23-8 Be DC23-9 Be DC24-1 AC DC24-2 Be DC24-3 Mi DC24-5 GC24-7 Be DC24-6 DC24-7 Be DC27-3 DC27-1 Mi DC27-2 Mi DC27-3 DC27-3 DC27-4 GC27-5 GC27-6 DC27-7 MARCHANICAL CASE DC-(38) DC38-1 Ra DC38-2 DC38-3 GC38-9 DC38-8 CO DC38-1 CC39-2 DC38-1 CC38-8 CC38-9 DC38-1 CC39-2 DC38-1 CC38-9 DC38-1 CC38-9 DC38-1 CC39-2 DC39-3 Mi	Bevel gear Brd shaft of mission case Brd shaft collar (Large) Brd shaft collar (Small) Brd shaft holder	1 1		D042 4		
DC23-2   Stratef of mission case   DC23-3   Stratef collar (Large)   DC23-4   Stratef collar (Large)   DC23-5   Stratef collar (Small)   DC23-5   Stratef collar (Small)   DC23-5   Stratef collar (Small)   DC23-6   Stratef collar (Small)   DC23-7   Stratef collar (Small)   DC23-8   Bearing 608 D   DC23-9   Bearing 608 D   DC23-9   Bearing 608 D   DC23-9   Bearing 608 D   DC23-9   Bearing 608 D   DC23-1   DC24-2   Bearing 608 D   DC24-2   DC24-3   Main mission, 2nd shaft   DC24-4   DC24-5   Stratef collar   DC24-3   DC24-4   Stratef collar   DC24-5   S	DC23-2 3r DC23-3 3r DC23-4 3r DC23-5 3r DC23-6 6 6 DC23-7 6 6 DC23-9 Be DC24-2 DC24-3 M2 DC24-5 62 DC24-6 DC24-7 Be DC24-6 DC24-7 Be DC24-8 Be DC24-7 Be DC24-7 Be DC24-8 Be DC34-8 Be DC34-8 Be DC38-1 Be DC38-1 Be DC38-2 Be DC38-3 Be DC38-3 Be DC38-6 Be DC38-9 C0 DC38-1 C0 DC3	Brd shaft of mission case Brd shaft collar (Large) Brd shaft collar (Small) Brd shaft holder	1		DC42-4		
DC23-2   Sit shaft of mission case   1	DC23-2 3 3	Brd shaft of mission case Brd shaft collar (Large) Brd shaft collar (Small) Brd shaft holder	1	I DC-(43)	DC43-1	Tapar engor	,
DC23-2   Safshaft collar (Large)   1   DC-(44)   DC42-2   DC42-2   Safshaft holder   1   DC23-5   Safshaft holder   1   DC43-5   DC43-2	DC23-3   3r   DC23-4   3r   DC23-5   3r   DC23-6   6   6   DC23-7   6   6   DC23-9   Be   DC24-2   DC24-3   DC24-5   6   DC24-5   DC24-5   DC24-6   DC24-7   Be   DC24-7   Be   DC24-7   Be   DC24-7   DC27-2   DC27-3   Mi   DC27-2   DC27-3   Mi   DC27-5   DC27-6   DC27-7   Mi   DC27-7   Mi   DC27-7   Mi   DC27-7   Mi   DC27-7   Mi   DC27-7   Mi   DC27-8   DC27-7   DC38-8   DC38-9   DC38-9   DC38-9   DC38-10   DC38-9   DC38-10   DC39-2   Mi   DC39-2   DC39-3   Mi   DC39-3   Mi   DC39-2   DC39-3   Mi   DC39-3   M	Brd shaft collar (Large) Brd shaft collar (Small) Brd shaft holder		DC-1437	10043-1	raper spacer	"
DC224-5   Series	DC23-4   3r   DC23-5   3r   DC23-6   6   6   DC23-7   6   6   DC23-9   Be   DC24-2   DC24-3   DC24-5   6   DC24-5   DC24-5   DC24-6   DC24-7   Be   DC24-7   DC27-2   DC27-3   M5   DC27-4   DC27-5   DC27-6   DC27-7   M6   DC27-7   M7   DC27-6   DC27-7   M8   DC27-7   M9   DC27-6   DC27-7   M9   DC27-7   DC27-6   DC27-7   DC2	Brd shaft collar (Small) Brd shaft holder	1 1	DC-(44)	DC44-1	Link arm collar	1 1
