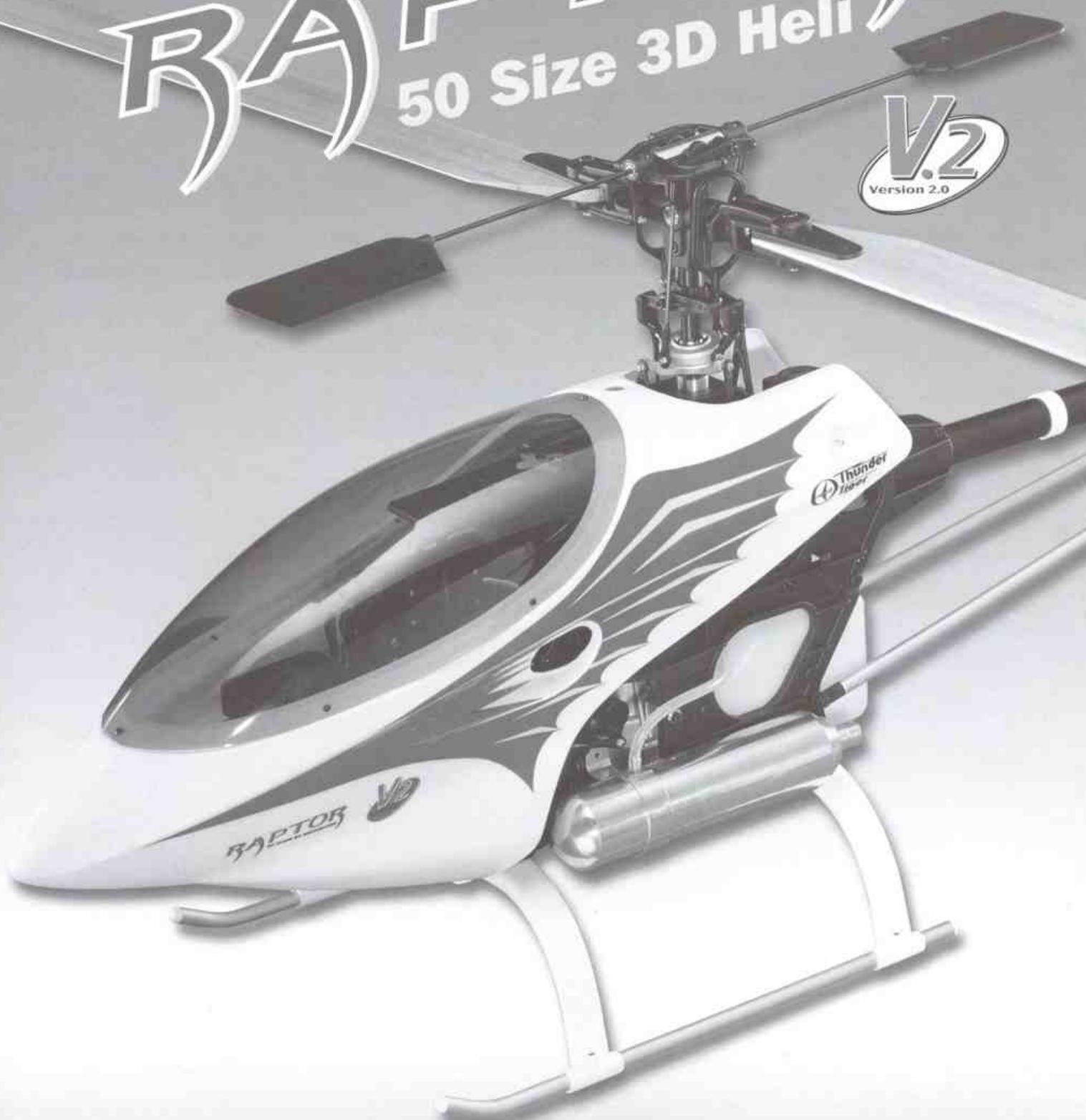




RAPTOR

50 Size 3D Heli

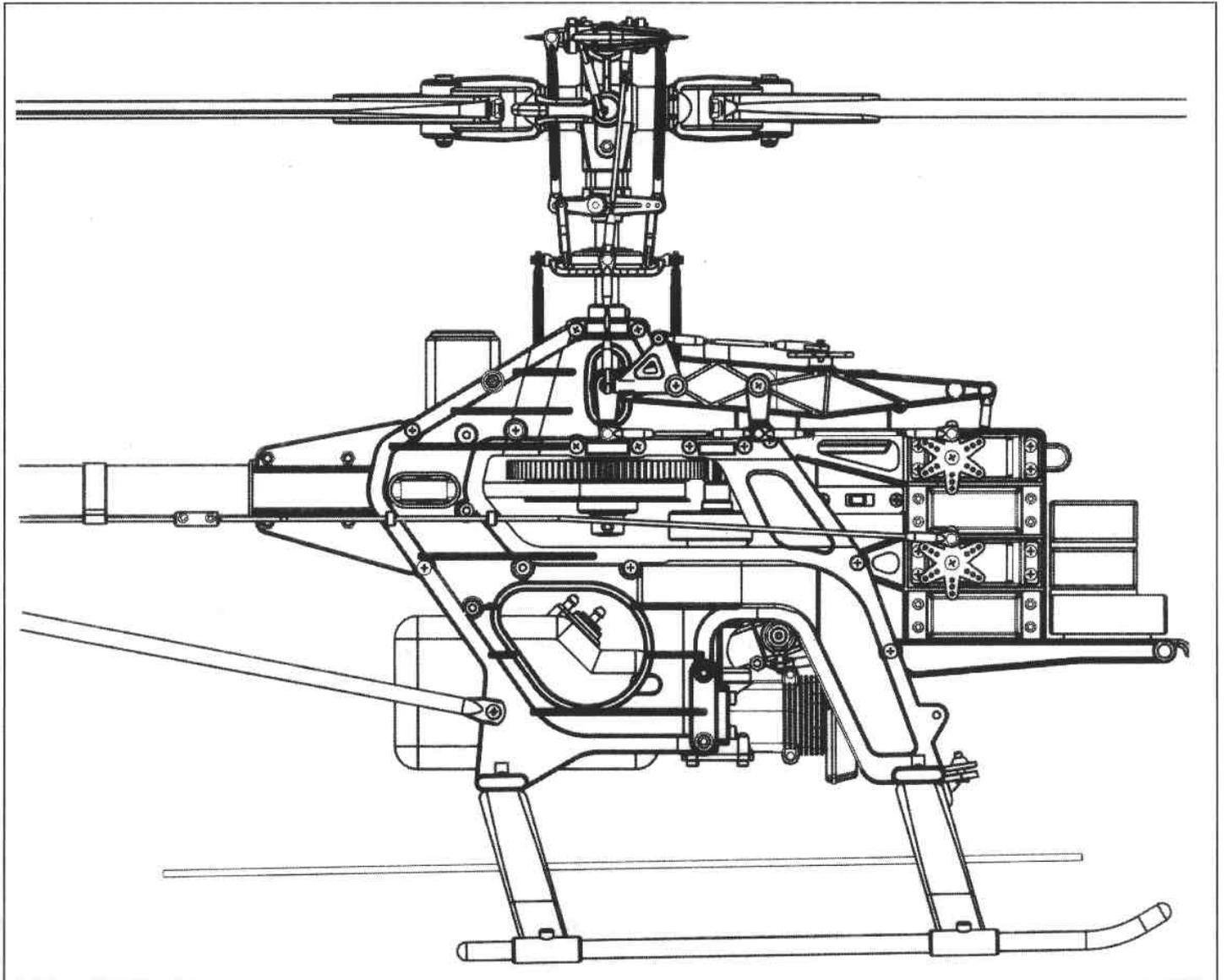


MANUAL

Montage & Bedienungsanleitung

Thunder Tiger Deutschland GmbH - Ulmer Landstr. 249 - D-86391 Stadtbergen
www.thundertiger.de

TEILELISTE





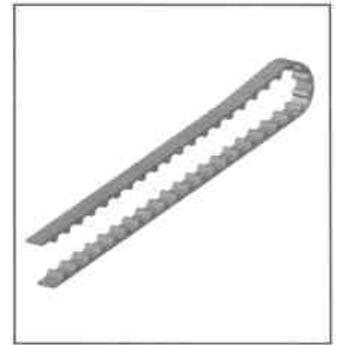
50AK0004 Stabstangenlagerwippe



50AK0029 Hauptrotorwelle



50AK0148 Hauptzahnrad



50AK0174 Zahnriemen



50AV0052 Riemenrolle, montiert



50AV0143 Lüfterrad



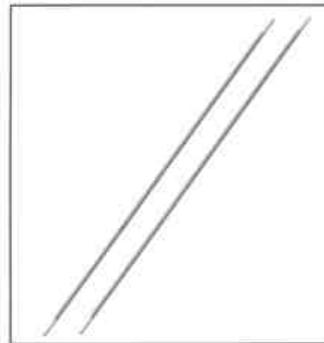
50PV0002 Winkelhebelset



50PV0004 Mischerhebelset



50PV0005 Mischerhebelegestänge



50PV0008 Paddelstange



50PV0011 Pitchkompensator



50PV0012 Pitchbrücke



50PV0013 Nick Kontroll Arm



50PV0014 Nick Kontroll Hebel



50PV0015 Roll Winkelhebel



50PV00163 Heckrotor Winkelhebel



50PV0017 Steuerbrücken Set



50PV0018 Hauptrotorwellensicherungring



50PV0019 Freilauf



50PV0020 Freilaufwelle



50PV0021 Riemenrollen, mont.



