RADIO CONTROLLED ELECTRIC POWERED RACING BUGGY **4WD OFF-ROAD RACER**

OPTIMA MID

- LIGHTWEIGHT, BELT DRIVEN, FOUR-WHEEL DRIVE FOR MAXIMUM PERFORMANCE.
 - NEW MID-SHIP MOTOR DESIGN FOR BETTER WEIGHT DISTRIBUTION.
 - STRONG, LIGHT ALUMINUM-ALLOY PLATE CHASSIS
- OVERSIZE OIL-FILLED GOLD SHOCKS, POWERFUL 240ST MOTOR, AND SPEED CONTROLLER INCLUDED IN KIT.
- STRONG, LIGHTWEIGHT, GLASS REINFORCED EXTRA-LONG SUSPENSION ARMS PROVIDE EXCELLENT HANDLING.
 - LOW-PROFILE WHEELS WITH LARGE DIAMETER SPIKED TIRES INCLUDED.
 - HIGH PERFORMANCE: LIGHTWEIGHT, COMPONENTS
 - FOR CHAMPIONSHIP PERFORMANCE. FASY STEP-BY-STEP ASSEMBLY AND ADJUSTMENT.

1:10 SCALE BATTERY: 7.2V-1200mAh RADIO: 2ch. **INOT INCLUDED!**





THINGS YOU WILL NEED BESIDES THIS KIT

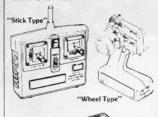
AWD PACER

OFF-ROAD OPTIMA N

2 CHANNEL RADIO SYSTEM

A two-channel, two-servo radio control system is required for the Optima Mid. The various components are pictured below.

TRANSMITTER



SERVOS



NOTE! Use only radio frequencies specifically allowed to operate "surface" models such as R/C cars and boats. In the United States those frequencies fall within the "75MHz" or "27 MHz" bands. Use of any other frequencies is both illegal and danderous

SMALL PARTS

On Pages 27 and 28 there is a guide for the small parts used in each step. Simply cut out the sheet along the dotted line and use it to help you locate the particular parts and their hape used in each step

CHECK YOUR RADIO SYSTEM

Follow the instructions that came with your radio system to check out its operation.

vill also need to supply your radio with the proper number of batteries (usu-ally 7 or 8 in the transmitter). The receiver will be powered by the motor battery.



HOM

BATTERY PACK A 7.2V battery similar in shape to the one shown here is required. The Kyosho #2218 or #2306 are good choices.



CHARGERS

Model	Name	Time	Rate%	Features
No. 2326	Power Quick Charger	15-25 Min.	70%	7.2V 6-Cell Charging w/Built-In Timer
No. 1845	Peak Charger	20 Min.	100%	Trickle Charging, 4-7 Cells w/Peak detection auto cut-off

POWER QUICK CHARGERS





NOTE: The dimen

sions shown are the max-

imum sizes which will fit.

REQUIRED TOOLS

These ARE included with the Optima Mid.

1.5mm Allen Wrench

2mm Allen Wrench 2.5mm Allen Wrench

Silicone Grease

OH Grease Screw Locking Screw Cement

These ARE NOT included with the Optima Mid.

Phillips Screwdriver

3mm & 4mm Nut Driver

Scissors

Needle Nose Pliers > Wire Cutters Son

Awl

Sharp Hobby Knife

Cyanoacrylate glue (such as Jet, CA, Hot Stuff or Krazy Gluel







Paint Brush

240SB



OPTIONAL MOTORS

The Optima Mid comes with a 240ST motor as stock. You may wish to upgrade the performance of the Optima Mid with a high performance LeMans motor. We have found the best motors for this are the 240SB or the 240S.

IMPORTANT! BEFORE YOU BEGIN

This is a sophisticated model with a large number of moving parts. Before you beg This is a sophisticated moder with a diagnostic or informing plant. Better you can assembly, take a look through the box and these instructions carefully to decide whether or not you are ready for this challenge! If you do not feel that this type of model is for you, it may be returned to the dealer as long as it is NEW and UNUSED.

UNDER NO CIRCUMSTANCES CAN YOUR DEALER ACCEPT A KIT FOR RETURN IF ASSEMBLY HAS ALREADY BEGUN! If this is not what you bargained for, then go no further and return this kit to the dealer immediately. BUT, if a little maintenance doesn't bother you and the thrill of high performance driving is for you, then don't hesitate another minute! Read through this entire manual thoroughly to familiarize yourself with the parts and methods of construction used before actually starting to build



ENTIRE CONTENTS ©COPYRIGHT 1987, HOBBICO, INC.

Wide

A few different types of screws are used in the construction of your model. Here are some examples of them and how they will be indicated in the instructions For example, Self Tapping will simply be S/T screw.

SELF TAPPING (S/T)

Coarse Threads

Has a tapered end.