DC23-6   \$3 x 12 Rolt pin   1   DC23-7   \$3 x 16 Roll pin   1   DC23-7   \$3 x 16 Roll pin   1   DC23-8   Bearing 608 DP   1   DC3-23   Bearing 608 DP   1   DC3-23   Bearing 608 DP   1   DC3-24   MAU UNIT   9   DC3-24   MAU UNIT   9   DC3-24   MAU INIT   9   DC3-24   M	DC23-6 (#3				I		
DC23-6   9.3 x 12 Roll pin   1   DC24-5   DC23-7   9.3 x 16 Roll pin   1   DC23-8   Bearing 608 DP   1   DC35-2   MAU Nut   1   DC35-2   MAU Nut   1   DC24-5   DC24-2   Bearing 608 DP   1   DC35-2   MAU Nut   DC35-2	DC23-7	i3 x 12 Boll oin	1		DC44-3	Link arm shaft A	1
DC23-7   s3 x 16 Roll pin   1   DC-145   DC45-1   DC45-2   DC45-2   DC45-2   Baering 608 2P   1   DC45-2   DC45-2   DC45-2   Beering 608 2P   1   DC45-2   DC45-2   DC45-2   Beering 608 2P   1   DC45-3   MA Nut   DC45-3   MA Sut   DC45-2   Beering folion gear   1   DC42-4   s2 Ex s 10 Roll pin   1   DC45-4   s2 Ex s 10 Roll pin   1   DC45-6   dx s 2 Flat washer   2   DC45-5   dx s 2 Flat washer   2   DC45-6   dx s 4 S 2 Flat washer   2   D	DC23-7 DC23-8 B6 DC23-9 B6 DC23-9 B6 DC23-9 B6 DC23-9 B6 DC24-1 DC24-2 DC24-3 M2 DC24-5 DC24-5 DC24-6 DC24-7 B6 DC24-7 DC27-1 DC27-1 DC27-2 DC27-3 DC27-3 DC27-3 DC27-4 DC27-5 DC27-6 DC27-7 M4 DC27-7 M6 DC27-7 M6 DC27-7 M7 MECHANICAL CASE DC38-3 DC38-4 DC38-6 DC38-7 DC38-8 DC38-9 DC38-1 DC38-8 DC38-9 DC38-1 DC38-9 DC38-1 DC38-1 DC38-8 DC38-9 DC38-1 DC38-8 DC38-9 DC38-1 DC39-2 DC39-3 M5	13 x 12 Boll oin			DC44-4	T-type lever shaft	1
DC23-8   Bearing 608 OP	DC-(24) DC24-1 40 DC24-2 Be DC24-3 Mi DC24-4 6 Ge DC24-7 Be DC24-6 DC24-7 Be DC24-7 Be DC24-6 DC24-7 Be DC24-7 Be DC24-6 Be DC24-7 Be DC24-7 Be DC24-7 Be DC24-6 Be DC24-7 Be DC24-1 Mi DC27-2 Mi DC27-3 Mi DC27-3 Mi DC27-4 DC27-5 Ø E DC27-6 M4 DC27-7 Mi DC27-6 DC27-7 Li DC38-2 DC38-3 Ø DC38-4 Pit DC38-6 Re DC38-9 C0 DC38-1 C0			DC (AE)	DOME 1	A #O I Burn	
DC-124    DC-24-1   DC-24-2   DC-24-3   DC-24-3   DC-24-2   DC-24-3   DC-24-5   DC-24-7   DC-24-5   DC-2	DC23-9  DC24-1 DC24-1 DC24-2 DC24-3 DC24-3 DC24-5 DC24-5 DC24-6 DC24-7 Be Be DC24-7 Be Be DC24-7 Be Be DC24-7 Be Be Be DC24-7 Be Be Be DC24-7 Be Be Be Be DC3-1 Be Be Be Be Be DC3-1 Be		1 1	UC-1451			
DC-124) DC24-1	DC-(24) DC24-1 AC BE DC24-3 Mi PC24-4 PC24-5 PC24-6 DC24-7 BE DC-(25) DC25-1 JO DC-(26) DC26-1 HC DC27-2 DC27-3 Mi DC27-4 PC27-6 DC27-6 DC27-7 Mi DC27-7 MECHANICAL CASE DC-(38) DC38-1 Ra DC38-2 DC38-3 DC38-4 Pit DC38-5 Lii DC38-6 Ra DC38-7 Pit DC38-8 CO DC38-9 DC38-10 CC DC-(39) DC39-1 Mi DC39-2 Mi DC39-2 Mi DC39-2 Mi DC39-2 Mi DC39-3 Mi DC39-3 Mi		1 .				_