50PV0027 Heckrotorgehäuse



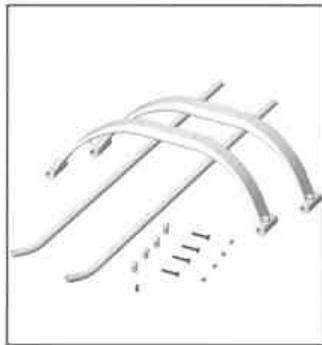
50PV0029 Heckrotorriemenrad



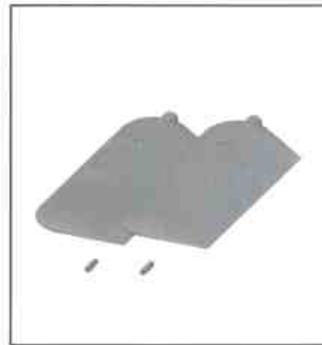
50PV0030 Heckrotorwelle



50PV0033 Servohalter



50PV0035 Kufen Set



50PV0036 Paddel



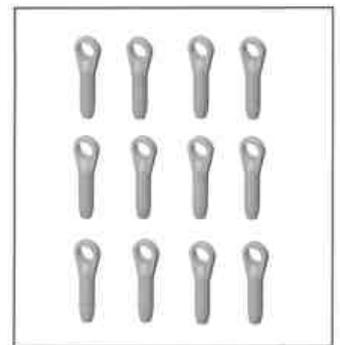
50PV0037 Heckrotorblätter



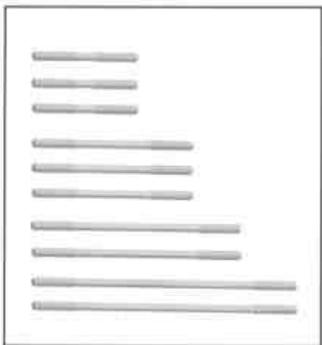
50PV0038 Leitwerke



50PV0040 Doppelkugelkopf



50PV0041 Kugelköpfe



50PV0044 Anlenkgestänge



50PV0048 Stabstangenwippenkugellager



50PV0049 Stabiwippe/blathkugellager



50PV0051 Winkelhebelkugellager



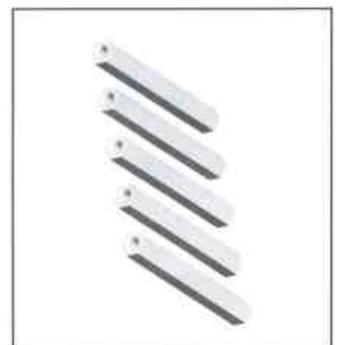
50PV0052 Steuerbrückenkugellager



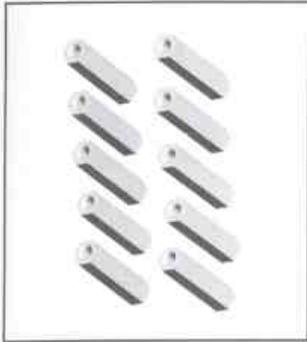
50PV0053 Rotorblattschrauben



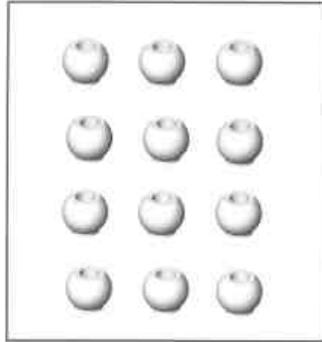
50PV0054 Servohalteplättchen



50PV0056 Chassisverbinder (L)



50PV0057 Chassisverbinder (S)



50PV0058 Kugeln



50PV0059 TailShaft Kugellager



50PV0058 Installations Set



50PV0062 Gummitüllen



50PV0092 Taumelscheibe



50PV0093 Hauptrotorwellenlager



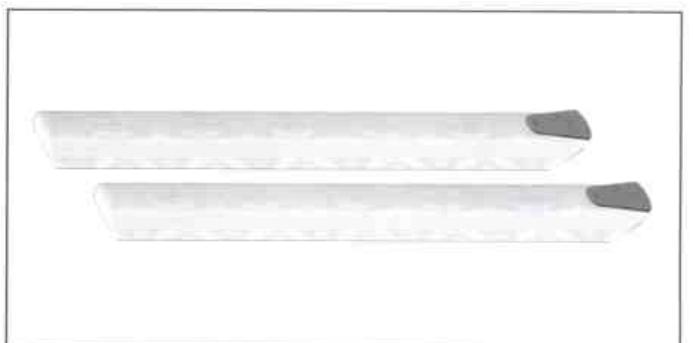
50PV0107 Motorträger (.50)



50PV0109 Schalldämpfer
(.46-50)



