



No.4830 Raptor



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INDIVIDUAL PARTS NOT AVAILABLE

No.	NAME	Parts No.	Parts Name	quantity	Reference Assemble Step
PV0001	Main Rotor Grip	BK0001	Main pitch Housing	2	11
		HSE3-5B	M3x5 Selftapping Screw	4	11
		HMJ2-10N	M2x10 Selftapping Screw	2	11
		BK0075	Linkage Ball	2	11
PV0002	Flybar Arm	BK0002	Flybar Control Arm	2	11
		BK0005	Flybar Arm Bushing	2	11
		HME4-5B	M4x5 Set Screw	2	11
		HMJ2-10N	M2x10 Selftaping Screw	2	11
PV0003	Main Rotor Hub	BK0075	Linkage Ball	2	11
		BV0003	Main Rotor Hub	1	11
		BK0097	Main Rotor Pin	1	11
		HMM3Z	M3 Lock Nut	1	12
PV0004	Mixing Lever	HMC3-20B	M3x20 Socket Screw	1	12
		BK0006	Mixing Lever	2	11
		BK0076	Collar (d3xD4xL10)	2	11
		BK0075	Linkage Ball	4	11
PV0005	Flybar Control Rod	BK0088	Flat Washer	2	11
		HMJ2-10N	M2x10 Selftapping Screw	4	11
		HMC3-14B	M3x14 Socket Screw	2	11
		BK0007	Flybar Control Rod	2	11
PV0006	Thrust Collar	BK0008	Thrust Collar	2	11
PV0007	Spindle	BK0009	Feathering Shaft	1	11
		BK0096	Flap Collar	2	11
		HMM4Z	M4 Lock Nut	2	11
PV0008	Flybar Rod	BK0010	Flybar Rod	2	11
PV0009	Flap Damper	BK0011	Flap Damper	2	11
PV0010	Swash Plate Assy.	BV0013	Swash Plate Assy.	1	7
PV0011	Washout Set	BK0014	Washout Base	1	5
		BK0015	Flybar Control Lever	2	5
		BK0016	Washout Linkage	2	5
		BK0079	Pin	2	5
		BK0077	Collar (d3xD4xL6)	2	5
		HMC3-10B	M3x10 Socket Screw	2	5
		HMJ2-10N	M2x10 Selftapping Screw	2	5
		BK0075	Link Ball	2	5
PV0012	Pitch Control Arm	BK0017	Pitch Control Arm	1	6
		BK0078	Collar (d3xD4xL4)	2	6
		HMJ3-22B	M3x22 Selftapping Screw	1	6
		HSE3-12B	M3x12 Selftapping Screw	1	6
		BK0075	Link Ball	1	6
		HMJ2-10N	M2x10 Selftapping Screw	1	6
PV0013	Elevator Arm	BK0075	Link Ball	2	5
		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
		BK0084	Pin(D2xL23)	2	6
		BK0075	Linkage Ball	1	6
		HMJ2-10N	M2x10 Selftapping Screw	1	6
PV0014	Elevator Lever	HSE3-18B	M3x18 Selftapping Screw	2	6
		BK0021	Elevator Control Lever	1	6
		BK0076	Collar (d3xD4xL10)	1	6
		HMJ2-14N	M2x14 Selftapping Screw	1	6
		BK0088	Flat Washer	1	6



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		BK0075	Linkage Ball	2	6
PV0015	Aileron Lever	BK0022	Aileron Control Lever	2	6
		BK0076	Collar (d3xD4xL10)	2	6
		BK0075	Linkage Ball	4	6
		HMJ2-10N	M2x10 Selftapping Screw	4	6
		HSE3-18B	M3x18 Selftapping Screw	2	6
PV0016	Tail Pitch Control Lever	BK0024	Tail Pitch Control Lever	1	13
		BK0076	Collar (d3xD4xL10)	1	13
		BK0075	Linkage Ball	1	13
		BK0088	Flat Washer	1	13
		HMJ2-8N	M2x8 Selftapping Screw	1	13
		HSE3-18B	M3x18 Selftapping Screw	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	M2x8 Screw	1	13
		HSE2-10B	M2x10 Selftapping Screw	2	13
PV0018	Main Shaft Lock Ring	BK0030	Main Shaft Lock Ring	1	7
		HME4-5B	M4x5 Set Screw	2	7
PV0019	One Way Clutch	BV0033	One Way Clutch Housing Set	1	4
		HMC3-12B	M3x12 Socket Screw	4	4
PV0020	One Way Clutch Shaft	BK0034	One Way Clutch Shaft	1	4
		HMJ14	S14 Retaining Ring	2	4
		HMC3-20B	M3x20 Socket Screw	1	7
		HMM3Z	M3 Lock Nut	1	7
PV0021	Guide Pulley Assy.	BV0035	Guide Pulley	1	3
		BK0036	Pulley Collar	2	3
		BK0081	Pin	1	3
PV0022	Engine Mount	BK0037	Engine Mount	1	10
		HMC3-14B	M3x14 Socket Screw	8	10
		BK0087	Flat Washer	4	10
PV0023	Clutch Bell	BV0039	Clutch Bell Set	1	2
		BK0041	Clutch Liner	1	2
PV0024	Clutch	BV0040	Clutch Shoe Set	1	9
		HSC0612	One Way Clutch (d6xD10xW12)	1	9
		HMC3-10B	M3x10 Socket Screw	2	9
PV0025	Starter Shaft	BK0044	Starter Shaft	1	3
		HME4-5B	M4x5 Set Screw	2	3
PV0026	Starter Coupling	BK0045	Starter Coupling	1	3
		HME4-5B	M4x5 Set Screw	2	3
PV0027	Tail Case	BK0046	Tail Unit Housing (L)	1	13
		BK0047	Tail Unit Housing (R)	1	14
		HMC3-20B	M3x20 Socket Screw	4	14
		HMC3-25B	M3x25 Socket Screw	2	14
		HMM3Z	M3 Lock Nut	6	14
PV0028	Tail Rotor Grip	BK0048	Tail Pitch Housing (A)	2	13
		BK0049	Tail Pitch Housing (B)	2	13
		HMC3-14B	M3x14 Socket Screw	2	13
		HMJ2-10N	M2x10 Selftapping Screw	4	15



