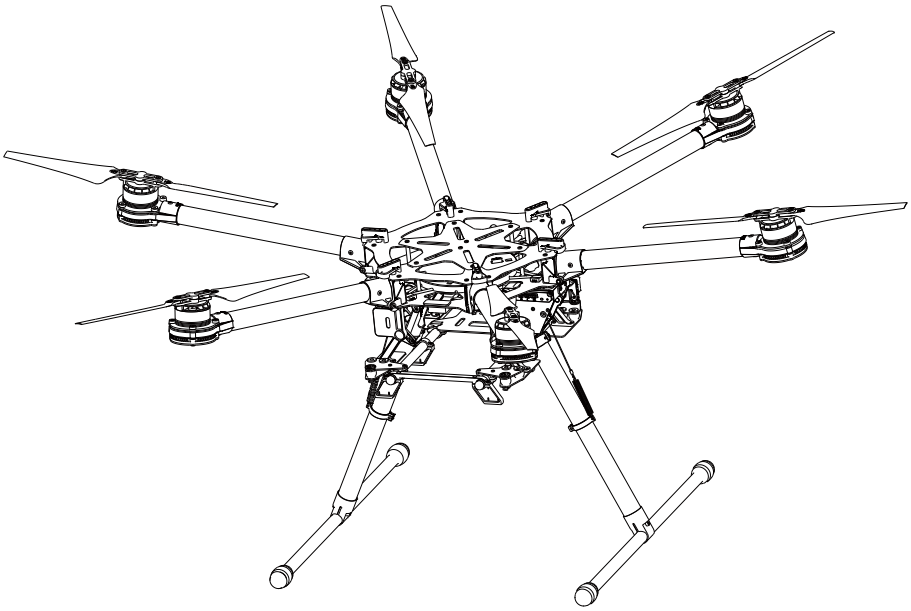
Spreading Wings S900

User Manual V1.0

2014.08

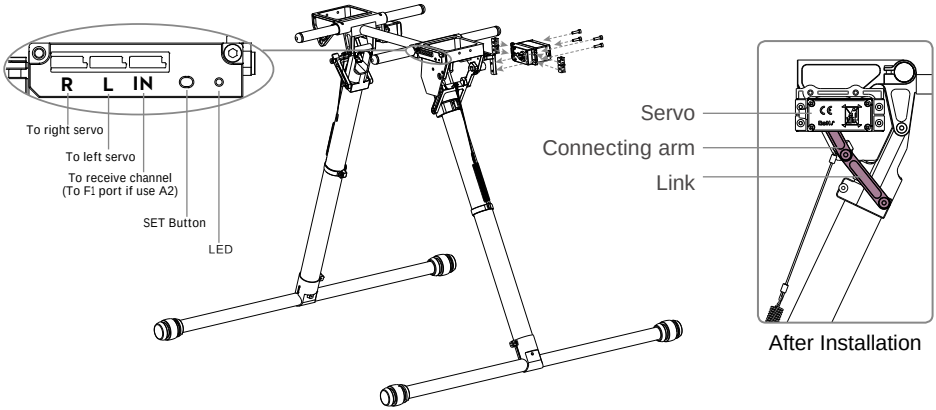


Remounting the Landing Gear Servo

Remounting servos is not recommended as they are pre-installed.

Instructions

1. Connect the left servo cable to the “L” port of the landing gear control board.
2. Connect the right servo cable to the “R” port of the landing gear control board.
3. Press the SET button using a pin then power on. You will see a yellow LED beside the SET button flashing quickly. Wait as servos complete position initialization.
4. Make sure the arm connecting to the servo is parallel to the link as shown in the following diagram.
5. Assemble the left and right servos to the left (between M3, M4) and the right (between M5, M6) parts of the landing gear. Power off.



Recalibrating Servo Travel

Instructions

1. Keep your hands away from all moving parts.
2. Ensure the [R], [L] and [IN] connections are correct.
3. Keep the whole aircraft off of the ground during calibration, as landing gear will move.
4. Press and hold the SET button using a pin while powering on, then release. An LED will flash yellow quickly. Press the SET button again. Auto calibration will begin and the LED will flash yellow slowly. DO NOT obstruct any moving parts during auto calibration.
5. During calibration, the left landing gear will raise and lower, followed by the right landing gear.
6. After calibration, both the left and right landing gears will be lowered and the LED will display a solid green light. This indicates that the landing gear is working properly.

