

Futaba 1986 CATALOGUE **NEW**

SUPER ELECTRONIC TECHNOLOGY RADIO PROPORTIONAL CONTROL SYSTEMS

THE PERFECT SYSTEM OF
PULSE **C**ODE **M**ODULATION
 TROUBLE FREE ADJACENT BANDS

FP-5NLP(PCM-5ch)

TRANSMITTER: FP-T5NLP

- 5-channel PCM transmitter with new one-chip micro-processor.
- Aileron and Elevator dual rate.
- Adjustable throttle Limiter (ATL) for throttle.
- Servo reverse switches.

RECEIVER: FP-R105IP

- High performance and high reliability miniature PCM receiver.
- The perfect receiver for radio control achieved by the introduction of the newest microprocessor technology.
- Extremely resistant to adjacent frequency and spark noise interference.



FP-6NLK (FM-6ch)



NEW CONQUEST FP-6NLK is a 6-channel FM proportional radio control set.

- New metallic finished case.
- Newly designed stick.
- Aileron and Elevator dual rate functions.
- Servo reverse switches.

FP-4NLG (AM-4ch) (FM-4ch)



New CONQUEST FP-4NLG is a 4-channel AM-FM-Proportional radio control set.

- New metalized stick grill.
- Newly designed stick.
- Excellent radiation efficiency.
- Servo reverse switches.

F3A Aircraft



FP-8SGAP



FP-8AP



FP-8SGHP



FP-8HP



FP-7FGK
7-channels
FP-6FGK
FP-5FGK
FP-6FG
FP-4FG



FP-7FGH
7-channels
(Helicopter)



FP-3EGX

MAGNUM-PCM



FP-3PGX

Magnum-Junior



FP-2PJ

ATTACK-R



FP-2NL
(FP-2NR)

Compact



FP-2MR

FP-8SGAP • FP-8AP

- Flap switch and trimmer (8SGAP, 8AP)
- Spoiler volume (8SGAP)
- Pitch control High side trimmer (8SGAP)
- Idle-up (8SGAP)
- Flap/Spoiler→Elevator mixing (8SGAP, 8AP)
- Elevator down mixing (8SGAP, 8AP)
- Throttle→Flap/Spoiler→Elevator mixing or Throttle→Pitch control mixing (8SGAP)
- Elevator→Flap mixing (8SGAP, 8AP)
- Snap roll [with INHIBIT] switch (8SGAP)
- Aileron dual rate (8SGAP, 8AP)
- Elevator dual rate (8SGAP, 8AP)
- Rudder dual rate/Programmer Mixing (8SGAP)
- ATL. (Adjustable Throttle Limiter) (8SGAP, 8AP)
- DSC. (Direct Servo Control) (8SGAP, option-8AP)
- VTR. (Variable Trace Ratio)/Linear set switch [Elev. Rudd. Aile.]- (8SGAP), [Aile. Elev.]- (8AP)
- 2nd-ATV. [Aileron, Elevator] (8SGAP, 8AP)
- ATV. (Adjustable Travel Volume) (8SGAP, 8AP)
- Rudder auto dual rate (8SGAP)
- FS. (Fail Safe), BFS. (Battery-FS.) (8SGAP, 8AP)
- Tacho-timer (8SGAP)

FP-8SGHP • FP-8HP

- ATL. (Adjustable Throttle Limiter) (8SGHP, 8HP)
- Pitch control High side adjuster (8SGHP, 8HP)
- Aileron dual rate (8SGHP, 8HP)
- Elevator dual rate (8SGHP, 8HP)
- Rudder dual rate (8SGHP)
- Revolution mixing up-side (8SGHP, 8HP)
- Revolution mixing down-side (8SGHP, 8HP)
- Idle-up switch-[1] (8SGHP)
- Idle-up switch-[2] (8SGHP)
- Idle-up switch (8HP)
- Hovering pitch adjuster (8SGHP, 8HP)
- Hovering throttle adjuster (8SGHP, 8HP)
- Throttle hold (8SGHP, 8HP)
- DSC. (Direct Servo Control) (8SGHP, option-8HP)
- VTR. [Aileron, Elevator, Rudder] (8SGHP)
- 2nd-ATV. [Aileron, Elevator] (8SGHP)
- ATV. [All channel] (8SGHP, 8HP)
- BFS. (Battery Fail Safe) (8SGHP, 8HP)
- FS. (Fail safe) all channel (8SGHP, 8HP)
- Hovering memory (8SGHP)
- Rudder quick set switch (8SGHP)
- Tacho-timer (8SGHP)