DC-124  DC-1	DC24-2 Be DC24-3 Mi DC24-4 PC24-5 PC24-6 DC24-7 Be DC24-7 Be DC24-7 Be DC25-1 Jo DC27-1 Mi DC27-2 DC27-3 DC27-4 PC27-5 PC27-6 DC27-7 M4 DC27-7 M4 DC38-5 Lin DC38-4 Pit DC38-6 Be DC38-7 Pit DC38-8 Co DC38-1 DC38-9 DC38-1 DC38-9 DC38-1 DC38-1 DC38-1 DC38-9 DC38-1 DC38-1 DC38-9 DC38-1 DC38-1 DC38-9 DC38-1 DC38-1 DC38-1 DC38-1 DC38-1 DC38-1 DC38-1 DC38-9 DC38-1 DC38-1 DC38-9 DC38-1 DC3		1 '		_		
DC24-2   DC24-3   Main mission, 2nd shaft   1   DC24-5   Q.25 × 10 Roll pin   1   DC24-5   Q.25 × 10 Roll pin   1   DC45-7   Q.25 × 10 Roll pin   1   DC45-8   Adjust rol M2 × 30   2   DC45-9   Q.25 × 10 Roll pin   1   DC45-8   Adjust rol M2 × 30   2   DC45-9   DC24-7   DC25-1   Dint A   DC-(46)   DC46-1   DC46-2   DC46-1   DC46-7   DC47-7   DC47-1   DC47-7	DC24-3 M; 62 DC24-5 6 DC24-6 DC24-7 Be DC24-7 Be DC24-7 Be DC26-1 Ho DC27-1 M; DC27-2 M; DC27-3 M; DC27-4 DC27-5 6 DC27-6 DC27-7 M2 DC27-7 M2 DC27-7 M2 DC27-8 DC27-8 DC27-6 DC27-7 M2 DC27-7 M2 DC27-6 DC27-7 M2 DC38-1 DC38-2 DC38-3 6 DC38-9 DC38-1 DC38-8 CD38-9 DC38-1 DC38-9 DC38-1 DC39-2 M3 DC39-2 M3 DC39-3 M3		1				
DC24-4   0 2.5 x 10 Roll pin   1	DC24-4						
DC24-5   Ø 2.5 x 12 Roll pin   1	DC24-5 Ø2  DC24-6 B6 DC24-7 B6 DC24-7 B6 DC24-7 B6 DC26-1 Jo DC-(26) DC25-1 M3 DC27-2 M3 DC27-3 M5 DC27-5 Ø5 DC27-6 M4 DC27-7 M3 DC27-7 M4 DC27-7 M5 DC27-6 M4 DC27-7 M5 DC38-1 R6 DC38-2 DC38-3 DC38-4 Pit DC38-5 Lit DC38-6 R8 DC38-7 Pit DC38-8 C0 DC38-9 DC38-10 C0 DC-(39) DC39-1 M3 DC39-2 M3 DC39-2 M3 DC39-3 M3						
DC-46   Bearing 626 OP   1   DC-45-10   Q4 Flat washer   12   DC-45-10   Q5-45-10   Q6 Flat washer   12   DC-45-10   Q6 Flat washer   12   DC-45-10   Q6 Flat washer   12   DC-45-10   Q6 Flat washer   13   DC-46-10   Q6 Flat washer   14   DC-47-12   DC-47-12   DC-47-13   DC-47-13   DC-47-14   Q6 Flat washer   14   DC-47-12   DC-47-13   DC-47-14   Q6 Flat washer   15   DC-47-14   Q6 Flat washer   16   DC-48-14   DC-47-12   DC-47-14   Q6 Flat washer   16   DC-48-14   DC-47-14   Q6 Flat washer   17   DC-47-15   DC	DC24-6 Be Be DC24-7 Be Be Be DC24-7 Be Be Be Be DC26-1 Jo DC-(25) DC25-1 Jo DC-(26) DC26-1 Ho DC27-2 M3 DC27-3 M5 DC27-6 DC27-6 DC27-7 M4 M4 DC38-2 DC38-3 DC38-4 Pit DC38-5 Lin DC38-6 Ra DC38-9 DC38-10 Cc DC39-1 M3 DC39-2 DC39-3 M5 DC39	•					
DC24-6   DC24-7   Bearing 626 OP   1   DC45-10   04 Flat washer   12   DC-(25)   DC25-1   Joint A   1   DC-(46)   DC46-2   DC47-2   DC47	DC24-7 Be DC26-1 Jo DC-(25) DC25-1 Jo DC-(26) DC26-1 Ho DC-(27) DC27-1 M3 DC27-2 M3 DC27-3 M4 DC27-5 Ø5 DC27-6 M4 DC27-7 M2  MECHANICAL CASE DC-(38) DC38-1 Ra DC38-2 Ra DC38-3 DC38-4 Pit DC38-6 Ra DC38-7 Pit DC38-8 Co DC38-1 C0 DC38-1 M3 DC39-2 M3 DC39-3 M3	2.5 x 12 Holl pin	'				
