RADIO CONTROLLED 10 ENGINE POWERED RACING BUGGY

# RAMPAGE GR-10

- SUPER-EASY STARTING BY RECOIL STARTER (BUILT-IN)! FOR SIMPLE OPERATION!
- SUPER-QUIET MUFFLER! CAN BE RUN ALMOST ANYWHERE!
- DOUBLE WISH BONE FOUR WHEEL INDEPENDENT SUSPENSION SYSTEM WITH NEW OIL SHOCKS.
- RELIABLE DRIVE SYSTEM. WITH GEAR-TYPE DIFFERENTIAL IN FULLY-ENCLOSED GEARBOX.
- SPECIAL MUFFLER, FUEL TANK, PLUG HEATING BOX SIZE OF 4D-SIZE DRY CELLS ARE INCLUDED.
- FUEL AND 2CH RADIO ARE NOT INCLUDED.



### BEFORE YOU BEGINE ASSEMBLY!

Thank you purchasing the Kyosho's R/C Engine Powered Racing Buggy

In order to keep your Rampage GP-10 in the tip top condition to enjoy the most pleasure from the R/C world, you should throughly read through this instruction manual and the operation instruction of the radio control units to keep the correct way of assembling, and handling.

#### **《KIT FUTURES》**

- Super—easy starting by Recoil Starter (Built—in)
- Super quiet muffer!
- Reliable drive system.

  With gear—type differential in fully—enclosed gearbox.
- Wishbone / Parallel arm long-travel suspension.

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#### BEFORE ASSEMBLY

O Read the instruction carefully. You can assemble the kit more easily if you have grasped the general idea of steps and structure beforehand by reading it through to the end.

OCheck the parts in the kits. Check to see if all the parts are correctly bagged as they are listed in the "List of Bagged Parts" (page 4,5). Your through understanding of the assembly will enable you to build the kit without any difficulty.



Check the components in the kit prior to your startings of the assembly.

Any claims for replacements or refunds for the model in the process of assembly will not be accepted.



O Learn the marks described in the instruction.

- SWCIMENI ... Place to put some locktite. It will prevent the screws and nuts get loosen by vibration while running.

GREASE ... Point where grease should applied.

It will reduce friction are assure smooth movements.

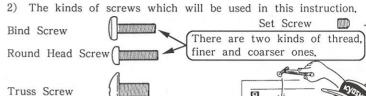


Steps where your paticular attention is required.

OBe well aware of the different types of screws.

1) The difference between the TP Screw. (short form of self-tapping screw) and the ordinaly screw is...

Ordinaly Screw TP Screw Some of them pointed tips. Finer Thread Coarser Thread



OPick up the correct parts and screw. Compare the shape and size of small parts, such as screws, nuts, and washers.

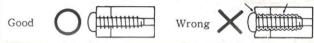
OBe sure about the location and direction of parts to install.

Double-check the location and orientation of parts with the illustration before installation. When necessary, assemble the parts themselves tentatively before proceeding to the next step,

ODo not tighten the self-tapping screw too tight.

Do not use excessive force when tightening the self-tapping screws, or you may strip the thread in the plastic. It is recommended to stop tightening it when the thread part on the screw goes into the plastic part and you feel some resistance from the tightening.

Over tighten may strip the thread in the plastic.

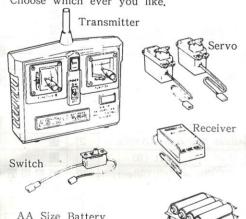


#### THINGS NEED BESIDES THE KIT

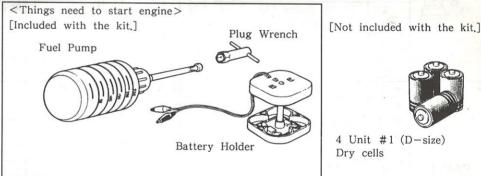
<2 Channel Radio System>

Two types of radio control set are on the market, the stick and the steering wheel type.

Choose which ever you like.



AA Size Battery For Transmitter....8 pcs.





00

Check up



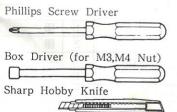
[Not included with the kit.]

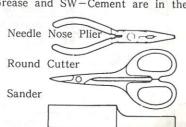
Glow Fuel

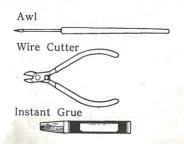
\*Gasoline or kerosone cannot be used.



<Tools Required> A Hex Key, Grease and SW-Cement are in the kit.







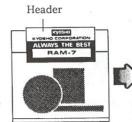


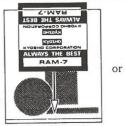
NO. 3072

《Do not throw away a bag header》

- The symbol in the brackets after a name of parts in this instruction is the header number in which the part is contained.
- The header is the only thing to rely upon when looking for a part. Do not discard it until you finish the assembly.

Bag No.	Key #	Parts Name	Q'ty	Step
	1	Front Suspension Arm	2	5
	2	Rear Suspension Arm	2	13
	3	Front Shock Stay	1	4
	4.	Rear Shock Stay	1	M
Blister	5	Swing Shaft	2	14
(A)	6	Joint	2	11
(A)	7	Belt	1	16
學一個	8	Main Gear	1	16
	9	Drive Washer	2	23
	10	Timing Pulley (B)	1	116
	11	Rear Wheel Shaft	2	12
	12	Fuel Tank Assembly	1 Set	18
	13	Rear Bulkhead (L)	1	1
	14	Rear Bulkhead (R)	1	
	15	Rear Housing	1	
	16	Final Diff. Case (A)	1	
	17	Final Diff. Case (B)	1	
DI: /	18	Bevel Gear (A)	2	
Blister	19	Bevel Gear (B)	2	
(B)	20	Bevel Gear Shaft	1	Assemble
	21	Final Pinion Gear	1	100
	22	2 φ x11 Pin	1	
	23	Timing Pulley (A)	1	
	24	10 φ x14 Plane Bearing	2	1.1
	25	5 φ x10 Plane Bearing	2	
	120	E Ring (E4)	1	
	125	Plane Bearing Collar	2	J
14人的	★ 26	Shock Cap	2	2
	<b>★</b> 27	Spring Holder	2	2
	★ 28	Spring Spacer	2	Not Using
	<b>★</b> 29	Shock Piston	2	11
	30	Shock Ring	2	2
RAM-1	31	Pressure Top	2	2
Front	32	Shock End	2	
Shock	118	E Ring (E2.5)	4	10
Parts )		Shock Bush	2	Not Using
	33	Front Shock Case	2	10
	34	Front Shock Shaft	2	
	35	Front Shock Spring	2	2
	36	Shock Oil (Green)	1	2
	★ 26	Shock Cap	2	2
	★ 27	Spring Holder	2	2
	★ 28	Spring Spacer	2	2
	★ 29	Shock Piston	2	<b>F</b> 1
DAMA	30	Shock Ring	2	2
RAM-2	31	Pressure Top	2	2
Rear Shock	32	Shock End	2	10
Parts	118	E Ring (E2.5)	4	П
, /		Shock Bush	2	Not Using
	37	Rear Shock Case	2	2
	38	Rear Shock Shaft	2	
	39	Rear Shock Spring	2	2
The second second	40	Front Wheel Shaft	2	3
RAM-4	40		_	







Keep it in the bag.