⚠
- If the LED is solid yellow after calibration, a problem has occurred. Carry out the instructions in “Remounting the Landing Gear Servo” then try again.
- Avoid obstructions during calibration. If the landing gear was obstructed, recalibration will be required, per the above steps.
- If the [R] and [L] servo cables are reversed, travel will not be measured correctly. Fix the connections and recalibrate the landing gear using the above steps.
- Landing gear travel has been pre-calibrated. Mechanical adjustment of the gear travel is not recommended.

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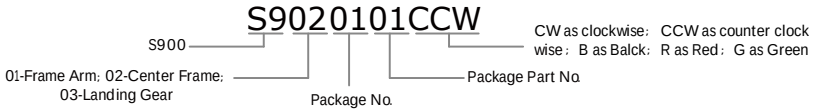
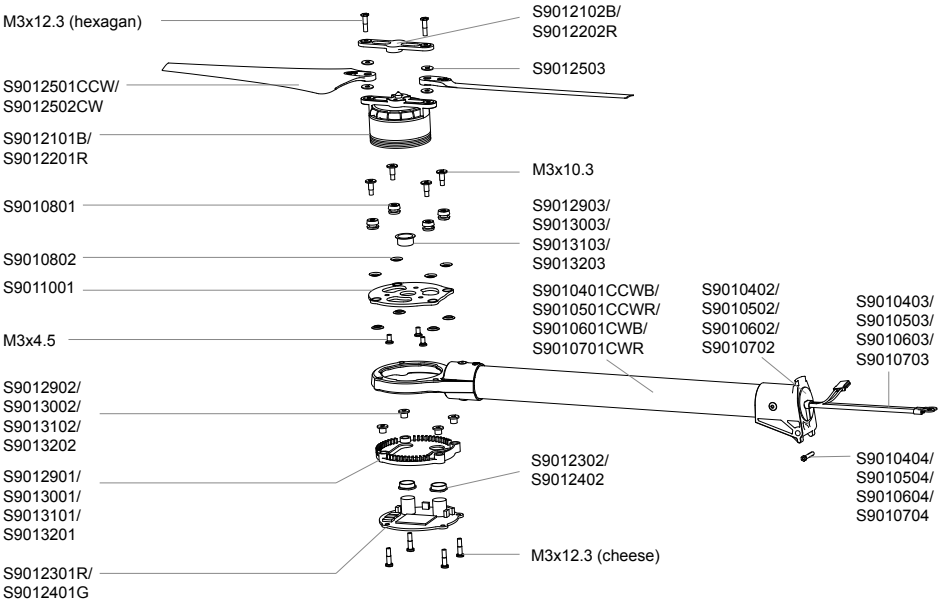
Part List

If you require a replacement part, locate the part that you wish to replace in the following tables. Then order the package that comes with the specified part. The numbering of the part is defined as follow:



Frame Arm



Package No.	Name	Part No.
4	S900 Frame Arm CCW - Black	S9010401CCWB, S9010402, S9010403, S9010404, M3x12.3 (cheese)
5	S900 Frame Arm CCW - Red	S9010501CCWR, S9010502, S9010503, S9010504, M3x12.3 (cheese)
6	S900 Frame Arm CW - Black	S9010601CWB, S9010602, S9010603, S9010604, M3x12.3 (cheese)
7	S900 Frame Arm CW – Red	S9010701CWR, S9010702, S9010703, S9010704, M3x12.3 (cheese)
8	S900 Motor Damping Unit	S9010801, S9010802, M3x10.3
10	S900 Motor Mount Carbon Board	S9011001, M3x4.5