50PV0148 Heckrotorblatthalter



50PV0118 Hauptrotorblätter



50PV0151 Heckrotornabe



50PV0062 Gummitüllen



50PV0203 Starterwellenkugellager



50PV0267 Loctite #242



50PV0268 Loctite #262



50PV0270 Getriebefett



50PV0279 Heckrotorgestänge-
führung



50PV0311 Zusatztank



50PV0326 Grundplatte



50PV0329 Heckrohrabstützung



50PV0353 Hauptrotorblatthalter



50PV0354 Rotorkopfzentralstück



50PV0355 Blattlagerwelle



50PV0358 Kupplungsglocke



50PV0359 Kupplung



50PV0360 Starterwelle



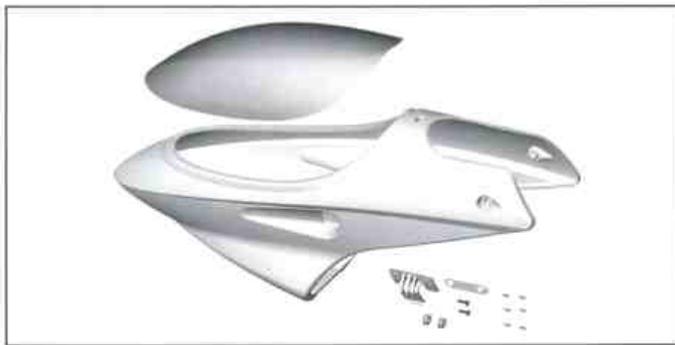
50PV0361 Starteradapter



50PV0363 Tank



50PV0362 Chassis



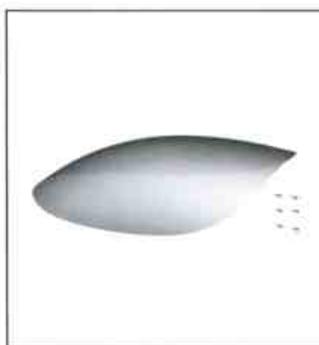
50PV0364 Haube komplett Set



50PV0365 Axiallager



50PV0368 Kupplungsbelag



50PV0369 Fenster



50PV0370 Haube einzeln



50PV0372 Druckscheiben



50PV0373 Kupplungsglockenlager



50PV0374 Blatthalerkugellager



50PV0375 Haubenhalterung



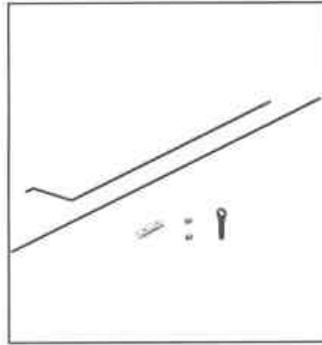
50PV0379 Autorotationszahnrad



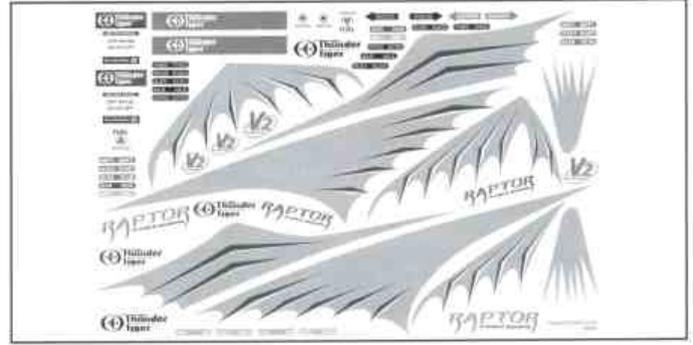
50PV0380 Ritzel (10T)



50PV0381 Dämpfer



50PV0392 Heckrotoransteuerung



50PV0389 Decorbogen



50PV0393 Heckrohr

	HMF2-6N M2X6 HMF2-8N M2X8
	HMJ2-10N M2X10 HMJ2-14N M2X14 HMJ2-6B M2X6 HMJ3-22B M3X22
	HSE2-10B M2X10 HSE2612N M2.6X12 HSE3-12B M3X12 HSE3-18B M3X18
	HSE3-5B M3X5

50PV0088 Schraubenset

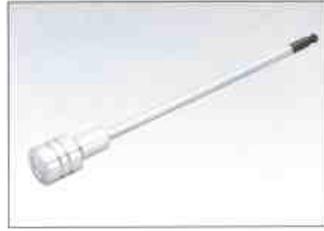
	HMC3-10B M3X10 HMC3-12B M3X12 HMC3-14B M3X14 HMC3-20B M3X20 HMC3-25B M3X0.5L25 HMC3-32B M3X0.5XL32 HMC3-8B M3X8 BK0616 M3x20
	HME3-10B M3X10 HME3-18B M3X18 HME3-5B M4X5

50PV0089 Schraubenset

Zubehörteile



503800 Blattthaler



503801 Starteradapter 6mm



503802 Pitchlehre



503803 Glühkerzenadapter



502000 Drehzahlmesser

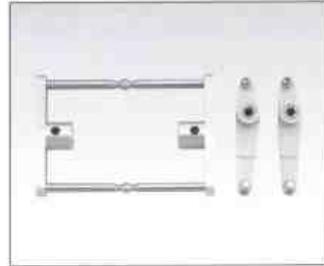


50800 Tg8000 Piezo Kreisel

Tuningteile



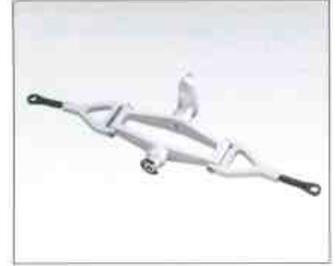
50PV0068 Pitchbrücke (Alu/CFK)



