



RADIO 2CH. ENGINE .09 ~.11 KIT NO. 3026



BEFORE ASSEMBLY

Thank you for your purchasing the Kyosho radio controlled car, Wildcat, Circuit 10. For achieving a well planned assembly and bring the performance potentiality of the model into full play, read this instruction thoroughly before assembly. The previously grasped knowledge of the structure will enable you fabricate the model in an orderly manner.

When the engine mounted on the car is new, give it a running-in operation in accordance with the procedures stated in the engine instruction to let the engine display its maximum capability and durability.

ARTICLE REQUIRED BESIDES THIS KIT

2 Channel Radio Control System





Transmitter Unit 3(AA) x 6 - 8 pcs. Receiver Unit 3(AA) x 4 pcs. Dry Battery for Radio Control System



Glow Plug (1.5V White Gold will be the best)



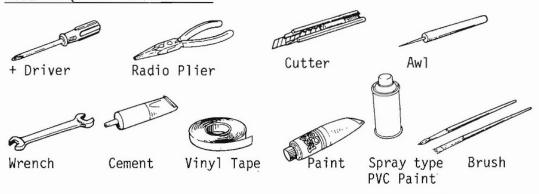
Engine (0S-10, Enya 09, 11CX)



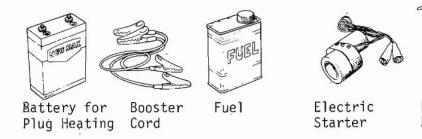
Heat Sink

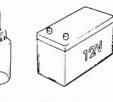
NOTE: Muffler and heat sink are not included in this kit. Please buy muffler and heat sink to fit the engine.

TOOLS REQUIRED FOR ASSEMBLY



ARTICLE REQUIRED FOR RUNNING



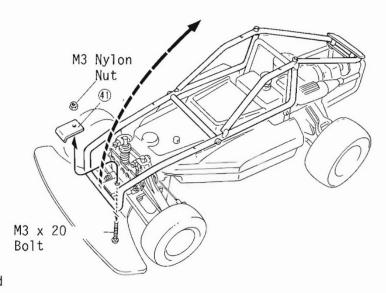


Fuel Pump

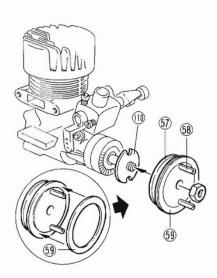
Starter Battery



The gear box is already assembled but tighten all screws once more and check the gear mesh.

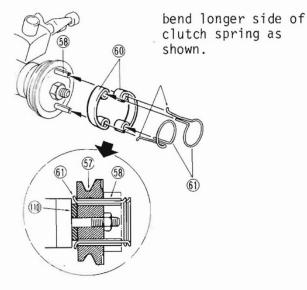


Take off the front body retainer ① by unscrewing M3 x 20 screw and M3 nylon nut, and fold back the front portion of the body toward the back.

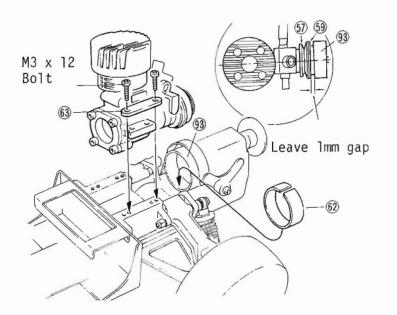


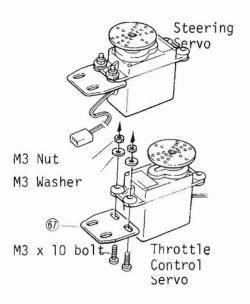
Cement the starter liner 4 to the flywheel 57 with contact cement.

Install the flywheel spacer (10) first, then the flywheel onto the engine shaft.



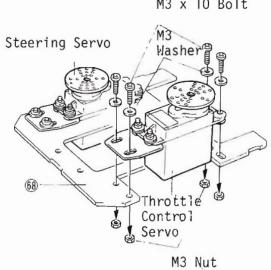
Install clutch shoe ① onto flywheel pin 68, the longer side of clutch spring ① is inserted into the hole of the flywheel pin 68 and the shorter side into the clutch shoe ⑥ hole. At this time, bend the longer side of the clutch spring ⑥ in crank shape to make it hard to come off.