DC-(25)   DC25-1   Joint A	DC24-7 Be DC26-1 Jo DC-(26) DC26-1 Ho DC-(27) DC27-1 M3 DC27-2 M3 DC27-3 M4 DC27-5 Ø5 DC27-6 M4 DC27-7 M2  MECHANICAL CASE DC38-3 DC38-3 DC38-3 DC38-4 Pit DC38-6 DC38-7 Pit DC38-6 DC38-1 C38-8 C0 DC38-9 DC38-10 C0 DC39-1 M3 DC39-2 M3 DC39-2 M3 DC39-3 M3	léaring 626 OP	1 1				
DC-(25)   DC25-1   Joint A   1   DC46-2   Bearing HK0609   1	DC-(26) DC26-1 Hc DC-(27) DC27-1 M3 DC27-2 M3 DC27-3 M4 DC27-5 Ø 5 DC27-6 M4 DC27-7 M6 DC27-7 M6 DC27-7 M6 DC27-7 M6 DC38-1 Ra DC38-2 DC38-3 DC38-4 Pit DC38-5 Lit DC38-6 Ra DC38-7 DC38-8 Co DC38-9 DC38-10 Cc DC-(39) DC39-1 M3 DC39-2 M3 DC39-2 M3 DC39-3 M3		1			y · · · · · · · · · · · · · · · · · · ·	, , ,
DC-(27)   DC27-1   DC27-2   M3 Nut   6   DC-(48)   DC47-2   Cooling fan imbedding member   1	DC-(27) DC27-1 M3 DC27-2 M4 DC27-3 M4 DC27-5 Ø 5 DC27-6 DC27-6 DC27-7 M2 MECHANICAL CASE DC38-3 DC38-1 Ra DC38-2 DC38-3 DC38-4 Pit DC38-6 Ra DC38-7 DC38-8 Co DC38-9 DC38-10 C0 DC-(39) DC39-1 M3 DC39-2 M3 DC39-3 M3	oint A	1	DC-(46)			
DC27-1	DC27-2 M3 DC27-3 M4 DC27-4 Ø3 DC27-5 Ø5 DC27-6 M4 DC27-7 M2 MECHANICAL CASE DC-(38) DC38-1 Ra DC38-3 Ø2 DC38-3 DC38-4 Pit DC38-6 Ra DC38-7 Pit DC38-8 Co DC38-9 C0 DC38-10 C0 DC-(39) DC39-1 M3 DC39-2 M3 DC39-3 M3	lobby oil	1	DC-(47)			
DC27-2	DC27-2 M3 DC27-3 M5 DC27-4 Ø3 DC27-5 Ø5 DC27-6 M4 DC27-7 M2  MECHANICAL CASE DC38-3 DC38-3 DC38-3 DC38-4 Pit DC38-6 DC38-7 Pit DC38-6 DC38-9 C0 DC38-1 C0 DC39-1 M3 DC39-2 M3 DC39-2 M3 DC39-3 M3	43 x 10 Cap screw	6		DC47-2	Cooling fan imbedding member	7
DC27-3	DC27-3 M9 DC27-4 Ø3 DC27-5 Ø5 DC27-6 M4 DC27-7 M2  MECHANICAL CASE DC-(38) DC38-1 Ra DC38-3 DC38-3 DC38-4 Lii  DC38-6 Ra DC38-7 Pit DC38-8 Co DC38-9 C0 DC38-10 C0 DC-(39) DC39-1 M3 DC39-2 M3 DC39-2 M3 DC39-3 M3	·	1	DC-(48)	DC48-1	T-type lever	2
DC-27-5    Ø 5 Flake washer	DC27-4 Ø3 DC27-5 Ø5 DC27-6 M4 DC27-7 M2  MECHANICAL CASE DC-(38) DC38-1 Ra DC38-3 DC38-3 DC38-4 Pit DC38-6 DC38-7 Pit DC38-8 Co DC38-9 Co DC38-10 Co DC-(39) DC39-1 M3 DC39-2 M3 DC39-3 M3	· · · · · · · · · · · · · · · · · · ·	I I				_
DC27-5   Ø5 Bake washer   1   DC-(50)   DC50-1   Link lever   2   DC50-2   Joint arm   1   DC-(50)   DC50-2   Joint arm   1   Joint plate   Joint arm   1   DC50-2   Joint arm   1   Joint plate   Join	DC27-6 M4 M2 DC27-7 M2 MECHANICAL CASE DC38-1 DC38-2 DC38-4 Pit DC38-5 Lin DC38-6 Pit DC38-7 Pit DC38-8 Co DC38-1 DC38-1 DC38-1 DC38-1 DC38-1 DC39-2 DC39-3 M3			DC-(49)	DC49-1	Collect pitch lever	2
DC27-6	DC27-7 M4  MECHANICAL CASE  DC-(38) DC38-1 Ra  DC38-2 Ra  DC38-3 Ø 2  DC38-4 Pit  DC38-5 Lin  DC38-6 Ra  DC38-7 Pit  DC38-8 Co  DC38-9 Co  DC38-10 Co  DC-(39) DC39-1 M3  DC39-2 M3  DC39-3 M3	5 Bake washer					