50PV0095 Mischhebel Alu



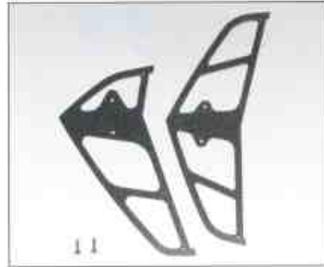
50PV0096 PitchkompensatorAlu



50PV0097 Nickansteuerung Alu



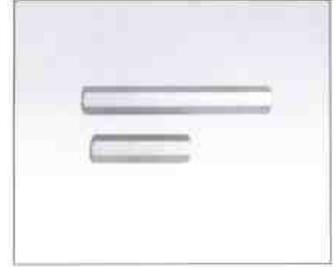
50PV0098 Rollwinkelhebel Alu



50PV0100 Leitwerke Carbon



50PV0101 Kufengestell Carbon



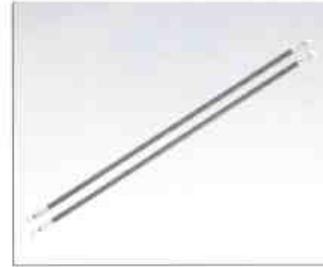
50PV0104 Chassisverbinder Alu



50PV0106 Lüfterrad Alu



50PV0321 Heckservobefestigung,
hinten



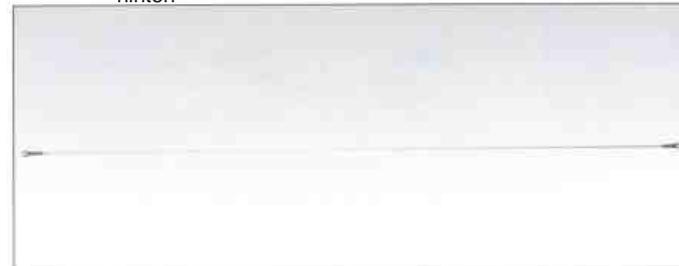
50PV0329 Heckstreben Carbon



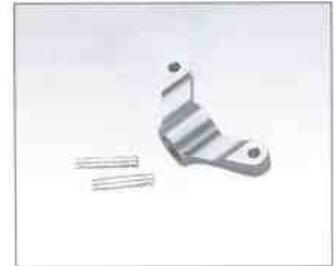
50PV0338 Rotorkopfzentralstück Alu



50PV0339 Blattthaler Alu



50PV0346 Heckservoansteuerung R50



50PV0341 Steuerbrücke Alu



50PV0349 Push/Pull Set f. Nick-Steuerung



50PV0382 80er Dämpfer f. Noch extr. 3D V2 fliegen



50PV0384 Kabelhalter



50PV0387 Gasanlenkhebel Alu



50PV0390 Heckrohr, Carbon



503827 Hauptrotorblätter
Carbon, 600mm



509605 PRO-50H Motor

Es können nur die Best.-Nr. (PV.....) bestellt werden, nicht die Teile Nr. !

Best.Nr.	Bezeichnung	Teile Nr.	Teilebezeichnung	Menge	Montageschritt
AK0004	Flybar Seesaw	BK0004	Flybar Seesaw Hub	1	11
AK0029	Main Shaft	BK0029	Main Shaft	1	9
AK0148	8ST Main Spur Gear	BK0148	8ST Main Spur Gear	1	4
AK0174	Tail Dirve Belt	BK0174	Tail Dirve Belt	1	14
AV0052	Tail Idel Pulley Assy.	BV0052	Tail Idel Pulley	1	13
AV0143	Cooling Fan Assy.	BV0143	Cooling Fan Assy.	1	8
PV0002	Flybar Arm	BK0002	Flybar Control Arm	2	11
		BK0005	Flybar Arm Bushing	2	11
		BK0075	Linkage Ball	2	11
		HME4-5B	Set Screw, M4x5	2	11
		HMJ2-10N	Selftapping Screw, M2x10	2	11
PV0004	Mixing Lever	BK0006	Mixing Lever	2	11
		BK0075	Linkage Ball	4	11
		BK0076	Collar (dxD4xL10)	2	11
		BK0088	Flat Washer	2	11
		HMC3-14B	Socket Screw, M3x14	2	11
		HMJ2-10N	Selftapping Screw, M2x10	4	11
PV0005	Flybar Control Rod	BK0007	Flybar Control Rod	2	11
PV0008	Flybar Rod	BK0010	Flybar Rod	2	11
PV0011	Washout Set	BK0014	Washout Base	1	5
		BK0015	Flyber Control Lever	1	5
		BK0016	Washout Linkage	2	5
		BK0075	Link Ball	2	5
		BK0077	Collar (d3xD4xL6)	2	5
		BK0079	Pin	2	5
		HMC3-10B	Socket Screw, M3x10	2	5
		HMJ2-10N	Selftapping Screw, M2x10	2	5
PV0012	Pitch Control Arm	BK0017	Pitch Control Arm	1	6
		BK0075	Link Ball	1	6
		BK0078	Collar (d3xD4xL4)	2	6
		HMJ2-10N	Selftapping Screw, M2x10	1	6
		HMJ3-22B	Selftapping Screw, M3x22	1	6
		HSE3-12B	Selftapping Screw, M3x12	1	6
PV0013	Elevator Arm	BK0018	Elevator Control Arm	1	6
		BK0019	Elevator Arm Parallel Lever	1	6
		BK0020	Elevator Arm Shaft	1	6
		BK0023	Elevator Arm Linkage	2	6
		BK0075	Linkage Ball	1	6
		BK0084	Pin (D2xL23)	2	6
		HMJ2-10N	Selftapping Screw, M2x10	1	6
		HSE3-18B	Selftapping Screw, M3x18	2	6
PV0014	Elevator Lever	BK0021	Elevator Control Lever	1	6
		BK0075	Linkage Ball	2	6
		BK0076	Collar (d3xD4xL10)	1	6
		BK0088	Flat Washer	1	6
		HMJ2-14N	Selftapping Screw, M2x14	1	6
PV0015	Aileron Lever	BK0022	Aileron Control Lever	2	6
		BK0075	Linkage Ball	4	6
		BK0076	Collar (d3xD4xL10)	2	6
		HMJ2-10N	Selftapping Screw, M2x10	4	6
		HSE3-18B	Selftapping Screw, M3x18	2	6
PV0016	Tail Pitch Control Lever	BK0024	Tail Pitch Control Lever	1	13
		BK0075	Linkage Ball	1	13