FP-7FGK

- Aileron dual rate (7FGK, 6FGK, 5FGK)
- Elevator dual rate (7FGK, 6FGK, 5FGK)
- Rudder dual rate (7FGK)
- Rudder/Aileron Mixing (7FGK)
- Rudder/Elevator Mixing (7FGK)
- ATV: [Aileron, Elevator, Rudder] (7FGK)
- Reverse switch (7FGK, 6FGK, 5FGK, 6FG, 4FG)

FP-7FGH

- Rudder dual rate or VTR. ON/OFF.
- Elevator dual rate or VTR. ON/OFF.
- Throttle-Rudder Mixing.
- Throttle hold switch.
- Idle-up trimmer & ON/OFF switch.
- Rate gyro output switch.
- Trainer switch.

FP-3EGX

- Rudder dual switch
- Rudder dual trimmer
- Rudder ATV (Right)
- Rudder ATV (Left)
- Throttle High side
- Throttle exponential
- Rudder exponential
- Warming-up switch
- Warming-up timer trim
- Warming-up trim(A)
- Warming-up trim(B)

FP-3PGX

- Steering exponential
- Steering ATV (Right)
- Steering ATV (Left)
- Steering dual knob
- AUX (3CH) for brake
- Brake trimmer
- Throttle exponential
- Throttle neutral adjuster
- DSC(Direct Servo Controller)

FP-2PJ

- Pistol Grip simple 2-channel with servo reversing switches.
- Realistic steering operation.

FP-2NR • FP-2MR

- Dual stick control 2-channel with servo reversing switches.
- Well fit to palm-hold for ground models, cars, off-roads & boats.

RECEIVER AND R.F. MODULES

RECEIVER



RECEIVER:

FP-R102H (FP-R2H)	2ch. (AM) 27MHz. size: 27.8 x 39.8 x 16.9mm (22g)
FP-R102GS (FP-R2GS)	2ch. (AM) 27, 29, 72, 75MHz. size: 37 x 55.5 x 19mm (38g)
FP-R104H (FP-R4H)	4ch. (AM) 27, 29, 36, 40, 54, 72, 75MHz. size: 32 x 52 x 19.4mm. (30g)
FP-R105M	5ch. (FM) 29, 35, 36, 40, 60MHz. size: 43 x 69 x 20.5mm. (54g)
FP-R105IP	5ch. (PCM) 29, 35, 36, 40, 60, 72MHz. size: 33.4 x 50.4 x 20.5mm (35g)
FP-R107M	7ch. (FM) 27, 29, 35, 36, 40, 60MHz. size: 43 x 69 x 20.5mm. (54g)

FP-R107Q	7ch. (FM) 72MHz. size: 57 x 42 x 24mm. (53g)
FP-R107R (FP-R7R)	7ch. (FM) 27, 29, 35, 36, 40MHz. size: 31 x 52 x 22.5mm. (30g)
FP-R118GP	8ch. (PCM) 27, 29, 35, 36, 40, 60, 72MHz. size: 57 x 42 x 24mm. (53g)

RF MODULE for Transmitter

FP-TD-AM	AM27, 29, 72MHz for FP-T3EGX
FP-TG	AM27, 29, 40, 54, 72MHz for FP-T3PG
FP-TM2	FM27, 29, 35, 36, 40, 60, 72MHz for FP-T4FG, T5FG, T5FGK, T6FGK, T7FGK, T7FGH, T8AP, T8HP, T8SGAP, T8SGHP

MOTOR CONTROLLER

NICAD BATTERY



NICAD BATTERY:

Models	Volt-Ampere	Connector
NR-4H	4.8V-500mAh	w/B3P.(115g)
NR-4C	4.8V-500mAh	w/M3P.(115G)
NR-4J	4.8V-500mAh	w/B3P.(95g)[F]
NR-4M	4.8V-500mAh	w/M3P.(95g)[F]
NR-4K	4.8V-250mAh	w/B3P.(57g)[F]
NR-4G	4.8V-250mAh	w/M3P.(57g)[F]
NR-4NB	4.8V-700mAh	w/B3P.(126g)[F]
NR-4I	4.8V-1000mAh	w/B3P.(190g)

Models	Volt-Ampere	Connector
NR-5	6.0V-500mAh	w/M3P.(120g)[F]
NR-5G	6.0V-250mAh	w/M3P.(71g)[F]
NT-8J	9.6V-500mAh	w/B3P.(TX) [F]
NT-8H	9.6V-500mAh	w/SP.(TX)
NT-8CG	9.6V-500mAh	w/M3P.(TX)
NT-8P	9.6V-500mAh	(T3PG, T3PGX)
NT-8LP	9.6V-500mAh	(T2PJ, Conquest)
AA0114	2.4V-500mAh	(L-series)

*[F] = Flat type.

SERVO

With B3P connector (+ pulse width 1,520us.)
With M3P connector (+ pulse width 1,310us.)



SERVO:

Model No.	Torque	Speed	Weight
FP-S128 (FP-S28)	3.5kg.cm. (0.24sec/60°)	High neutral servo	53g.
FP-S128G (FP-S28G)	3.7kg.cm. (0.30sec/60°)	Retractable landing gear	52g.
FP-S129 (FP-S29)	3.5kg.cm (0.25sec/60°)	Water tight type	60g.
FP-S130 (FP-S30)	4.9kg.cm. (0.24sec/60°)	Water tight type	42g.
FP-S130G (FP-S30G)	4.7kg.cm. (0.34sec/60°)	Retractable landing gear	42g.
FP-S130SH (FP-S30SH)	3.0kg.cm. (0.17sec/60°)	High speed type	45g.
FP-S131S (FP-S31S)	5.0kg.cm. (0.22sec/60°)	High torque	50g.
FP-S131SH (FP-S31SH)	3.2kg.cm. (0.16sec/60°)	High speed	49g.

Model No.	Torque	Speed	Weight
FP-S132 (FP-S32)	2.4kg.cm. (0.16sec/60°)	Mini type High speed	32g.
FP-S132H (FP-S32H)	1.8kg.cm. (0.13sec/60°)	Mini type High (ultra) speed	32g.
FP-S133H (FP-S33H)	1.9kg.cm. (0.18sec/60°)	Mini. (Micro) servo	19g.
FP-S134 (FP-S34)	8.0kg.cm. (0.19sec/60°)	*High torque High speed	94g.
FP-S134G (FP-S34G)	11.5kg.cm. (0.28sec/60°)	Retractable landing gear	102g.
FP-S125 (FP-S25)	9.3kg.cm. (0.62sec/60°)	Yacht Sail control servo	65g.
FP-S110 (FP-S10)	8.8kg.cm. (0.9sec/60°)	Yacht sail winch servo	250g.
FP-S114 (FP-S14)	14.0kg.cm. (0.29sec/60°)	Powerful servo	250g.

CHARGER

NICAD POWER SET



CHARGER:

Models	Volt-Ampere	Connector
FBC-1(B)	117V-45mA	M3P(RX)
FBC-1(C)	220V-45mA	M3P(RX)
FBC-5(B)	117V-100mA	B3P(RX)
FBC-5(C)	220V-100mA	B3P(RX)
FBC-3	220V-45mA	SP(TX)/M3P(RX)
FBC-3L	220V-45mA	DIN(TX)/B3P(RX)
FBC-202	240V-45mA	SP(TX)/M3P(RX)
FBC-202L	240V-45mA	DIN(TX)/B3P(RX)
FBC-7B(1)	117V-45mA	SP(TX)/M3P(RX)
FBC-7B(4)	117V-45mA	SP(TX)/B3P(RX)
FBC-7B(2)	117V-45mA	DIN(TX)/B3P(RX)