Affix it on the bag

Bag No.	Key #	Parts Name	Q'ty	Step
	42	5.8 φ Ball (Silver)	4	2
	43	Servo Saver Tube	2	9
	44	3 φ Linkage Guide	1	8
	45	Main Gear Shaft	1	16
1.00	128	4 φ x8 Plane Bearing	4	23
RAM-4	25	5 φ x10 Plane Bearing	6	11 12 16
	22	2 φ x11 Pin	2	16
- 1	48	Assist Plate	1	20
	49	Chassis Cover	1	111
	50	Screw Locking Compound	1	
	51	Silicon Grease	1	
	52	Front Wheel	2	22
RAM-5	53	Rear Wheel	2	222
	46	Servo Mount	2	177
(A. 1)	<b>★</b> 47	Body Hook	1	10
-	54	Front Bulkhead	1	4
	55	Brake Lever	1	119
	56	Main Gear Shaft Holder	1	16
	<b>★</b> 57	Knuckle Arm (R)	1	8
		Knuckle Arm (L)	1	3
	★ 58		2	8
	★ 59	Front Hub	4	4 14
	<b>★</b> 60	Upper Ring Bar	1	8
RAM-6	<b>★</b> 61	Servo Saver (A)	1	8
Plastic Parts	<b>★</b> 62	Servo Saver (B)		
rastic rarts	₩ 63	Servo Saver (C)	1	8
	★ 64	Servo Saver (D)	1	8
	<b>★</b> 65	Shock Collar	4	7 15
	★ 66	Antenna Post	1	17
	★ 67	Servo Mount	4	17
	★129	Servo Saver Collar	2	9
	68	Bumper	1	6
	69	5,8 φ Ball End	4	100
	70	Rear Hub (R)	1	12
10	130	Rear Hub (L)	1	12
	71	King Pin	2	3
	72	Front Sus Shaft (A)Silver	2	5
4.4	73	Front Sus Shaft (B)	2	5
	74	Rear Sus Shaft(A)Black	2	113
	75	Rear Sus Shaft (B)	2	113
RAM-7	76	M3 Pillow Ball (Silver)	10	34111
	77	M2.6 Pillow Ball (Black)	2	3
	78	Center Rod	1	8
	79	Tie Rod	2	10
	80	Assist Rod (A)	1	100
	81	Assist Rod (B)	1	20
	82	Steering Rod	1	25
	83	Brake Rod	1	20
RAM-8	84	Engine Control Rod	1	27
	85	Rod Stopper	2	27
	86	Air Cleaner Element	1	Assembled
	87	Element Holder	1	
	88	Element Cover	1	See page
	89	Adaptor Tube	1	See page
		T AUSDIOL TIIDE		DUC PARC

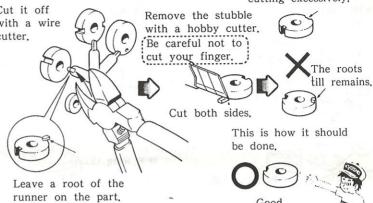
#### LIST OF BAGGED PARTS (2)

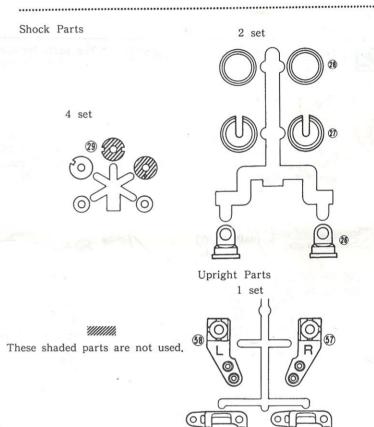
Bag No.	Key #	Parts Name	Q'ty	Step
17	91	Strap (M)	1	26
	92	Strap (L)	1	28
	93	Muffler Tube	1	18
RAM-8	94	Plug Wrench	1	600
11/111/0	95	Antenna Tube	1	26
	96	Fuel Tube	1	18
	97	Battey Holder Assembly	1 Set	60
	98	Double Sided Tape	1	26
	99	One Way Assembly	1 Set	
	100	Starter Assembly		
	101	Muffler Assembly	1 Set	
	102	Starter Holder	10.134	Elev v
	103	Engine Maunt		
	104	Engine Mount	2	
	105	Clutch Bell	1	
	106	Clutch Shoe	2	Assembled
	107	Clutch Spring	1	
	108	Pilot Shaft	1	19
Box	109	Flywheel	1	er Oak mor
	110	Flywheel Spacer	1	
	111	Clutch Bearing Case	1	
	112	Clutch Rollar	6	
	119	E Ring (E3)	1	
	121	E Ring (E7) Valv Rod	1	
	126		1	,
	113	Body (Rampage GP10)	1	29
	114	Front Tire	2	22
	115	Rear Tire	2	22
	116	Chassis	1	6
	117	Decal	1	Ba == 10
	127	Fuel Pump	1	Page 19
	110	Instruction Manual	1	
	118	E Ring (E2.5)	4	5 13
	119	E Ring (E3)	2	3
	120	E Ring (E4)	3	16
	122	Hook Pin	4	For wing 2 pcs.
	123	Hex Key (1,5mm) Hex Key (2mm)	1	25 27
	124	Truss Screw M4x8	+	ш
		Round Head ScrewM3x8	6	
			2	
	-	M3x10 M3x18	-	
		M3x35	2	
RAM-3		M3x50	1	
	-	Bind Screw M2.6x12	4	For Wing
Screw Nut	-	TP Round Head Screw M3x16	2	TOT WILLS
Washer		TP Bind Screw M2.6x6	1	
Others		M2.6x12	4	
	F 2,67	M3x8	8	Parket .
		M3x10	17	47
		M3x12	2	
		M2.6 Nut	4	For Wing
	anarino	M3 Nut	20	
		M3 Nylon Nut	6	
	1	M4 Nylon Nut	4	For Wing
	-	M3x3 Set Screw	3	- 0. 111118
	SOLA	M4x4 Set Screw	2	
-9	A SELL	M5 Washer	2	
			-	-
	XI OHE T		+	
	-		+	
			-	
			1	1

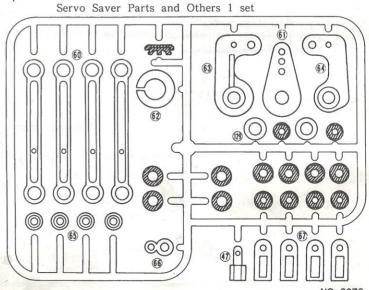
## LAYOUT DRAWING OF PLASTIC PARTS ON RUNNERS

(When Cutting off parts from a runner...)
\*Pay particular attention
when detaching the piston.

The part is me d by cutting excessively.





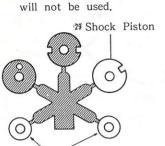


#### • ASSEMBLY OF CHASSIS PORTION 1 ~ 23

ASSEMBLY OF SHOCK The parts for the front shocks are in bag [RAM-1], those for the rear are in [RAM-2].

Stage 2

Stage 1 Assemble 2 each for the front and rear. \*The shaded parts

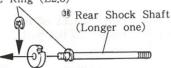


These will be used in step II.

《Front》 (E2.5) 34 Front Shock Shaft (Shorter one)

《Rear》

(E2.5)



33 Front Shock Case (Shorter one) 37 Rear Shock Case (Longer one)

32 Shock End Wrap paper or tape around shaft to prevent pliers from marking it. Be sure to install a rod of correct length in the front and rear shocks.

FULLING THE OIL SHOCK The parts for the front shocks are in bag [RAM-1], those for the rear are in [RAM-2].

#### Stage 1

Pull down the piston to the bottom and pour oil slowly.

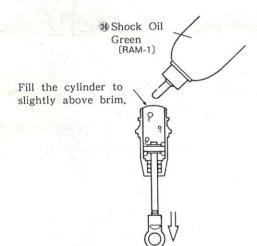
Then move the piston up and down gently to get rid of air bubbles.