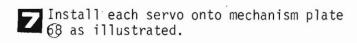


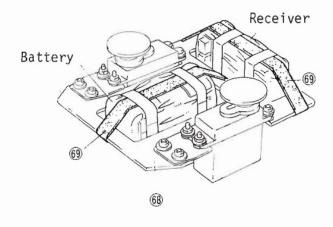
- -Gement clutch lining 🚱 onto the inner side of the clutch bell 93 with rubber type cement.
 - Next the engine is installed but when doing so, leave about 1mm gap between clutch bell 93 and starter lining 59 that was cemented onto the flywheel 57 and then install the engine with engine mounting plate 63.

Install adjustor plate 67 to steering servo and throttle control servo.

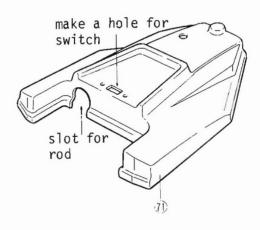


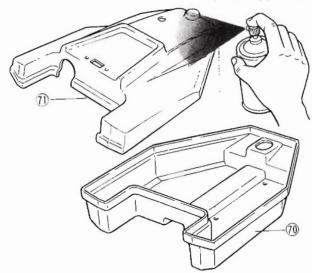
M3 x 10 Bolt



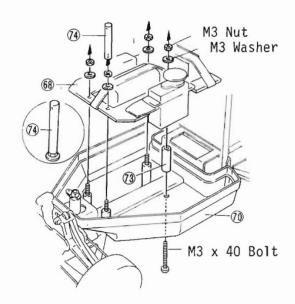


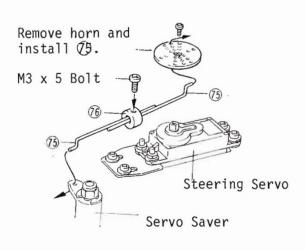
Put battery for radio control system and receiver into vinyl bag, close with vinly tape and install with mechanism stopper band 69 onto the mechanism plate.



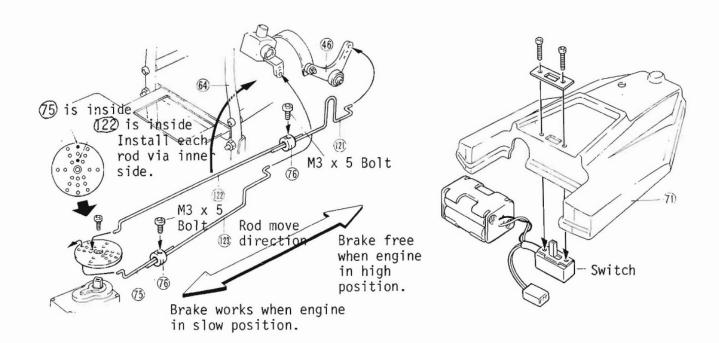


- Make holes with knife and awl in position illustrated on the mecha box lid (7).
- When painting the mechanism box (1) and the top (1), take off the mechanism box (1) from the chassis, and wash them with neutral detergent, and paint them in any colors at your choice with spray type PVC paints.

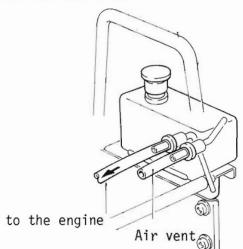




- Place mechanism box ① on top of main chassis ①, insert M3 x 40 screw from the bottom of the main chassis, then install in the order of mechanism plate collar ② and mechanism plate 68 with M3 nut and install mechanism box ② in position shown in illustration.
- When installing steering linkage, first keep the servo and servo saver in the neutral position, install linkage rod as illustrated onto servo horn and servo saver and finally stabilize the center with linkage stopper 76.