NICAD POWER SET:

Set No.	Contents
FBPK-2	Charger/NT-8CG/NR-4C
FBPK-4	Charger/AA0114 x4/NR-4C
FBPK-5	FBC-5/NR-4I/(1,000mA)
FBPK-7	Charger/NT-8J/NR-4J/Jack
FBPK-8	Charger/NT-8J/NR-4M/Jack
FBPK-10	Charger/NT-8J/NR-4C/Jack
FBPK-11	Charger/NT-4H/NR-4H/SSW-GS
FBPK-12	Charger/NT-8LP/for T2PK.A.
FBPK-	Charger/NT-8LP/NR-4J

RATE GYRO



The FP-G132 and G152 RATE GYRO automatically stabilizes the model by detecting its angular speed and sending the detected signal to the gyro. It is a high performance automatic stabilizer for models and is identical to that used in actual aircraft ships.

ACCESSORIES



- (1) AA0313 Dry-holder (w/B3P-connector)
- (2) AK2006 Dry-holder w/Switch. (w/B3P)
- (3) S30055 TX-Battery holder (7-cell)
- (4) S30050 TX-Battery holder (8-cell)
- (5) AK2000 Switch harness w/Charger plug (w/B3P)
- (6) AK2003 Switch harness (w/B3P)
- (7) AS2011 Servo connector (w/M3P)
- (8) AT2165 Servo connector (w/B3P)
- (9) AA2011 Battery connector (w/M3P)
- (10) AT2166 Battery connector (w/B3P)
- (11) AT2169 Retractor adaptor cord (w/B3P)
- (12) AT2161 Extension cord 200mm. (w/B3P)
- (13) AB0062 Extension cord 300mm. (w/M3P)
- (14) AB0035 Charging cord (Plug & M3P+)
- (15) AB0020 Charging cord (Plug & Plug)
- (16) TR-10 Trainer cord (1.5 meters)
- (17) AT2216 DSC. CHG-cord
- (18) AT2170 DSC-intermediate cord
- (19) AT2160 DSC (Direct Servo Controller) cord
- (20) S91105 Power jack for T4NLG, J5NLP, T6NLK.
- (21) AT2245 Charging adaptor (M3P & B3P+)

SERVO HORN

Splined Horn
This horn permits shifting of the servo neutral position at the servo horn.



horn A
S01236



horn B
S01237

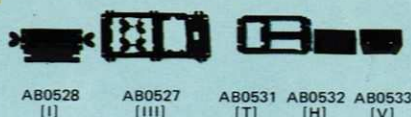


horn C
S01238



horn D
S01239

SERVO TRAY



AB0528 [I] AB0527 [III] AB0531 [T] AB0532 [H] AB0533 [V]



AB0530 [II] AB0535 [III] AB0529 [IV]

SERVO TRAY:

AB0628 [I]	S29, S129, S24, S124,
AB0627 [II]	S24H, S124H
AB0530 [II]	S21, S121, S21S, S121S, S21H, S212H,
AB0535 [III]	S30, S130, S30S, S130S, S30G, S130G,
AB0529 [IV]	S32, S132, S32H, S132H
AB0531 [T]	
AB0532 [H]	S20, S120
AB0533 [V]	
AB0720 [I]	S28, S128, S28G, S128G,
AB0721 [III]	S31S, S131S, S315H, S131SH
AB0722 [IV]	