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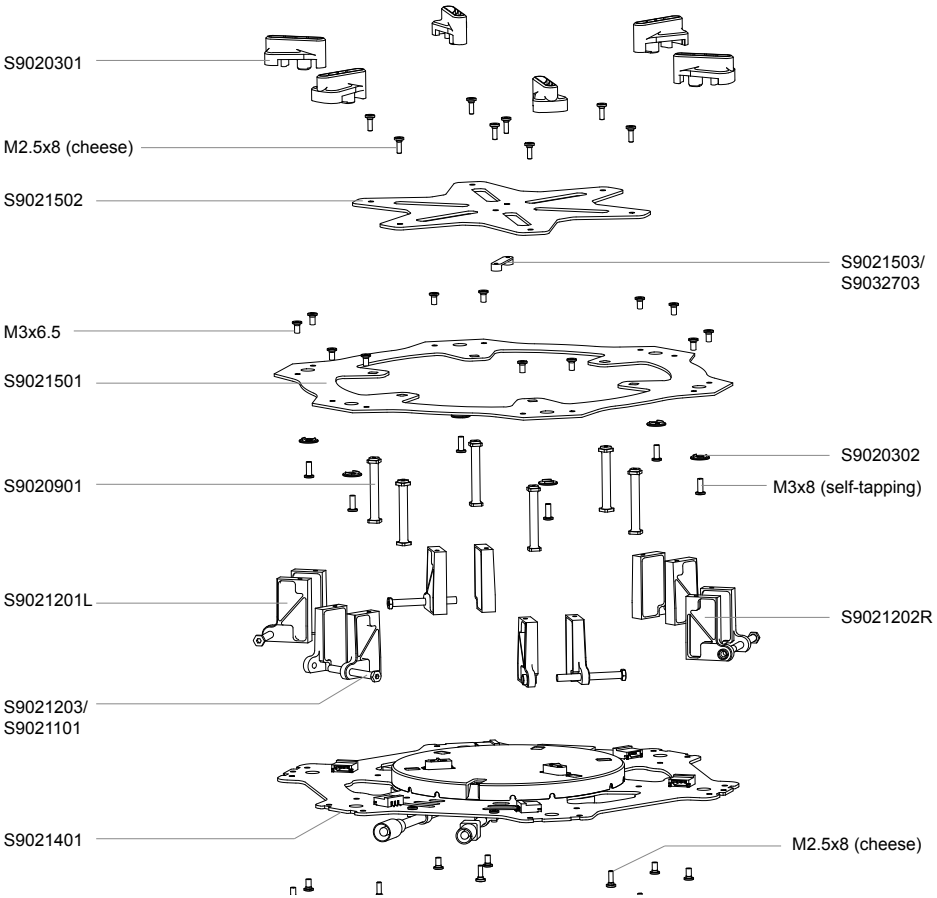
21	S900 4114 Motor with black Prop cover	S9012101B, S9012102B, M3x4.5
22	S900 4114 Motor with red Prop cover	S9012201R, S9012202R, M3x4.5
23	S900 ESC with Red LED	S9012301R, S9012302, M3x12.3 (cheese)
24	S900 ESC with Green LED	S9012401G, S9012402, M3x12.3 (cheese)
25	S900 Propeller Pack	S9012501CCW, S9012502CW, S9012503, M3x12.3 (hexagan)

Center Frame



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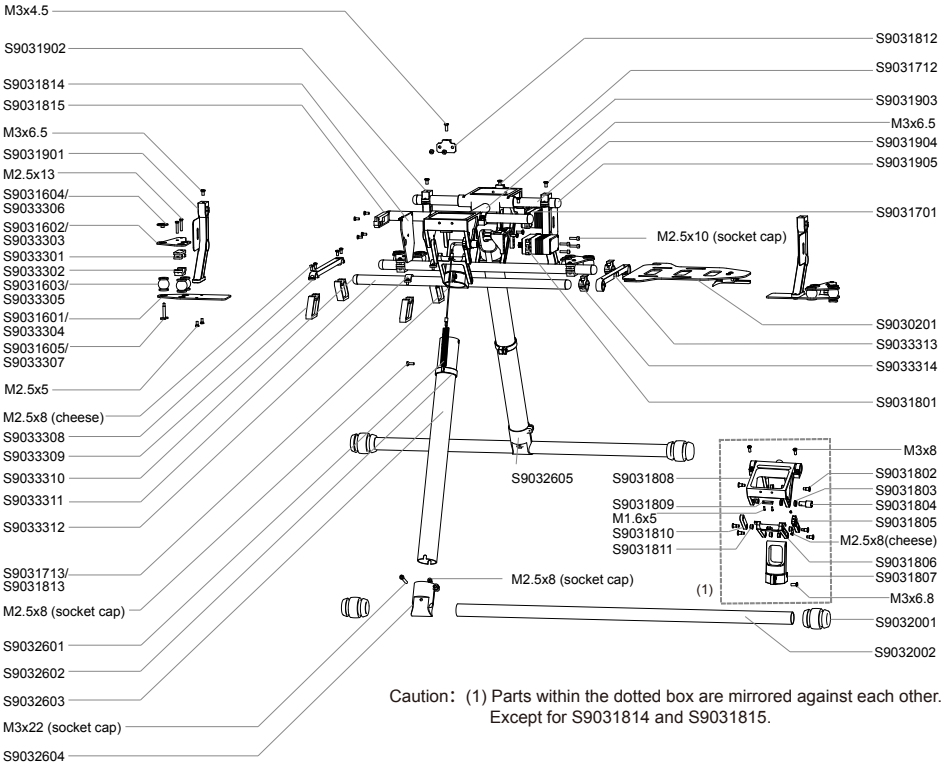
Package No.	Name	Part No.
3	S900 Lock Knob	S9020301, S9020302, M3x8 (self-tapping)
9	S900 Center Frame Support Pillar	S9020901, M2.5x8 (cheese)
12	S900 Arm Mounting Bracket	S021201L, S021202R, S021203, M3x6.5
14	S900 Center Frame Bottom Board	S9021401, M3x4.5 (cheese), M3x8 (self-tapping), M3x6.5, M3x5.5
15	S900 Center Frame Top Board	S9021501, S9021502, S9021503, M3x6.5, M2.5x8 (cheese)
11	S900 Frame Arm Mounting Steel Shaft	S9021101