DC27-7   M4 x 6 Set screw   4	DC27-7 M4  MECHANICAL CASE  DC-(38) DC38-1 Ra  DC38-2 Ra  DC38-3 Ø 2  DC38-4 Pit  DC38-5 Lin  DC38-6 Ra  DC38-7 Pit  DC38-8 Co  DC38-9 Co  DC38-10 Co  DC-(39) DC39-1 M3  DC39-2 M3  DC39-3 M3	MA × A Set serous		DC-(50)			
DC-(38)   DC38-1   CC-(38)   DC38-1   DC38-2   DC38-3   DC38-4   DC38-5   DC38-6   DC38-6   DC38-7   DC38-8   DC38-7   DC38-8   DC38-8   DC38-8   DC38-9   DC38-8   DC38-9   DC38-8   DC38-9   DC38-8   DC38-1	DC-(38) DC38-1 Ra DC38-2 Ra DC38-3 Ø2 DC38-5 Lin DC38-6 Ra DC38-7 Pit DC38-8 Co DC38-10 Co DC-(39) DC39-1 M3 DC39-2 M3 DC39-3 M3	14 x 4 Set screw 14 x 6 Set screw			DC50-2	Joint arm	1
DC-(38)   DC38-1   DC38-2   DC38-2   DC38-3   DC38-4   DC38-3   DC38-4   DC38-5   DC38-5   DC38-5   DC38-6   DC38-7   DC38-6   DC38-1   DC38-1   DC38-1   DC38-1   DC38-1   DC38-6   DC38-1   DC38-6   DC38-1   DC38-1   DC38-1   DC38-1   DC38-1   DC38-6   DC38-1   DC39-1   DC39-1   DC39-1   DC39-2   M3 x 16 Cap screw   4 DC39-2   M3 x 20 Cap screw   4 DC39-2   DC38-1   DC39-6   DC39-7   M4 x 10 Cap screw   5 DC39-8   DC39-7   DC39-8   M2 x 5 Pan head machine screw   4 DC39-9   M2 x 5 Pan head machine screw   4 DC39-9   M2 x 5 Pan head machine screw   4 DC39-9   M2 x 5 Pan head machine screw   4 DC39-9   M2 x 5 Pan head machine screw   4 DC39-9   M2 x 5 Pan head machine screw   4 DC39-1   M2 x 8 Pan head machine screw   4 DC39-9   M2 x 5 Pan head machine screw   4 DC39-9   M2 x 5 Pan head machine screw   4 DC39-9   M2 x 5 Pan head machine screw   4 DC39-9   M2 x 8 Pan head machine screw   4 DC39-9   M2 x 8 Pan head machine screw   4 DC39-9   M2 x 8 Pan head machine screw   4 DC39-9   M2 x 8 Pan head machine screw   4 DC39-9   M2 x 8 Pan head machine screw   4 DC39-9   M2 x 8 Pan head machine screw   4 DC39-9   M2 x 8 Pan head machine screw   4 DC39-9   M2 x 8 Pan head machine screw   4 DC39-9   M2 x 8 Pan head machine screw   4 DC39-9   M2 x 8 Pan head machine screw   4 DC39-10   M2 x 8 Pan head machine screw   1 DC39-10   M4 x 6 Set screw   4 DC39	DC-(38) DC38-1 Ra DC38-2 Ra DC38-3 Ø2 DC38-4 Pit DC38-6 Ra DC38-7 Pit DC38-8 Co DC38-9 Co DC38-10 Co DC-(39) DC39-1 M3 DC39-2 M3 DC39-3 M3		<u> </u>	DC-(51)	DC51-1	Tail pitch plate	1
DC-(38) DC38-1 DC38-2 DC38-2 DC38-3 DC38-3 DC38-3 DC38-3 DC38-4 DC38-5 DC38-3 DC38-5 DC38-5 DC38-5 DC38-5 DC38-6 DC38-7 DC38-8 DC38-9 DC38-10 DC38-10 DC38-10 DC39-1 DC39-2 DC39-3 DC39-3 DC39-5 DC39-5 M4 x 15 Cap screw DC39-5 M4 x 25 Cap screw DC39-7 DC39-8 DC39-9 DC39-9 DC39-9 DC39-1 DC39	DC38-2 Ra DC38-3 Ø2 DC38-4 Pit DC38-5 Lin DC38-6 Ra DC38-7 Pit DC38-9 Co DC38-10 Co DC-(39) DC39-1 M3 DC39-2 M3 DC39-3 M3	: C1					