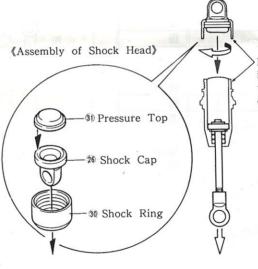
#### Stage 2

Keep the piston in the lowest position and tight 26 graduary, then excessive oil will run over.

#### Stage 3

Confirm that it will work smoothly by moving the piston up and down.



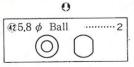


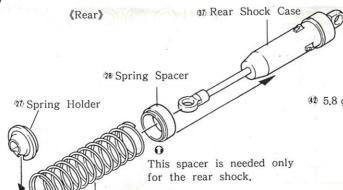
In the end, tighten it firmly so that the oil will not leak

It should move without any binding.

Stage 4 Mount the spring as shown.

At each assembly stage, a drawing shows screws and other fasteners used in the actual size. Identify those required in each stage.





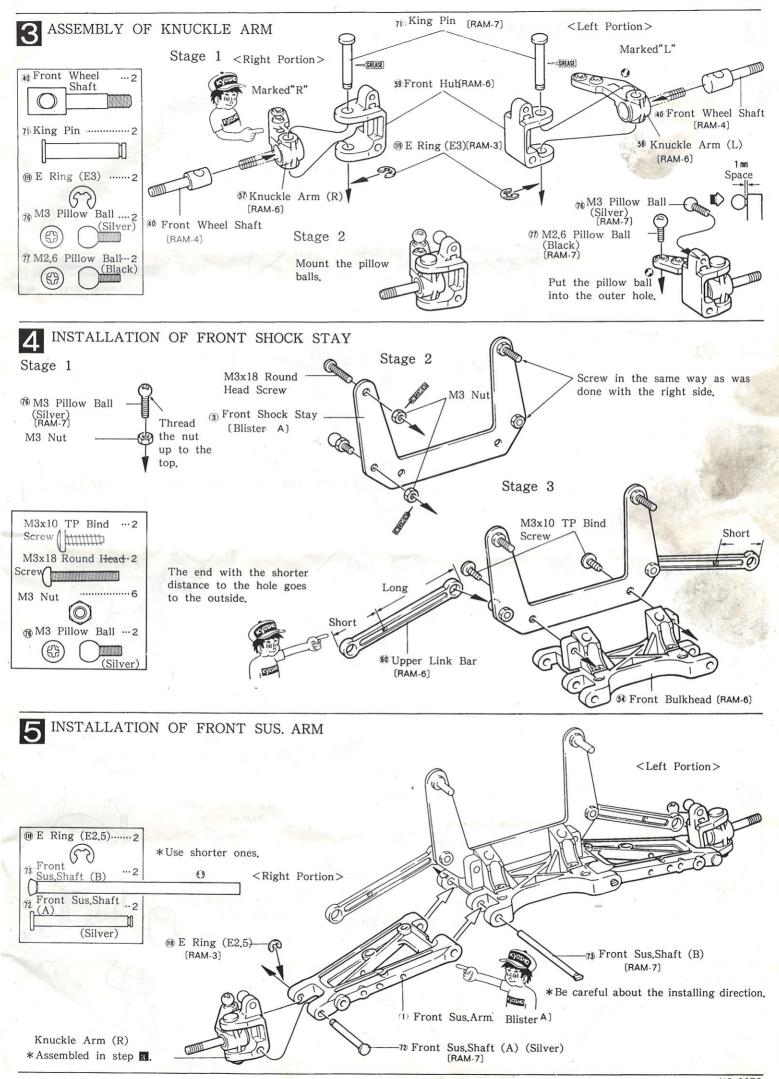
(39) Rear Shock Spring

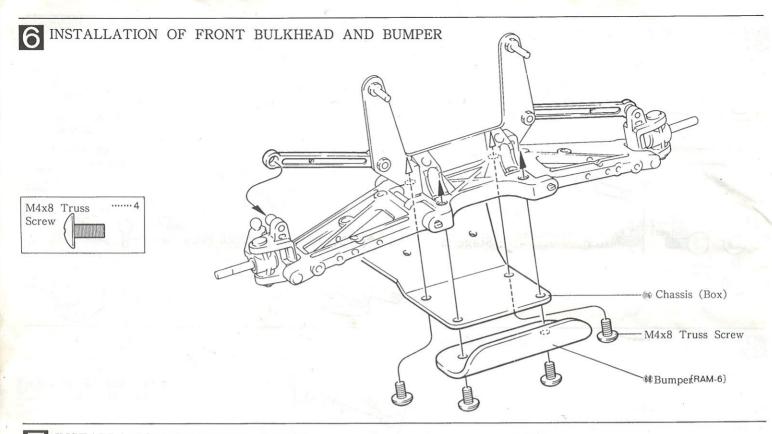
This ball is needed only for the front shock.

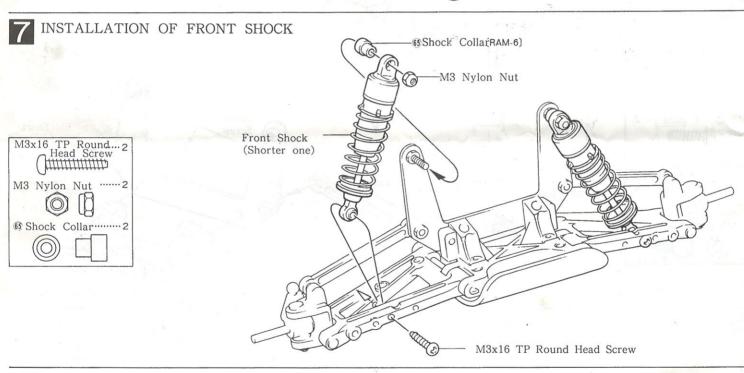
《Front》

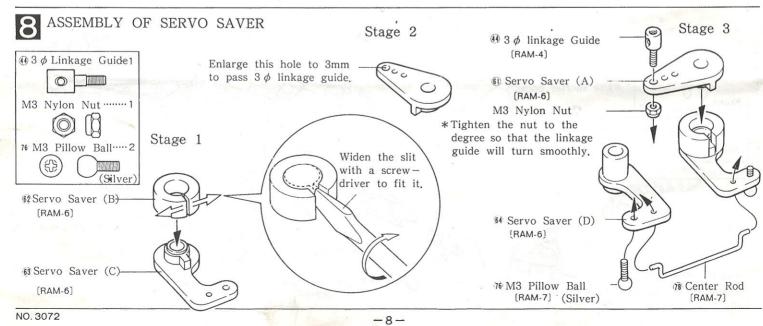
(1) 5.8 φ Ball (Silver) (RAM-4)