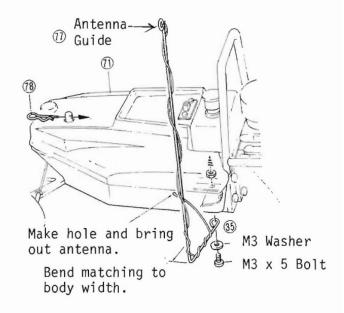


First, keep the throttle control servo and the throttle lever in the high position set throttle control rod (23) and linkage rod (3) as illustrated and stabilize with linkage rod (3). Install brake rod (4) (2) to "L" crank, install brake rod (8) (22) to inner side of the servo horn and stabilize with linkage rod (6). After above linkage has been finished, adjust so taht the brake will work as the engine throttle goes into the slow position when the servo is put into the slow side.

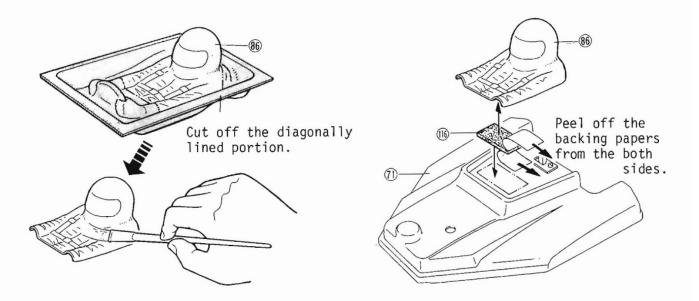


Assemble the fuel tank as shown in the drawing. One of the pipes should be led to the engine, the other is to be attached with a short tube as it is an air vent.

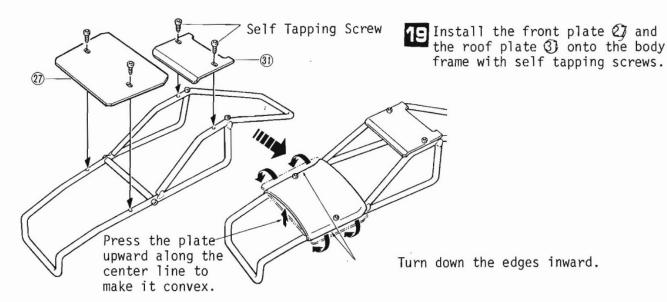
Switch is instabled as illustrated on mechanism box lid ().

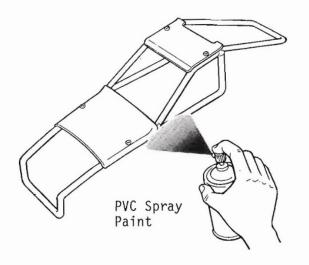


Receiver antenna is installed by making antenna guide \mathcal{O} as illustrated and loosening the installation screw for joint plate \mathfrak{G} 5 once, it is installed together with the antenna guide \mathfrak{G} 6. Mechanism box lid \mathfrak{O} is down with clip

