

JR

2012 JR PROPO ALL PRODUCTS CATALOG

— The Global Brand —
JR PROPO
<http://www.jrpropo.co.jp>



Japan Remote Control Co., Ltd.
For more information concerning the JR products, kindly contact your
nearest hobby store or agent or JR distributor in your country.

Note that the product exterior or parts of the functions may be changed at any time without prior notice.
This catalog is current as of Jan 2012.

— The Global Brand —
JR PROPO

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DMSS

Innovation for radio control system

DMSS 2.4GHz System Technology

The greatest innovation in the Model RC industry for the 21st century is without doubt the 2.4GHz radio system...

In beginning, JR introduced the 2.4GHz system, DSM-2/J.

Now we proudly present DMSS - the ultimate in reliability - a 2.4GHz system with Frequency Hopping Spread Spectrum.

The new evolution is in our hands.

The complete new system "DMSS" - our innovation for stepping into a new era.

Fly to unexplored areas

The DMSS RF signal spreads data transmission - it is approximately 1.6 times broader than previous systems.

The transmission data volume is approximately three time larger than with previous systems (maximum)

which allows precise linear servo movement.

A newly developed frequency hopping algorithm achieves high quality transmission even under signal interference, providing stable data transmission and reception.

Bidirectional communications allows Real-time Telemetry support for DMSS radios.

It is possible to monitor receiver or power pack battery voltages, altitude, temperatures, propeller rpm or rotor blade rpm.

For safety, an alert system can help avoid accidents.

The completely new "DMSS" is our new evolution.

DMSS

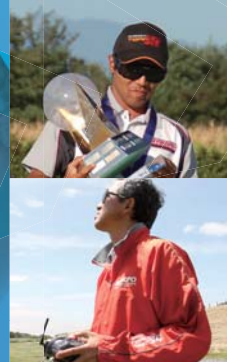
DUAL MODULATION SPECTRUM SYSTEM

DMSS 2.4GHz SYSTEM

XG11

High end series, the supreme leader.

The world's most advanced 11 channel
2.4GHz Dual Modulation Spectrum System.
Titanium Black color plating offers a robust, durable finish.
Ergonomic modern case design offers the best grip,
comfort and balance.
Easy viewing high resolution back lit display.
FH-SS Technology offers the best reliability in 2.4GHz technology.
Built-in telemetry function provides in-flight information.
Updated programming software satisfies
the needs of expert Helicopter,
Airplane and Sailplane pilots.
JR PROPO'S high quality
XG11 has arrived on the RC scene!



FAI F3C 4 Times consecutive World Champion
Hiroki Ito (Team JR)

2011 FAI F3A World championship Japanese representative
Hajime Hatta (Team JR)

JR responding to the top pilots.

When we started designing the XG11, our aim was to provide the top pilots with what they needed in a radio. Numerous functional enhancements and user friendly features ensure the radio will be suited to any pilot from beginner to expert.

XG11 Feature Highlights

3 Axis Gyro mode allows user friendly setting of Flybarless helicopters.

Gyro sensitivity adjustment has been increased to 3 systems to suit 3 axis gyros. This is perfectly matched to the JR 3 Axis Gyro - the TAGS01.

GYRO SENS	NORM	RAUDO	2RAILE	3ELEV
TRIPLE AXIS	NORM: N 50%	GEAR	AUX2	AUX3
AUTO	ST-1: S 50%	N 50%	S 50%	S 50%
DELAY: INH	ST-2: S 50%	S 50%	S 50%	S 50%
CALIBRATION	ST-3: S 50%	S 50%	S 50%	S 50%
	ST-4: S 50%	S 50%	S 50%	S 50%
	HOLD: N 50%	N 50%	N 50%	N 50%

•Screen shot of 3 axis Gyro setting

GYRO SENS	NORM
TRIPLE AXIS CALIBRATION	-OK-
ELEV CAL.	SMASH: AILE 0%, PIT. 0%
AILE CAL.	
PIT. CAL.	

•Screen shot of 3 axis Gyro calibration

GYRO SENS	NORM	RAUDO	2RAILE	3ELEV
TRIPLE AXIS	GEAR	AUX2	AUX3	
AUTO	TRIM IN: 1150	INH	INH	
DELAY: INH				
CALIBRATION				

•Screen shot of Gyro Trim In setting

Mixing Curve mid-point adjustment has been increased from 3 points to 5.

A more precise Curve can be set with 5 mid-points for the throttle and Pitch control on the aircraft. Various settings can be achieved depending on the flight condition or the pilot's desired control.

THRO CURVE	IN	OUT	PIT CURVE
ST-1	P-L 0 100		
	P-1 7 88		
	P-2 21 75		
	P-3 50 70		
	P-4 75 85		
	P-5 92 98		
EXP	P-H 100 100		
ON			

•Screen shot of Throttle Curve

Multiple applications for Stick Position Switch

Stick position can be used as a switch for functions such as the timer or Dual rates, as well as the normal function of stick movement. Several switch setting can be arranged with stick travel, along with programmable dead band on each position.

STICK POSITION SW	SPS0: AILE	SPS1: AILE	SPS2: AILE
POS OFF	POS OFF	POS ON	POS ON
L: 60, INH	L: 50, INH	L: 20, 80	
R: INH, INH	R: 50, INH	R: 25, 50	
ON OFF ON	ON OFF ON	ON ON OFF	

•Screen shot of Stick Position Switch

Much anticipated, user friendly "Balance" function

In Airplane and Glider mode, Dual Aileron or multiple servo setups can be precisely programmed with the "Balance" function using a Multi point (5 mid point) curve. ※ACRO-GLIDER only.

BALANCE	IN	OUT
RAIL	P-L -150 +0	
	P-1 -110 +2	LAIL
	P-2 -77 +7	RAIL
	P-3 +0 +0	
	P-4 +67 +5	
	P-5 +113 +0	
EXP	P-H +150 +0	
ON		

•Screen shot of Balance function

User friendly Device Select

Not only the Back slide levers or toggle switches, but digital trim switches can be allocated as Input devices. This flexible interface allows comfortable, easy use of the transmitter.

DEVICE SELECT	[CH]	[DEVICE]	[OUT]
CH: GEAR			
AILE SW	AUX2 SW	ATRM 3P	LTRM MO
ELEV SW	FMOD SW	ATRM 2P	NEDL
RUDD SW	TRN SW	ATRM MO	ACT
HOLD SW	HPIT LV	LTAM 3P	ACT
GEAR SW	AUX3 LV	LTAM 2P	ACT

•Screen shot of DEVICE SELECT

- System: DMSS/Computer Mixing
- Channels: 11
- Weight: 960g (Including battery)
- SD card equipped, enables data conversion between models (corresponds to DSX11·11X ZERO·XG8)

- Transmitter: Titanium Black plating
- TX Battery: 2F1400 (Li-Fe)
- AC/DC adaptor: NEC-A912 Four type of plugs available to cover most nations.
- Bind plug
- Throttle ratchet spring

※Data conversion can be only carried out for matching functions, in numerical values only.



An ergonomic body shell offers a perfect fit in your hands.
Supplied with red anodized stick heads.



Two types of throttle trim can be selected to suit your preference - either Analog or Digital trim.

Notes:
※Selection of Analog or Digital trim is made at the time of purchase.
※Modification of the Throttle trim can be done after purchase. However, there is a modification fee.
※Some of the programming features may not be available with Analog trim.



DMSS

DUAL MODULATION SPECTRUM SYSTEM

DMSS 2.4GHz SYSTEM

XG8

The middle class radio conquering World titles.

The best performer in the middle class transmitter line up! Our concept evolved a decade ago, Our legend transmitter the "PCM9X" became the best selling radio in the RC market, now the concept has infusion to its successor the "XG8". Some say, Oh! Developed for beginner to advance pilots?

The answer is NO! It has proved it's performance at World Championships events in 2011.

It is indeed a great performing radio for World class competitors in all aircraft categories.

The "XG8" was used by Joseph Wurts to win the first FAI F3K Glider World championship.

It has truly proved its performance at the competition field.

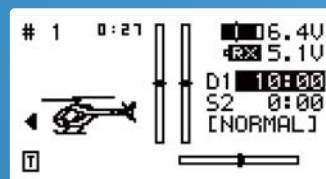
The new legend begins.....



XG8 Feature Highlights

Back lit 2.8 inch wide LCD Graphic Display

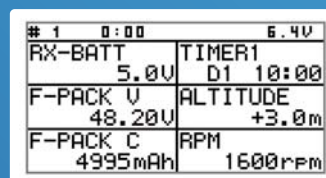
The new back lit graphic LCD allows a clear view even outside under direct sunlight.



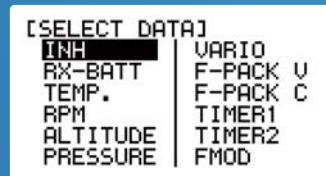
•Screen shot of the information for Helicopter mode.

The Display Menu can be customized as desired. New Sub information screen.

The Sub information screen can be customized using the modeler's preferences.



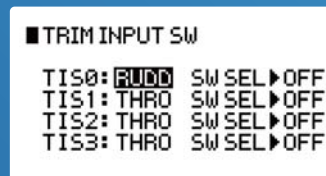
•Screen shot of Sub information



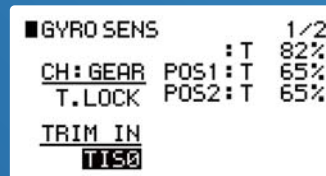
•Screen shot of SELECT DATA

New Trim Input Function

For example, Helicopter Gyro Sensitivity can be adjusted in flight using a Trim Input Switch.



•Screen shot of Trim In Put SW



•Screen shot of Gyro sensitivity

- System: DMSS/Computer Mixing
- Channels: 8
- Weight: 770g (Including battery)
- SD card equipped, enables data conversion between models (corresponds to XG11•DSX11•11X ZERO)

- Transmitter: Two colors available (Black chrome) & (Silver chrome)
- TX Battery: 2F1400 (Li-Fe)
- AC/DC adaptor: NEC-A912 Four type of plugs available to cover most nations.
- Bind plug
- Throttle ratchet spring

※Data conversion can be only carried out for matching functions, in numerical values only.



2011 FAI F3K R/C Hand launch Glider World Championship,
Individual Gold medal winner
Joseph Wurts (Team JR)

2011 FAI F3C R/C Helicopter World Championship,
Bronze medal winner
Takashi Nonogaki (Team JR)

Proved potential at World Championships.

Excellent performances have shown the radio's versatility during World class contests. Team JR pilot Mr. Joseph Wurts won the FAI F3K World title using the XG8, and FAI F3C pilot Takashi Nonogaki achieved third place at the World championship in Italy.



Black

Silver



The most advanced 8 channel transmitter in the world featuring 2.4GHz Dual Modulation Spectrum System (DMSS). Powerful software for complex models. Tilted stick angle provides great ergonomics for your control feel.

Black/chrome and conventional Silver/chrome color options are available to suit your preference. Super Light weight is achieved by using a light weight 1400mAh Li-Fe battery, this perfectly balanced radio offers great functionality for sport flying, competition flying, and active pilots like launching F3K DLG Gliders. The rear side of the Radio offers the best grip of any transmitter. FH-SS Technology offers unsurpassed reliability in 2.4GHz technology. Built-in telemetry features provide real time in-flight information. SD card for software updates and backing up model data, and unlimited model memory. A great feature.



DMSS

DUAL MODULATION SPECTRUM SYSTEM

DMSS 2.4GHz SYSTEM

XG7

BASIC PERFORMANCE with TELEMETRY AS STANDARD

High end performance, at a user friendly cost for the sport modeler.
Basic functions included, with no optional parts required.
A Compact unit, with a well proven design.
Sufficient programing features to fly Airplanes,
Gliders and Helicopters.
Will satisfy the sport flyer's needs and many experts will love it too.



Recommend Sensors For DMSS 2.4GHz Radio Systems



Alert to battery voltage drop.

For Airplane Sensor: TLS1-PWR

It is recommended you install the "TLS1-PWR" power sensor to sense power pack capacity to provide a warning alert. Large scale aircraft consume much more current by using many servos on each control surface. By installing the sensor, you can detect primary battery voltage in real-time by numerical voltage indication on the LCD screen or trigger an alert. Plus it is able to calculate the consumption power as well. This is a safety feature to avoid fatal accidents. It is important to know when to land based on battery capacity.



To fine tune helicopter settings by knowing the actual rotor rpm.

For Helicopter Sensor: TLS1-ROT

It is important to fine tune helicopter settings for each flight mode through knowing rotor rpm. Because mechanical settings as well as flying technique may vary rpm, the rotation sensor "TLS1-ROT" provides exact rpm and this data can be used to fine tune the helicopter.



The actual altitude can now be known.

For Glider Sensor: TLS1-ALT

Until now, actual aircraft altitude has been a "guess" by the pilot. But now it can be determined in real time by this altitude sensor. It is also useful to know the altitude variation to catch a thermal.

Note: It is illegal to use this device for FAI Glider competition.

XG7 Feature Highlights

The sensors in the aircraft feed back data by remote antenna on receiver to the Transmitter which displays the real-time telemetry information on LCD display.

Telemetry screen setting (Under Helicopter Mode)

RX ALARM: An alarm is triggered when the receiver's voltage drops to the alarm voltage.

TEMP.ALARM: An alarm is triggered when the temperature reaches the alarm temperature.

TEMP.SCALE: Temperature can be shown in either Celsius or Fahrenheit.

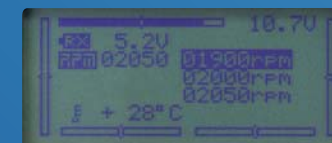
GEAR RATIO: Rotor blades rpm can be calculated by inputting the gear ratio.

RPM DELAY: When recording the maximum rotation speeds in each Flight mode, recording will start following a time delay after the flight mode has been switched.



Sub information Display (Under helicopter function)

The Display Shows the receiver's battery voltage at all times, and other telemetry data can be shown in real time by adding sensors.



- System: DMSS/Computer Mixing
- Channels: 7
- Weight: 820g (Including battery)

- Transmitter: NET-K337G
- TX Battery: 8H1500B (Ni-MH)
- Charger: NEC-501
- Bind Plugs
- Throttle Ratchet Spring



Receiver

DMSS 2.4GHz 11ch RG1131B



- No.03425 ●Dimensions (mm)/Weight (g) : 14.0×32.0×47.5/18
- Receiving system: DMSS 11ch
- Coaxial Antenna Type ●Antenna Length: Coaxial cable length /120mm, Antenna length /30mm
- Remote Antenna RA01T equipped ●Full range telemetry module RA01T ●Remote extension cable (150mm)

Full range receiver Full range telemetry

DMSS 2.4GHz 8ch RG831B



- No.03423 ●Dimensions (mm)/Weight (g) : 14.5×25.5×48.0/15
- Receiving system: DMSS 8ch
- Coaxial Antenna Type ●Antenna Length: Coaxial cable length /120mm, Antenna length /30mm
- Remote Antenna RA01T equipped ●Full range telemetry module RA01T ●Remote extension cable (150mm)

Full range receiver Full range telemetry

DMSS 2.4GHz 6ch RG631B

- No.03426
- Dimensions (mm)/Weight (g) : 12.5×20×46.5/9
- Receiving system: DMSS 6ch
- Coaxial Antenna Type
- Antenna Length: Coaxial cable length /120mm, Antenna length /30mm
- Remote Antenna RA01L equipped
- Short range telemetry module RA01L
- Remote extension cable (150mm)

Full range receiver Short range telemetry

DMSS 2.4GHz 6ch RG611B

- No.03424
- Dimensions (mm)/Weight (g) : 9×23×36.0/5
- Receiving system: DMSS 6ch
- Coaxial Antenna Type
- Antenna Length: Coaxial cable length /140mm, Antenna length /30mm
- Easy Bind system
- Short range telemetry module

Short range telemetry

For Park Flight

EASY BIND

●Easy Bind system: Bind procedure can be carried out without using a bind plug.

DMSS 2.4GHz 4ch RG411B

- No.03422
- Dimensions (mm)/Weight (g) : 9×18×35.5/3.5
- Receiving system: DMSS 4ch
- Built in Antenna
- Easy Bind system
- Short range telemetry module

Short range telemetry

For Park Flight

EASY BIND

Remote Antenna

RA01T

- No.03408 ●Dimensions (mm)/Weight (g) : 5.5×27.0×28.0/4
- Full range telemetry Module ●Built in antenna
- Remote extension cable (150mm)

Full range telemetry



RA01C

- No.03450 ●Dimensions (mm)/Weight (g) : 6.3×21.7×24.6/3
- Short range telemetry Module ●Built in antenna
- Low power consumption ●Remote extension cable (150mm)

Short range telemetry



RA01TL

- No.03452 ●Dimensions (mm)/Weight (g) : 5.5×27.0×28.0/4
- Full range telemetry Module ●Coaxial antenna Type
- Antenna Length: Coaxial cable length /140mm, Antenna length /30mm
- Remote extension cable (150mm)

Full range telemetry



RA01L

- No.03451 ●Dimensions (mm)/Weight (g) : 6.3×21.7×24.6/3
- Short range telemetry Module ●Coaxial antenna Type
- Antenna Length: Coaxial cable length /160mm, Antenna length /30mm
- Low power consumption ●Remote extension cable (150mm)

Short range telemetry



Accessories

TLS1-ADP

- No.03439
- Telemetry Sensor Terminal Adaptor



Remote Extension Cable For DMSS Receivers

- 150mm No.04881
- 300mm No.04882
- 450mm No.04883



●Operating Voltage: 4.5-8.5V

TX Module

●It is possible to use a DMSS Module with previous radio systems. ※The Telemetry Function can only be activated with the 11X Zero.

DMSS 2.4GHz TX Module TG2.4XP

- No. 03594
- Serial Adaptor pin for 11X ZERO

(Installation example)



■ 11X ZERO

The Telemetry Function can only be activated with the 11X Zero using a serial adaptor pin upgrade and software update.

■ PCM12X, PCM9X/XII/XII LTD.

These radios cannot use the Telemetry function. Be sure to set the radio to PPM Modulation while using this Module.

DMSS 2.4GHz TX Module set with 11ch full range receiver RF-1131 2.4XP



- No.03657 ●TX Module: TG2.4XP
- Receiver: RG1131B/RA01T
- Serial adaptor pin for 11X ZERO
- Antenna cap for original antenna

DMSS 2.4GHz TX Module set with 8ch full range receiver RF-831 2.4XP



- No.03655 ●TX Module: TG2.4XP
- Receiver: RG831B/RA01T
- Serial adaptor pin for 11X ZERO
- Antenna cap for original antenna

DMSS 2.4GHz TX Module set with 6ch full range receiver RF-631 2.4XP



- No.03656
- TX Module: TG2.4XP
- Receiver: RG631B/RA01L
- Serial adaptor pin for 11X ZERO
- Antenna cap for original antenna

DMSS 2.4GHz TX Module set with 6ch short range Parkflyer receiver RF-611 2.4XP



For Park Flight

- No.03654 ●TX Module: TG2.4XP
- Receiver: RG611B
- Serial adaptor pin for 11X ZERO
- Antenna cap for original antenna

DMSS 2.4GHz TX Module set with 4ch short range Parkflyer receiver RF-411 2.4XP



For Park Flight

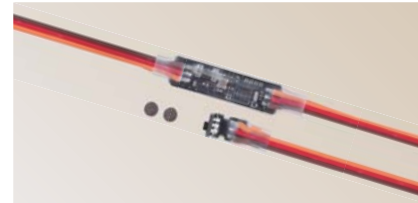
- No.03658 ●TX Module: TG2.4XP
- Receiver: RG411B
- Serial adaptor pin for 11X ZERO
- Antenna cap for original antenna



TLS1-ROT

Rotation sensor (magnet sensing)

- No.03431 ●Detection method: magnet sensing(hall IC)
- Detection range :300rpm~40,000rpm
- Size of magnet: φ4mm×2mm (samarium-cobalt magnet)
- For: XG11-XG8-XG7
- ※Not suitable for use with Magneto spark ignition engines (because of magnetic interference).