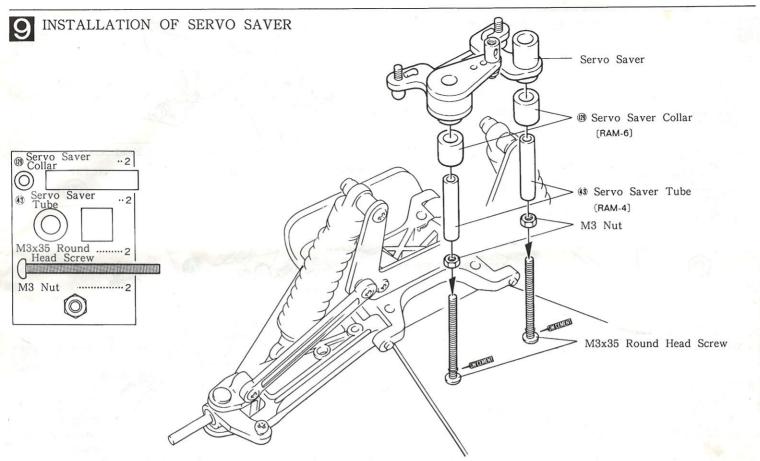
35 Front Shock Spring

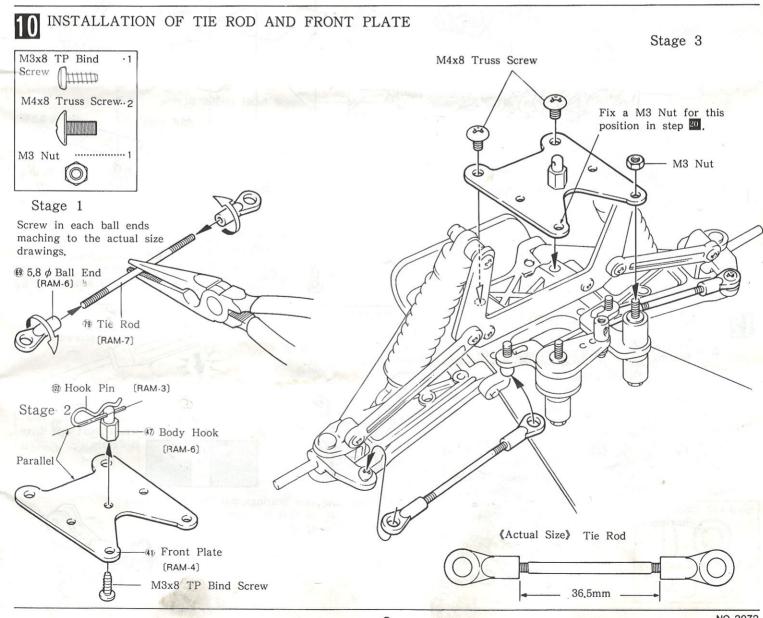


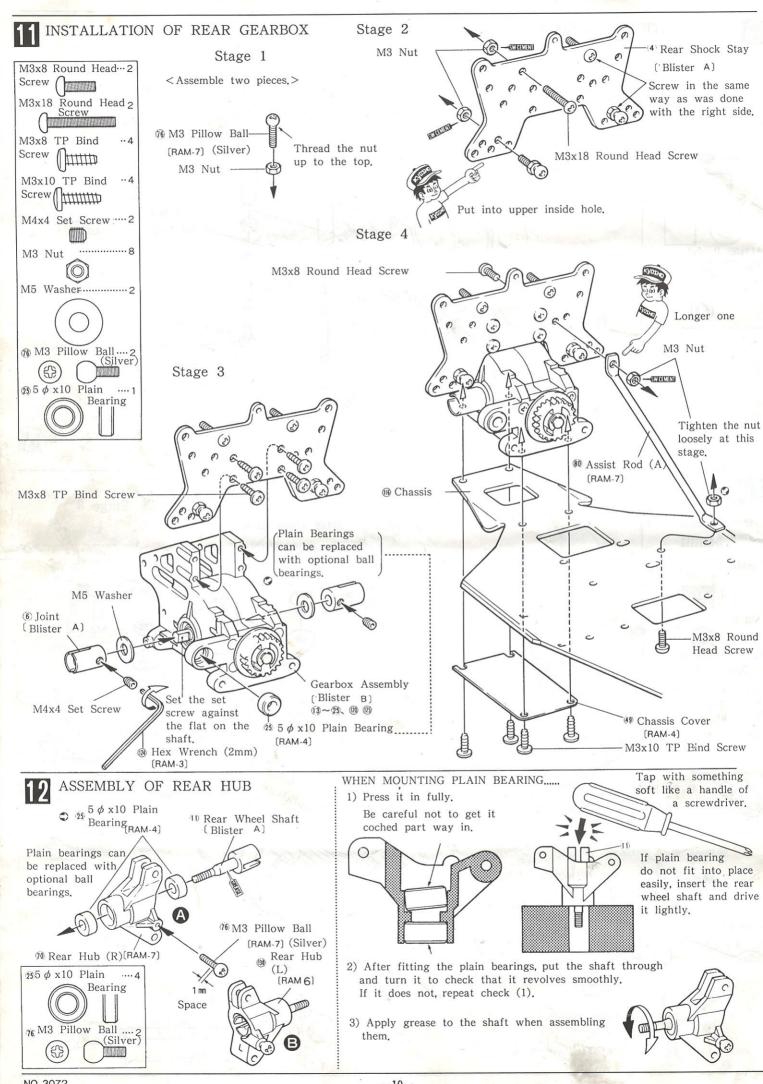


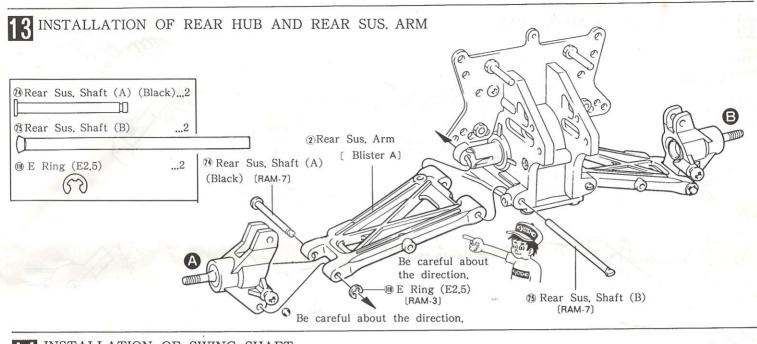




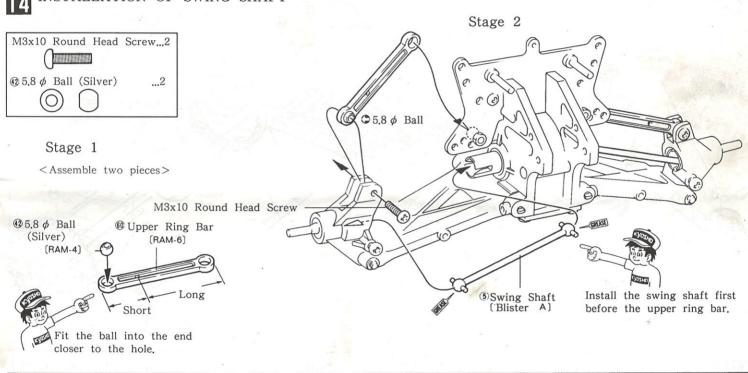