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No.	NAME	Parts No.	Parts Name	quantity	Reference Assemble Step
		HMM3Z	M3 Lock Nut	2	15
PV0029	Tail Pulley Set	BK0050	Tail Pulley	1	13
		BK0051	Tail Pulley Flange	1	13
		MHU2-12B	D2xL12 Spring Pin	1	13
PV0030	Tail Rotor Shaft	BK0053	Tail Rotor Shaft	1	13
		HMU2-12B	D2xL12 Spring Pin	1	13
PV0031	Tail Rotor Hub	BK0054	Tail Rotor Hub	1	13
		HME3-18B	M3x18 Set Screw	2	13
		HMM3Z	M3 Lock Nut	2	13
PV0032	Main Frame Set	BK0055	Main Frame Left Side	1	3
		BK0056	Main Frame Right Side	1	3
		BK0058	Frame Spacer (L)	4	3
		BK0059	Frame Spacer (S)	8	3
		HSE3-12B	M3x12 Selftapping Screw	24	3
		HMC3-20B	M3x20 Socket Screw	4	15
		HMM3Z	M3 Lock Nut	4	15
PV0033	Servo Frame	BK0057	Servo Frame	1	3
		HMJ3-12B	M3x12 Selftapping Screw	6	3
PV0034	Fuel Tank	BK0061	Fuel Tank	1	1
		BK0062	Fuel Tank Cap	1	1
		BK0063	Fuel Tank Nipple	1	1
		CB0363	Silicone Tube	1	1
		BE1867	Weight	1	1
PV0035	LandingSkid Set	BK0064	Skid	2	8
		BK0065	Skid Cap	4	8
		BK0066	Skid Brace	2	8
		HMJ3-18B	M3x18 Selftapping Screw	4	8
		HME4-5B	M4x5 Set Screw	4	8
PV0036	Flybar Paddle	BK0067	Flybar Paddle	2	11
		HME3-10B	M3x10 Set Screw	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	M3x12 Selftapping Screw	2	14
PV0039	Main Rotor Blades	BV0072	Main Rotor Blades	2	18
PV0040	Double Link	BV0085	Double Link	2	11
PV0041	Ball Link	BK0086	Ball Link	12	6...
PV0042	Tail Support	BK0090	Tail Boom Support	2	14
		HSE3-12B	M3x12 Selftapping Screw	4	14
PV0043	Tail Control Rod	BK0091	Rod Guide	3	14
		BK0100-1	Push Pull Rod-1	1	16
		BK0100-2	Push Pull Rod-2	1	16
		BK0086	Ball Link	2	14
		BK0105	Tail Control Rod Joint	1	14
		HME4-5B	M4x5 Set Screw	2	16
PV0044	Link Rod	BK0092	Linkage Rod (L=30)	3	17
		BK0093	Linkage Rod (L=45)	3	16
		BK0094	Linkage Rod (L=60)	2	16
		BK0095	Linkage Rod (L=76)	2	12
PV0045	Body	BK0101	Body	1	20
		BK0098	Body Clip A	1	20
		BK0099	Body Clip B	1	20