TLS2-ROT

Rotation sensor (Optical sensor)

- No.03441 ●Detection method: Optical sensor (Phototransistor)
- Detection range : 1,000rpm~50,000rpm (1~6 blades)
- For: XG11-XG8



TLS1-TMP

Temperature Sensor (Low Temperature type)

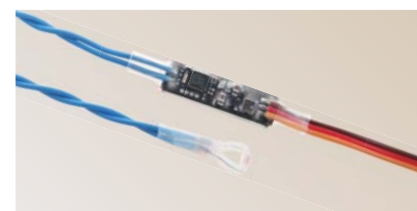
- No.03430 ●Detection method: contact thermometry
- Measurement range: -10°C~90°C (14°F~194°F)
- For: XG11-XG8-XG7



TLS2-TMP

Temperature Sensor (High Temperature type)

- No.03437 ●Detection method: contact thermometry
- Measurement range: 30°C~230°C (86°F~446°F)
- For: XG11-XG8-XG7



TLS1-ALT

Altitude Sensor

- No.03432 ●Detection method: atmospheric pressure conversion to Altitude
- Measurement accuracy: +/-20Pa (Altitude conversion +/-2.0m)
- Measurement range :300hPa~1,100hPa
- Function: atmospheric pressure measurement/Altitude measurement (by Conversion) ●For: XG11-XG8
- ※ Does not function as VARIOMETER



TLS1-PWR

Power sensor

- No.03438 ●Primary measurement: Current/Voltage
- INPUT/OUTPUT Connector : Deans connector ●Maximum Current/Voltage : 80A/18.0V(Directly compatible if Deans connectors used)
- For: XG11-XG8

※Removable Deans connectors installed



XG Series Function List

Product Name		XG11	XG8	XG7
Basic Functions	Function List	Dual Rate & Exponential	● (2 types 8 system/With Delay on each Flight Mode)	● (2 types 3 systems/on each Flight Mode)
		Travel Adjust	●	●
		Limit Adjust	●	-
		Sub Trim	●	●
		Servo Reverse	●	●
		Servo Speed	● (2 types 2 systems : For Heli 1 system)	-
		Program Mixing	● (6 systems /Norm Curve: Multi Point, Mid 5 points selectable)	● (6 system/Normal Only)
		Timer	● (3 systems [DOWN/STOP*]) Flight Counter included	● (1 system [DOWN/STOP])
		Mix Monitor	●	-
	System List	Servo Monitor	● (With Test Function)	-
		Model Memory	● (30 Model Memories)	● (18 model memories)
		Model Copy & Erase	● (Model Copy capable between /within TX/TX⇄TX/TX⇄SD)	● (Model Copy capable within TX)
		Type Select	● (3 types Selectable)	● (2 types Selectable)
		Model Name	● (10 characters)	● (8 characters)
		Flight Mode Name	● (6 characters/ 4 characters)	-
		Trim System	● (trim step/trim type)	-
		Stick Position Switch	● (6 systems)	-
		Trim Input Switch	● (4 system)	-
		Stick Alert	● (THRO (SPO) stick alert only)	-
		Warning	● (Can be customized)	● (For Helicopter Only)
		TX Setting	● (*NOTE: 1)	-
		Trainer system	● (2 types selectable)	-
		Bind & Range Check	●	●
		Telemetry Function	● (*NOTE: 2)	-
		Fail Safe	●	●
		Device Select	●	●
		All Servo Hold	●	-
		Throttle Stick Direction	●	-
	Other Functions	Mode Change	● (Mode 1/2/3/4)	● (Model1/2)
		My List	●	-
		Wizard Function	●	-
		Touch Select Function	●	-
		Telemetry Function Display	● (on custom arranged information display)	● (on sub information display)
		Advanced Digital Trim	● (On Each Flight Mode)	● (on each Flight Mode: Helicopter only)
		Ball Bearing on Gimbals	● Double Ball Bearing	● Single Ball Bearing
		SD Card	●	-
		Back Light Display	●	-
Helicopter Functions	Function List	Throttle Curve	● (5 systems Multi point / Mid 5 points with Exponential)	● (3 systems fixed point/5 points exponential)
		Pitch Curve	● (6 systems Multi point / Mid 5 points with Exponential)	● (4 systems fixed point/5 points exponential)
		Tail Curve	● (5 systems Multi point / Mid 5 points with Exponential)	▲ (Revolution mixing)
		Throttle Hold	● (with Auto cut, Delay Function)	●
		Gyro Sensitivity Adjustment	● (6 systems / with Trim Input Function & Delay)	● (2 systems)
		Governor Adjustment	● (on each Flight Mode /with Trim Input function)	-
		Throttle Mixing	●	-
		Swash Mixing	● (Pitch =>Aileron , Elevator correction / Aileron ⇄Elevator correction with Trim Input E-ring functions.)	● (Pitch →Aileron , Elevator correction , Aileron ⇄Elevator correction with E-ring Function)
		Throttle Trim	● (Throttle Cut with time lag, Trim Memory)	▲ (with Trim Memory /Throttle Cut) ※Throttle cut under different Function
	System List	Swash Type	● (6 types *NOTE: 3)	● (4 types※NOTE: 3)
	Other Functions	Flight Mode	● (Maximum 6 systems)	● (Maximum 4 systems)
		Throttle Curve	● (2 systems Multi Point/Mid 5points with Exponential)	● (1 system Multi Point/Mid 3 points with Exponential)
	Function List	Flap System	● (with Trim Input Function & Delay)	●
		Snap Roll	● (4 systems /stick switch)	-
		Differential	● (2 systems /with Trim Input Function)	● (1 system)
		AILE→RUDD MIX	● (2 systems)	● (1 system) ※R & L in common
		AILE→FLAP MIX	● (2 systems)	● (1 system)
		ELEV→FLAP MIX	● (2 systems)	● (1 system)
		RUDD→AILE/ELEV MIX	● (2 systems , with Trim Input Function)	● (1 system , with Trim Input Function)
		Gyro Sensitivity Adjustment	● (3 systems , with Trim Input Function)	-
		Throttle Trim	● (Throttle Cut with Time delay, Idle Ajustment Trim, Trim Memory)	▲ (with Trim Memory /Throttle Cut) ※Throttle cut under different Function
		Throttle Hold	●	-
Airplane Functions	Function List	Balance	● Multi Point / Mid 5points with Exponential	-
		Wing Type	● (*NOTE: 4)	-
		Flight Mode	● (3 systems)	-
		Flap Rate	● (on each Flight Mode)	-
		Motor System	● (With Delay)	-
		Camber System	● (with Break, Delay, Camber Off set Input trim select)	-
		Brake System	● (2 systems , Elevator Trim in, Flaperon Curve MIX)	● (1 system , Elevator Trim in)
		Differential	● (on each Flight Mode, With Break Function)	-
		Flaperon Mixing	● (on each Flight Mode, With Flap Lever off set Function)	-
		AILE→RUDD MIX	● (on each Flight Mode, With Break Function)	-
	Function List	ELEV→CAMB MIX	● (on each Flight Mode) with off set, Snap Function	● (on each Flight Mode) with off set
		RUDD→SPOT MIX	● (on each Flight Mode)	-
		Balance	● Multi Point / Mid 5 points with Exponential	-
	System List	Wing Type	● (5 types ※NOTE: 5)	● (4 types *NOTE: 5)
	Other Functions	Flight Mode	● (5 systems)	-
		Dual Aileron	● (Standard Spec. Left 1channel, Right 2 channel)	-
Glider Functions	Function List	Flap System	● (with Trim Input Function & Delay)	●
		Snap Roll	● (4 systems /stick switch)	-
		Differential	● (2 systems /with Trim Input Function)	● (1 system)
		AILE→RUDD MIX	● (2 systems)	● (1 system) ※R & L in common
		AILE→FLAP MIX	● (2 systems)	● (1 system)
		ELEV→FLAP MIX	● (2 systems)	● (1 system)
		RUDD→AILE/ELEV MIX	● (2 systems , with Trim Input Function)	● (1 system , with Trim Input Function)
		Gyro Sensitivity Adjustment	● (3 systems , with Trim Input Function)	-
		Throttle Trim	● (Throttle Cut with Time delay, Idle Ajustment Trim, Trim Memory)	▲ (with Trim Memory /Throttle Cut) ※Throttle cut under different Function
		Throttle Hold	●	-
Glider Functions	Function List	Balance	● Multi Point / Mid 5points with Exponential	-
		Wing Type	● (*NOTE: 4)	-
		Flight Mode	● (3 systems)	-
		Flap Rate	● (on each Flight Mode)	-
		Motor System	● (With Delay)	-
		Camber System	● (with Break, Delay, Camber Off set Input trim select)	-
		Brake System	● (2 systems , Elevator Trim in, Flaperon Curve MIX)	● (1 system , Elevator Trim in)
		Differential	● (on each Flight Mode, With Break Function)	-
		Flaperon Mixing	● (on each Flight Mode, With Flap Lever off set Function)	-
		AILE→RUDD MIX	● (on each Flight Mode, With Break Function)	-
Glider Functions	Function List	ELEV→CAMB MIX	● (on each Flight Mode) with off set, Snap Function	● (on each Flight Mode) with off set
		RUDD→SPOT MIX	● (on each Flight Mode)	-
		Balance	● Multi Point / Mid 5 points with Exponential	-
	System List	Wing Type	● (5 types ※NOTE: 5)	● (4 types *NOTE: 5)
	Other Functions	Flight Mode	● (5 systems)	-
		Dual Aileron	● (Standard Spec. Left 1channel, Right 2 channel)	-

※NOTE: 1 [XG11/XG8] LCD Back Light adjustment, Contrast adjustment, LOW Battery Voltage, Idle Alert, Variation of beep tone selectable, Software verison indication [XG11] Throttle stroke adjustment
※NOTE: 2 [XG11/XG8/XG7] RX battery alarm, Temperature alarm, Rotation (Gear ratio, Number of props, Delay settings) [XG11/XG8] No Link alarm, Altitude (3 pattern of settings) Vario (Ascending alarm:4 pattern, decending alarm 1 pattern.) Flight Pack Voltage alarm
※NOTE: 3 [XG11/XG8/XG7] Swash types 1 servo normal, 2 servo :180 degree, 3 servo :120 degree, 3 servo 90 degree . [XG11/XG8] 3 servos 140 degree (135 degree), 4 servos 90 degree
※NOTE: 4 [XG11/XG8/XG7] Flaperon, Delta(Elevon)/V-tail [XG11/XG8] 4Aileron, Dual Aileron, Dual Elevator, Dual Rudder, Dual Flap [XG11] Twin engine.
※NOTE: 5 [XG11/XG8] V-tail, Dual Elevator Dual Flap, Dual Spoiler [XG11] Dual Rudder

The classic standard
2.4GHz system“DSM2”

The classic 2.4GHz system “DSM2” promises comfortable
and secure TX & RX communications.
We have an extensive lineup of radio systems to meet the needs of beginner pilots to top pilots.



11X ZERO

Attaining the Goal,
Of an 11 channel Transmitter
Designed from scratch!
The story of how the new "Zero" began....

Feedback from users of the top end transmitter - the "12X" - was used to help design this all new 11 channel transmitter. As an upgrade from the legendary "PCM 9X", the transmitter was transformed to a completely updated 11 channel radio with modern style. This affordable system features an ergonomic transmitter body with the best balance achievable. Highly advanced features cover any type of aircraft application and the demands from beginner pilots to top end competition pilots.

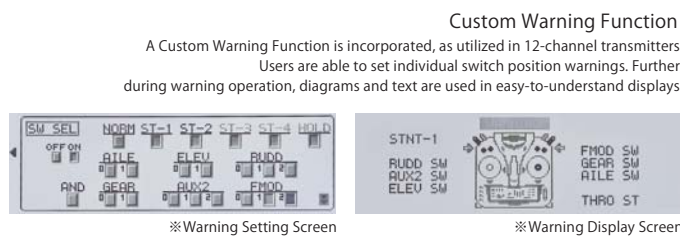


Trim levers that were traditionally located on the side of the transmitter have been moved to the rear face, offering improved usability.



JR-SDM2G ●No.08510

This is the only SD memory card for which operation with the XG11/DSX11/11X ZERO/XG8 is guaranteed.
※Other commercially available SD memory cards may not operate correctly with these transmitters.



My List Function

Frequently used menu items can be selected by users to make a customized list screen. In addition to Function modes, System Setting modes can also be selected.



Touch Selection Function

In the Device Selection Setting, in the System Setting mode, Switches can be selected by using the jog dial as before, and now also selected intuitively directly operating the switches you wish to use.



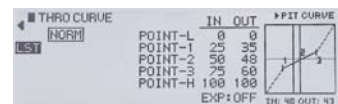
Servo Monitoring Function

In addition to the previous Servo Monitoring Function, a servo test function is also provided. Further, a "Neutral" test pattern, convenient for servo center confirmation, has been added.



Throttle Curve and Pitch Curve Functions

Multipoint settings, which were previously only incorporated in higher-level transmitters, are employed in the Throttle Curve and Pitch Curve settings. It is possible to set a maximum of three intermediate points in optional positions. (This is also possible using Curve Type programmable Mixing)



System: DMSS・DSM2・SPCM/Computer Mixing
Channels:11
Weight: 860g (Excluding module and battery)



Changeable Module Type

Full DMSS functions!



DMSS 2.4GHz TX Module
TG2.4XP

- No. 03594
- Serial Adaptor pin for 11X ZERO

(Installation example)

■11X ZERO
The Telemetry Function can only be activated with the 11X Zero using a serial adaptor pin upgrade and software update.
■PCM12X, PCM9X/XII/XII LTD.
These radios cannot use the Telemetry function. Be sure to set the radio to PPM Modulation while using this Module.

Basic Functions

- Servo Reverse
- Left/Right Control Surface Travel Adjustment
- Dual Rate & Exponential: 2 Selections: Each F.M.
- Sub Trim
- Advanced Digital Trim: Each F.M.
- Servo Speed: 2 Selections
- Program Mixing: 6 Systems/ Curve Mixing: 3 Systems Possible (With Exponential Function)
- Trim Step/ Trim Type
- Dual Axis Bearing Supported Sticks with Tension Adjustment
- DSC/Trainer Jack
- Model Switching: Copying: 30 Models
- Model Names: Maximum 10 Characters
- Flight Mode Names: Maximum 6 Characters
- Data Erase
- Fail Safe (2.4GHz: Set During Bind)
- Various Types of Alarms and Timers: 3 Systems
- Servo Monitor: With Test Function
- Trainer System: 2 Types Possible
- Type Switching: 3 Types Possible
- Data Copying (Inside TX) (Between TX and TX) (Between TX and SD)
- Device Selection (With Touch Selection)
- 4-Tone Grey Scale LCD with Backlight
- Limit Adjustment
- SD Card Slot
- My List Function
- Easy Setting Function (Wizard)
- Stick Position Switch
- Mix Monitor
- All Servo Hold
- Custom Warnings
- Modulation Switching: DMSS (11ch)/DSM (11ch)/ SPCM (10ch)/ PPM9 (9ch)/ PPM8 (8ch)

Helicopter Functions

- Flight Mode: Maximum 6 Systems
- Throttle Curve: Maximum 5 Systems Multipoint: 3 Intermediate Points (With Exponential Function)
- Pitch Curve: Maximum 6 Systems Multipoint: 3 Intermediate Points (With Exponential Function)
- Tail Curve: 5 Systems Multipoint: 3 Intermediate Points (With Exponential Function)
- Throttle Hold: With Auto Cut
- Gyro Sensitivity Setting: Sensitivity Maximum 6 Systems/ Tail Lock Gain Maximum 6 Systems with Gyro Gain Delay (When Using G7000T)
- Mixing → Throttle
- Swash Type: 6 Types (Including 140°)
- Governor Setting: Each F.M.
- Flight Mode Delay

Airplane Functions

- Flight Mode: Maximum 3 Systems
- Throttle Curve: 2 Systems Multipoint: 3 Intermediate Points (With Exponential Function)
- Pitch Curve: 2 Systems Multipoint: 3 Intermediate Points (With Exponential Function)
- Throttle Hold (During Twin Engine Setting)
- Gyro Sensitivity Setting: Maximum 3 Systems with Delay
- AILE→RUDD Mixing
- ELEV→FLAP Mixing
- RUDD→AILE/ELEV Mixing
- AILE→FLAP Mixing
- Flap System (With Direct Input)
- Snap Roll: Independent 4 Systems
- Wing Type Settings: With Differential Settings
- Idle Adjustment

Glider Functions

- Flight Mode: Maximum 5 Systems
- ELEV→CMB Mixing: Each F.M.
- AILE→RUDD Mixing: Each F.M. (With Brake Function)
- RUDD→SPOI Mixing: Each F.M.
- Flaperon Mixing: Each F.M./ With Flap Lever Offset
- Flap Rate: Each F.M.
- Flight Mode Delay
- Motor Hold (With Delay)
- Wing Type
- Brake System

※Each F.M. : Each Flight Mode

Or Your Choice!

DSM2

DSM2 2.4GHz TX Module
TDG 2.4P

- Serial Adaptor pin for 11X ZERO

SPCM

SPCM TX Module

- For 11X ZERO, PCM10X, PCM9X, PCM9XII, PCM9XII LTD.



DSX12

All of the Key
Elements are Incorporated.

Basic Functions

- Servo Reverse
- Left/Right Control Surface Travel Adjustment
- Dual Rate & Exponential: 2 Divisions: Each F.M.
- Sub Trim
- Analog Throttle Trim
- Servo Speed: 2 Selections: Each F.M.
- Advanced Digital Trim: Each F.M.
- Program Mixing: 8 Systems/ Inside Curve Mixing: 5 Systems Selection Possible (With Exponential Function)
- Trim Step/Trim Type
- Dual Large-Diameter Double Ball Bearings with Stick Tension Adjustment
- USB/Trainer Jack
- Model Switching: Copying: 20 Models
- Model Names: Maximum 16 Characters
- Flight Mode Names: Maximum 6 Characters
- Data Reset
- Fail Safe (Set During Bind)
- Various Types of Alarms and Timers: 2 Systems
- Servo Monitoring: With Test Function
- Trainer System: 2 Types Selection Possible
- Type Switching: 3 Types Selection Possible
- Data Transfer (Between TX and TX) (Between TX and PC)
- Device Selection
- High-Definition LCD with Backlight

Helicopter Functions

- Flight Mode: Maximum 6 Systems
- Throttle Curve: Maximum 5 Systems
- Multipoint: 6 Intermediate Points (With Exponential Function)
- Pitch Curve: Maximum 6 Systems
- Multipoint: 6 Intermediate Points (With Exponential Function)
- Tail Curve: 5 Systems
- Multipoint: 6 Intermediate Points (With Exponential Function)
- Throttle Hold: With Auto Cut
- Gyro Setting: Sensitivity Maximum 6 Systems/ Tail Lock Gain Maximum 6 Systems (When Using G7000T)
- Mix → Throttle
- Dual Pitch Mixing
- Swash Type: 6 Types (Supporting 140°)
- Governor Setting: Each F.M.