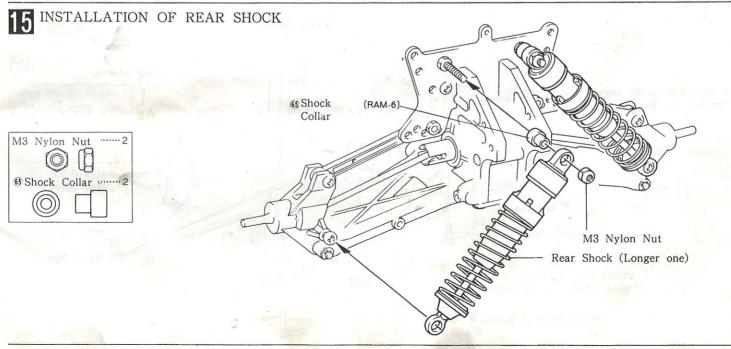


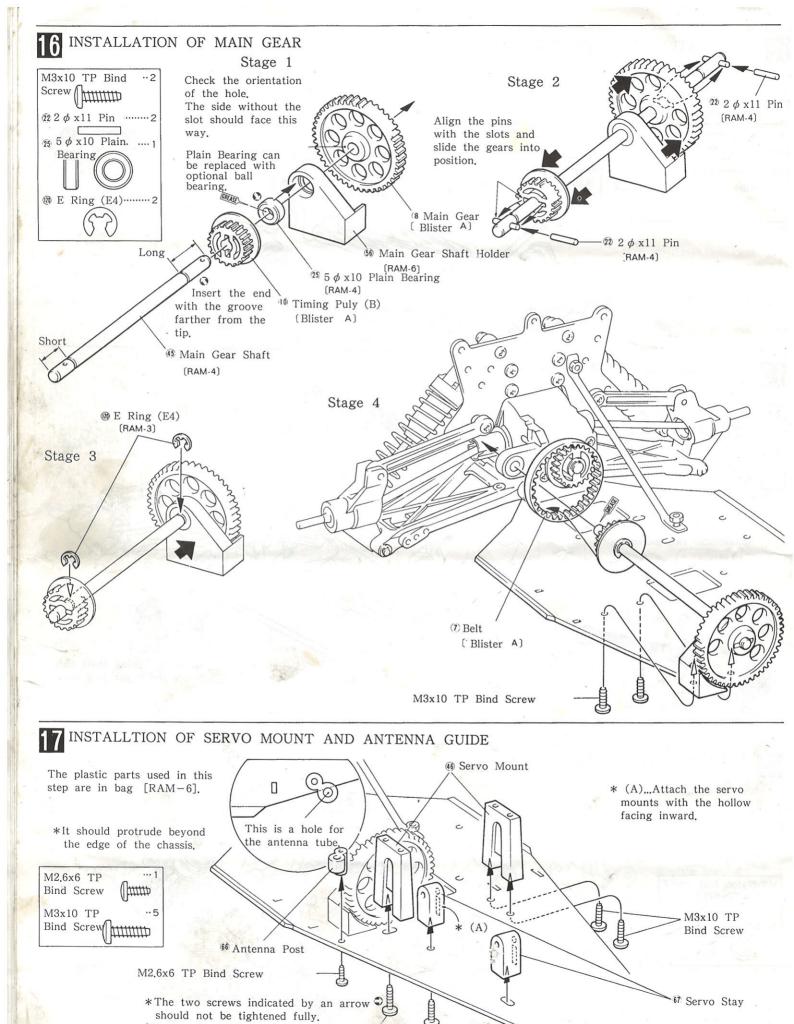






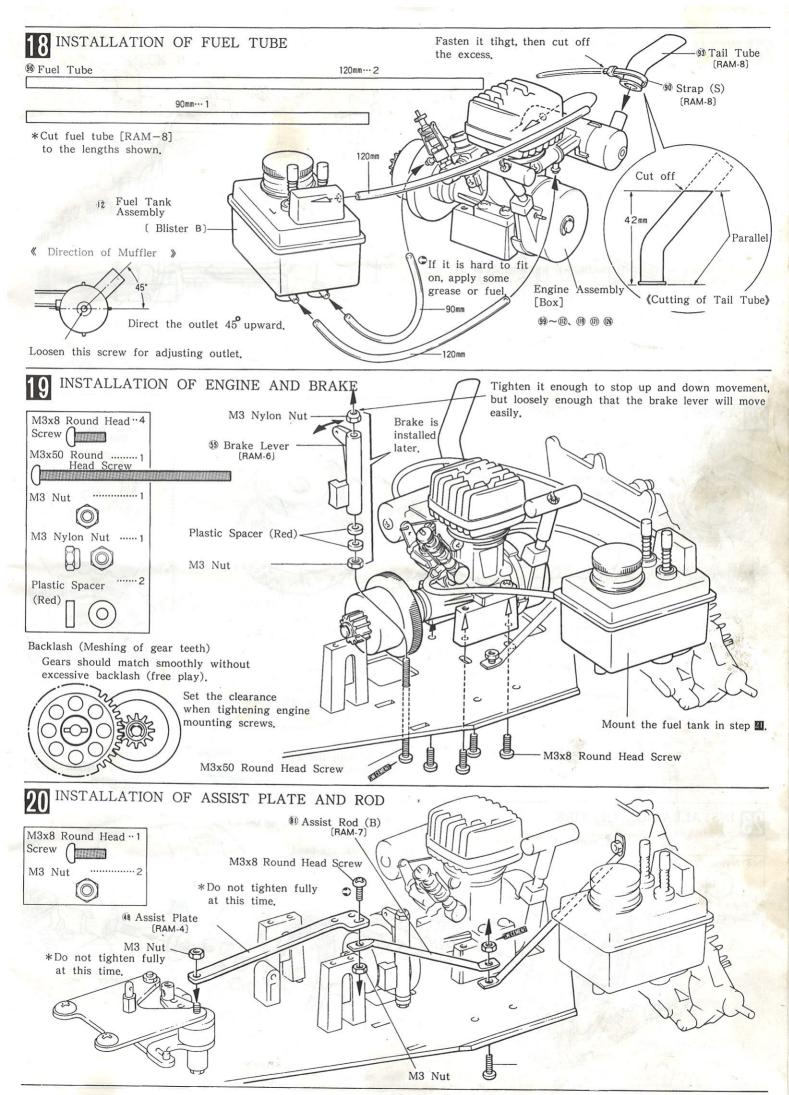


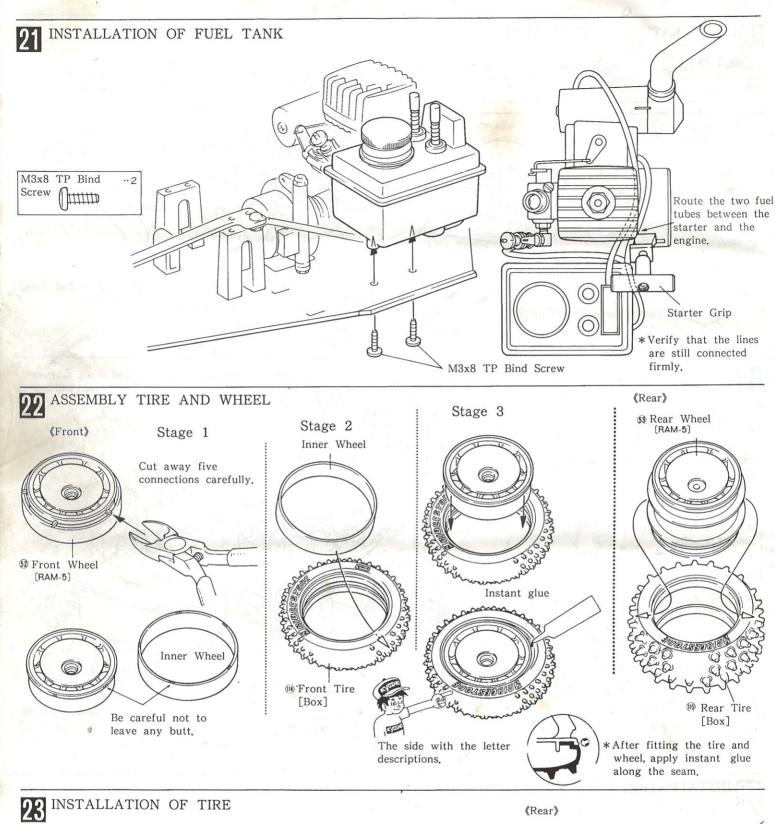


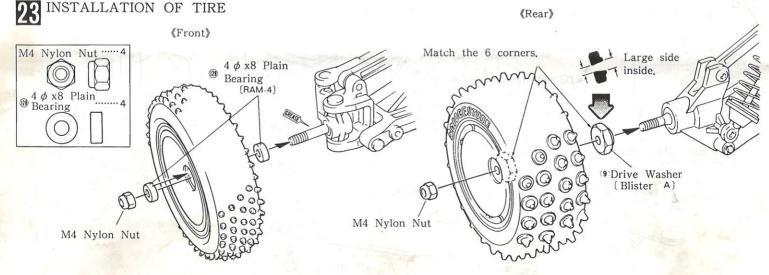


(Tighten them after mounting the servos.)