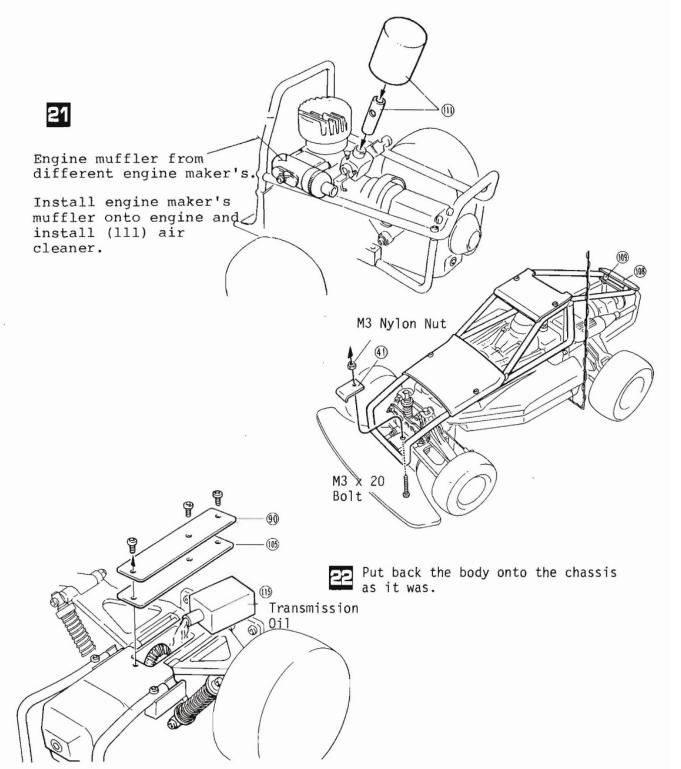


- Trim off the driver doll & as shown in the driver doll & onto the mechanism box top with presuredetergent and paint it in any color you like.
 - sensitive tape.

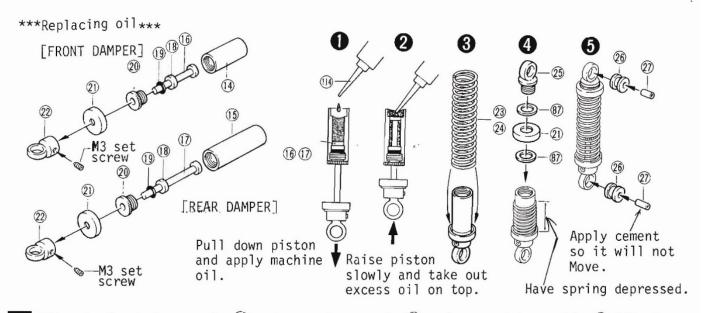




The body can be used without being painted. When you like to paint it, detach it from the chassis and wash it well with neutral detergent. After it has dried up, paint it in any color at your choice with PCV paints.



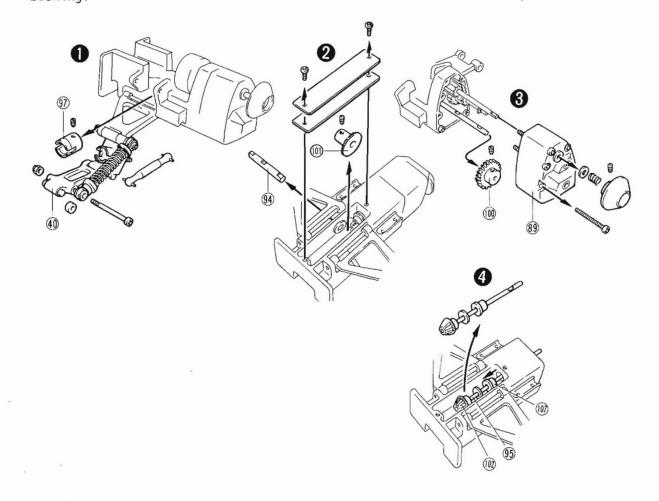
Remove gear cover 90 and oil seal 105 from the gear box, fill gear case about 1/3 full with transmission oil (115), install tightly gear cover 90 and oil seal so the oil will not leak. Check transmission oil after every 1 hour of running and keep transmission alway filled 1/3 full.



Fit onto front damper pin (6) and rear damper pin (7). damper piston guide (8),"0" ring (9), oil catch (2) in sequence and then screw in oil catch (2) into front damper cylinder (3) and rear damper cylinder (5) as shown in illustration.

Next insert spring holder (1) and piston end (22) in sequence. Then stabilize piston end (24) with M3 set screw.

After applying machine oil (14) in the order of 1.2 as illustrated insert into damper cylinder front damper with front spring (2) and rear damper with rear spring (2) as shown in illustration 3. Next lay down damper seal (8), spring holder (2) damper seal (8) and then tighten firmly by screwing in damper cylinder (4) (5) and damper top (2) so that oil will not leak. Finally, as shown in illustration 5 insert damper bushing (6) into damper top (2) and onto piston end (2) and insert damper collar (2) into damper bushing.