Airplane Functions

- Flight Mode: Maximum 5 Systems
- Throttle Curve: 2 Systems
- Multipoint: 6 Intermediate Points (With Exponential Function)
- Pitch Curve: 2 Systems
- Multipoint: 6 Intermediate Points (With Exponential Function)
- Throttle Hold
- Gyro Sensitivity Adjustment: Maximum 5 Systems
- AILE→RUDD Mixing
- ELEV→FLAP Mixing
- RUDD→AILE/ELEV Mixing
- AILE→FLAP Mixing
- Flap System
- Snap Roll: 5 Independent Systems
- Wing Type Settings: With Differential Settings
- Governor Setting: Each F.M.
- Servo Balance Function (During Dual Servo Setting)

Glider Functions

- Flight Mode: Maximum 5 Systems
- ELEV→FLAP Mixing: Each F.M.
- AILE→RUDD Mixing: Each F.M.
- AILE→FLAP Mixing: Each F.M.
- RUDD→SPOI Mixing: Each F.M.
- Flaperon Mixing: Each F.M./ With Flap Lever Offset
- Flap Rate: Each F.M.
- Differential: Each F.M.
- Flight Mode Delay
- Motor Hold
- Wing Type: Main Wing 6 Servos Supported
- Brake System

※Each F.M. : Each Flight Mode



DSX12

System: DSM2/Computer Mixing
Channels: 12
Weight: 930g (Excluding battery)

DSM2 2.4GHz 2.4GHz Dedicated Model



The DSX12 boasts a wide variety of functions appropriate for the series flagship model. Consideration has also been given to operability, with 4-key inputting that enables swift access and editing, along with a highly regarded 3D jog dial.



The bind button is also used during range checking, and is located on the rear face of the unit. A RF confirmation LED lights up orange on the rear face, and is duplicated as a front mounted RF lamp. This layout with LED's both on the front and rear face gives consideration to safety by allowing confirmation of radio wave transmission.

DSX11

Complete Lineup of functions incorporated in a
State-of-the-art, Ergonomically Designed Body.



Trim levers that were traditionally located on the side of the transmitter have been moved to the rear face, offering improved usability.



JR-SDM2G No.08510

This is the only SD memory card for which operation with the XG11/DSX11/11X ZERO/XG8 is guaranteed. ※Other commercially available SD memory cards may not operate correctly with these transmitters.

Basic Functions

- Servo Reverse
- Left/Right Control Surface Travel Adjustment
- Dual Rate & Exponential: 2 Selections: Each F.M.
- Sub Trim
- Advanced Digital Trim: Each F.M.
- Servo Speed: 2 Selections
- Trim Step/Trim Type
- Program Mixing: 6 Systems/ Curve Mixing: 3 Systems Selection Possible (With Exponential Function)
- DSC/Trainer Jack
- Model Switching: Copying: 30 Models
- Model Names: Maximum 10 Characters
- Flight Mode Names: Maximum 6 Characters
- Data Erase
- Fail Safe (2.4GHz: Set During Bind)
- Various Types of Alarms and Timers: 3 Systems
- Servo Monitoring: With Test Function
- Trainer System: 2 Types of Selection Possible
- Type Switching: 3 Types of Selection Possible
- Data Copying (Inside TX) (Between TX and TX) (Between TX and SD)
- Device Selection (With Touch Selection)
- 4-Tone Grey Scale LCD with Backlight
- Limit Adjustment
- SD Card Slot
- My List Function
- Easy Setting Function (Wizard)
- Stick Position Switch
- Mix Monitor
- All Servo Hold
- Custom Warnings
- Sub Information Screen

Helicopter Functions

- Flight Mode: Maximum 6 Systems
- Throttle Curve: Maximum 5 Systems
- Multipoint: 3 Intermediate Points (With Exponential Function)
- Pitch Curve: Maximum 6 Systems
- Multipoint: 3 Intermediate Points (With Exponential Function)
- Tail Curve: 5 Systems
- Multipoint: 3 Intermediate Points (With Exponential Function)
- Throttle Hold: With Auto Cut
- Gyro Sensitivity Setting: Sensitivity Maximum 6 Systems/ Tail Lock Gain Maximum 6 Systems with Gyro Gain Delay (When Using G7000T)
- Mix → Throttle
- Swash Type: 6 Types (Supporting 140°)
- Governor Setting: Each F.M.
- Flight Mode Delay

Sub Information Screen

The Sub Information Screen was first established in the DSX11. In addition to the timer display, battery voltage display, and the enlarged display of the Flight Mode switch position, the throttle stick position and each of the throttle and pitch output values are shown.



※The screen shows an example in Helicopter Mode

Type Selection Function

This is a 3-in-1 trinity system transmitter that incorporates all helicopter, airplane, and glider programs. In addition to the 30 model memory, data management using an SD card is also possible.



※SD cards can be purchased separately. Model data stored on an SD card can be used by copying the data to empty models in the DSX11/11X ZERO transmitter.

DSX11

System: DSM2/Computer Mixing
Channels: 11
Weight: 860g (Excluding battery)

DSM2 2.4GHz 2.4GHz Dedicated Model



DSX9II

Realization of Unmatched Reliability
and Further Evolution.

Basic Functions

- Servo Reverse
- Left/Right Control Surface Travel Adjustment
- Dual Rate & Exponential: 2 Selections, 3 Systems
 - Sub Trim
 - Advanced Digital Trim: Each F.M.
 - Program Mixing: 6 Systems/Inside Curve Mixing: 2 Systems Fixed 7 Points
 - Trim Step
 - Auto Dual Rate
 - Stick Spring Adjustment
 - Trainer Jack
- Model Switching: Copying: 50 Models
- Model Names: Maximum 8 Characters
 - Data Reset
 - Various Types of Alarms and Timers
 - Servo Monitoring
- Trainer System: 2 Types Selection Possible
- Type Switching: 3 Types Selection Possible
 - Data Transfer
 - Device Selection
 - LCD with Backlight

Helicopter Functions

- Flight Mode: Maximum 6 Systems
- Throttle Curve: 5 Systems: 7 Fixed Points
 - Throttle Idling Trim
 - Throttle Cut
 - Gear Switch
- Gyro Sensitivity Adjustment: With Auto
 - Governor Function
 - Revolution Mix: 2 Systems
 - Throttle Hold: With Auto Cut
 - Mixing Throttle
- Pitch Curve: 6 Systems: 7 Fixed Points
 - Limit Stroke Trim
 - Pitch Trim
- Swash Type: 6 Types (Supporting 140°)
- Timer Function with Throttle Timer Start Up

Airplane Functions

- Flight Mode: 3 Systems
- Throttle Curve: 2 Systems 7 Fixed Points
- Throttle Idling Trim
- Throttle Cut
- Gyro Sensitivity Adjustment: 2 Systems with Auto
- Gear Switch
- ELEV→FLAP Mixing: 2 Systems
- AILE→RUDD Mixing: 2 Systems
- Flap System
- Wing Type Settings
- Twin Engine Mixing
- Snap Roll: 4 Systems
- Servo Speed: 2 Systems
- Timer Function with Throttle Timer Start Up

Glider Functions

- Flight Mode: Maximum 5 Systems
- AILE→RUDD Mixing: 5 Systems
- AILE→FLAP Mixing: 2 Systems
- ELEV→FLAP Mixing: 2 Systems
- Flaperon Mixing: 5 Systems
- Flaperon Trim
- Flap Trim
- Dual Flap
- Differential: 5 Systems
- Flap Rate: 5 Systems
- Wing Type Settings
- Butterfly Mixing
- Flight Mode Delay
- Motor Hold
- Timer Functions: 2 Systems

※Each F.M.: Each Flight Mode



A large, easy-to-read LCD panel with high-brightness backlight is utilized, and the visibility of the LCD screen outdoors in bright daylight has been improved. Further, the easy-to-understand graphical display of various functions and their settings also contributes to improved operation.



DSX9II

System: DSM2/Computer Mixing
Channels: 9
Weight: 830g (Excluding battery)

DSM2 2.4GHz 2.4GHz Dedicated Model



The jog dial combines the selection and enter key enabling swift access and editing of the multiple functions operated by the 32-bit chip. Together with the three-dimensional body form, this also enables stress-free control during flight.



The bind button on the rear face of the unit is also used during range checking. The built-in LED lights up green on the rear face undertaking the roles of both the pilot lamp and RF lamp to indicate radio wave transmission.

3 Axis Gyro System for Flybarless Helicopters

FBL7
FLYBARLESS SYSTEM

Introduction to
Flybarless Helicopters

Go to page 30!

There is no doubt you will feel the difference
when you fly our Flybarless systems.

Our new "TAGS01" is the ultimate 3 Axis Gyro System, developed on our accumulated know-how over many years. Our FAI F3C World Championship consecutive titles proves our development skill with RC Model Helicopters. Combining our new 3 Axis Gyro and new technology helicopter has resulted in a brand new cutting edge Flybarless Helicopter.

User friendly 3 Axis Gyro System

Essential settings can be done on the Main unit using dials and switches. Intuitive operation allows easy setup when compared to other complicated 3 axis gyro systems.



3 Axis Gyro system for Flybarless Helicopter

TAGS01

Direct setting method

- Gyro Control Unit [TAGS01-A] ● Dimensions (mm)/Weight (g) : 6×22.5×26.5/20
- Gyro Sensor Unit [TAGS01-S] ● Dimensions (mm)/Weight (g) : φ27×10/14
- Occupied Channel on receive: 4ch~7ch
- Voltage Range: 4.5V-8.5V

●No.02553

◀Recommended for 3D flying▶

- Swash type selection switch ●Swash MIX scan ●Reverse SW: For each control ●Gain Adjust: For each control ●Remote Gain: Maximum 3 systems
- Sensor extension cable included ●100mm Lead Harness included

◀Recommended Servos▶

[90 class equivalent] For Swash Use: FBL-DS01/DS8915/DS8355/DS8325/DS8305 For Rudder Use: MP80G/DS8900G/MP82GWV
[50 class equivalent] For Swash Use: FBL-DS01/DS8915/DS8355/DS8325/DS8305 For Rudder Use: MP80G/DS8900G/DS8400G/MP82GWV
[500 class equivalent] For Swash Use: FBL-DS11/MP30S/MP307/MP30G/DS3500G For Rudder Use: MP30G/DS3500G

Features

MEMS Sensor

MEMS sensors are employed on each of the three axes which enables a broad sensing area. Even with high speed, high volume input, the sensors can respond with smooth operation and are not saturated.

Digital filtering

A High speed 32 bit CPU performs flawlessly, using digital signal processing to filter out vibration and providing accurate data which enables smooth and stable flight performance.

Swash Mixing Scan function

By using a calibration function, the type of eCCPM mixing is automatically detected. The unit is compatible with One servo normal mCCPM, 3 servo 120 degree and 3 servo 140 (135) degree swash types.



- Gain monitor : Confirmation of Gain signal from the transmitter
- Dead band setting: Set the dead band on sensors
- System update: TAGS01 Software version update
- System reset : System initialization

Application software for TAGS01 only



※The G-Tune software can be downloaded free of charge from our web site.

USB Interface cable for TAGS01

GTUNE-ADP

●No.02612



※Note that commonly available USB cables are not compatible with the TAGS01.
※JR cannot guarantee that this software will work on every PC even if the system requirements are satisfied.

Servos For Flybarless Helicopter

FBL-DS01

- No.02191
- Digital Servo For Flybarless Helicopter (For TAGS01 exclusive use/Recommended for 3D flying)
- Dimensions (mm)/Weight (g) : 35×21×40.5/69

4.8V Torque 12.0 Speed 0.09 6.0V Torque 15.0 Speed 0.07

Digital Metal Gears Heat Sink Case Gear Layout 5



Servo FBL-DS01 & Gyro TAGS01 Set

FBL-SWS01G

●No.02554 ●FBL-DS01×3 ●TAGS01×1

Servo FBL-DS01 Set

FBL-SWS01

●No.02192 ●FBL-DS01×3

FBL-DS11

- No.02193
- Digital Mini Servo For Flybarless Helicopter (For TAGS01 exclusive use/Recommended for 3D flying)
- Dimensions (mm)/Weight (g) : 26.5×15×33/27

4.8V Torque 2.8 Speed 0.13 6.0V Torque 3.5 Speed 0.10

Digital Metal Gears Metal Final Output Gear Gear Layout 2



Servo FBL-DS11/Gyro Servo DS3500G & Gyro TAGS01 Set

FBL-4SV02G

●No.02556 ●FBL-DS11×3 ●DS3500G ●TAGS01×1

Servo FBL-DS11 & Gyro Servo DS3500G Set

FBL-4SV02

●No.02194 ●FBL-DS11×3 ●DS3500G

Gyro systems and Servos

Super high performance, user friendly design
SGS01 Super Micro MEMS Gyro System
For use with Small size Electric Powered
Helicopters to Large scale
Gas Helicopters.
Compatible with most
Helicopters you could imagine.



Full Metal Case

- ◆ Super High performance, high resolution MEMS sensor gyro offers super smooth transition and quick response.
- ◆ Incorporates high-brightness LED indicators that are highly visible.
- ◆ Utilizes an aluminum case which is highly resistant to RF noise and vibrations. Very thin and low C.G. Design unit.

Super micro MEMS GYRO system
SGS01 ●No.02552

- Dimensions (mm)/Weight (g) : 6×22.5×26.5/13.5
- Voltage Range: 4.5V-8.5V ●Operation current: 50mA
- ※Be sure to use appropriate voltage for the rudder servo as the Gyro unit does not have a regulator function.

User friendly, JR's **New STEP SET UP** method for main unit settings with rudder stick control.

- Step1.** REVERSE: Actual stick control, right and left to define the direction. Easy to choose servo direction by LED status lit (NORM) or flash (REV).
- Step2.** L-LMT/ **Step3.** R-LMT: Adjust the amount of Pitch travel by actual stick control left & right
- Step4.** RUDD DELAY: Initial delay adjustment against stick control.
- Step5.** BOUNCE DELAY: Delay adjustment upon tail stop.

Line up for SGS01 Gyro and recommended rudder servo combo set

Linear Hall-sensing Gyro Servo MPH81G Set	SGS01-MPH81G	●No.02566
Brushless Gyro Servo MP80G Set	SGS01-MP80G	●No.02567
Digital Gyro Servo DS8900G Set	SGS01-8900G	●No.02568
Brushless Gyro Servo MP30G Set	SGS01-MP30G	●No.02569
Digital Gyro Servo DS8400G Set	SGS01-8400G	●No.02579

For Small-Sized EP Helicopters

G770T Full Metal Case

- No.02547 ●Full Metal Case Silicone Ring Gyro
- Dimensions (mm)/Weight (g) : 20×27×25.5/30
- Remote Gain Adjustment
- Servo Limiter ●Reverse Switch
- Servo Output Speed Switching ●Auto Trim



Digital Gyro Servo DS3500G Set	G770T-3500G	●No.02576
Digital Gyro Servo DS8400G Set	G770T-8400G	●No.02577
Digital Gyro Servo DS8900G Set	G770T-8900G	●No.02578
Brushless Gyro Servo MP80G Set	G770T-MP80G	●No.02578

Gyro G770T

Servos For Gyro

DS380G

- No.02186
- Sub Micro Servo for Gyro
- Dimensions (mm)/Weight (g) : 21.5×11.5×21.5/9
- 4.8V Torque 1.0 Speed 0.08

Digital



DS3500G

- No.02187
- Mini Servo for Gyro
- Dimensions (mm)/Weight (g) : 26.5×15×33/26
- 4.8V Torque 2.0 Speed 0.07

Digital BB W



DS8400G

- No.02190
- Digital Servo for Gyro
- Dimensions (mm)/Weight (g) : 34.5×19×39/49
- 4.8V Torque 3.1 Speed 0.07

Digital BB W



DS8900G

- No.02189
- Digital Servo for Gyro
- Dimensions (mm)/Weight (g) : 35×21×40.5/64
- 4.8V Torque 3.5 Speed 0.05

Digital Heat-Sink Case BB W



MP30G

- No.02292
- Brushless Mini Servo for Gyro
- Dimensions (mm)/Weight (g) : 26.5×15×33/26
- 4.8V Torque 2.7 Speed 0.07

Digital Brushless BB W



MP80G

- No.02302
- Brushless Servo for Gyro
- Dimensions (mm)/Weight (g) : 36.5×21×40.5/64
- 4.8V Torque 3.5 Speed 0.05

Digital Heat-Sink Case Brushless BB W



Ball Bearing Single Dual

Servos

New release!

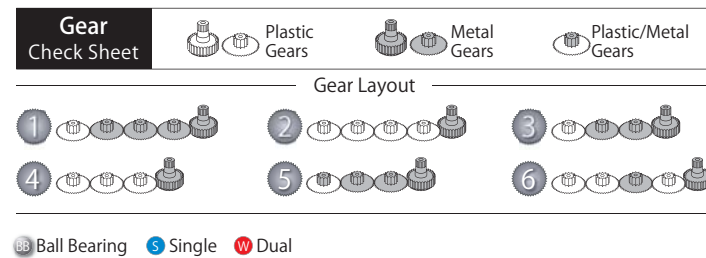
Wide Voltage · Brushless Servo series

A variety of receiver batteries are available on the model market. With certain batteries, the modeler must carefully choose appropriate servos, or use a regulator between the battery and receiver, otherwise servos may be damaged due to a high voltage supply.

Now, JR has an answer, our new Wide voltage series servo have a micro computer to detect incoming voltage and automatically set the right voltage for the motor.

These servos operate between 4.5V and 8.5V without extra devices and performs flawlessly even with voltage variance.

This assures flight performance and durability of motor life.



About Servos Manufactured by JR PROPO

- ※With the exception of products noted, all products are rated to 4.8V.
- ※If used on a large control surface - typically aileron, rudder, elevator or flap on an airplane, Digital servos (DS·MP·MPH series) may move slightly around center while on the ground. This is an expected phenomenon, and will not occur in the air.