M3x10 TP Bind Screw







#### INSTALLATION OF RADIO UNIT AND LINKAGE

#### 24 — 28

\*Servo...

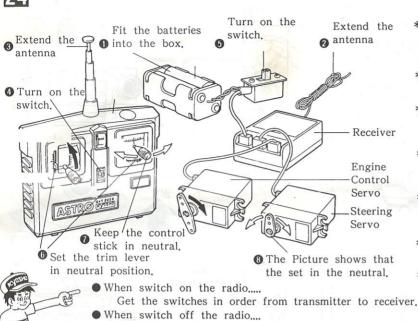
\*Battery

Meter...

\*Servo Horn...

#### 11 HOW TO CHECK RADIO UNIT

A two channel radio is composed of things like a transmitter, receiver, servos, and battery.



\*Transmitter... It is control box which manipulates by stick movements. Signal waves are transmitter through on antenna.

\*Receiver... Receivers the signals from the transmitter and send them to the servos.

They move the control mechanism of a model car in accordance with the signals from the receiver,

\*Antenna... An antenna in the transmitter sends signals, and one on the receiver accepts them.

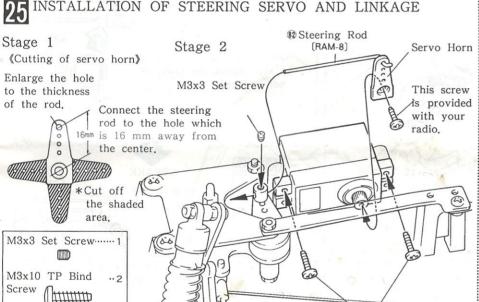
They should be fully extended.

\*Trim Lever... They will adjust the neutral position of servos, thus regulate the steering and advancing controls finely.

You can tell the amount of electricity in a battery and how the signals are emitted.

They are intermediate divices on the servos to activate the controls. There are several types in shape. They should be selected depending upon the usage.

In order from receiver to transmitter.



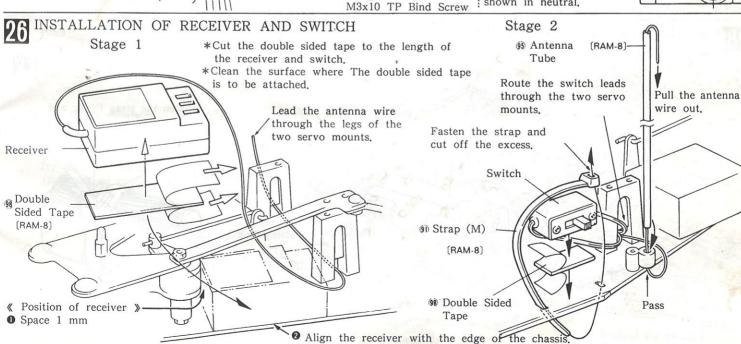
Position of steering stick

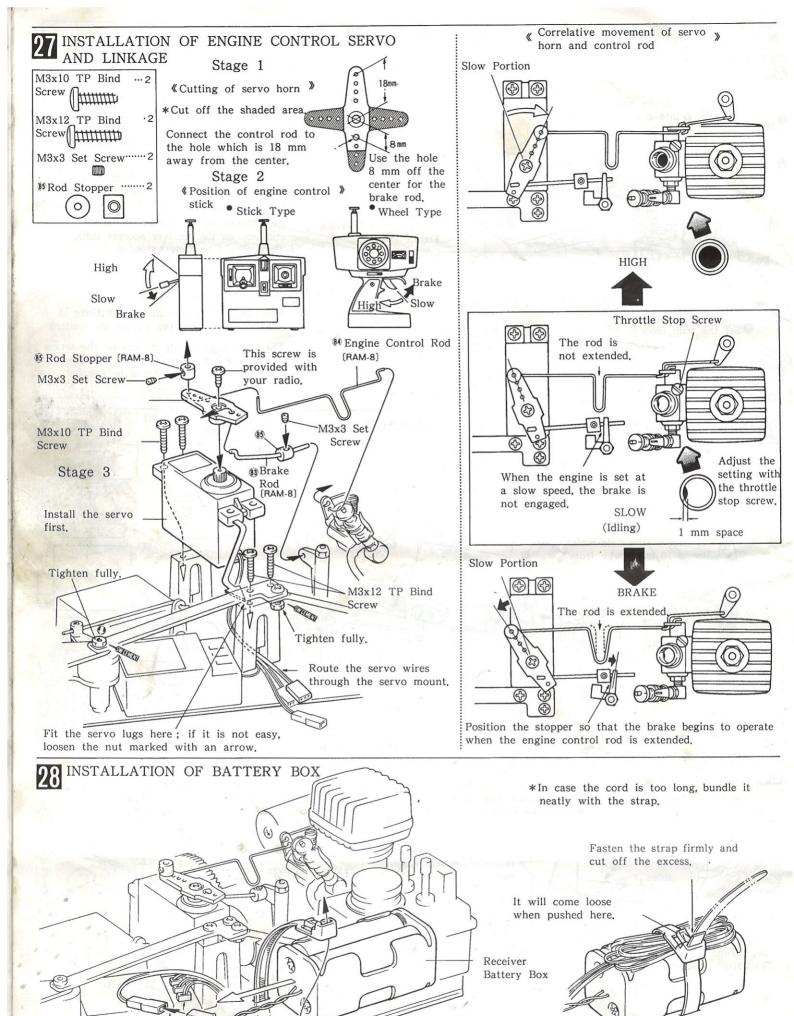
Neutral

Tighten this screw fully

When securing the set screw...

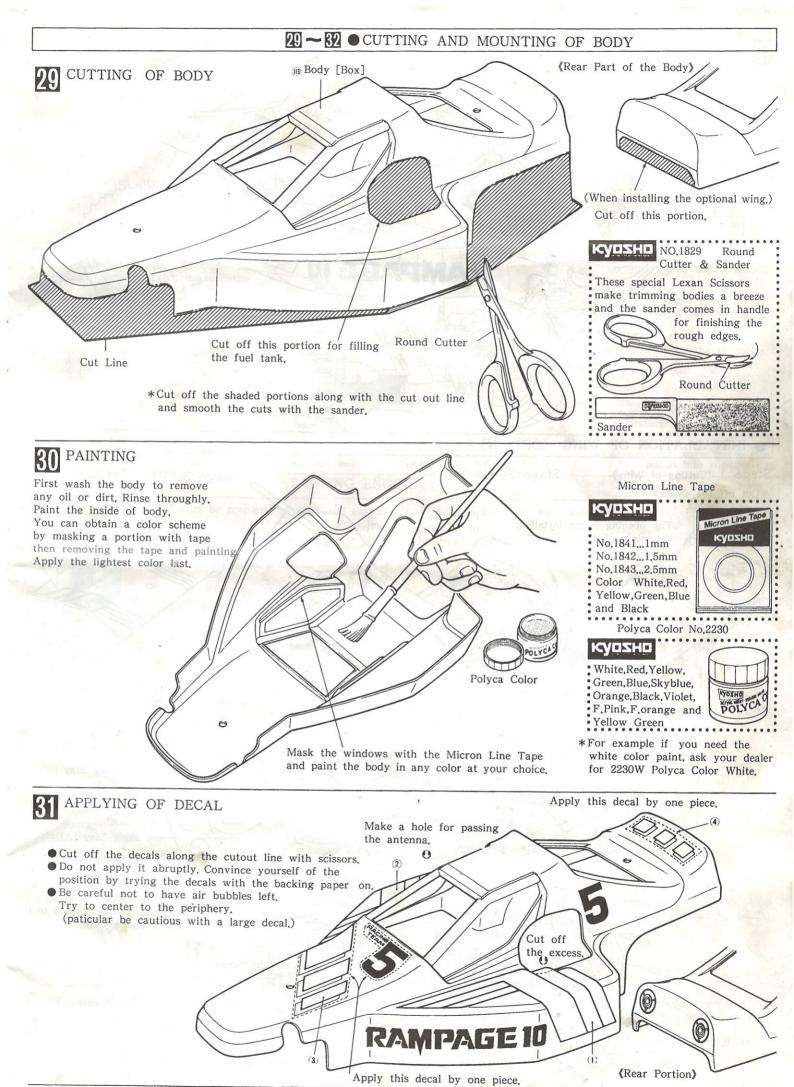
Align the center line of the servo saver horn as shown in neutral.