When replacing gears due to damage replace in the following sequence. First, remove rear upper arm $\{0\}$, then gear box joint $\{0\}$. (illustration 1)

Next loosen bevel gear $\{0\}$ installation screw and take off bevel gear and center shaft $\{0\}$. (illustration 2)

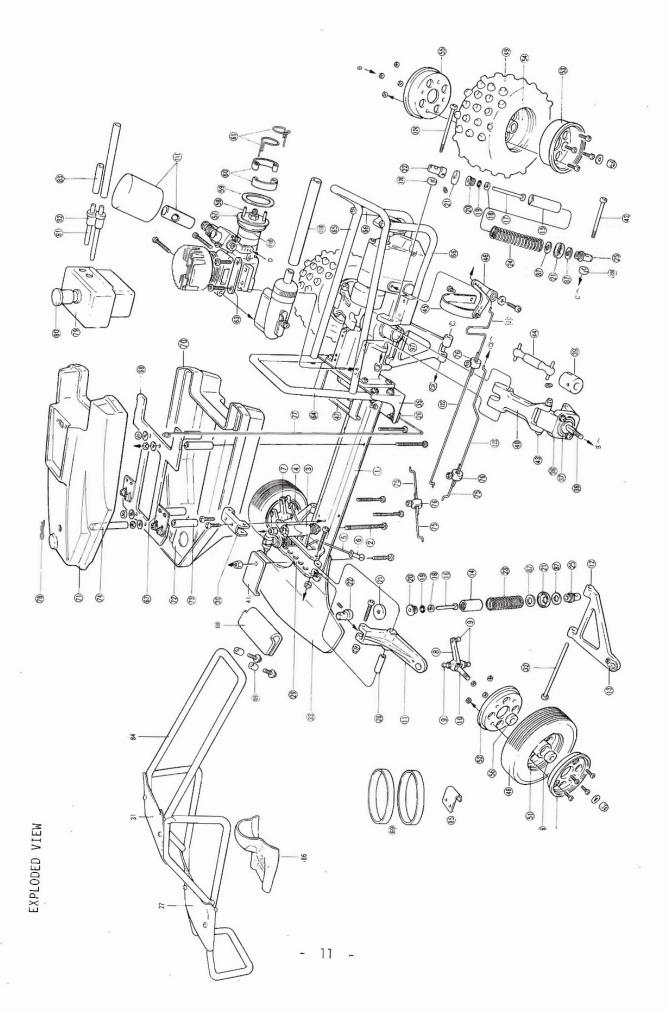
Next remove back plate $\{0\}$ and counter gear $\{0\}$. (illustration 3)

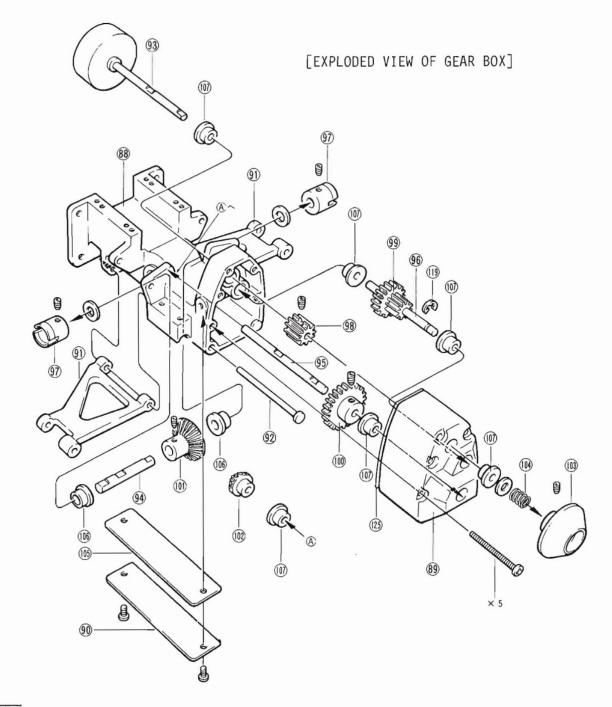
When removing bevel pinion $\{0\}$, as bevel pinion $\{0\}$ and countershaft $\{0\}$ are made as one unit, only the bevel pinion $\{0\}$ cannot be removed. To replace the bevel pinion $\{0\}$, remove the $\{0\}$ 4mm diameter bearing from the gear case first, and by taking it off together with the countershaft $\{0\}$ it can be replaced. (illustration 4) When assembling, also, have the 4mm diameter bearing $\{0\}$ insterted through the countershaft $\{0\}$ and assemble it into the gear case together with the 4mm diameter bearing $\{0\}$.