●Operation Voltage: 4.5-8.5V ※Measured Voltage: 4.8/7.4V ※Torque (kg·cm) /Speed (sec/60°)

WV Low Profile Servos **MP91TWV**

Digital Metal Gears Heat-Sink Case 1

Slow start function BB W



- No.02404 ●Low Profile Series
- for Airplanes (High Torque Type)
- Dimensions (mm)/Weight (g) : 23×21×40.5/46
- 4.8V Torque 13.8 Speed 0.25 7.4V Torque 21.7 Speed 0.17

WV Low Profile Servos **MP91SWV**

Digital Metal Gears Heat-Sink Case 1

Slow start function BB W



- No.02405 ●Low Profile Series
- for Airplanes (High Speed Type)
- Dimensions (mm)/Weight (g) : 23×21×40.5/46
- 4.8V Torque 7.8 Speed 0.14 7.4V Torque 12.2 Speed 0.09

WV Gyro Servos **MP82GWV**

Digital Heat-Sink Case

BB W



- No.02409 ●High Power Series
- for Gyro (High Speed Type)
- Dimensions (mm)/Weight (g) : 36.5×21×40.5/64
- 4.8V Torque 2.7 Speed 0.07 7.4V Torque 4.2 Speed 0.05

WV Retract Servos **MP91RWV**

Digital Metal Gears Heat-Sink Case 1

Capable servo speed BB W



- No.02406 ●Low Profile Series
- Low Profile Retract Servo
- Dimensions (mm)/Weight (g) : 23×21×40.5/64
- 4.8V Torque 13.8 Speed 0.75 7.4V Torque 21.7 Speed 0.51
- ※Speed (sec/160°)

Linear Hall Sensor with Brushless Motor

Next-Generation Linear Hall Sensing Servos released by the Pioneer in Servo

- Operation Voltage: 4.5-6.0V
- ※Measured Voltage: 4.8/6.0V
- ※Torque (kg·cm) /Speed (sec/60°)

LHS Servos **MPH81T**

Digital Metal Gears Heat-Sink Case 3

BB W



- No.02401
- for Aerobatic Aircraft/Large scale Aircraft (High Torque Type)
- Dimensions (mm)/Weight (g) : 36.5×21×40.5/73
- 4.8V Torque 25.0 Speed 0.19 6.0V Torque 31.3 Speed 0.15

LHS Servos **MPH81S**

Digital Metal Gears Heat-Sink Case 3

BB W



- No.02402
- for Aerobatic Aircraft/Large scale Aircraft (High Speed Type)
- Dimensions (mm)/Weight (g) : 36.5×21×40.5/73
- 4.8V Torque 12.0 Speed 0.09 6.0V Torque 15.0 Speed 0.07

LHS Gyro Servos **MPH81G**

Digital Heat-Sink Case

Gyro BB W



- No.02403
- for Gyro
- Dimensions (mm)/Weight (g) : 36.5×21×40.5/65
- 4.8V Torque 3.5 Speed 0.05

High Voltage Servo Series

Reliable, High Quality, Performance servos chosen by World class Pilots and modelers around the world.

HV

With a large variety in our lineup, you will find a servo suitable for every application be it aircraft or surface vehicle.

● Operation Voltage: 6.0-8.5V
※ Measured Voltage: 6.0/7.4V ※ Torque (kg·cm) / Speed (sec/60°)

HV Sub Micro Servos DS388HV



● No.02212 ● High Speed Type
● Dimensions (mm) / Weight (g) : 21.5×11.5×21.5/9
6.0V Torque 0.8 Speed 0.10 7.4V Torque 1.0 Speed 0.08

HV Sub Micro Servos DS389HV



● No.02213 ● High Speed Type
● Dimensions (mm) / Weight (g) : 21.5×11.5×21.5/12
6.0V Torque 0.8 Speed 0.10 7.4V Torque 1.0 Speed 0.08

HV Micro Servos DS339HV



● No.02156
● Dimensions (mm) / Weight (g) : 29×11×30/22
6.0V Torque 3.5 Speed 0.20 7.4V Torque 4.3 Speed 0.16

HV Wing Servos DS179HV



● No.02155 ● For Small-Sized Wings
● Dimensions (mm) / Weight (g) : 29×11×30/22
6.0V Torque 3.5 Speed 0.20 7.4V Torque 4.3 Speed 0.16

HV Servos DS588HV



● No.02217
● Dimensions (mm) / Weight (g) : 35.5×19×38.5/42
6.0V Torque 4.2 Speed 0.26 7.4V Torque 5.2 Speed 0.21

HV Servos DS8411HV



● No.02218
● For Aerobatic Aircraft/Large scale Aircraft (High Torque Type)
● Dimensions (mm) / Weight (g) : 34.5×19×39/60
6.0V Torque 14.2 Speed 0.19 7.4V Torque 17.2 Speed 0.15

HV Servos DS6311HV



● No.02205
● For Aerobatic Aircraft/Large scale Aircraft (High Torque Type)
● Dimensions (mm) / Weight (g) : 38×21×40.5/80
6.0V Torque 29.6 Speed 0.16 7.4V Torque 36.5 Speed 0.13

HV Servos DS6315HV



● No.02206
● For Aerobatic Aircraft/Large scale Aircraft (High Speed Type)
● Dimensions (mm) / Weight (g) : 38×21×40.5/80
6.0V Torque 14.4 Speed 0.07 7.4V Torque 17.8 Speed 0.06

HV Sub Micro Servos DS319HV



● No.02216
● Dimensions (mm) / Weight (g) : 20×11.5×21/6
6.0V Torque 0.6 Speed 0.10 7.4V Torque 0.7 Speed 0.08

HV Sub Micro Servos DS387HV



● No.02211
● Dimensions (mm) / Weight (g) : 21.5×11.5×21.5/12
6.0V Torque 1.6 Speed 0.20 7.4V Torque 2.0 Speed 0.16

HV Mini Servos DS3421HV



● No.02157 ● Torque Type
● Dimensions (mm) / Weight (g) : 26.5×15×33/30
6.0V Torque 5.3 Speed 0.20 7.4V Torque 6.6 Speed 0.16

HV Mini Servos DS3425HV



● No.02158 ● Speed Type
● Dimensions (mm) / Weight (g) : 26.5×15×33/30
6.0V Torque 3.5 Speed 0.14 7.4V Torque 4.3 Speed 0.11

HV Low Profile Servos DS9521HV



● No.02223 ● Torque Type
● Dimensions (mm) / Weight (g) : 25.5×19×40.5/43
6.0V Torque 6.1 Speed 0.19 7.4V Torque 7.6 Speed 0.15

HV Low Profile Servos DS9525HV



● No.02224 ● Speed Type
● Dimensions (mm) / Weight (g) : 25.5×19×40.5/43
6.0V Torque 4.0 Speed 0.12 7.4V Torque 5.0 Speed 0.10

Brushless Mini Servos MP30T



● No.02290
● Brushless Mini Servo (Torque Type)
● Dimensions (mm) / Weight (g) : 26.5×15×33/30
4.8V Torque 4.7 Speed 0.19 6.0V Torque 5.9 Speed 0.15

Brushless Mini Servos MP30S



● No.02291
● Brushless Mini Servo (Speed Type)
● Dimensions (mm) / Weight (g) : 26.5×15×33/30
4.8V Torque 3.1 Speed 0.13 6.0V Torque 3.9 Speed 0.10

Brushless Servos MP70



● No.02300
● For Helicopters in competition use
● Dimensions (mm) / Weight (g) : 35.5×19×39/49
4.8V Torque 9.6 Speed 0.15 6.0V Torque 12.0 Speed 0.12

Brushless Servos MP70A



● No.02301
● For Helicopters in competition use
● Dimensions (mm) / Weight (g) : 35.5×19×39/55
4.8V Torque 9.6 Speed 0.15 6.0V Torque 12.0 Speed 0.12

Brushless Servos MP80T



● No.02303
● for Aerobatic Aircraft/Large scale Aircraft (High Torque Type)
● Dimensions (mm) / Weight (g) : 36.5×21×40.5/69
4.8V Torque 25.0 Speed 0.19 6.0V Torque 31.3 Speed 0.15

Brushless Servos MP80S



● No.02304
● for Aerobatic Aircraft/Large scale Aircraft (High Speed Type)
● Dimensions (mm) / Weight (g) : 36.5×21×40.5/69
4.8V Torque 12.0 Speed 0.09 6.0V Torque 15.0 Speed 0.07

Sub Micro Servos ES316



● No.02018 ● Ultra Miniature 6g Type
For Miniature Electrically-Powered Light Planes
● Dimensions (mm) / Weight (g) : 20×11.5×21/6
4.8V Torque 0.7 Speed 0.08

Sub Micro Servos ES375



● No.02013 ● Ultra Miniature 9g Type
For Miniature Electrically-Powered Light Planes
● Dimensions (mm) / Weight (g) : 21.5×11.5×21.5/9
4.8V Torque 2.0 Speed 0.16

Sub Micro Servos ES376



● No.02017 ● Ultra Miniature 11.5g Type
For Miniature Electrically-Powered Light Planes
● Dimensions (mm) / Weight (g) : 21.5×11.5×21.5/11.5
4.8V Torque 2.0 Speed 0.16

Sub Micro Servos DS318



● No.02140 ● Ultra Miniature 6g Type
For Miniature Electrically-Powered Light Planes
● Dimensions (mm) / Weight (g) : 19.8×11.2×21/6
4.8V Torque 0.7 Speed 0.08

Sub Micro Servos DS385



● No.02137 ● Ultra Miniature 9g Type
For Miniature Electrically-Powered Light Planes
● Dimensions (mm) / Weight (g) : 21.5×11.5×21.5/9
4.8V Torque 2.0 Speed 0.16

Sub Micro Servos DS386



● No.02141 ● Ultra Miniature 12g Type
For Miniature Electrically-Powered Light Planes
● Dimensions (mm) / Weight (g) : 21.5×11.5×21.5/12
4.8V Torque 2.0 Speed 0.16

Micro Servos NES-341



● No.02020 ● For Miniature Airplanes and Gliders
● Dimensions (mm) / Weight (g) : 30×13×28.5/18
4.8V Torque 2.3 Speed 0.24

Micro Servos DS362



● No.02136 ● For Miniature Airplanes and Gliders
● Dimensions (mm) / Weight (g) : 30×13×30.7/24
4.8V Torque 3.8 Speed 0.24

Micro Servos DS331



● No.02154 ● For Miniature Airplanes and Gliders
● Dimensions (mm) / Weight (g) : 29×11×30/22
4.8V Torque 4.3 Speed 0.16

Wing Servos DS171



● No.02151 ● Miniature Wing Servo
● Dimensions (mm) / Weight (g) : 29×11×30/22
4.8V Torque 4.3 Speed 0.16

Mini Servos NES-321



● No.02021 ● For Miniature Helicopters and Airplanes
● Dimensions (mm) / Weight (g) : 26×15×33/22
4.8V Torque 2.3 Speed 0.23

Mini Servos DS3401



● No.02133 ● For Airplanes/All-Purpose
● Dimensions (mm) / Weight (g) : 26.5×15×33/30
4.8V Torque 4.3 Speed 0.19

Mini Servos DS3405



● No.02138 ● For Miniature Airplanes and Gliders
● Dimensions (mm) / Weight (g) : 26.5×15×33/30
4.8V Torque 2.8 Speed 0.13

About Servos Manufactured by JR PROPO

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※ If used on a large control surface - typically aileron, rudder, elevator or flap on an airplane, Digital servos (DS-MP-MPH series) may move slightly around center while on the ground. This is an expected phenomenon, and will not occur in the air.

※ Torque (kg·cm) / Speed (sec/60°)

Standard Servos ES519

[Analog]



●No.02012 ●Popular Type Servo
●Dimensions (mm)/Weight (g) : 32.5×19×38.5/44
4.8V Torque 3.3 Speed 0.23

Standard Servos ES539

[Analog]

BB S



●No.02014 ●Popular Type High Neutral Servo
●Dimensions (mm)/Weight (g) : 32.5×19×38.5/38
4.8V Torque 4.8 Speed 0.23

Standard Servos ES579

[Analog]

BB S



●No.02015 ●High Torque Servo
●Dimensions (mm)/Weight (g) : 32.5×19×38.5/48
4.8V Torque 8.3 Speed 0.23 6.0V Torque 9.5 Speed 0.19

Standard Servos DS589

[Digital]

BB S



●No.02121 ●Popular Type Digital Servo
●Dimensions (mm)/Weight (g) : 35.5×19×38.5/42
4.8V Torque 5.2 Speed 0.21

Low Profile Servos DS9421

[Digital]

BB W



●No.02139
●for Airplanes/All-Purpose
●Dimensions (mm)/Weight (g) : 26.5×19×36/38
4.8V Torque 5.0 Speed 0.17

Low Profile Servos DS9511

[Digital]

BB W



●No.02152
●for Airplanes/All-Purpose (Torque Type)
●Dimensions (mm)/Weight (g) : 25.5×19×40.5/43
4.8V Torque 6.2 Speed 0.17

Low Profile Servos DS9515

[Digital]

BB W



●No.02153
●for Airplanes/All-Purpose (Speed Type)
●Dimensions (mm)/Weight (g) : 25.5×19×40.5/43
4.8V Torque 4.0 Speed 0.12

Retract Servos NES-713

[Analog]

BB W



●No.02072
●Low Profile Retract Servo
●Dimensions (mm)/Weight (g) : 26×22.5×44/45
4.8V Torque 8.0 Speed 1.55
※Speed(sec/160°)

Standard Servos DS599

[Digital]

BB S



●No.02123 ●Popular Type Digital Servo
●Dimensions (mm)/Weight (g) : 35.5×19×38.5/45
4.8V Torque 5.2 Speed 0.21

Standard Servos DS831

[Digital]

BB S



●No.02125 ●Popular Type Digital Servo
●Dimensions (mm)/Weight (g) : 34.5×19×39/44
4.8V Torque 6.0 Speed 0.15

High Spec Servos DS8401

[Digital]

BB W



●No.02109
●for Aerobatic Airplanes in competition use
●Dimensions (mm)/Weight (g) : 34.5×19×39/49
4.8V Torque 11.0 Speed 0.19

High Spec Servos DS8421

[Digital]

BB W



●No.02112
●for Aerobatic Airplanes in competition use
●Dimensions (mm)/Weight (g) : 34.5×19×39/55
4.8V Torque 11.0 Speed 0.19

High Spec Servos DS8425

[Digital]

BB W



●No.02107
●for Cars (High Torque Type)
●Dimensions (mm)/Weight (g) : 34.5×19×39/60
4.8V Torque 11.0 Speed 0.19 6.0V Torque 13.0 Speed 0.15

High Spec Servos DS8455

[Digital]

BB W



●No.02108
●for Cars (High Speed Type)
●Dimensions (mm)/Weight (g) : 34.5×19×39/60
4.8V Torque 6.5 Speed 0.10 6.0V Torque 7.5 Speed 0.08

High Spec Servos DS8305

[Digital]

BB W



●No.02122
●for Helicopters in competition use
●Dimensions (mm)/Weight (g) : 34.5×19×39/49
4.8V Torque 9.6 Speed 0.15

High Spec Servos DS8325

[Digital]

BB W



●No.02115
●for Helicopters in competition use
●Dimensions (mm)/Weight (g) : 34.5×19×39/55
4.8V Torque 9.6 Speed 0.15

High Spec Servos DS8355

[Digital]

BB W



●No.02124
●for Helicopters in competition use (High Speed Type)
●Dimensions (mm)/Weight (g) : 34.5×19×39/49
4.8V Torque 6.2 Speed 0.09

High Power Servos DS8511

[Digital]

BB W



●No.02111
●for Aerobatic Aircraft/Large scale Aircraft
●Dimensions (mm)/Weight (g) : 35×21×40.5/66
4.8V Torque 15.0 Speed 0.19

High Power Servos DS8711

[Digital]

BB W



●No.02113
●for Aerobatic Aircraft/Large scale Aircraft (High Torque Type)
●Dimensions (mm)/Weight (g) : 35×21×40.5/66
4.8V Torque 25.0 Speed 0.19

High Power Servos DS8715

[Digital]

BB W



●No.02114
●for Aerobatic Aircraft/Large scale Aircraft (High Speed Type)
●Dimensions (mm)/Weight (g) : 35×21×40.5/66
4.8V Torque 12.0 Speed 0.09

High Power Servos DS8911

[Digital]

BB W



●No.02116
●for Aerobatic Aircraft/Large scale Aircraft (High Torque Type)
●Dimensions (mm)/Weight (g) : 35×21×40.5/69
4.8V Torque 25.0 Speed 0.19

High Power Servos DS8915

[Digital]

BB W



●No.02117
●for Aerobatic Aircraft/Large scale Aircraft (High Speed Type)
●Dimensions (mm)/Weight (g) : 35×21×40.5/69
4.8V Torque 12.0 Speed 0.09

High Power Servos DS6301

[Digital]

BB W



●No.02203
●for Aerobatic Aircraft/Large scale Aircraft (High Torque Type)
●Dimensions (mm)/Weight (g) : 38.5×21×40.5/80
4.8V Torque 33.0 Speed 0.17

High Power Servos DS6305

[Digital]

BB W

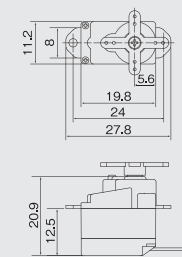


●No.02204
●for Aerobatic Aircraft/Large scale Aircraft (High Speed Type)
●Dimensions (mm)/Weight (g) : 38.5×21×40.5/80
4.8V Torque 12.0 Speed 0.08

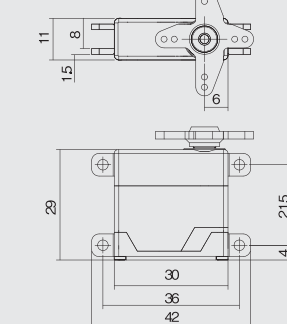
Servo Dimensions

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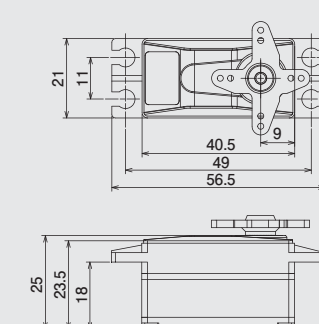
ES316 • DS318 • DS319HV



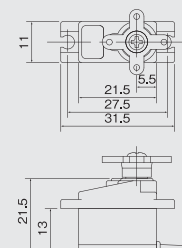
DS171 • DS179HV



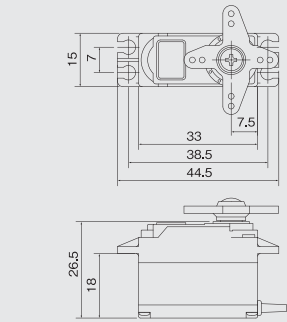
MP91TWV • MP91SWV • MP91RWV



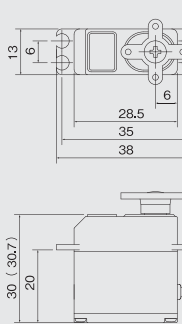
ES375 • ES376 • DS385 • DS386
DS380G • DS387HV • DS388HV
DS389HV



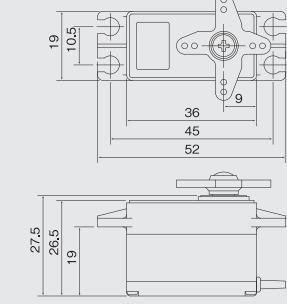
NES-321 • DS3401 • DS3405 • DS3500G
DS3421HV • DS3425HV • MP30S
MP30T • MP30G • FBL-DS11