Setzen sie die Zahl 50 vor die Best.-Nr., Somit haben sie die TRIOX / Thunder Tiger Bestellnummer.

Es können nur die Best.-Nr. (PV.....) bestellt werden, nicht die Teile Nr. !

Best.Nr.	Bezeichnung	Teile Nr.	Teilebezeichnung	Menge	Montageschritt
		BK0076	Collar (d3xD4xL10)	1	13
		BK0088	Flat Washer	1	13
		HMJ2-8N	Selftapping Screw, M2x8	1	13
		HSE3-18B	Selftapping Screw, M3x18	1	13
PV0017	Tail Pitch Slider	BK0025	Tail Pitch Control Fork	1	13
		BK0026	Tail Pitch Control Linkage	2	13
		BK0027	Tail Pitch Control Slider	1	13
		BK0028	Tail Pitch Control Slide Bushing	1	13
		BK0075	Linkage Ball	1	13
		BK0082	Collar, d2xD3xL4	2	13
		BK0083	Pin, D2xL9	2	13
		HMF2-8N	Screw, M2x8	1	13
		HSE2-10B	Selftapping Screw, M2x10	2	13
PV0018	Main Shaft Lock Ring	BK0030	Main Shaft Lock Ring	1	7
		HME4-5B	Set Screw, M4x5	2	7
PV0019	One Way Clutch	BV0033	One Way Clutch Housing Set	1	4
		HMC3-12	Socket Screw, M3x12	4	4
PV0020	One Way Clutch Shaft	BK0034	One Way Clutch Shaft	1	4
		HMC3-20B	Socket Screw, M3x20	1	4
		HMM3Z	Lock Nut, M3	1	4
		HMQ14	Retaining Ring, ø14	2	4
PV0021	Guidie Pulley Assy	BV0035	Guide Pulley	1	3
		BK0036	Pulley Collar	2	3
		BK0081	Pin, D13xL18	1	3
PV0027	Tail Case	BK0046	Tail Unit Housing (L)	1	14
		BK0047	Tail Unit Housing (R)	1	13
		HMC3-20B	Socket Screw, M3x20	4	14
		HMC3-25B	Socket Screw, M3x25	2	14
		HMM3Z	Lock Nut, M3	6	14
PV0029	Tail Pulley Set	BK0050	Tail Pulley Set	1	13
		BK0051	Tail Pulley Flange	1	13
		BK0414	Pin, D2xL12	1	13
		HME3-4B	Set Screw, M3x4	1	13
PV0030	Tail Rotor Shaft	BK0053	Tail Rotor Shaft	1	13
		BK0414	Pin, D2xL12	1	13
		HME3-4B	Set Screw, M3x4	1	133
PV0033	Servo Frame	BK0057	Servo Frame	1	3
		HMJ3-12B	Selftapping Screw, M3x12	6	3
PV0035	Landing Skid Set	BK0064	Skid	2	10
		BK0065	Skid Cap	4	10
		BK0066	Skid Brace	2	10
		HMJ3-18B	Selftapping Screw, M3x18	4	10
		HME4-5B	Set Screw, M4x5	4	10
PV0036	Flybar Paddle	BK0067	Flybar Paddle	2	11
		HME3-10B	Set Screw, M3x10	2	11
PV0037	Tail Rotor Blade	BK0068	Tail Rotor Blade	2	15
PV0038	Tail Fin	BK0069	Stabilizer Fin	1	14
		BK0070	Stabilizer Fin Bracket	1	14
		BK0071	Vertical Fin	1	14
		HSE3-12B	Selftapping Screw, M3x12	2	14
PV0040	Double Link	BV0085	Double Link	2	11
PV0041	Ball Link	BK0086	Ball Link	12	12
PV0044	Link Rod	BK0092	Linkage Rod (L=30)	3	17

Setzen sie die Zahl 50 vor die Best.-Nr., Somit haben sie die TRIOX / Thunder Tiger Bestellnummer.