Landing Gear



Caution: (1) Parts within the dotted box are mirrored against each other. Except for S9031814 and S9031815.

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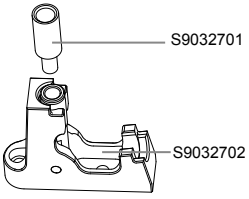
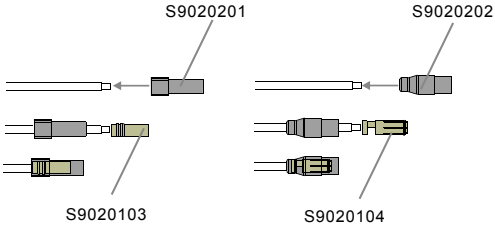
Package No.	Name	Part No.
16	S900 Gimbal Damping Bracket	S9031601, S9031602, S9031603, S9031604, S9031605, M2.5x5, M2.5x13
17	S900 Retractable Module (Right)	S9031701, S9031702, S9031703, S9031704, S9031705, S9031706, S9031707, S9031708, S9031709, S9031710, S9031711, S9031712, S0031713, M1.6x5, M2.5x10 (socket cap), M2.5x8 (cheese), M2.5x5, M3x8, M3x4.5, M3x6.8
18	S900 Retractable Module (Left)	S9031801, S9031802, S9031803, S9031804, S9031805, S9031806, S9031807, S9031808, S9031809, S9031810, S9031811, S9031812, S9031813, S9031814, S9031815, M1.6x5, M2.5x10 (socket cap), M2.5x8 (cheese), M2.5x5, M3x8, M3x4.5, M3x6.8
19	S900 Gimbal Damping Connecting Brackets	S9031901, S9031902, S9031903, S9031904, S9031905, M2.5x5, M3x6.5
20	S900 Landing Skid	S9032001, S9032002
26	S900 Landing Skid Leg	S9032601, S9032602, S9032603, S9032604, S9032605, M2.5x8 (socket cap), M3x22 (socket cap)
2	S900 Battery Tray	S9030201
33	S900 Gimbal Mounting Accessories	S9033301, S9033302, S9033303, S9033304, S9033305, S9033306, S9033307, S9033308, S9033309, S9033310, S9033311, S9033312, S9033313, S9033314, M2.5x5, M2.5x13, M2.5x8 (cheese)

Miscellaneous





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Package No.	Name	Part No.
13	S900 Center Frame	Package 3, 9, 12, 14, 15
29	S900 Complete Arm [CW-RED]	Package 7, 8, 10, 11, 22, 23, 25, S9012901, S9012902, S9012903
30	S900 Complete Arm [CW-Green]	Package 6, 8, 10, 11, 21, 24, 25, S9013001, S9013002, S9013003
31	S900 Complete Arm [CCW-RED]	Package 5, 8, 10, 11, 22, 23, 25, S9013101, S9013102, S9013103
32	S900 Complete Arm [CCW-Green]	Package 4, 8, 10, 11, 21, 24, 25, S9013201, S9013202, S9013203
27	S900 GPS Holder	S9032701, S9032702, S9032703, M2.5x8 (cheese)
28	S900 Screw Pack	Assorted screws
1	S900 Power Cord Plug	S9020101, S9020102, S9020103, S9020104

The FCC Certification Requirements

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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User manual is subject to change without prior notice.

You may visit DJI offical website to obtain the latest version of user manual.

http://www.dji.com/product/spreading-wings-s900

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