FUTABA RADIO CONTROL COMPLETE SET COMPONENTS

MODELS Set No.	CHANNEL	RECEIVER	SERVOS	FREQUENCY (MHz)	STD-POWER Source (TX) (RX)	ACCESSORIES
Two (2) Channels						Battery holder, Switch, and others.
FP-2MR Compact	AM 2ch.	FP-R2GS (R102GS) with servo reversing switches.	FP-S28 (S128) x 2	27, 29, 72, 75	(D) (D)	
FP-2NL Attack	AM 2ch.	FP-R2GS (R102GS) (with servo reversing switches for 2NR)	FP-S28 (S128) x 2	27, 29, 72, 75	(D) (D)	
FP-2PJ Magnum-Jr.	AM 2ch.	FP-R102GS	FP-S128 x 2	27, 29, 72, 75	(D) (D)	
FP-2PKA Magnum-Racer	AM 2ch.	FP-R102GS	FP-S128 x 2	27, 72, 75	(D) (D)	(NicaD = Option) (FBPK-12 power set)
Three (3) channels						NicaD (NT8P)charger Switch & others.
FP-3PGX Magnum-PCM	PCM 3ch.	FP-R103iP	FP-S132H x 2	27, 29, 40, 54, 72, 75	(N) (D)	
FP-3EGX	AM 3ch.	FP-R104H	FP-S31S x 2	27, 29, 72, 75	(N) (N)	
CONQUEST-Series						Dry-holder, switch-harness, Aileron cord, and others. (NicaD = Option)
FP-4NLG	AM 4 ch.	FP-R104H	FP-S128 x 3	27, 29, 36, 40, 72	(D) (D)	
FP-4NLG	FM 4ch.	FP-R105M	FP-S128 x 3	29, 35, 36, 40, 60, 72	(D) (D)	
FP-5NLP	PCM 5ch.	FP-R105iP	FP-S128 x 3	29, 35, 36, 40, 60, 72	(D) (D)	
FP-6NLK	FM 6ch.	FP-R107M	FP-S128 x 4	29, 35, 36, 40, 60	(D) (D)	
						NicaD (NT8LP/NR4J) Charger, Switch-harness, others.
FP-5NLP	PCM 5ch.	FP-R105iP	FP-S128 x 3	29, 35, 36, 40, 60, 72	(N) (N)	
FP-6NLK	FM 6ch.	FP-R107M (R107Q)	FP-S128 x 4	29, 35, 36, 40, 60(72)	(N) (N)	
FP-5NLH Helicopter	FM 5ch.	FP-R107M	FP-S128 x 4	29, 35, 36, 40, 60, 72	(N) (N)	
FG-Series						NicaD (NT8H/NR4J), Charger, Switch harness, Aileron cord and others.
FP-4FG	FM 4ch.	FP-R107M (R107Q)	FP-S128 x 4	29, 35, 36, 40, 60(72)	(N) (N)	
FP-6FG	FM 6ch.	FP-R107M (R107Q)	FP-S128 x 4	29, 35, 36, 40, 60(72)	(N) (N)	
FP-5FGK	FM 5ch.	FP-R107M (R107Q)	FP-S128 x 4	29, 35, 36, 40, 60(72)	(N) (N)	
FP-6FGK	FM 6ch.	FP-R107M (R107Q)	FP-S128 x 4	29, 35, 36, 40, 60(72)	(N) (N)	
FP-7FGK	FM 7ch.	FP-R107M (R107Q)	FP-S128 x 4	29, 35, 36, 40, 60(72)	(N) (N)	
FP-7FGH Helicopter	FM 7ch.	FP-R107M (R107Q)	FP-S130 x 4	29, 35, 36, 40, 60(72)	(N) (N)	
SG-Series						NicaD (NT8H/NR4J) Charger, Switch harness, Aileron cord, and others.
FP-8AP	PCM 8ch.	FP-R118GP	FP-S130 x 3	29, 35, 36, 40, 60, 72	(N) (N)	
FP-8HP Helicopter	PCM 8ch.	FP-R118GP	FP-S130 x 3	29, 35, 36, 40, 60, 72	(N) (N)	
FP-8SGAP	PCM 8ch.	FP-R118GP	FP-S130SH x 4 FP-S130G x2	29, 35, 36, 40, 60, 72	(N) (N)	
FP-8SGHP Helicopter	PCM 8ch.	FP-R118GP	FP-S131S x 5	29, 35, 36, 40, 60, 72	(N) (N)	

* All Futaba radio control models are convertible to NiCad battery operation.

* (N): NiCad battery, (D): Dry-battery systems.



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