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Best.Nr.	Bezeichnung	Teile Nr.	Teilebezeichnung	Menge	Montageschritt
		BK0093	Linkage Rod (L=45)	3	17
		BK0094	Linkage Rod (L=60)	2	17
		BK0095	Linkage Rod (L=76)	2	17
PV0048	Pitch Frame/ Rotor Hub Seesaw Brg.	HMV840ZZ	Bearing, d4xD8xW3	2	6
PV0049	Seesaw Brg.	HMV830ZZ	Bearing, d3xD8xW4	2	11
PV0051	Leaver Brg.	HMV740ZZ	Bearing, d4xD7xW2.5	4	5
PV0052	Tail Slider Brg.	HMV1060	Bearing, d6xD10xW3	2	13
PV0053	Rotor Bolt.	HMC4-27B	Cap Screw, M4x27	2	20
		HMM4Z	Lock Nut, M4	2	20
PV0054	Servo Mounting Plate	BK0104	Servo Mounting Plate	10	16
PV0056	Frame Spacer (L)	BK0058	Frame Spacer (L)	5	3
PV0057	Frame Spacer (S)	BK0059	Frame Spacer (S)	10	3
PV0058	Link Ball	BK0075	Linkage Ball	12	5
PV0059	Tail Shaft Brg.	HMV1150	Bearing, d5xD11xW	2	13
PV0060	Installation Set	BE1052	Antenna Tube	1	18
		BK0106	Double Side Tape	2	18
		BK0109	Rubber Band 5x3 20xT1	2	18
		HNI15	Hex Wrench 1.5m/m	1	1
		HNI2	Hex Wrench 2m/m	1	1
		HNI25	Hex Wrench 2.5m/m	1	1
		HNI3	Hex Wrench 3m/m	1	1
		HNJ-1	Tie Band 2.5x100	3	8
PV0062	Body Mount Rubber Grommet	BK0102	Body Mount Rubber	5	19
PV0092	Swash plate	BV0092	Metal swash plate	1	7
PV0093	Main Shaft Bearing	HMV1680	Bearing, d8xD16xW5	1	2
		HMV6800	Bearing, d10xD19xW5	2	6
PV0107	Engine Mount (.50)	BK0087	Washer	4	9
		BK0144	Engine Mount	1	9
		BK0179	Engine Mount Spacer	2	9
		HMC3-14	Socket Screw	8	9
PV0109	High Performance Muffler(.46~.50)	BA1579	Muffler Gasket	1	9
		MV0172	Muffler		9
		HMC3-35B	Socket Screw	2	9
		HMT3B	Spring Wsher	2	9
PV0118	Main Rotor Blades	BV0176	Main Rotor Blade	1	20
PV0148	Tail Rotor Grip	BK0302-1	Tail Pitch Housing (A)	2	13
		BK0303-1	Tail Pitch Housing (B)	2	13
		HMC2610B	Socket Screw, M2.6x10	4	13
		HMM26B	Lock Nut, M2.6	4	13
		HMC3-14B	Socket Screw, M3x14	2	13
		HMM3B	Lock Nut, M3	2	13
PV0151	Tail Rotor Hub	BK0307	Tail Rotor Hub	1	13
		HME3-18B	Set Screw, M3x18	2	13
		HMM3B	Lock Nut, M3	2	13
PV0200	Tail Rotor Brg.	HMV1050	Bearing, d5xD10x5	4	13
PV0203	Starter Shaft Brg.	HMV696Z	Bearing, d6xD15x5	2	3
PV0267	Loctite #242			1	
PV0268	Loctite #262			1	
PV0270	Plastic Gear Grease			1	
PV0279	Tail Rod Guide	BK0091	Rod Guide	3	14
PV0311	Header Tank	BK0087	Washer	1	15
		BK0102	Rubber Grommer	1	15

Setzen sie die Zahl 50 vor die Best.-Nr., Somit haben sie die TRIOX / Thunder Tiger Bestellnummer.

Es können nur die Best.-Nr. (PV.....) bestellt werden, nicht die Teile Nr. !