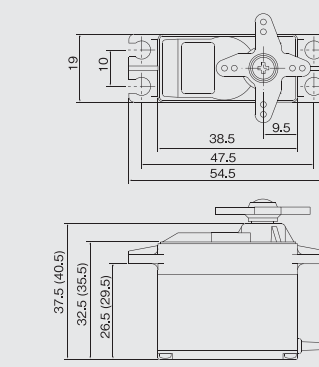
NES-341 • (DS362)



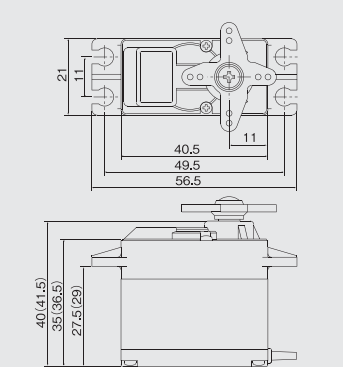
DS9421



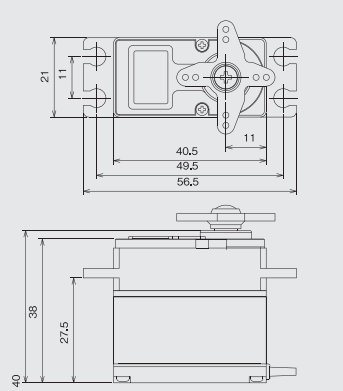
ES519 • ES539 • ES579 • (DS589) • (DS599)
(DS588HV)



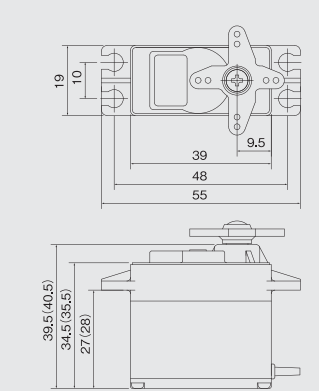
DS8511 • DS8711 • DS8715 • DS8900G
DS8911 • DS8915 • DS8921HV • DS8925HV
FBL-DS01 • (MP80T) • (MP80S) • (MP80G)
(MPH81T) • (MPH81S) • (MPH81G)
(MP82TWV) • (MP82SWV) • (MP82GWV)



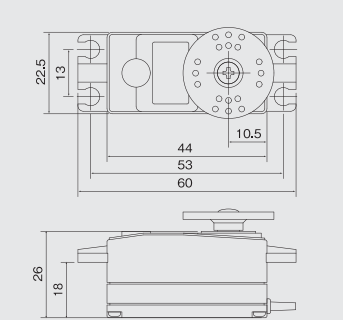
DS6301 • DS6305 • DS6311HV
DS6315HV • DS6321HV • DS6325HV



DS831 • DS8305 • DS8325 • DS8355 • DS8400G
DS8401 • DS8421 • DS8425 • DS8455
DS8411HV • (MP70) • (MP70A)



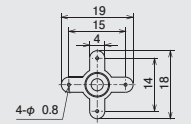
NES-713



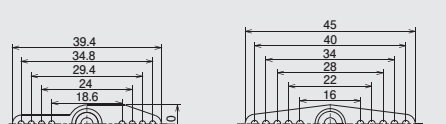
※Torque (kg·cm)/Speed (sec/60°)

Servo Horn List

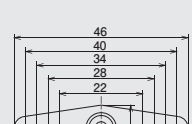
※Dimension diagrams are represented 50% reduced.



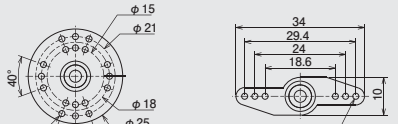
Horn Set Mini (Each 8 Items)
●No.05011



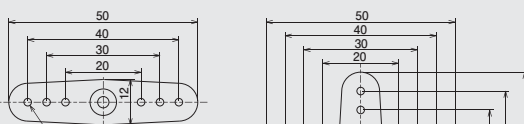
Big Horn Set ●No.05012



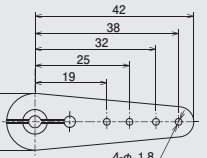
Super Horn Set (5 Items Included) ●No.05015



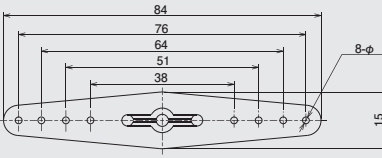
Horn Set
(General Use)
●No.05013



DH Horn Set
(Strengthened Type)
●No.05016



Aluminum Servo Horn A
(Clamping System/ With Screws and Wrench)
●No.05022



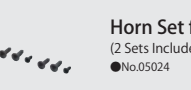
Aluminum Servo Horn B
(Clamping System/ With Screws and Wrench)
●No.05023



Mounting Example



Dedicated Servo Horns



Horn Set for 316
(2 Sets Included)
●No.05024

Servo Cases

- For 161
- For 171, 179HV
- For 331, 339HV
- For 306
- For 316, 318, 319HV
- For 371, 375, 376, 381, 382, 385, 386, 380G,387HV, 388HV, 389HV
- For 341, 351, 361
- For 362
- For 321, 3121, 3125, 3201, 3401, 3405, 3500G, 30T, 30S, 30G, 3421HV, 3425HV
- For 3321, 3301
- For 519, 539, 559, 579
- For 588HV, 589, 599

B Gears (Single Item)

- B2 Plastic Gear for 8455
- B3 Plastic Gear for 8700G
- B5 Gear for 8511, 8711, 8911, 8921HV, 8925HV, 6301, 6305, 6311HV, 6315HV, 6321HV, 6325HV, 80S, 80T
- B6 Gear for 8425, 8715, 8915

Servo Gear Sets (Metar Gear Set)

- For 161/ Metal Gear set
- For 171, 331, 179HV, 339HV/ Metal Gear set with Ball Bearings
- For 376, 382, 386, 387HV, 389HV/ Metal Gear set
- For 362/ Metal Gear set with Ball Bearings
- 3401, 30T/ 3421HV/ Metal Gear set with Ball Bearings
- 3405, 30S/ 3425HV/ Metal Gear set with Ball Bearings
- For 9421/ Metal Gear set with Ball Bearings
- For 9401/ Metal Gear set with Ball Bearings
- For 9501, 9511/ Metal Gear set with Ball Bearings

- For 511, 507, 517, 513
- For 811, 831, 810G, 820G
- For 911, 9011, 9301, 9401, 9421
- For 9501, 9505
- For 9511, 9515, 9521HV, 9525HV
- For 7100, 7300, 713
- For 703, 7005
- For 8201, 8301, 8305, 8325, 8355, 8401, 8421, 70/A
- For 8400G with Metal
- For 8425, 8455, and 8700G with Metal
- For 8511, 8711,
- For 8715 with Metal
- For 8900G, and 8911, 8921HV, 8925HV, MP80T/S/G, MPH81T/S/G, MP82T/S/GWV
- For 8915 (Heat Sink Case)
- For MP91T/S/GWV (Heat Sink Case)

Metal Servo Cases

- Metal Upper Case A (6301, 6305)
- Metal Upper Case B (HV Series)
- Metal Gear Base A (6301, 6305)
- Metal Gear Base B (HV Series)
- Metal lower Case A (6301, 6305)
- Metal lower Case B (HV Series)
- Heat Sink Case A (8900G, 8911, 8915)
- Heat Sink Case B (With JR Logo)
- Heat Sink Case C (With Brushless Logo)
- Heat Sink Case HV (With HV Logo)
- Metal Case Set 6301
- Metal Case Set 6311

Servo Gear Sets

- For 306
- For 316, 318
- For 371, 375, 381, 385
- For 380G, 388HV
- For 341
- For 321, 3021, 3121, 3201
- For 3025, 3125, 3035
- For 3500G, 30G
- For 3321, 3301
- For 519, 539
- For 589
- For 511, 507, 517
- For 911, 9011, 9301
- For 811, 831, 8201, 8301, 8305, 8401, 70 (2 Sets)
- For 8105, 8355 (2 Sets)
- For 8400G
- For 8900G, MP80G, MPH81G, MP82GWV
- For 7000, 7005

Servo Specifications

Product type	Servo number	Torque (kg·cm)	Speed (sec/60°)	dimensions (H×W×D/mm)	Weight (g)	Ball Bearing	feature
Analog Servo Specifications	ES316	0.7	0.08	20×11.5×21	6		Ultra Miniature 6g Type/For Miniature Electrically-Powered Light Planes
	ES375	2.0	0.16		9		Ultra Miniature 9g Type/For Miniature Electrically-Powered Light Planes
	ES376	2.0	0.16	21.5×11.5×21.5	11.5		Ultra Miniature 11.5g Type/For Miniature Electrically-Powered Light Planes
	NES-341	2.3	0.24	30×13×28.5	18		For Miniature Airplanes and Gliders
	NES-321	2.3	0.23	26×15×33	22	S	For Miniature Helicopters and Airplanes
	ES519	3.3	0.23		44		Popular Type Servo
	ES539	4.8	0.23	32.5×19×38.5	38		Popular Type High Neutral Servo
	ES579	9.5 (6.0V)/8.3 (4.8V)	0.19 (6.0V)/0.23 (4.8V)		48	S	Metal Gear/High Torque Servo

※Measured Voltage (4.8V)

Digital FET Servo Specifications	DS318	0.7	0.08	20×11.5×21	6		Ultra Miniature 6g Type/For Miniature Electrically-Powered Light Planes
	DS385	2.0	0.16		9		Ultra Miniature 9g Type/For Miniature Electrically-Powered Light Planes
	DS386	2.0	0.16	21.5×11.5×21.5	12		Ultra Miniature 12g Type/For Miniature Electrically-Powered Light Planes
	DS362	3.8	0.24	30×13×30.7	24	S	For Miniature Airplanes and Gliders
	DS171	4.3	0.16				Miniature Wing Servo
	DS331	4.3	0.16	29×11×30	22		For Miniature Airplanes and Gliders
	DS3401	4.3	0.19				For Airplanes/All-Purpose
	DS3405	2.8	0.13				For Miniature Airplanes and Gliders
	DS9421	5.0	0.17	26.5×19×36	38		For Airplanes/All-Purpose
	DS9511	6.2	0.17				For Airplanes/All-Purpose (Torque Type)
	DS9515	4.0	0.12				For Airplanes/All-Purpose (Speed Type)
	DS589	5.2	0.21		42		Popular Type Digital Servo
	DS599	5.2	0.21	35.5×19×38.5	45	S	Popular Type Digital Servo
	DS831	6.0	0.15		44		Popular Type Digital Servo
	DS8305	9.6	0.15		49		For Helicopters in competition use.
	DS8325	9.6	0.15		55		For Helicopters in competition use.
	DS8355	6.2	0.09		49		For Helicopters in competition use. (High Speed Type)
	DS8401	11.0	0.19				For Aerobatic Airplanes in competition use.
	DS8421	11.0	0.19		55		For Aerobatic Airplanes in competition use.
	DS8425	13.0 (6.0V)/11.0 (4.8V)	0.15 (6.0V)/0.19 (4.8V)		60		For Cars (High Torque Type)
	DS8455	7.3 (6.0V)/6.5 (4.8V)	0.08 (6.0V)/0.10 (4.8V)				For Cars (High Speed Type)
	DS8511	15.0	0.19				For Aerobatic Aircraft/Large scale Aircraft
	DS8711	25.0	0.19		66		For Aerobatic Aircraft/Large scale Aircraft (High Torque Type)
	DS8715	12.0	0.09				For Aerobatic Aircraft/Large scale Aircraft (High Speed Type)
	DS8911	25.0	0.19		69		For Aerobatic Aircraft/Large scale Aircraft (High Torque Type) Heat Sink Cace
	DS8915	12.0	0.09				For Aerobatic Aircraft/Large scale Aircraft (High Speed Type) Heat Sink Cace
	DS6301	33.0	0.17				For Aerobatic Aircraft/Large scale Aircraft (High Torque Type) Full Metal Case
	DS6305	12.0	0.08	38.5×21×40.5	80		For Aerobatic Aircraft/Large scale Aircraft (High Speed Type) Full Metal Case

※Measured Voltage (4.8V)

High Voltage Servo Specifications	DS319HV	0.6/0.7	0.10/0.08	20×11.5×21	6		High Voltage Sub Micro Servo
	DS179HV						High Voltage Servo for Small-Sized Wings
	DS339HV	3.5/4.3	0.20/0.16	29×11×30	22	W	High Voltage Micro Servo
	DS387HV	1.6/2.0	0.20/0.16		12		High Voltage Sub Micro Servo
	DS388HV	0.8/1.0	0.10/0.08	21.5×11.5×21.5	9		High Voltage Sub Micro Servo (High Speed Type)
	DS389HV				12		High Voltage Sub Micro Servo (High Speed Type)
	DS588HV	4.2/5.2	0.26/0.21	35.5×19×38.5	42	S	High Voltage Servo
	DS3421HV	5.3/6.6	0.20/0.16				High Voltage Mini Servo (Torque Type)
	DS3425HV	3.5/4.3	0.14/0.11				High Voltage Mini Servo (Speed Type)
	DS9521HV	6.1/7.6	0.19/0.15				High Voltage Low Profile Servo (Torque Type)
	DS9525HV	4.0/5.0	0.12/0.10	25.5×19×40.5	43		High Voltage Low Profile Servo (Speed Type)
	DS8411HV	14.0/17.2	0.19/0.15				For Aerobatic Aircraft/Large scale Aircraft (High Torque Type)
	DS8921HV	29.6/36.5	0.16/0.13	34.5×19×39	60		For Aerobatic Aircraft/Large scale Aircraft (High Torque Type) Heat Sink Cace
	DS8925HV	14.4/17.8	0.07/0.06				For Aerobatic Aircraft/Large scale Aircraft (High Speed Type) Heat Sink Cace
	DS6311HV	29.6/36.5	0.16/0.13				For Aerobatic Aircraft/Large scale Aircraft (High Torque Type) Full Metal Case
	DS6315HV	14.4/17.8	0.07/0.06				For Aerobatic Aircraft/Large scale Aircraft (High Speed Type) Full Metal Case
	DS6321HV	29.6/36.5	0.16/0.13	38×21×40.5	80		For Cars (High Torque Type) (Short Cable) Full Metal Case
	DS6325HV	14.4/17.8	0.07/0.06				For Cars (High Speed Type) (Short Cable) Full Metal Case

※Measured Voltage (6.0/7.4V) ●Operation Voltage : 6.0-8.5V

Wide Voltage Servo Specifications	MP82TWV	26.3/40.6	0.19/0.13				For Aerobatic Airplanes in competition use. (High Torque Type)
	MP82SWV	12.8/19.8	0.09/0.06	36.5×21×40.5	72	W	For Aerobatic Airplanes in competition use. (High Speed Type)
	MP91TWV	13.8/21.7	0.25/0.17				For Airplanes (High Torque Type)
	MP91SWV	7.8/12.2	0.14/0.09	23×21×40.5	46		For Airplanes (High Speed Type)

※Measured Voltage (4.8/7.4V) ●Operation Voltage : 4.5-8.5V

Brushless Servo Specifications	MP30T	4.7/5.9	0.19/0.15				Brushless Mini Servo (Torque Type)
	MP30S	3.1/3.9	0.13/0.10	26.5×15×33	30		Brushless Mini Servo (Speed Type)
	MP70	9.6/12.0	0.15/0.12				For Helicopters in competition use.
	MP70A	9.6/12.0	0.15/0.12	35.5×19×39	49	W	For Helicopters in competition use.
	MP80T	25.0/31.3	0.19/0.15				For Aerobatic Aircraft/Large scale Aircraft (High Torque Type) Heat Sink Cace
	MP80S	12.0/15.0	0.09/0.07	36.5×21×40.5	69		For Aerobatic Aircraft/Large scale Aircraft (High Speed Type) Heat Sink Cace

※Measured Voltage (4.8/6.0V) ●Operation Voltage : 4.5-6.0V

Linear Hall Sensing Servo Specifications	MPH81T	25.0/31.3	0.19/0.15				For Aerobatic Aircraft/Large scale Aircraft (High Torque Type) Heat Sink Cace
	MPH81S	12.0/15.0	0.09/0.07	36.5×21×40.5	73	W	For Aerobatic Aircraft/Large scale Aircraft (High Speed Type) Heat Sink Cace

※Measured Voltage (4.8/6.0V) ●Operation Voltage : 4.5-6.0V

Servo For Flybarless Helicopter Specifications	FBL-DS01	12.0/15.0	0.09/0.07	35×21×40.5	69		Digital Servo For Flybarless Helicopter (For TAGS01 exclusive use/Recommended 3D Flight)
	FBL-DS11	2.8/3.5	0.13/0.10	26.5×15×33	27	W	Digital Mini Servo For Flybarless Helicopter (For TAGS01 exclusive use/Recommended 3D Flight)

※Measured Voltage (4.8/6.0V) ●Operation Voltage : 4.5-6.0V

Servos For Gyro Specifications	DS380G	1.0	0.08	21.5×11.5×21.5	9		Sub Micro Servo for Gyro
	DS3500G	2.0	0.07	26.5×15×33	26		Mini Servo for Gyro
	DS8400G	3.1	0.07	34.5×19×39	49		Digital Servo for Gyro
	DS8900G	3.5	0.05	35×21×40.5	64		Digital Servo for Gyro
	MP30G	2.7	0.07	26.5×15×33	26	W	Brushless Mini Servo for Gyro
	MP80G	3.5	0.05				Brushless Servo for Gyro
	MP82GWV	4.2 (7.4V)/2.7 (4.8V)	0.05 (7.4V)/0.07 (4.8V)	36.5×21×40.5	64		Wide Voltage Servo For Gyro (High Speed Type)
	MPH81G	3.5	0.05		65		Linear Hall Sensing Digital Servo for Gyro (Heat Sink Cace)

※Measured Voltage (4.8V)

Low Profile Retract Servo Specifications	NES-713	8.0	1.55	26×22.5×44	45		Low Profile Retract Servo
	MP91RWV	21.7 (7.4V)/13.8 (4.8V)	0.51 (7.4V)/0.75 (4.8V)	23×21×40.5	64	W	Wide Voltage Low Profile Retract Servo

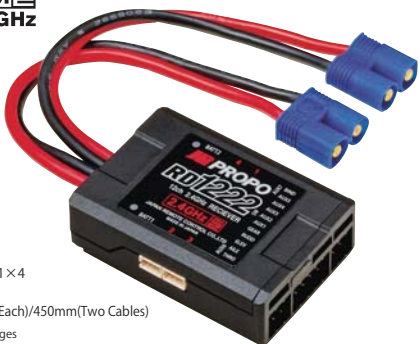
※Measured Voltage (4.8V) ●Speed (sec/160°) (Retract servo is designed for retract applications, sub trim and dual rate adjustments will not change the servo position.)