DC38-2   Radius arm hinge   1   DC51-5   M3 x 3 Set screw   2	DC38-2 Ra DC38-3 Ø2 DC38-4 Pit DC38-5 Lin DC38-6 Ra DC38-7 Pit DC38-9 Co DC38-10 Co DC-(39) DC39-1 M3 DC39-2 M3 DC39-3 M3	Codius arm plans A	T .	į		Tail pitch plate stopper	
DC38-3	DC38-3 Ø2 DC38-4 Pit DC38-5 Lin DC38-6 Ra DC38-7 Pit DC38-9 Co DC38-10 Co DC-(39) DC39-1 M3 DC39-2 M3 DC39-3 M3			ĺ	,		
DC38-4	DC38-4 Pit Lin DC38-5 Lin DC38-6 Ra DC38-7 Pit DC38-9 Co DC38-10 Co DC39-1 M3 DC39-2 M3 DC39-3 M3	•	1		DC51-5	M3 x 3 Set screw	2
DC38-5 Link arm  DC38-6 Radius arm holder DC38-7 Pitch plate collar DC38-8 Collar A for pitch up DC38-9 Collar C for pitch up DC38-10 Collar D for pitch up DC39-1 DC39-1 DC39-1 M3 x 16 Cap screw DC39-3 M3 x 20 Cap screw DC39-4 M3 x 40 Cap screw DC39-5 M4 x 10 Cap screw DC39-6 DC39-7 M4 x 25 Cap screw DC39-8 M2 x 6 Pan head machine screw DC39-9 M2 x 6 Pan head machine screw DC39-9 M2 x 6 Pan head machine screw DC39-1 M2 x 8 Pan head machine screw DC53-2 M3 x 5 Set screw DC53-1 Rod end DC53-1 Rod end DC53-2 Ø5 Ball DC53-2 M2 x 8 Pan head machine screw DC53-3 M2 x 8 Pan head machine screw DC53-4 M2 Nut DC54-1 Tail blade holder A DC54-2 Tail blade holder B DC54-3 M2 x 10 Pan head machine screw DC54-4 M2 Nut DC54-5 M3 U Nut DC54-5 M3 U Nut DC54-6 DC39-7 M4 x 25 Cap screw DC39-8 M2 x 5 Pan head machine screw DC39-9 M2 x 6 Pan head machine screw DC39-10 M2 x 8 Pan head machine screw DC39-10 M2 x 8 Pan head machine screw DC39-10 M2 x 8 Pan head machine screw M1 W4 x 6 Set screw  DC54-1 M3 x 6 Set screw  DC54-2 M3 x 5 Set screw DC53-1 Rod end DC53-2 Ø5 Ball DC54-1 DC54-1 M3 x 8 Pan head machine screw DC54-1 DC54-1 M3 U Nut DC54-2 Rod adjuster Ø5 Ball DC54-9 Ø5 Ball DC54-1 M4 x 6 Set screw	DC38-6 Ra DC38-7 Pit DC38-8 Co DC38-9 Co DC38-10 Co DC-(39) DC39-1 M3 DC39-2 M3 DC39-3 M3			DC-(52)	DC52-1	Tail holder (H)	1
DC38-7	DC38-7 Pit DC38-8 Co DC38-9 Co DC38-10 Co DC39-1 M3 DC39-2 M3 DC39-3 M3	ink arm					
DC38-7	DC38-7 Pit DC38-8 Co DC38-9 Co DC38-10 Co DC39-1 M3 DC39-2 M3 DC39-3 M5	loding area balda	.	00/50	0.050.4		
DC38-8	DC38-8 Co DC38-9 Co DC38-10 Co DC-(39) DC39-1 M3 DC39-2 M3 DC39-3 M3		( 1	DC-153)			
DC38-9	DC38-9 DC38-10 DC39-1 DC39-2 M3 DC39-3 M5	ollar A for pitch up				-	
DC38-10 Collar D for pitch up  1 DC38-10 Collar D for pitch up  1 DC39-1 DC39-1 DC39-1 DC39-2 M3 x 16 Cap screw DC39-3 DC39-3 M3 x 20 Cap screw DC39-4 M3 x 40 Cap screw DC39-5 M4 x 10 Cap screw DC39-5 M4 x 15 Cap screw DC39-7 M4 x 25 Cap screw DC39-8 DC39-8 M2 x 5 Pan head machine screw DC39-9 M2 x 6 Pan head machine screw DC39-10 M2 x 8 Pan head machine screw DC39-10 M4 x 6 Set screw  DC4-1 DC54-1	DC-(39) DC39-1 M3 DC39-2 M3 DC39-3 M3	ollar C for pitch up					