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		BK0102	Robber Grommet	2	20
		HSE3-12B	M3x12 Selftapping Screw	2	20
		BK0111	Canopy	1	20
PV0046	Elevator Arm Brg.	HMV1280	d8xD12xW3.5 Bearing	2	6
PV0047	Thrust Brg.	HMX0510	d5xD10xW4 Bearing	2	11
PV0048	Pitch Frame/ Rotor Hub Seesaw Brg.	HMV840ZZ	d4xD8xW3 Bearing	2	6/11
PV0049	Tail Grip & Seesaw Brg.	HMV830ZZ	d3xD8xW4 Bearing	2	11/13
PV0050	Feathering Brg.	HMV1350	d5xD13xW4 Bearing	2	11
PV0051	Lever Brg.	HMV740ZZ	d4xD7xW2.5 Bearing	4	6/13
PV0052	Tail Slider Brg.	HMV1060	d6xD10xW3 Bearing	2	13
PV0053	Rotor Bolt	HMC4-27B	M4x27 cap screw	2	18
		HMM4Z	M4 Lock Nut	2	18
PV0054	Servo Mounting Plate	BK0104	Servo Mounting Plate	10	
PV0055	Decal	PV0055	Decal	1	
PV0056	Frame Spacer (L)	BK0058	Frame Spacer (L)	5	
PV0057	Frame Spacer (S)	BK0059	Frame Spacer (S)	10	
PV0058	Link Ball	BK0075	Linkage Ball	12	
PV0059	Tail Shaft/Clutch Bell Brg.	HMV1150	d5xD11xW Bearing	2	2/13
PV0061	Body R	BK0103	Body Mount Nut	2	12
		HME 3-18B	M3x18 Set Screw	2	12
PV0062	Body Mount Rubber Grommet	BK0102	Body Mount Rubber	5	20
AK0004	Flybar Seesaw	BK0004	Flybar Seesaw Hub	1	11
AK0029	Main Shaft	BK0029	Main Shaft	1	7
AK0031	Main Spur Gear	BK0031	Main Spur Gear	1	4
AK0032	Tail Drive Pulley	BK0032	Tail Drive Pulley	1	4
AK0043	Pinion Gear	BK0043	Drive Gear	1	2
AK0089	Tail Drive Belt	BK0089	Tail Drive Belt	1	14
AV0038	Cooling Fan Assy.	BV0038	Cooling Fan Assy.	1	9
AK0060	Tail Boom	BK0060	Tail Boom	1	14
AV0052	Tail Idel Pulley Assy.	BV0052	Tail Idel Pulley	1	9
PV0063	Bushing Set (for 4831/4832)	BK0108	Bushing (d4xD8xW2.5)	2	6/13
PV0064	Bushing Set (for 4831/4832)	BK0107	Bushing (d4xD7xW3)	4	6/11
PV0088	Screw Bag	HMF2-6N	M2x6 Screw	6	
		HMF2-8N	M2x8 Screw	6	
		HMJ2-14N	M2x14 Selftapping Screw	6	
		HMJ2-6B	M2x6 Selftapping Screw	6	
		HMJ3-22B	M3-22 Selftapping Screw	6	
		HSE2-10B	M2x10 Selftapping Screw	6	
		HSE3-12B	M3x12 Selftapping Screw	6	
		HSE3-18B	M3x18 Selftapping Screw	6	
		HSE3-5B	M3x5 Selftapping Screw	6	
		HMJ2-10N	M2x10 Selftapping Screw	6	
		HSE2612N	M2.6x12 Selftapping Screw	6	
PV0089	Screw Bag	HMC3-10B	M3x10 Socket Screw	6	
		HMC3-12B	M3x12 Socket Screw	6	
		HMC3-14B	M3x14 Socket Screw	6	
		HMC3-20B	M3x20 Socket Screw	6	
		HMC3-25B	M3x25 Socket Screw	6	
		HMC3-32B	M3x32 Socket Screw	6	
		HMC3-8B	M3x8 Socket Screw	6	
		HME3-10B	M3x10 Set Screw	6	
		HME3-18B	M3x18 Set Screw	6	



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No.	NAME	Parts No.	Parts Name	quantity	Reference Assemble Step
		HME4-5B	M4x5 Set Screw	6	
No.9267	Muffler	BN267	Muffler	1	
PV0090	Clutch Liner	BK0041	Clutch Liner	2	
PV0091	Bearing Upgrade Kit	HMV740ZZ	d4xD7xW2.5	16	
		HMV840ZZ	d4xD8xW3	4	
PV0093	Main Shaft Bearing	HMV1680	d8xD16xW5	1	
		HMV6800	d10xD19xW5	2	
PV0060	Installation Set	BE1052	Antenna Tube	1	
		BK0106	Double Side Tape	2	
		BK0109	Rubber Band 5x320xT1	2	
		HNI15	Hex Wrench 1.5m/m	1	
		HNI2	Hex Wrench 2m/m	1	
		HNI25	Hex Wrench 2.5m/m	1	
		HNI3	Hex Wrench 3m/m	1	
		HNJ-1	Tie Band 2.5x100	3	
PV0065	Canopy Only	BK0111	Canopy	1	20
		HMJ2-6B	M2x6 Self Tapping Screw	6	20
PV0066	Body Only	BK0098	Body Clip A	1	20
		BK0099	Body Clip B	1	20
		BK0101	Body	1	20
		BK0102	Rubber Groment	2	20
		HSE3-12B	M3x12 Self Tapping Screw	2	20