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Receiver For DSM2 2.4GHz

12-channel Receiver with Support for Dual Batteries RD1222

- Dimensions (mm)/Weight (g)
16x38x53/44
 - System: DSM2 12-channel
 - Bind Plug
 - Switch Harness E
 - Supported Transmitters
DSM2 2.4GHz Transmitters
- 
- Extra Antenna: EA101×4
 - Antenna Cable: 230mm/300mm(One Each)/450mm(Two Cables)
 - Dedicated for High Voltages
 - Supports Dual Batteries
 - Operation Voltage: 6.0-8.5V

9-channel Receiver with Support for Dual Batteries RD922

- Dimensions (mm)/Weight (g)
16x38x53/44
 - System: DSM2 9-channel
 - Bind Plug
 - Switch Harness E
 - Supported Transmitters
DSM2 2.4GHz Transmitters
- 
- Extra Antenna: EA101×3
 - Antenna Cable: 230mm/300mm/450mm (One Each)
 - Dedicated for High Voltages
 - Supports Dual Batteries
 - Operation Voltage: 6.0-8.5V

RD1222/RD922 Dedicated Soft Switch

Switch Harness E

※This harness cannot be used with receivers other than the RD1222/RD922.



Power source loss is lessened due to the use of a soft switch.

※After use, be certain to detach the battery.
※When connecting 4.8V rated servos, be certain to use the REG-01 SR Regulator.
※By connecting all of the included antennas, bind setting will become possible.

12-channel Receiver RD1221

- Dimensions (mm)/Weight (g): 16x38x53/21
 - System: DSM2 12-channel ●Bind Plug
 - Supported Transmitters: DSM2 2.4GHz Transmitters
- 
- Extra Antenna: EA101×3 ●Antenna Cable: 230mm/300mm/450mm(One Each)
 - Dedicated for High Voltages ■Supports Dual Batteries ■Operation Voltage: 6.0-8.5V

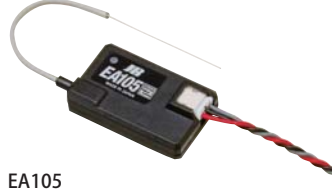
9-channel Receiver RD921

- Dimensions (mm)/Weight (g): 15x32x48/17.5
 - System: DSM2 9-channel ●Bind Plug
 - Supported Transmitters: DSM2 2.4GHz Transmitters
- 
- Extra Antenna: EA101×1 ●Antenna Cable: 230mm/300mm(One Each)
 - Dedicated for High Voltages ■Supports Dual Batteries ■Operation Voltage: 6.0-8.5V

Accessories



EA101
Extra Antenna for 2.4GHz Receiver
●Dimensions (mm)/Weight (g): 6x21x26/3.5
●Antenna Cable: 150mm (One Cable)



EA105
Extra Antenna for 2.4GHz Receiver (Coaxial Type)
●Dimensions (mm)/Weight (g): 6x18x28/4
●Antenna Cable: 150mm (One Cable)
●Antenna Part: 30mm/ Coaxial Part: 50mm



Cable
for Extra Antenna 2.4G
●150mm ●230mm ●300mm
●450mm ●600mm ●900mm



Binding Plug Set
Bind Connector
for 2.4GHz Receivers



Antenna Caps (2 Pieces)
for Transmitters

※In the situation where additional antennas are newly connected, be certain to carry out bind setting otherwise operation

Multi Box HV

Servo Multi-Controller Supporting High Voltages

Allows Connection of 4 Servos

- No.02001
 - With Servo Control Surface Angle/Reverse/Neutral Adjusting Function.
 - Support possible for separate power source.
 - Operation Voltage: 4.8V-8.5V
- 

Regulator

REG-01SR

- No.04750 ●Input Voltage: 6.0-8.5V
- Output Voltage: 5.0V ●Length: 125mm

RX → SV

Regulator for Connecting Between Receivers and Servos
※Dropper System



REG-02HL For Hand Launching

- No.04751 ●Input Voltage: 6.0-8.5V
- Output Voltage: 5.0V ●Length: 125mm

BATT → RX

Regulator for Connecting Between Receivers and Servos
※Dropper System



REG-015 2.4GHz Dedicated

- No.04755
- Dimensions (mm)/Weight (g): 52x30.5x11.8/50
- Input Voltage: 6.0-8.5V
- Output Voltage: 5.0V
- Maximum Output Current: 15.0A
- Momentary Maximum Current: 25.0A
- Supported Receivers: RD1221-RD921
- ※Not applicable for Gyro use.

BATT → RX

Regulator for Connecting Between Receivers and Servos
※Switching System

Possible to realize a stable 5V output even under sudden loading!

- Maximum Conversion Efficiency: 95% (At 25°C, 15A)
- Dual Output System Utilized
- Highly Efficient Heat Radiating Design
- Compact Design
- Electronic Switch Built-in



Battery Charger

Ni-cd

NEC-322

- Flat 2pins (Require conversion adaptor for pins TYPE-B or D)
 - INPUT AC220-240V
 - TX(Transmitter Side) 11.6V/50mA
 - RX(Receiver Side) 5.8V/120mA
-

NEC-501Series

Three types are available as follows and correspond to the input voltage as 100V-240V.

NEC-501A: Round 2pins (EUR) as known as TYPE-B
NEC-501B: Square 3pins(UK) as known as TYPE-D
NEC-501C: Flat 2pins (USA, JAPAN) as known as TYPE-A

- Battery Charger for Nickel Metal Hydride Batteries
- TX (Transmitter Side) 9.6V: 150mA
- RX (Receiver Side) 4.8V: 150mA

※When charging the receiver batteries, be certain to connect them using a temperature sensor connector.

Ni-cd Nickel-Cadmium Battery

Ni-MH Nickel Metal Hydride Battery

TX Ni-MH
RX Ni-cd

NEC-J12

- 12-Hour Timer System
 - INPUT AC100-240V (Require conversion adaptor for pins TYPE-B or D)
 - TX(Transmitter Side) 9.6V/250mA
 - RX(Receiver Side) 4.8V/200mA
-

Ni-MH

Optional Parts & Accessories

Transmitter AC/DC

AC/DC adaptor and Battery For XG11・XG8

Li-Fe Lithium Ferrite Battery



NEC-A912

for Li-Fe[Lithium Ferrite]Battery
NEC-A912A For Euro Plug
NEC-A912B For UK, Hong Kong Plugs
NEC-A912C For Japan, Taiwan & USA
NEC-A912D For Australia & New Zealand
for XG8, XG11

2F 1400
TX Lithium Ferrite (Li-Fe) battery 1400mAh
for XG8, XG11

Li-Fe

Li-Fe

Harness/SW Harness

Lead Harness



- Gold 60-Core
- No.04632 70LG (70mm)
- No.04634 150LG (150mm)
- No.04636 230LG (230mm)
- No.04638 300LG (300mm)
- No.04618 450LG (450mm)
- Gold 30-Core
- No.04620 600LG (600mm)
- No.04622 800LG (800mm)
- No.04621 1000LG (1000mm)
- No.04623 1200LG (1200mm)
- No.04631 70G (70mm)
- No.04633 150G (150mm)
- No.04635 230G (230mm)
- No.04637 300G (300mm)

Servo Lead



- No.04601 G (30-Core/ 300mm Gold)
- No.04607 LG (60-Core/ 300mm Gold)

B Lead



- No.04603 LG (60-Core/ 250mm Gold)

Y Harness



- No.04701 G (300mm/ Gold)
- No.04702 SS (100mm/ Solder)

Filter Lead (130mm Gold)



●No.04730

Charging Adapter



●No.04805

Switch Harness BEC



●No.04500

Switch Harness S



●No.04501
●Small-Sized/ Solder

Switch Harness C



●No.04502
●Small-Sized/ with Charging Connector

Switch Harness G



●No.04503
●With Charging Connector (DSC Support/Binding)

Switch Harness D



●No.04504
●DSC Support/Binding/ With Charging Jack

RX Antenna Lead



●No.04790

Trainer Cord



●No.04851

DSC Cord



●No.04852 AL (For R-1)
●No.04853 BL (PCM9XII, etc.)

USB Cable



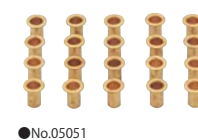
●No.04854
●DSX12/PCM12X Dedicated
●(Dedicated for DSX12/PCM12X)

Servo Absorber Rubber Fittings (8 Pieces) (For General Use)



●No.05050

Servo Eyelet Set (20 Pieces) (For General Use)



●No.05051

Servo Mounting Screws (16 Pieces)



●No.05001

Aluminum Horn Screws (15 Pieces) (For 375, 385, and 341)



●No.05003

Servo Horn Screws (15 Pieces)



●No.05000 (For General Use)
●No.05002 (With Washers for Metal Gears)

Mini Absorbers Set (Each 8 Pieces) (For Micro/Mini Servos)

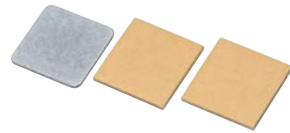


●No.05055

Two-Sided Tape for Gyros
●No.05282
for G770T/G750T/G250T



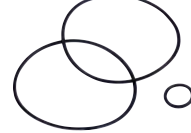
Gyro Shield Plate Set
●No.05270 for G7000T/G490T



Connector Base
(Charging Socket)
●No.04800



Servo O-Ring Set
●No.05500



Rod Antenna
●No.06221
for PCM12X/10X/9XII
11X ZERO/X7R
X2720/X2610
●No.06202 for COBRA
●No.06204 for XS3
●No.06206 for R-1(Black)



Hook Adapters
for DSX12/PCM12X/DSX9/PCM9X II / X7R
※These are not supported on the DSX11/11X ZERO.



Stick Shaft
(1 Shaft)
●No.06118 for DSX12/PCM12X
●No.06119 for DSX9/PCM10X
PCM9XII/II LTD



Engine Control Ratchet Plate
for Transmitter Throttle
●No.06161 for Airplanes
●No.06165 for Helicopters



Side Rubber Grip Set
(2 Pieces)
●No.06030 for PCM9XII



Side Rubber Grip B
(1 Piece)
●No.06031 for PCM9XII Limited



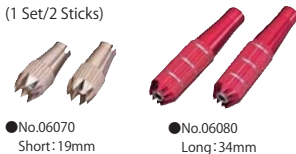
Stick Heads 12X (1 Set/2 Sticks)
●No.06115 Short:16mm
●No.06114 Normal:24mm
●No.06116 Long:34mm



Flower Stick
●No.06090



Color Stick Heads
(1 Set/2 Sticks)
●No.06070 Short:19mm
●No.06080 Long:34mm



Color Stick Heads
(24mm) (1 Set/2 Sticks)
B ●No.06060 R ●No.06063 G ●No.06062



Aluminum Carrying Case
●No.06913 for 2 Transmitter Units/Supporting DSX12/9/7
●Dimensions (mm)/Weight (kg): 195×290×415/2.6



Carrying Case
●No.06903
●Supporting for XG8, XG7, DSX9, DSX7, 9X, 9XII, X2720, X2610



PROPO Transmitter Bag L
●No.06907 for XG11, XG8, XG7, DSX11, 11X ZERO, DSX9, DSX7



PROPO Transmitter Belt
●No.06000



LCD Protective Film
Protects LCD screen from scratches and dirt.
A ●No.06500 For DSX7, X2720
B ●No.06501 For DSX9, PCM9X
C ●No.06502 For DSX12, PCM12X
D ●No.06503 For XG11, DSX11, 11X ZERO
E ●No.06504 For XG7, X7R
F ●No.06505 For XG8



Over-glasses JR-OG1
(Made in Japan)
Possible to wear over the top of your spectacles.
●No.08820 ●With Case



Sunglasses
BR ●No.08811
GL ●No.08810



JR Cap
R10 ●No.08813



R ●No.08808



B10 ●No.08814

Team JR Stickers
●No.08612



Team JR Stickers
●No.08613



Transfer Stickers



●No.08620
●Transfer Stickers

JR Logo Stickers



●No.08606 (R [Red])
●No.08607 (B [Black])
●No.08608 (W [White])

Stickers A



●No.08604
●Dimensions (mm): 145×250

Stickers B



●No.08605
●Dimensions (mm): 145×250

Japanese Flag Stickers II
●No.08611
●Dimensions (mm): 250×145



Helicopter Catalog

Welcome to Flybarless Systems



Try this easy to build kit and enjoy the feeling of flight from JR!



We succeeded in designing a helicopter that is light weight, yet has a solid feeling of performance in the air. This electric model is designed exclusively for flybarless flight. It features a unique control mechanism which allows sub trim free setup. The battery tray is designed to allow the use of a high capacity Li-Po battery for long flight times.



■Dedicated design for flybarless control (FBL) ■TAGS01 Triple Axis Gyro already programmed with optimised parameters. ■Unique control system allowing sub trim free adjustment ■Light weight and high rigidity frame ■Ample space for a high capacity battery ■Main system components are pre-assembled ■For beginners to advanced flyers ■FBL Rotor head with metal Main Blade grips ■Metal Tail Rotor Grips with Thrust Bearing ■Carbon Frame, battery mount , tail boom ■FRP painted canopy

New



140 CCPM Shaft Drive FRP Canopy ※Actual products may vary from photos.

Overall length	910mm
Overall width	158mm
Overall height	321mm
Main rotor diameter	1,002mm
Tail rotor diameter	208mm
Flying weight	1,850g or more
Gear ratio	12.5 : 1 : 4.26

Battery Guide

Li-po	Voltage / Capacity	Size (max)
6cell	22.2V 6S 2,600~3,300mAh	46 × 60 × 160mm

Battery	Pinion	Gear ratio	Motor	Approximate flight time		Rotor RPM		MAX current
		Pinion : Main	KV value	Hovering	Flying	Hovering	Flying	
				When using 2,600mAh				
6cell	T12	1 : 12.5	1,750	approx. 10 mins	approx. 4 mins	1,800 ~ 2,000rpm	2,600 ~ 3,000rpms	75A

NEX E6 FBL
No.98049 COMBO

Includes ■Triple Axis Gyro System : TAGS01 ※Already programmed with optimised parameters. ■Swash Servo for FBL(3pcs) : FBL-DS11 ■Rudder Servo : DS3500G ■Brushless Motor (KV/1750) : NHM-40-8P ■ESC (75A/BEC5A) : NHA-75-SB5 ■Carbon Main Rotor Blades 440 ■Blade Holder





The optimized layout of its flame realized lightweight, solid feeling and easy access to battery room. E8 inherited 50NEX performance and get more power by this modify. You can enjoy extreme 3D style with this exclusively model for electric power.



■The new frame has been designed to allow easy installation of motor, battery and ESC. ■Each tail rotor grip contains dual radial bearings, plus a thrust bearing - providing smooth and precise operation. ■Shaft driven tail with robust tail box and gears to handle the most extreme 3D flying. ■Highly tunable head design for extreme cyclic response. ■Includes FRP canopy, painted in three colors. ■Your choice of CCPM 120 or 140-degree swash. ■Carbon horizontal and vertical tail fins.

New



Overall length	1,225mm
Overall width	212mm
Overall height	421mm
Main rotor diameter *	1,361mm
Tail rotor diameter	268mm
Gross weight **	2,750g or more
Gear ratio	8.7 : 1 : 4.4

*With 600mm main rotor blades **Excluding main rotor blades

●Motor Guide

Shaft diameter	6mm	
Motor diameter (max)	50mm	
Motor length (max) ※Shaft excluded	Up to 62mm. Longer than 62mm may touch the ESC.	



VIBE NEX E8
with Flybar
ASSEMBLY KIT

VIBE NEX E8 FBL
ASSEMBLY KIT

No.98051

●ESC Guide

Li-po compliant	8cell/12cell	Above 80A is recommended	Slow start function
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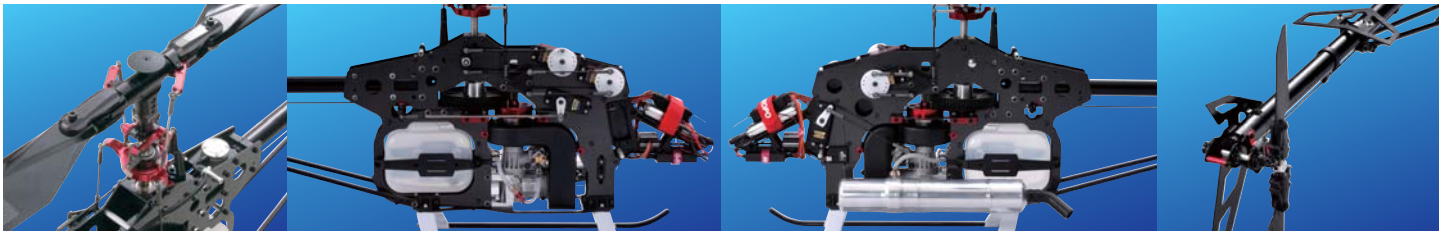
●Battery Guide

Li-po	Voltage / Capacity	Size (max)
8cell	14.8V 4S 4,400mAh × 2	65 x 100 x 160mm
12cell	22.2V 6S 3,300mAh × 2	

●Suitable main rotor blades : 12mm Grip thickness / Bolt hole 4mm / Length 600mm (wooden rotor blades are unusable)



Everything about the Vibe Fifty NEX screams performance. A dual-stacked carbon frame, similar to the Vibe 90SG, creates an exceptionally rigid structure vital for stick-bending maneuvers. Many of the NEX design features were handed down from its Big Brother the Vibe 90SG.



■Each tail rotor grip contains dual radial bearings, plus a thrust bearing - providing smooth and precise operation. ■Shaft driven tail with robust tail box and gears to handle the most extreme 3D flying. ■Highly tunable head design for extreme cyclic response. ■Includes FRP canopy, painted in three colors. ■Your choice of CCPM 120 or 140-degree swash. ■Carbon horizontal and vertical tail fins.

New



120 CCPM / 140 CCPM / Shaft Drive / FRP Canopy

Overall length	1,225mm
Overall width	212mm
Overall height	421mm
Main rotor diameter *	1,361mm
Tail rotor diameter	268mm
Gross weight **	3,500g or more
Gear Ratio	8.7 : 1 : 4.7

*With 600mm main rotor blades **Excluding main rotor blades

●Suitable engine : 50size ●Suitable muffler : 50size (matched to engine)
●Suitable main rotor blades : 12mm Grip thickness / Bolt hole 4mm / Length 600mm (wooden rotor blades are unusable)

VIBE 50NEX FBL
ASSEMBLY KIT

No.98045



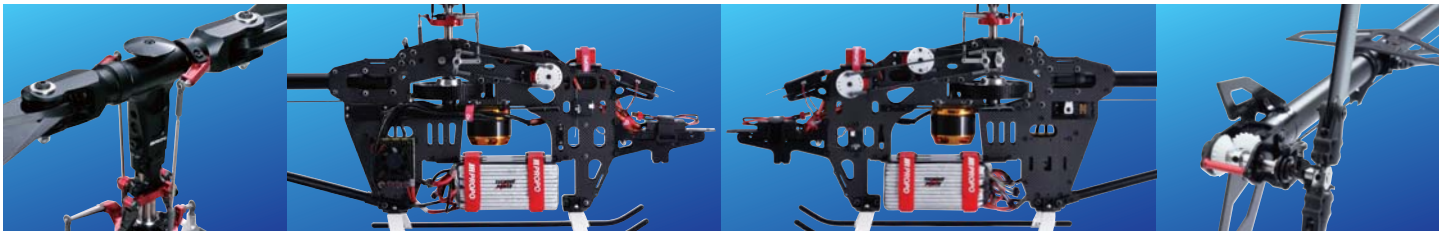
VIBE 50NEX
with Flybar
ASSEMBLY KIT

No.98044



VIBE^{E12}SG

Retaining the high performance of the Vibe 90SG, the frame configuration has been changed for electric propulsion. 2 sizes of pinion gears are included for the customer to choose the best combination to suit their own flying style.