DC-(39) DC39-1 DC39-2 M3 x 16 Cap screw 4 DC54-3 DC39-3 M3 x 12 Cap screw 4 DC54-4 DC39-4 M3 x 40 Cap screw 5 DC39-5 M4 x 10 Cap screw 5 DC39-6 M4 x 15 Cap screw 4 DC39-7 DC39-8 M2 x 5 Pan head machine screw 4 DC39-8 M2 x 5 Pan head machine screw 4 DC39-9 M2 x 6 Pan head machine screw 4 DC39-10 M2 x 8 Pan head machine screw 1 DC54-10 M4 x 6 Set screw 4 DC54-10 M4 x 6 Se	DC39-2 M3 DC39-3 M3	ollar D for pitch up					
DC39-2	DC39-2 M3 DC39-3 M3	12 v 16 Con	_ 1	DC-(54)			
DC39-3	DC39-3 M3						
DC39-4       M3 x 40 Cap screw       2         DC39-5       M4 x 10 Cap screw       5         DC39-6       M4 x 15 Cap screw       8         DC39-7       M4 x 25 Cap screw       4         DC39-8       M2 x 5 Pan head machine screw       3         DC39-9       M2 x 6 Pan head machine screw       4         DC39-10       M2 x 8 Pan head machine screw       1            DC54-5       M3U Nut         DC54-6       M4 x 12 Cap screw         DC54-7       Rod end       2         DC54-8       Rod adjuster       2         Ø 5 Ball       2         DC54-10       M4 x 6 Set screw       4	1		1 1		-		б
DC39-5       M4 x 10 Cap screw       5         DC39-6       M4 x 15 Cap screw       8         DC39-7       M4 x 25 Cap screw       4         DC39-8       M2 x 5 Pan head machine screw       3         DC39-9       M2 x 6 Pan head machine screw       4         DC39-10       M2 x 8 Pan head machine screw       1            DC34-6       M4 x 12 Cap screw         PRod end       2         DC54-8       Rod adjuster       2         DC54-9       Ø 5 Ball       2         DC54-10       M4 x 6 Set screw       4	DC39-4 M3	13 x 40 Cap screw				- · · · · · · · · · · · · · · · · · · ·	2
DC39-6       M4 x 15 Cap screw       8       DC54-7       Rod end       2         DC39-7       M4 x 25 Cap screw       4       DC54-8       Rod adjuster       2         DC39-8       M2 x 5 Pan head machine screw       3       DC54-9       Ø 5 Ball       2         DC39-9       M2 x 6 Pan head machine screw       4       DC54-10       M4 x 6 Set screw       4         DC39-10       M2 x 8 Pan head machine screw       1       M4 x 6 Set screw       4	DC39-5 M4	I4 x 10 Cap screw					-
DC39-7 M4 x 25 Cap screw 4 DC54-8 Rod adjuster 2 DC39-8 M2 x 5 Pan head machine screw 3 DC54-9 Ø 5 Ball 2 DC39-9 M2 x 6 Pan head machine screw 4 DC54-10 M4 x 6 Set screw 4	D000 0	14 15 5		·			
DC39-8 M2 x 5 Pan head machine screw 3 DC39-9 M2 x 6 Pan head machine screw 4 DC39-10 M2 x 8 Pan head machine screw 1 DC54-10 M4 x 6 Set screw 4						-	2