Best.Nr.	Bezeichnung	Teile Nr.	Teilebezeichnung	Menge	Montageschritt
		BK0506	Header Tank Support	1	15
		BK0502	Header Tank	1	15
		HMC3-14B	Socket Screw	1	15
PV0326	Carbon Graphite Base Plate	BK0525	Carbon Graphite Base Plate	1	10
PV0329	Tail Support	BK0447	Tail Support Rod End	4	14
		BK0524	Tail Support Rod	2	14
		HMJ2-8N	Selftapping Screw, M2x8	4	14
PV0353	Main Rotor Grip	BK0075	Linkage Ball	2	11
		BK0596	Main Pitch Housing	2	11
		HMJ2-10N	Selftapping Screw, M2x10	2	11
PV0354	Main Rotor Hub	BK0587	Main Rotor Pin	1	11
		BK0616	Socket Screw, M3x20	1	11
		BV0595	Main Rotor Hub	1	11
		HMM3Z	Lock Nut, M3	1	12
PV0355	Spindle	BK0581	Flap Collar	2	11
		BK0583	Feathering Shaft	1	11
		BK0435	Washer, d4xD11x1.7	2	11
		HMC4-8B	Socket Screw, M4x8	2	11
PV0358	Clutch Bell	BV0591	Clutch Bell Set	1	2
PV0359	Clutch	BK0170	Shim	1	8
		BV0589	Clutch Bell Set	1	8
		HMC3-10B	Socket Screw, M3x10	2	8
PV0360	Starter Shaft	BK0592	Starter Shaft	1	3
		HME4-5B	Set Screw, M4x5	2	3
		HMS5	E-Clip	1	3
PV0361	Starter Coupling	BK0594	Starter Coupling	1	3
		HME4-5B	Set Screw, M4x5	2	3
PV0362	Main Frame Set	BK0058	Frame Spacer (L)	4	3
		BK0059	Frame Spacer (S)	8	3
		BK0599	Main Frame Left Side	1	3
		BK0600	Main Frame Right Side	1	3
		HMC3-20B	Socket Screw, M3x20	4	15
		HMM3Z	Lock Nut, M3	4	15
		HSE3-12B	Selftapping Screw, M3x12	24	3
PV0363	Fuel Tank	BV0605	Fuel Tank Set	1	1
PV0364	Body	BK0098	Body Clip A	1	19
		BK0099	Body Clip B	1	19
		BK0102	Robber Groment	2	19
		BK0611	Body	1	19
		BK0612	Canopy	1	19
		HSE3-12B	Selftapping Screw, M3x12	2	19
PV0365	Thrust Brg.	HMX0612	Thrust Bearing	2	11
PV0368	Clutch Liner	BK0590	Clutch Liner	2	2
PV0369	Canopy Only	BK0612	Canopy	1	19
		HMJ2-6B	Self Tapping Screw, M2x6	6	19
PV0370	Body Only	BK0098	Body Clip A	1	19
		BK0099	Body Clip A	1	19
		BK0611	Body	1	19
		BK0102	Rubber Groment	2	19
		HSE3-12B	Self Tapping Screw, M3x12	2	19
PV0372	Thrust Collar	BK0584	Thrust Collar	2	11
PV0373	Clutch Bell Brg	HMV1260Y	Bearing, d6xD12xw4	2	2
PV0374	Feathering Brg.	HMV1360Z	Bearing, d6xD13xw5	2	11

Setzen sie die Zahl 50 vor die Best.-Nr., Somit haben sie die TRIOX / Thunder Tiger Bestellnummer.

Es können nur die Best.-Nr. (PV.....) bestellt werden, nicht die Teile Nr. !

Best.Nr.	Bezeichnung	Teile Nr.	Teilebezeichnung	Menge	Montageschritt
PV0375	Body Retaining Set	BK0626	Body Mount Nut	2	19
		HME3-18B	M3x18 Set Screw	2	19
PV0379	Auto Rotation Pully	BK0610	Auto Rotation Pully	1	4
		HMC3-8B	Socket Screw	4	4
PV0380	Pinion Gear (10T)	BK0624	Drive Gear	1	2
PV0389	Decal	JV0110	Decal	1	19
PV0392	Tail Control Rod	BK0086	Ball Link	2	14
		BK0105	Tail Control Rod Joint	1	16
		BK100-1	Push Pull Rod-1	1	16
		BK0175	Push Pull Rod-2	1	14
		HME4-5B	Set Screw, M4x5	2	14
PV0393	R50 Tail Boom	BK0173	Tail Boom	1	14
PV0088	Screw Bag	HMF2-6N	Screw, M2x6	6	
		HMF2-8N	Screw, M2x8	6	
		HMJ2-10N	Selftapping Screw, M2x10	6	
		HMJ2-14N	Selftapping Screw, M2x14	6	
		HMJ2-6B	Selftapping Screw, M2x6	6	
		HMJ3-22B	Selftapping Screw, M3x22	6	
		HSE2-10B	Selftapping Screw, M2x10	6	
		HSE2612N	Selftapping Screw, M2.6x12	6	
		HSE3-12B	Selftapping Screw, M3x12	6	
		HSE3-18B	Selftapping Screw, M3x18	6	
		HSE3-5B	Selftapping Screw, M3x5	6	
PV0089	Screw Bag	BK0616	Socket Screw, M3x20	2	
		HMC3-10B	Socket Screw, M3x10	6	
		HMC3-12B	Socket Screw, M3x12	6	
		HMC3-14B	Socket Screw, M3x14	6	
		HMC3-20B	Socket Screw, M3x20	4	
		HMC3-25B	Socket Screw, M3x25	6	
		HMC3-32B	Socket Screw, M3x32	6	
		HMC3-8B	Socket Screw, M3x8	6	
		HME3-10B	Set Screw, M3x10	6	
		HME3-18B	Set Screw, M3x18	6	
		HME4-5B	Set Screw, M4x5	6	

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