New



Overall length	1,359mm
Overall width	182mm
Overall height	425mm
Main rotor diameter *	1,605mm
Tail rotor diameter	288mm
Gross weight **	3,600g or more

*With 720mm main rotor blades **Excluding main rotor blades

Battery	Pinion	Gear ratio	KV value
12cell	T10	9.3:1:4.65	520
	T11	8.45:1	450



VIBE SG E12 FBL ASSEMBLY KIT

No.88296

120 CCPM / 140 CCPM / Shaft Drive / FRP Canopy

●Motor Guide

Shaft diameter	6mm	
Motor diameter (max)	70mm	
Motor length (max)	There is no limit, however depending on the length, it may touch the E.S.C.	

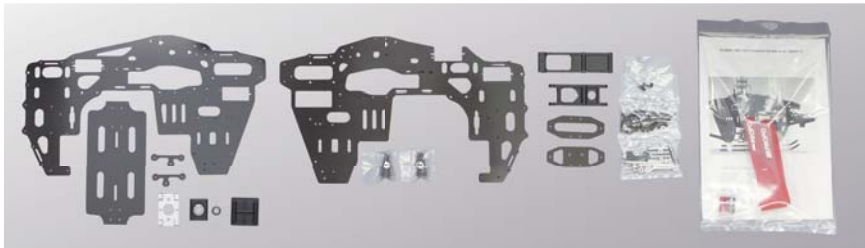
●Suitable main rotor blades : 12mm Grip thickness / Bolt hole 5mm / Length 680-720mm (Not to be used with wooden main rotor blades)

●ESC Guide

Li-po compliant	12cell	100A or greater	Slow start function
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●Battery Guide

Li-po	Voltage / Capacity	Size (max)
12cell	22.2V 6S 5,000mAh × 2	52 × 70 × 175mm



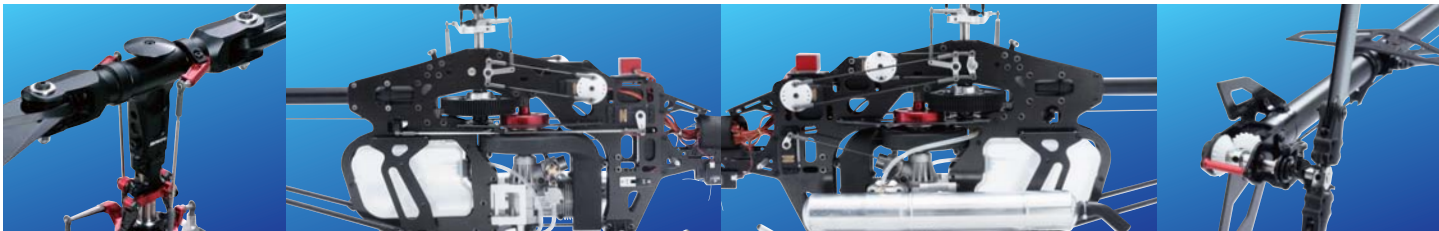
This conversion set will convert a VIBE 90SG from nitro to electric power.

E12 CONVERSION SET SG

No.96422

VIBE⁹⁰SG

Designed by world-class heli pilot Scott Gray. Fully tunable hi-cyclic head for extreme cyclic response. Robust Sprag autorotation clutch. Self-aligning, easy-to-maintain engine mount system. I-beam high rigidity frame assembly.



New



Overall length	1,359mm
Overall width	182mm
Overall height	425mm
Main rotor diameter *	1,605mm
Tail rotor diameter	288mm
Gross weight **	4,520g or more
Gear Ratio	8 : 1 : 4.65

*With 720mm main rotor blades **Excluding main rotor blades



Designed by
Scott Gray and JR



VIBE 90SG FBL ASSEMBLY KIT

No.88277

120 CCPM / 140 CCPM / Shaft Drive / FRP Canopy

- Suitable engine : 90size ●Suitable muffler : 90size (matched to engine)
- Suitable main rotor blades : 12mm Grip thickness / Bolt hole 5mm / Length 680-720mm (Not to be used with wooden main rotor blades)

VIBE 90SG-J ASSEMBLY KIT

No.88268

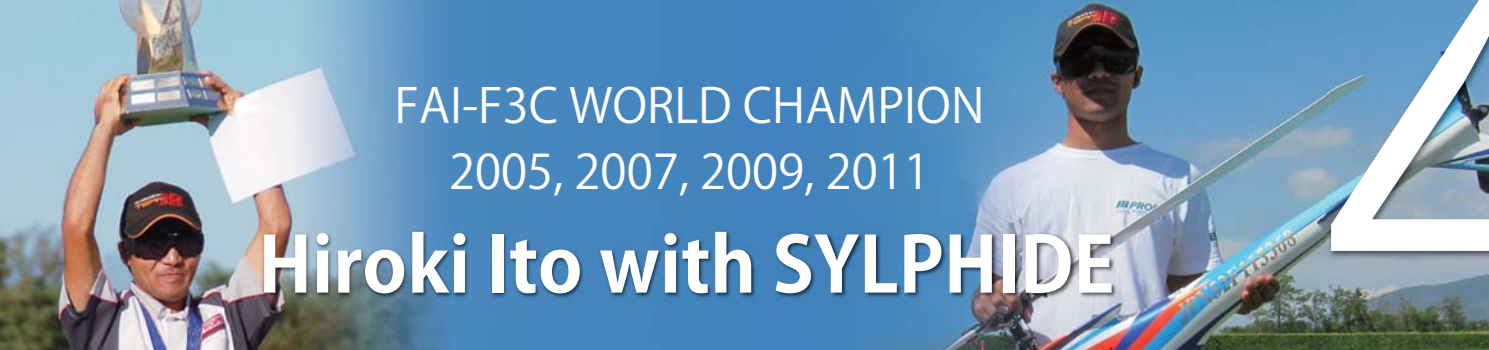
120 CCPM / 140 CCPM / Shaft Drive / FRP Canopy

Overall length	1,359mm
Overall width	182mm
Overall height	425mm
Main rotor diameter *	1,600mm
Tail rotor diameter	288mm
Gross weight **	4,650g or more
Gear Ratio	8 : 1 : 4.65

*With 720mm main rotor blades
**Excluding main rotor blades



- Suitable engine : 90size ●Suitable muffler : 90size (matched to engine)
- Suitable main rotor blades : 12mm Grip thickness / Bolt hole 5mm / Length 680-720mm (Not to be used with wooden main rotor blades)



FAI-F3C WORLD CHAMPION
2005, 2007, 2009, 2011

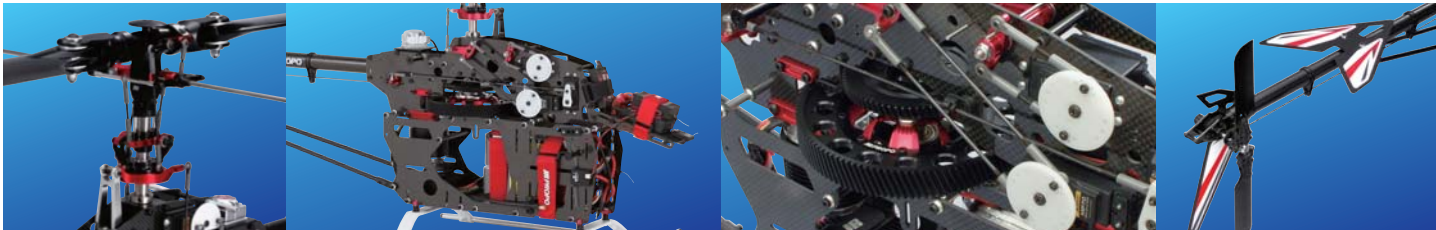
Hiroki Ito with SYLPHIDE



times world champion

SYLPHIDE E12

The width of the Helical drive gear supplied the Sylphide E12 is greater than the ones used in 90-class GP helicopters. This boosts gear strength and reduces noise. Special carbon frames allow more flexible power system choices. The model includes many newly designed parts such as a 12mm mast, ASG rotor head, and tail gear case which correspond with the new F3C rules, allowing the Sylphide E12 model deliver flight performance like never before.



Overall length	1,402mm
Overall width	182mm
Overall height	426mm
Main rotor diameter *	1,605mm
Tail rotor diameter	288mm
Gross weight **	5,200g or more

*With 720mm main rotor blades **Excluding main rotor blades

Battery	Pinion	Gear ratio	KV value
12cell	T10	11.5:1:4.79	520-560
	T11	10.45:1	500-520
	T12	9.8:1	450-500
	T13	8.85:1	440-450



SYLPHIDE E12 ASSEMBLY KIT

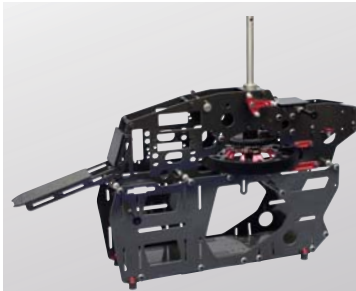
No..88266

120 CCPM Shaft Drive FRP Canopy

●Motor Guide

Shaft diameter	6mm	
Motor diameter (max)	70mm	
Motor length (max)	There is no limit, however depending on the length, it may touch the E.S.C.	

●Suitable main rotor blades : 18mm Grip thickness / Bolt hole 5mm / Length 680-720mm (Not to be used with wooden main rotor blades)



SYE12 MECHANISM SET

No.61512

For SYLPHIDE (Main shaft 10mm)

No.61547

For AIRSKIPPER (Main shaft 12mm)

This mechanism set will convert a JR 90 helicopter to electric power. A new thicker helical drive gear offers improved durability and reduced transmission noise. Our unique carbon frames are designed to allow easy installation of your chosen motor, battery and E.S.C.

Included Gear	Main Gear	Pinion
MECHANISM SET	T120 (No.61566)	T10/T11
ASSEMBLY KIT	T115 (No.61580)	T10/T11/T12 (No.61579)/T13 (No.61577)



No.61599

OFFSET BATTERY MOUNT

Possible to install your battery about 10mm lower than the standard position.

FRP BODY FOR F3C COMPETITION



FRP CANOPY for SYE12

No.82341 White

REAR BODY for SYE12

No.82342 White

No.82345 Standard



Overall length	1,462mm
Overall width	210mm
Overall height	452mm

Shown mounted to SYLPHIDE 90 with ASG long tail set

Compatible with
AIRSKIPPER E12/SYLPHIDE E12/AIRSKIPPER 90CE/90CF
SYLPHIDE 90 with ASG long tail set (No.83121)



SUPER GRACY TYPE2

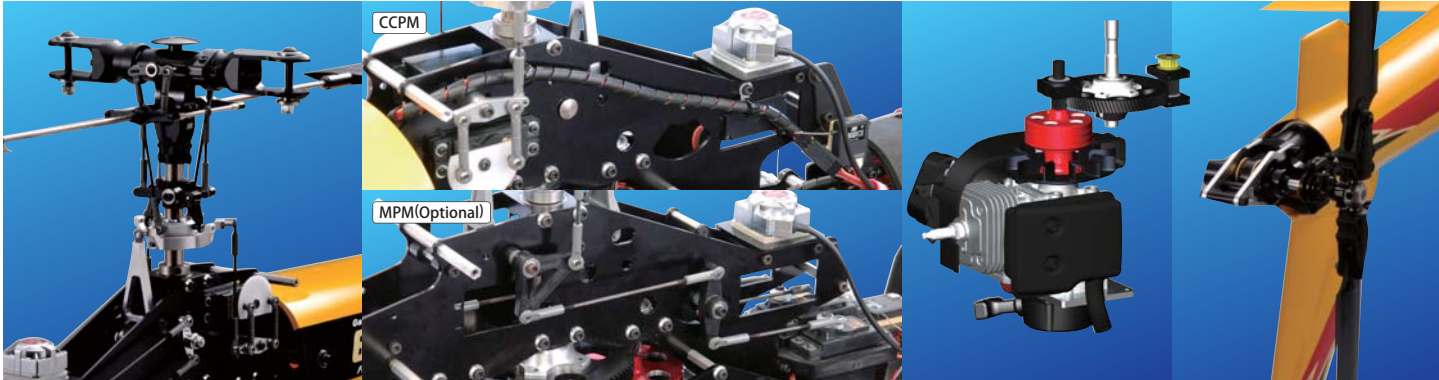
No.82325 Orange Version

No.82326 Blue Version

No.82330 White gelcoat

Gasoline Engine Powered
GSR260Z

Our long time seller the “Voyager GSR260” has been reborn as the “GSR260Z” and it has been selling well. To follow this popularity, the GSR260Z SPORTS now joins to our product lineup. Because this is a gasoline powered heli, it has low running and maintenance costs.



- All metal ASG90 rotor head (12mm Main shaft)
- Redesigned FRP body
- Stylish stream-line FRP body
- Helical gears increase durability, gear ratio is the same as before.
- The Brace clamp is made from plastic to prevent if from generating noise.
- Removable fuel tank cap allows for easy re-fuelling
- Carbon tail rotor blades 105mm in length
- Redesigned Fan cover and larger diameter Cooling fan provide more efficient cooling
- HG Clutch set supplied as standard



GSR260Z
Carbon main rotor blades: JRC800 (No.83095)
Payload: 3,000-4,000g

Overall length	1,623mm
Overall width	380mm
Overall height	704mm
Main rotor diameter	1,765mm
Tail rotor diameter	288mm
Gross weight	7,800g or more
Gear ratio	8 : 1 : 5.18



GSR260Z SPORTS
Carbon main rotor blades: JRC810 (No.83133)
Muffler: JRM260S (No.61528)
Low Profile landing gear (No.61548)

Overall length	1,623mm
Overall width	210mm
Overall height	472mm
Main rotor diameter	1,765mm
Tail rotor diameter	288mm
Gross weight	7,150g or more
Gear ratio	6.77 : 1 : 5.18



GSR260Z ASSEMBLY KIT W/G260PUH-1

No.88269 **WHITE** No.88250 **YELLOW**
120 CCPM / MPM (Option) / Belt Drive / FRP Canopy / Main Rotor Blades



GSR260Z SPORTS ASSEMBLY KIT W/G260PUH-1

No.88255
120 CCPM / MPM (Option) / Belt Drive / FRP Canopy / Main Rotor Blades

AIRSKIPPER E12

Electric helicopter designed for all round flying style.



AIRSKIPPER E12 ASSEMBLY KIT

No.88267
120 CCPM / MPM (Option) / Belt Drive / FRP Canopy

Overall length	1,421mm
Overall width	182mm
Overall height	442mm
Main rotor diameter *	1,605mm
Tail rotor diameter	288mm
Gross weight **	5,300g or more

*With 720mm main rotor blades **Excluding main rotor blades

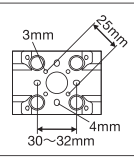
Battery	Pinion	Gear ratio	KV value
12cell	T9	10:1:4.7	500-520
	T10	9:1	440-450
10cell	T9	10:1	560-630
	T10	9:1	500-560

●ESC Guide

Li-po compliant	12cell	100A or greater	Slow start function
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●Motor Guide

Shaft diameter	6mm
Motor diameter (max)	68mm
Motor length (max)	There is no limit, however but to have enough space for wiring, we recommend it to be smaller than 80mm.



●Battery Guide

Li-po	Voltage / Capacity	Size (max)
12cell	22.2V 6S 5,000mAh×2	65×65×160mm
10cell	18.5V 5S 6,300mAh×2	

●Suitable main rotor blades : 18mm Grip thickness / Bolt hole 5mm / Length 680-720mm
(Not to be used with wooden main rotor blades)



E12 CONVERSION SET AS

No..61513
This conversion set will convert an AIRSKIPPER90 series helicopter to electric power.



AIRSKIPPER 90CF

ASSEMBLY KIT

120 CCPM / MPM (Option) / Belt Drive

Overall length	1,462mm
Overall width	182mm
Overall height	442mm
Main rotor diameter *	1,605mm
Tail rotor diameter	288mm
Gross weight **	4,380g or more
Gear Ratio	8 : 1 : 4.7

*With 720mm main rotor blades **Excluding main rotor blades

- Suitable engine : 90size
- Suitable muffler : 90size (matched to engine)
- Suitable main rotor blades : 18mm Grip thickness / Bolt hole 5mm / Length 680mm (Not to be used with wooden main rotor blades)



Included decal



No.61375



No.61376

AIRSKIPPER 90BB

ASSEMBLY KIT

120 CCPM / MPM (Option) / Belt Drive

Overall length	1,425mm
Overall width	210mm
Overall height	460mm
Main rotor diameter *	1,550mm
Tail rotor diameter	293mm
Gross weight **	4,400g or more
Gear Ratio	8 : 1 : 4.7

*With 680mm main rotor blades **Excluding main rotor blades

- Suitable engine : 90size
 - Suitable muffler : 90size (matched to engine)
 - Suitable main rotor blades : 18mm Grip thickness / Bolt hole 5mm / Length 680mm (Not to be used with wooden main rotor blades)
- Main rotor blades up to 720mm are able to use by installing the ASG long tail set (No.83121)



Included decal



No.61358



No.61366

FBL ROTOR HEAD

Features

- Achievable cyclic pitch (Aileron/Elevator) range of +/-12° .
- A Standard Pitch gauge can be used (Pitch measurement jig is supplied).
- Using this rotor head can reduce the load on the engine and rotor rpm is easily maintained.
- The control balls can be fitted in several locations, allowing various settings to be achieved.
- A swash plate is not included in this set.



FBL ROTOR HEAD 90 with TAGS01 No.84040
FBL ROTOR HEAD 90 No.84037



10Φ MAIN SHAFT COLLAR
No.61632



FBL ROTOR HEAD 50 with TAGS01 No.84039
FBL ROTOR HEAD 50 No.84036



FBL ROTOR HEAD SV with TAGS01 No.84042
FBL ROTOR HEAD SV No.84041

ASG90 ROTOR HEAD



ASG ROTOR HEAD 90V2 No.84038
For Airskipper90 (Φ 12 main shaft)

This metallic main rotor head is compatible with JR Helicopters using a 12Φ main shaft. Compared to the genuine head, this product has a wider range of adjustment and so you can further fine tune it to suite your desired flight characteristics for both F3C and 3D.