DC39-9 M2 x 6 Pan head machine screw 4 DC39-10 M2 x 8 Pan head machine screw 1 DC54-10 M4 x 6 Set screw 4			1			·	
DC39-10 M2 x 8 Pan head machine screw 1						•	
D000 44 146 40 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DC39-10 M2	12 x 8 Pan head machine screw	1		200-10	INIT Y DOCUSCIEW	4
	DC39-11 M2	12 x 10 Pan head machine screw	10	DC-(55)	DC55-1	Damper rubber (B)	4
			ļ <b>1</b>		Í	•	

	DC-3

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Arrange ment no. of parts	Parts Number		Quantity required	Arrange- ment no. of parts	Parts Number	Parts Particulars	Quantity required
DC-(56)	DC56-1	Damper rubber base	4		(	Tail drive shaft	1
DC-(57)	DC57-1 DC57-2	Starting belt Mounting plate	1		DC70-16	Rudder control wire Ø 3 x 1000 BS Pipe Ø 3 x 800 BS Pipe	1 1 1
DC-(58)	DC58-1 DC58-2 DC58-3 DC58-4	Tail pitch lever Tail gear box (A) Tail gear box (B) Miter gear , Right	1 1 1		DC70-19 DC70-20		2
	DC58-5	Miter gear , Left	1			Accessory Imm thick veneer plate	1 1
	DC58-6 DC58-7	Tail, 1st shaft Tail, 2nd shaft Joint A	1 1 1	MECHAN	IICAL CA	<u>                                      </u>	
	DC58-8 DC58-9 DC58-10	Tail housing Thrust coupling	1 2	DC-(80)	DC80-1 DC80-2	Instruction manual Tail blade	1 2
	DC58-12 DC58-13 DC58-14	7 x 11,1 BS Coltar 3 x 5 BS Cottar 7 x 7 BS Cottar Tail pitch rod	1 1 1		DC80-3 DC80-4 DC80-5	Skid foot Skid pipe New skid band Damper rubber mounting plate	2 2 4
	DC58-16 DC58-17 DC58-18	M2 x 10 Pan head machine screw M3 Nut Bearing 685 OP Bearing 685 ZZ 3,2 x 8 Thrust Bearing	5 4 2 2 2		DC80-7 DC80-8 DC80-9	Damper rubber mounting band Skid pipe cap Tail wood member Antenna A	4 4 1 2
	DC58-20	∮2 Flat washer	2		DC80-12	M3 x 6 Cap screw M2 x 14 Pan head machine screw M2 x 5 Tapping screw	8 8 4
DC (50)		M4 x 4 Set screw	2		DC80-14		8
DC-(59)	t	M3 x 5 Set screw M4 x 4 Set screw M3 x 10 Cap screw M3 x 20 Cap screw M2 x 8 Pan head machine screw	1 1 1 1		1	Mechanical case 60 Iroquois Seal	1 3
	DC59-6 DC59-7 DC59-8 DC59-9 DC59-10	M2 x 10 Pan head machine screw M2 Nut M3U Nut M4U Nut M2.6 x 6 Tapping screw	1 2 1 1 14				
	DC59-12 DC59-13	M2.7 x 10 Wood screw ¢ 2.5 Flat washer ¢ 3 Flat washer ¢ 4 Flat washer	12 4 5 2				
DC-(60)	DC60-1 DC60-2 DC60-3	Adjust rod M2 x 150 Adjust rod M2 x 290 \$ 1.2 x 200 Rod	3 3 1				
DC-(61)	DC61-1	Adjust joint A	3				
DC-(62)	DC62-1	Adjust joint B	4				
BODY C	ASE						
DC-(70)	DC70-1 DC70-2	Body case Sticking paper	1 1				
	DC70-4 DC70-5	Body FRP Body frame	1 set 1 set				
	DC70-6 DC70-7 DC70-8 DC70-9 DC70-10	Horizontal tail blade Drawing Transcribing mark Wire net Cooling cover	1 1 1 1 1				
	DC70-12	Wire set member Fuel tank band Fuel tank 400 cc.	1 1				
			<u> </u>				