CHECK POINTS BEFORE RUNNING

To avoid trouble and accidents check the follwoing points before running.

- 1. Are all nuts and bolt tightened? If loose, tighten up using screw lock cements.
- 2. Radio Control system operation. Are batteries fully charged? Especially check the movements of steering, throttle control and braking.
- 3. Check if the front and rear tire as well as gear box systems rotate smoothly. Be sure to apply lubricants on the shafts.
- 4. Check to see that there are no pressure being applied on the oil damper and suspension areas. Particularly, if the oil dapmer movement is sluggish, the shocks from the bumpy roads cannot be absorbed and the power cannot be transmitted with the tire to the surface of the road.





PARTS LIST

Key No.	Parts Name	Qty.	Key No.	Parts Name	Qty.
	Main Chassis Servo Saver Shaft (M4x50 Servo Saver Set Tie Rod (A)	1	959599999999	Front Damper Cylinder Rear Damper Cylinder Front Damper Piston Rear Damper Piston Damper Piston Guide O Ring Oil Catch Spring Holder Piston End Front Spring Rear Spring Damper Top	2 2 2 2 2 4 4 4 8 4 2 2
13	Ball Receptacle	4	6	Flate Reinforcement	. 1

Key No.	Parts Name	Qty.			
08000000000000000000000000000000000000	Front Plate Arm Collar	1 2	8 <u>4</u> 8 <u>5</u>	Body Rear Body Hook	1
69 60	Bulkhead Bracket]	89 87	Doll Damper Seal	8
<u>(i)</u>	Roof Plate	1	8	Gear Box	1
33 33	Front Rower Arm Pin Bumper	2 1	80 83	Back Plate Gear Cover	1
	Joint Plate	1	9)	Rear Lower Arm " Pin (B)	2
3 9	Rear Suspension Hub	2	93 93 93 93 93 93 93 93	Clutch Bell (w/shaft)	1
37	Rear Wheel Shaft Bearing Rear Wheel Shaft	2	94 .ga	Center Shaft Counter Shaft	1
39	Joint	2	<u> </u>	Idle Shaft	i
40 41	Rear Upper Arm Front Body Metal	2 2 2 2 1	97) 98	Joint Pinion Gear	2 1
45	Rear Lower Arm Pin (A)		99	Idle Gear	į
43 44	Rear Upper Arm Pin (A) Swing Shaft	2 2 2		Counter Gear Bevel Gear	1
45	Brake Shoe L Crank Set	l 1 set	(02)	Bevel Pinion Starter Pulley	1
*	Tank Holder	1	100	Return Spring	i
48 49	Front Tire Rear Tire	2	(105) (106)	Oil Seal 5ø Metal	1
ğ	Front Wheel (A)	2	(0)	4ø Metai	6
62 62	" (B)	2	(08) (109)	Rear Body Metal Rear Body Metal Collar	1 2
3	Rear Wheel (A)	2	\mathbb{R}	Body Pin Air Cleaner	l 1 set
69	" (B) " (C)	2 2 2 2 2 2 2 2 4	112	Sea1]
56 57	Front Wheel Metal Flywheel	4 1	(113)	Instruction	1
53	Flywheel Pin	2	(115)	Transmission Oil	1
60 63	Starter Lining Clutch Shoe	2 2	(16)	(square bottle) Pressure Sensitive Tape	1
6) 63	" Spring " Lining	2	(118)	Rubber Pipe	1
63	Engine Mount Plate	2		E Ring for Idle Shaft	i
64 65	Roll Bar Side Guard	i 1	(121)	Damper Bush Brake Rod (A)	1
66	Rear Under Guard	2	(123)	" (B) Throttle Control Rod]
6 <u>3</u>	Adjust Plate Radio Plate	2 1	(24)	Rear Upper Arm Pin (B)	2
<u> </u>	Radio Mechanism Stopper Radio Box	2	(125)	Gear Box Packin	1
Ŋ	" Lid	1	*		
13	Dust Seal Radio plate Collar	4		ior to part nos. are parts e in the gear box.	į
14	Radio Box Post	1		•	
76	Linkage Rod "Stopper	3 3			
92) 98	Antenna Guide Body Hook Pin	3			
ğ	Fuel Tank	i			
81	" Bush " Aluminum Pipe	2			
\$\$\$\$\$\$\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	" Bush " Tube	2			
QJ	rupe	1			