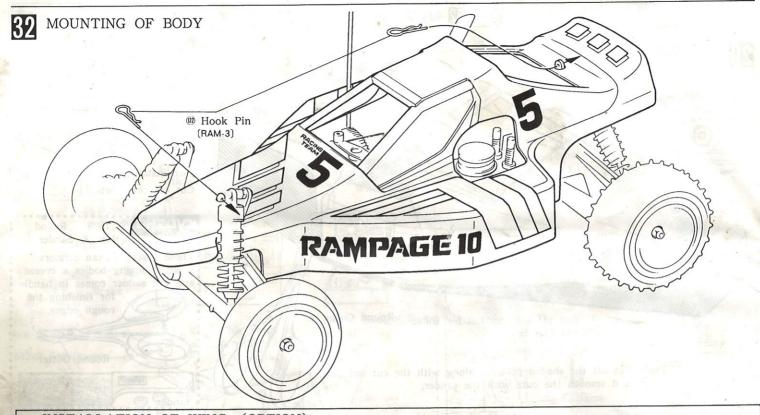




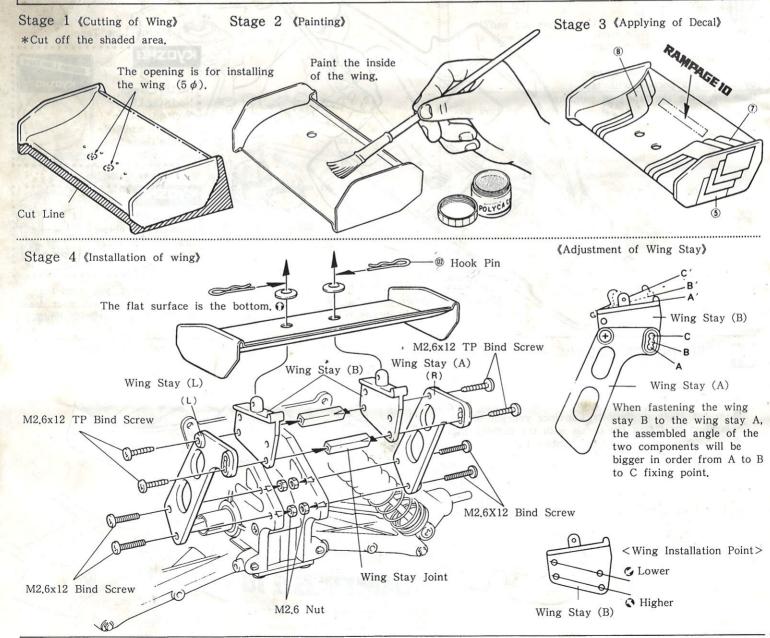
Plug in all connectors.

92 Strap (L) (RAM-8)



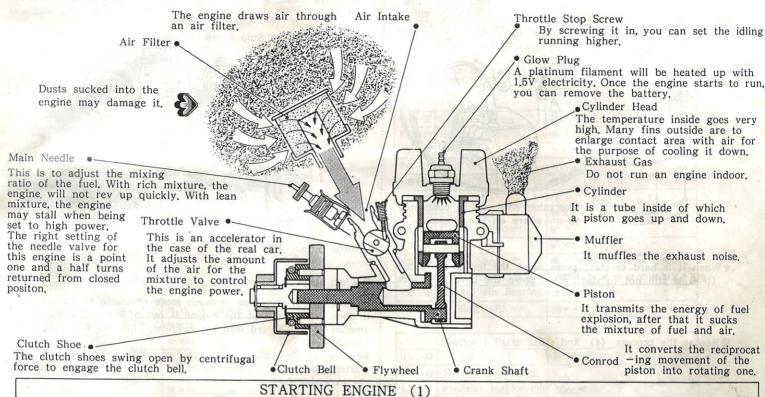


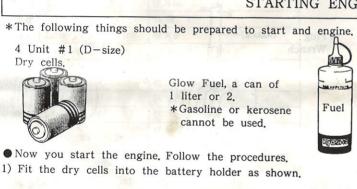


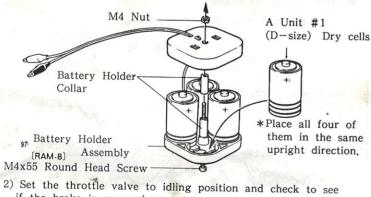


#### GLOW ENGINE

- Your previous knowledge of the engine structure is very benefitial, particularly for those who handle an engine powered model car for the first time,
  - The fuel is a mixture of alcohol with some additives, You can not use gasoline or kerosene for this type of engines,



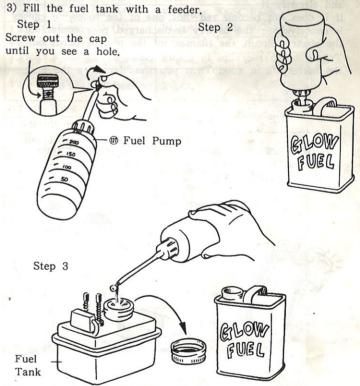




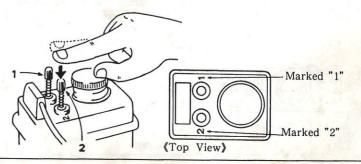
\*Refer to step 27 "Engine Control Servo and Linkage" on page 16.

Throttle Stop Screw with the setting with the throttle stop screw.

Space 1mm

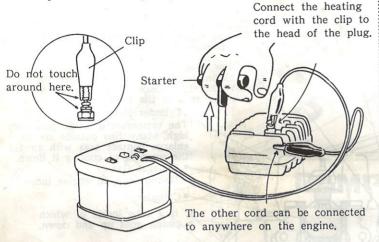


4) Press down the pump botton ① twice on the fuel tank, (When it is hard to start in winter, press down the botton ②,)



#### STARTING ENGINE (2)

5) Turn on an electric current to the plug and pull the starter quickly.



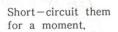
\*When it is hard to start, press down the button ② twice,
(If it is still not to start, press down the button ① twice.)

- Repeat the process (4) and (5).
- 6) In case the engine still does not start, remove the plug and electrify it.

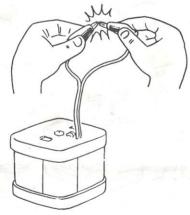
  If it does not become red-bot one of the following case.

If it does not become red-hot, one of the following causes is conceivable; the battery is discharged, poor contact in the electric circuit, the filament of the plug is burnt out, Try to brush the clips in a dirk place, if you see a spark, the battery is in good Then you should change the plug.

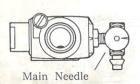
If the filament becomes red-hot, try the steps (4) and (5).