ASG ROTOR HEAD ASSEMBLY 90(AS) No.84033
For Airskipper90 (Φ 12 main shaft)

ASG ROTOR HEAD ASSEMBLY 90(SY) No.84034
For Sylphide90 (Φ 10 main shaft)



MIXING ARM ASSEMBLY 90
● No.61504
● No.61410
For 90 / E12 heli



SEESAW ASSEMBLY 90
● No.61507
● No.61413
For 90 / E12 heli



WASHOUT BASE 90
● No.61509
● No.61407
For 90 / E12 heli



WASHOUT STOPPER
● No.61588
For 90 / E12 heli



PITCH ARM 90
● No.61505
● No.61409
For 90 / E12 heli



FLYBAR ARM A 90
● No.61506
● No.61414
For 90 / E12 heli



WASHOUT ARM ASSEMBLY
● No.61508
● No.61408
For 50 / E8, 90 / E12 heli

MAIN ROTOR BLADES



XB720-F3C
No.83136
Length: 720 mm
Grip Thickness: 12 mm
Width: 64 mm
Bolt hole: 5mm
Air-Foil: Symmetrical



XB600-FBL
No.83142
Length: 600 mm
Grip Thickness: 12 mm
Width: 59 mm
Bolt hole: 4mm
Air-Foil: Symmetrical

SWASH CONTROL PARTS



ASG CONTROL LEVER
No.61582
Linkage lever for Tail Pitch control. Metal red anodized.
NEX50 series



HG SWASH CONTROL ARM ASSEMBLY
No.61291
Machined metal arm. Rigidity and durability are increased.
AS90 260Z AS90C



HG SWASH CONTROL BASE
● No.61617 ● No.60981
Aluminum swash control base. Recommend for use with HG swash control arm (No.61291).
AS90 VB50 AS90C



SWASH CONTROL LEVER A
● No.61616 ● No.60980
Aluminum Swash Control Lever. Recommend for use with SWASH CONTROL LEVER B (No.60547).
AS90 AS90C



HG SWASH CONTROL LEVER B
● No.61576 ● No.60547
Aluminum Swash Control Lever. Recommend for use with SWASH CONTROL LEVER A(No.60980).
NEX series AS90 AS90C



MPM CONVERSION SET
No.61211
Conversion set for changing the control system to MPM.
AS90 260Z 260ZS

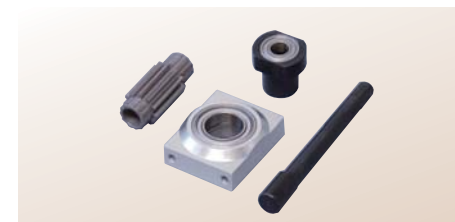
DRIVE PARTS



MAIN DRIVE GEAR T98
No.96432
Compare to the original gear, this one has two more teeth and so you can change the gear ratio to low. This helps to keep engine power even during aggressive flight.
90SG 90SG-FBL



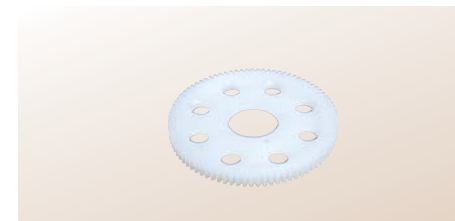
MAIN DRIVE GEAR T90
No.61254
By making gear ratio low from 8 : 1 to 8.18 : 1 can keep the engine torque high.
AS90



PINION BEARING CASE ASSEMBLY
No.61438
The pinion gear can be held in place more firmly and precisely than ever before by the separate upper bearing case. This method prevents the pinion gear from moving.
AS90 AS90C



MAIN DRIVE GEAR T89
No.61394
CNC machined main drive gear made out of Polyacetal. Increased precision.
VB50



MAIN DRIVE GEAR T85
No.61361
Increased durability with high strength Nylon. Gear ratio can be changed to 8.5 : 1 by using this gear.
VB50



VIBE 50 BELT converted SET
No.96226
Vibe 50 can be converted from shaft drive to belt drive with this conversion set.
NEX series VB50

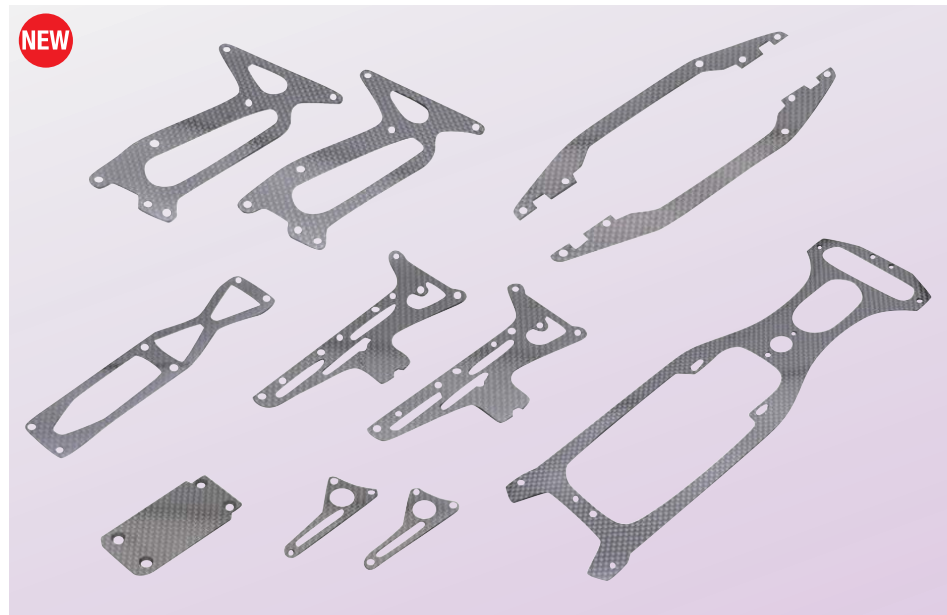


LSD SYSTEM Z
No.61525
Rudder control is possible during autorotation when using these parts.
260Z 260ZS

MODEL Compatible MODEL Standard equipment

FRAME PARTS

for VIBE90 SG



VIBE90SG CARBON PARTS SET
No.61722 90SG 90SG-FBL

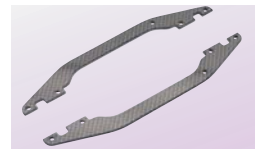
Carbon frames for the VIBE90SG. Increase the intensity of each area and reduce weight.



CARBON FRONT TRAY FRAME
No.61719
90SG 90SG-FBL



CARBON TANK FRAME
No.61720
90SG 90SG-FBL



CARBON FRAME BRACE PLATE
No.61715
90SG 90SG-FBL



CARBON FRAME SUPPORT PLATE
No.61716
90SG 90SG-FBL



CARBON TOP TRAY
No.61717
90SG 90SG-FBL

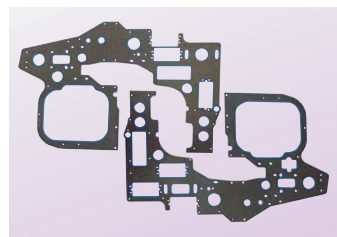


CARBON TOP TRAY MOUNT
No.61718
90SG 90SG-FBL

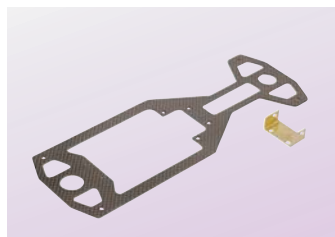


CARBON BOTTOM FRAME PLATE
No.61721
90SG 90SG-FBL

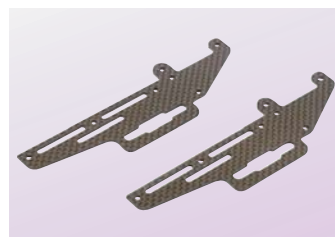
for VIBE50



CARBON FRAME SET FOR VIBE 50
No.96225 VB50



CARBON BOTTOM FRAME PLATE
No.61395 VB50



CARBON FRONT BED FRAME
No.61396 VB50

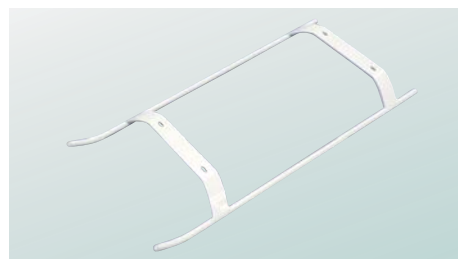


FRONT BED EXTENSION
No.61510
Made of carbon. Servo for needle adjustment can be installed by using this product. You can adjust the center of gravity towards front by moving this.

SKID



CAMERA GIMBAL SET
No.61159 Without TX
For Gasoline Helicopter



LOW PLOFILE DURALUMIN SKID
No.61640 For 90/E12
※Except for SG series



LOW PROFILE LANDING GEAR SET V2
No.61443 For 90/E12
No.61445 For 50/E8

TAIL PARTS



ASG TAIL GEAR CASE V2
No.61595
New type of Tail Gear Case adopted for AS-E12 and SY-E12.
AS90 AS90C SY90 260Z 260ZS
SYE12 ASE12



ASG TAIL GEAR HOLDER
No.61590
Metal and colored item usable for ASG TAIL GEAR CASE (No.61293) , HG TAIL GEAR CASE (No.60325).
AS90 AS90C SY90 SYE12 ASE12



TAIL PLATE CROSS MEMBER L16
No.70649
Metal and colored item usable for ASG TAIL GEAR CASE (No.61293) , HG TAIL GEAR CASE (No.60325).
AS90 AS90C SY90 260Z 260ZS
SYE12 ASE12



ASG LONG TAIL SET 90
No.83121
Extended tail boom by 30 mm in order to use longer main rotor blades up too 720 mm for Airskipper and Sylphide. Belt and pulley have higher transmission efficiency than before. *In case of using NHR-03 head please use the tail rotor blades shorter than 95 mm.
AS90 SY90 AS90C SYE12 ASE12



HG TAIL CENTER HUB SET
No.61433
Expand the diameter of the shaft and a larger size of bearing.
AS90 VB50 SY90
AS90C SYE12 ASE12



ASG TAIL PC PLATE
No.61594
Metal and colored item usable for ASG TAIL GEAR CASE (No.61293) , HG TAIL GEAR CASE (No.60325).
NEX series AS90 AS90C VB50
SY90 260Z 260ZS SYE12 ASE12



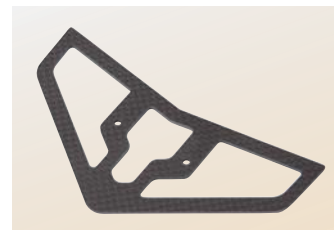
ASG TAIL PITCH CONTROL LEVER SET
No.61373
The combination of Metal lever A and Carbon lever B
NEX series AS90 VB50 AS90C



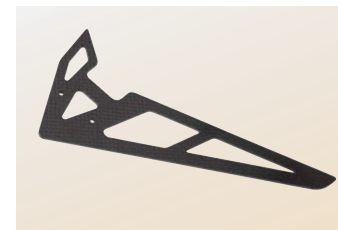
TAIL BOOM HOLDER (RED)
No.61627
Machined from one piece duralumin. Red anodized.
NEX series AS90 series SG series



CARBON HORIZONTAL FIN
No.61593 For 90/E12



CARBON HORIZONTAL FIN
No.61549 For 90/E12
No.61397 For 50/E8



CARBON VERTICAL FIN
No.61550 For 90/E12
No.61398 For 50/E8



CARBON TAIL ROTOR BLADE
No.61150 For 90/E12
Length 105mm
Grip Thickness: 5 mm
No.61151 For 50/E8
Length 92mm
Grip Thickness: 5 mm



CARBON TAIL BRACE SET (L590)
No.83129
SG series SYE12 ASE12

CARBON TAIL BRACE SET (Φ5 / L500)
No.83118
NEX series



ROTOR CARRYING BAG
No.89032
Fits up to 8 sets of the Main Rotor length up to 810mm. Tail Rotors and tools can fit in the side pockets.



ALUMINUM CARRYING CASE (mSR)
No.89033
Aluminum case for BLADE mSR full set. There are two separated pockets inside the upper side of the case.

Outer dimensions
W400×D140×H260



NUT DRIVER
No.61583 5.5mm
No.61584 7.0mm
Helical cut helps your grasp and easy-to-use. Grip size changed to reduce excess power.



HEX DRIVER
No.61401 (1.5)
No.61402 (2.0)
No.61403 (2.5)
No.61404 (3.0)
No.61598 (4.0)
Helical cut helps your grasp and easy-to-use. Grip size changed to reduce excess power. Both ends are shaped hexagonal. Spare bit is also available.



BUBBLE LESS FILTER (S)
No.61405
Finished with red alumite treatment and JR logo. Unique construction enables it to supply bubble-less fuel to the engine. Straight type (1 pc)

Not for gasoline engine



BUBBLE LESS FILTER (T)
No.61406
Finished with red alumite treatment and JR logo. Unique construction enables it to supply bubble-less fuel to the engine. T-shape type (1 pc)

Not for gasoline engine



ALUMINUM T FUEL FILTERS
No.60298
Fine mesh stainless screens. #300 (red) #400 (blue)
Compatible with gasoline engine



STRAIGHT FUEL FILTER
No.61451
Straight type fuel filter with stainless mesh (#300). Can be used for gasoline helicopter as well. Two spare O-rings are included.
Compatible with gasoline engine



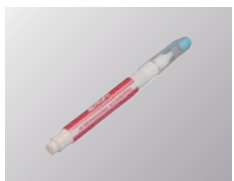
GASOLINE TUBE
No.60274 [2x4 (1m)]
No.60275 [2.5x5 (1m)]
Fuel Tube for gasoline helicopters.
Only for gasoline heli



GASOLINE ENGINE OIL 1000CC
No.55100
This is the genuine engine oil for the gasoline helicopters. 1000cc.
Only for gasoline heli



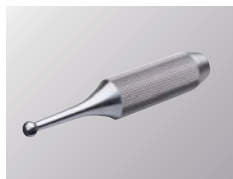
FUEL STOPPER
No.61450
Large fuel stopper. Finished with black alumite treatment with JR logo.



OIL PEN
No.61296
Push type pen to prevent dripping. Easy to use even on narrow parts due to the thin pen tip.



UNIVERSAL LINK DRIVER
No.61360
Useful tool for attaching and removing Universal links from threaded linkage rods.



UNIVERSAL BALL LINK SIZING TOOL
No.60219
Adjusts all Heli ball links to the correct size for an exact fit (For 4.75mm diameter links only)



PLUG WRENCH
No.60963
Thick grip for easy handling. Spare plugs can be attached in the grip.



THRUST BEARING GREASE
No.61597
Lubricating performance is good. Easy-to-use. Tube type.10g.



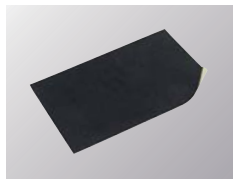
SILICON GREASE
No.61377
For bearings and metal gears for smooth movement and less friction.



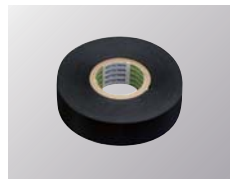
ONE-WAY CLUTCH GREASE
No.61630
Grease specifically made for One-way bearing. 10g.



UNIVERSAL BALL LINK PLIERS
No.60106 A
Curved tip, Black handle.
No.60225 B
Opposite Curve tip, Red handle.
No.60242 C
Straight tip, Green handle.



LOW NOISE MOUNTING FOAM
No.60619
Special vibration isolating material. Adhesive tape on both sides.



ECONOMICAL GUARD TAPE
No.60502
2cm Fabric tape for Tail Boom fitting, and servo lead protection.



PE SPECIAL UNDERCOAT PRIMER
No.60239
For polyethylene, Polypropylene canopies and fuselages. Specifically designed to improve paint adhesion.



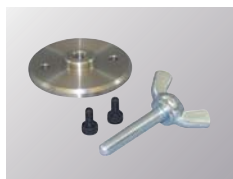
HEAT-SHRINKABLE TUBING
No.61705 Inner dia. 5mm
No.61706 Inner dia. 8mm
Useful item for wiring and distinguishing connectors. JR LOGO is printed. Set of 3 colors, Red, Black, Yellow. 200mm.



THREAD LOCK (TUBE)
No.61611
Set of Hard (green) and Soft (red). Tube type, easy-to-use.



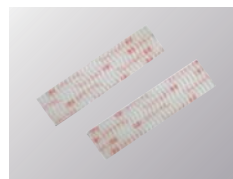
FAN PULLER EX
No.61153
Removes fan easily without damaging engine or fan. Compatible with 60/90/Gasoline heli.



FAN PULLER 50
No.60796
Removes fan easily without damaging engine or fan. Compatible with 30/50/E8 heli. ※Except for Vibe50NEX series



UNIVERSAL PRECISION PITCH GAUGE
No.60326
Measures +/-15 accurately. Easy to adjust and read gauge.



MAGIC LOCK TAPE (L100)
No.61544
Single-sided adhesive. Multipurpose hook and loop tape such as secure the battery.



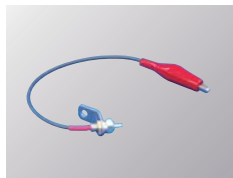
HOOK AND LOOP STRAP
No.61303 (RED/200mm)
Multi purpose hook and loop strap.



HOOK AND LOOP STRAP
No.61515 (RED/230mm)
No.61259 (RED/270mm)
No.61546 (RED/420mm)
A hook and loop fastener suitable to secure the battery and receiver.



HEX STARTING SHAFT A
No.60227
Designed for use with 6mm hex adapters. Fits all JR, and many other brand helicopters.



GLOW PLUG EXTENSION LEAD
No.61352
A remote glow adaptor to make starting more convenient.



CABLE HOLDER
No.70189
Holder to support gyro and servo wires. Covered by vinyl to not damage the wires.



HOOK AND LOOP STRAP
No.61491 (BLACK/200mm)
A hook and loop fastener suitable to secure the battery and receiver.



HOOK AND LOOP STRAP
No.61301 (ORANGE/230mm)
No.61302 (ORANGE/270mm)
A hook and loop fastener suitable to secure the battery and receiver.



TRACKING TAPE (HOLOGRAPHIC)
No.61545
Color changes when viewed from different angles.



SPECIAL WASHER
No.70631 M4
No.70583 M3
Decoration washer for M4&M3 Socket head bolt. Duralumin, machined washer with silver alumite treatment finish.



HEX SELF TAPPING SCREW M2.6 X 12 (SILVER)
No.80211
Hex self tapping screw for servo installation.



CARBON SERVO SET PLATE
No.70623
Supplied with hex self tapping screw. Servo can be secured firmly and looks nice made of carbon.



BLADE HOLDER
No.61300
Used to hold the blades folded back along the tail boom. Useful for carrying the helicopter without removing the blades.



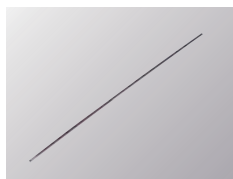
TRACKING TAPE
No.61446
Set of Red/Black original size and Metallic Red/Metallic Blue smaller size.



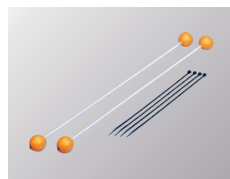
ORIGINAL STICKER
No.89008 STICKER D (WHITE)
No.89009 STICKER E (CLEAR)
width 500mm and 400mm.



SPIRAL TUBE (1m)
No.60527
Spiral plastic tube used to protect and bind up wire harness. Black, 1m.



POLYIMIDE TUBE (200mm)
No.61488
Ultrafine tube for carbon tail control rod etc. Prevent carbon from wearing.



TRAINER CASTER E
No.60625
To assist with hovering practice for beginners. For Super Voyager E.



ORIGINAL STICKER
No.89010 STICKER F (AEROSPORTS)
257mm x 182mm.



DECAL (SPORTS)
No.61524