PART NO.	PART NAME	KEY NO. & CONTENTS
Ov. 1	Vain Manada	1 1
CK-1	Main Chassis	1 x 1
2	Servo Saver Set	2, 3 x 1
3		4, 5 x 1, 6 x 2
4		7, 8×1 , 9×4 , 13×4
5	Rocking Arm	11 x 2
6	Front Lower Arm	12 x 2
7	Front Damper Set	1 set
8	Rear Damper Set	l set
9	Spring Set	23, 24 x 2
10	Arm Collar	28 x 2
11	Bulkhead	29 x 1
12	Bracket	30 x 1
13	Front Lower Arm Pin	32 x 2
14	Front Bumper	33 x 1
70	Body (Wildcat)	27, 31, 84 x 1 35 x 1, 26 x 1
16	Joint Plate	35 x 1, 26 x 1
17	Rear Suspension Hub	36 x 2
18	Rear Shaft Wheel Bearing	37 x 2
19	Rear Wheel Shaft	38 x 2
20	Joint	39 x 2
21	Rear Upper Arm	40 x 2
22	Rear Arm Pin Set	42, 43, 124 x 2, 92 x 2
23	Swing Shaft	44 x 2
24	Brake Set	45, 46 x l
25	Tank Holder	47 x l
26	Front Tire	48 x 2
27	Rear Tire	49 x 2
28	Front Wheel Set	50, 51, 52 x 2
29	Rear Wheel Set	53, 54, 55 x 2
30	Front Wheel Metal	56 x 4
31	Fly Wheel	57 x 1, 58 x 2
32	Starter Lining	59 x 10
33	Clutch Shoe	60 x 6
34	Clutch Spring	61 x 10
35	Roll Bar Set	64, 65 x 1, 66 x 2
72	Radio Box (For Wildcat)	68 x 1, 67, 69 x 2
37	Radio Box	70, 71, 72 x I
38	Radio Box Collar	74×1 , 73×4
39	Linkage Set	121, 122, 123 x 1, 75, 76 x 3
40	Fuel Tank	79, 80, 83 x 1, 81, 82 x 2
41	Body Mount	85, 86, 109, 34 x 1
42	Gear Box	88 x 1
43	Back Plate	89 x l
44	Gear Cover	90, 105 x 1
45	Rear Lower Arm	91 x 2
46	Clutch Bell (w/shaft)	93 x 1
47	Gear Box Seal	125 x 5
71	Body Mounting Metal	41, 108 x 1, 109 x 2
49	Pinion Gear	98 x 1
50	Idle Gear	99 x 1, 96, 119 x 1
51	Counter Gear	100 x 1
53	Starter Pulley	103, 104 x 1
54	5ø Metal	106 x 6
55	4ø Metal	107 x 6
56	Body Seal	112 x 1
58	Rubber Pipe	117, 118 x 2
PR-16	Engine Mount Plate	63 x 2
21	Air Cleaner	111 x 1
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PART N	O. PART NAME	KEY NO. & CONTENTS
PR-25	CEnter Shaft	94 x 1
EP-22	Hook Pin	78 x 5
SD-56	Lining	62 x 5
62 65 68 71 74	Screw Set Gear Box Assembly Joint Ball Receptacle Bevel Gear Set Antenna Guide Transmission Oil	1 set 97 x 2 13 x 45 95, 101, 102 x 1 77 x 1 115 x 1
	OPTIONAL PARTS	
64	4ø Bearing 5ø Bearing Heatsink	For front wheel & gear box-2 pcs. For Center shaft-2 pcs.