7) Check to see if the main needle valve is set properly. If it is out of adjustment, tighten it all the way and loosen one turn and a half.





Screw in as deep as you can.

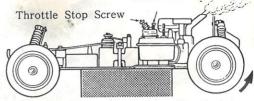


and a half,

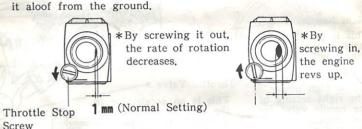
8) When the engine starts running, disconnect the clips and take a look at its idle-running is too fast, the wheels may begin to rotate. If it is too slow, the engine will discontinue to run.

Main Needle

Throttle Stop Screw



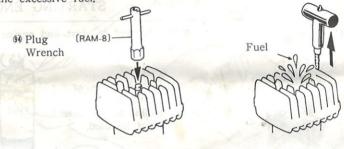
Put the model on a box or anything like that, to make it aloof from the ground.



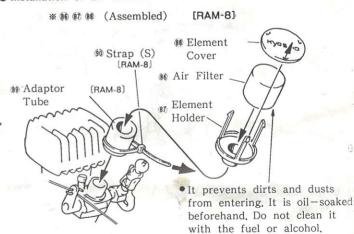
When starter rope is much more resistable to pull up....

Even if the starter rope is much more resistable to pull up, it does not mean that the engine is out of order. But excessive amount of fuel is fed into the cylinder. This called a state of "flooded".

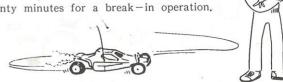
Remove the flow plug with a plug wrench and pull up the starter rope ten or twenty times with quick pulling to discharge the excessive fuel.



• Installation of air cleaner



- Before running your model car, learn the following do's and dont's.
- 1) Do not start an engine indoor.
- 2) Do not rev up the engine from the beginning, but run the model slowly for the first ten or twenty minutes for a break—in operation.



#### PURCHASABLE PARTS FOR YOUR KIT

You can purchase replacement optional parts for your kit. All of the part identified by key number are usually not available singularly, but we offer these parts in convenient parts "packs" which can be purchased separately. To figure out which parts pack you need, find the key number for

Parts Name Key No. & Q'ty RM-1(ii) × 1 Chassis RM-2 Plastic Parts Set 50 55 56 × 1 Assist Rod Set RM-3 (48) (80) (81) × 1 Plate Set (3) (4) (4) × 1 RM-4 RM-5 Main Gear  $(8) \times 1$ Main Gear Shaft RM-6 22: (45 × 1 RM-7 Linkage Set (4) (78) 82 83 84 (26 × 1 85 × 2 Screw Set RM-8 Screw, Nut, Wrench RM-9 Body (II) X 1 Decal RM-10 (ii) X 1 0T-5 Joint (6) X 2 0T-6 Swing Shaft (5) X2 Sus. Shaft OT-11 72 73 74 75 2 OT-18 Rear Shaft 11) X 2 Drive Washer OT-19 (9) × 4 O T -28 18 19 4 20 × 2 Differential Gear M3 Pillow Ball OT-31 76 ×10 OT-32  $5.8 \phi$  Ball 42 ×10 OT-36 M2.6 Pillow Ball (77) ×10 Silicon Grease OT-38 (51) X 2 OT-39 E Ring (E2.5) **®** ×10 Rear Hub OT-45 70 00 1 OT-66 Low Profile Tire (13) X2 RM-12 Suspension Arm (1) (2) X 2 UM-2 Plain Bearing Set 24 (2) UM-8 Front Shaft 40 70 UM-10 43 × 2 Collar Set UM-11 Upright Set 57 58 1 59 X 2 47 61 62 63 64 66 1 Servo Saver Set 18 × 2 60 65 67 × 4 UM-21 68 × 1 Front Bumper Front Wheel Set UM-39 52 X 2 (Yellow) Wheel Set (Yellow) MA-17 53 × 4 Low Profile Front Tire S-S W-5073 (II) X2 Pin Type, Soft S C -89 Rod Set 79 × 2 69 77 Strap (S) 90 × 6 E F -38 Strap (M) 90 X6 E F -39 Ni-Cad Strap 92×6 Antenna Tube SD-79 95 × 5 1840 Double Sided Tape 98 X 1 Screw Locking Compound 1878 30 × 2 E P -22 Hook Pin @ X5 Air Filter RM-11 86 87 88 89 AB-14 Pilot Shaft (OS) (1) (1) AB-15 Clutch Shoe ®×2 A B-16 Clutch Bell ®×1 AB-17 Clutch Spring (11) × 4 Clutch Bearing LD-70 (II) X 1 (II) X6 K C -20 E Ring (E4) (M) X5 FD-3Belt ① X 1 Final Diff. Case (16) (17) × 1 FD-6 Final Pinion Gear (21) X 1 FD-7 (10) (23) × 1 Timing Pulley 22×2 FD-13 Slider Set (19) × 1 FD-17 Servo Mount Set (6) × 4

that part within the manual.

Then consult out part pack guide below. When referring to the parts you need, always use the Parts Pack Number.

For example, if you need a chassis (Key # 116) ask your dealer for Kyosho Parts Pack RM-1 (Chassis).

Kyosho	Parts Pack RM-1	(Chassis).
No.	Parts Name	Key No. & Q'ty
FD-18	Rear Bulkhead	·13 ·14 ·15 × 1
F D -20	Engine Mount	(M) X 2
	Flywheel Set	(ii) (ii) × 1
	Starter Holder	®×1
	Starter Assembly	₩ 1
F D 24	One Way Assembly	99°×1
	Muffler Assembly	(1) 1
F D -26	5 φ x10PlainBearing	25 ×10
F D -28	Fuel Tank	:12 1
F D -29	Fuel Tube	96 × 1
	Battery Holder	(97) 1
F D -33	Tail Tube	93 × 1
F D - 37	Black Shock (S)	26 27 28 29 30 31 32 33 36 35 × 2
	Black Shock (L)	26 27 28 29 30 31 32 37 38 39×2
1914		® ×10
C B -72		(ii) × 4
11		
Salting	Optional Parts Set	
UM-17	Wheel Set	Front,Rear 2 each
UM-43		2 Tollegated 2 Cath
100		2000
1883	Silicon Oil (S)	Viscosity 100SC,200SCx1
1953	Silicon Oil (M)	
1954		Viscosity 300SC,400SCx1
1955	Silicon Oil (H)	Viscosity 500SC,600SCx1
1901	5 φ x10Ball Bearing	
1903	4 φ x8Ball Bearing	2 pcs.
1911	8 φ x14Ball Bearing	2 pcs.
O T -99	Wing Stay	
O T-107	Wing	1,000
W-5001	Pressure Shock (S)	
	Pressure Shock (L)	and the second
		Easy adjusting damping force
W-5004	AdjustableShock (L)	Easy adjusting damping force
W-5005	Special Rod	One Touch Adjustable
W-5061	UniversalSwingShaft	For Smooth Drive
1875	Front Tire (A)	Block Type
W-5031	Low Profile Tire	
W-5032	Low Profile Tire	
W-5071	Front Tire M-S	Soft Compound
W-5072	Front Tire M-H	Hard Compound
W-5074	Front Tire S-H	Pin Type Hard Compound
W-5077	Low Profile Tire	Pin Type
W-5078	Low Profile Tire	Multi Spike
K C -18	3 φ Stopper	For Sus, Shaft
S D -53	Clutch Bell (12T)	Steel
S D 54	Clutch Bell (13T)	Steel
S D -55	Clutch Bell (14T)	Steel
A B -13	Pilot Shaft	For Enya engine
-		
		1
	1	
		1
		1
		1
		3