SCREW



If it is an ordinary screw Small it will be marked 'screw'

METRIC NUTS AND BOLTS

All nuts and bolts used throughout this kit are metric size. Therefore, some of the notations may not be familiar to you. An M3 nut is a 3 millimeter (3mm) nut. An M3 x 15 screw is 15mm long and 3mm in Idameter. Some round parts may be labeled as a "4mm Washer" (this would be a washer with a 4mm inside diameter) or a "3 mm Bushing" (a bushing with a 3mm inside diameter). For your reference, 1 millimeter equals approximately 0.39 inches.

M3 × 15 SCREW

3mm 15mm

4mm WASHER

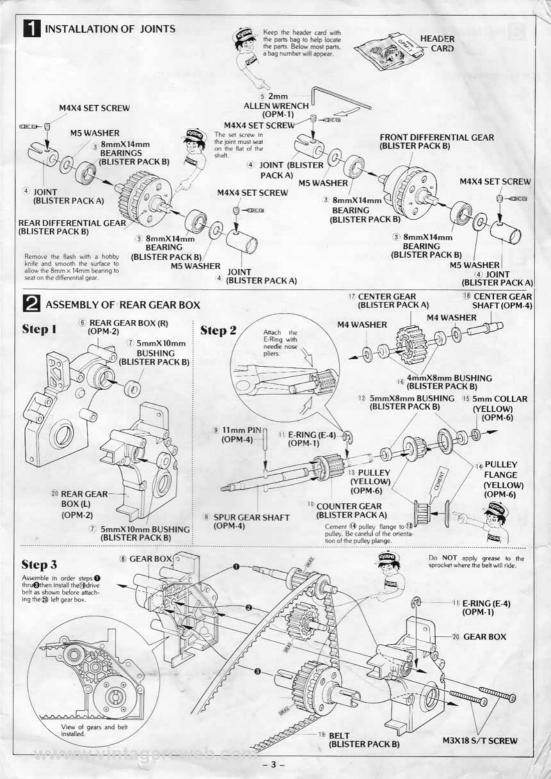
4mm

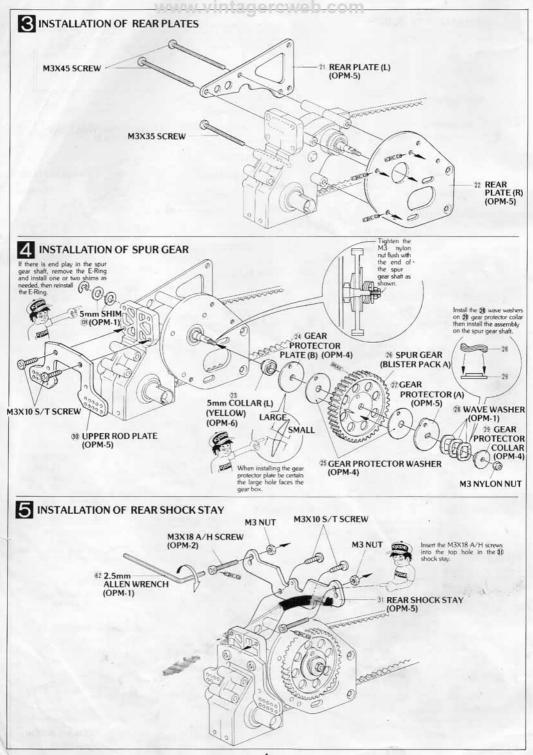
ALLEN HEAD SCREW (A/H)

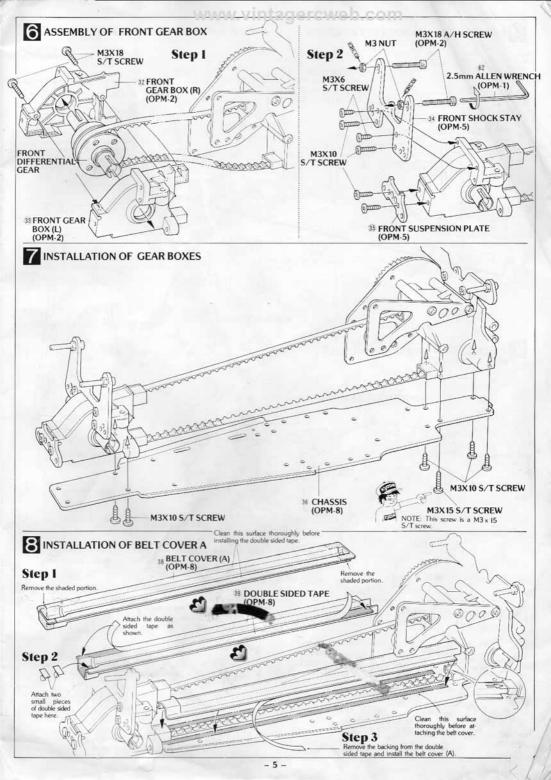


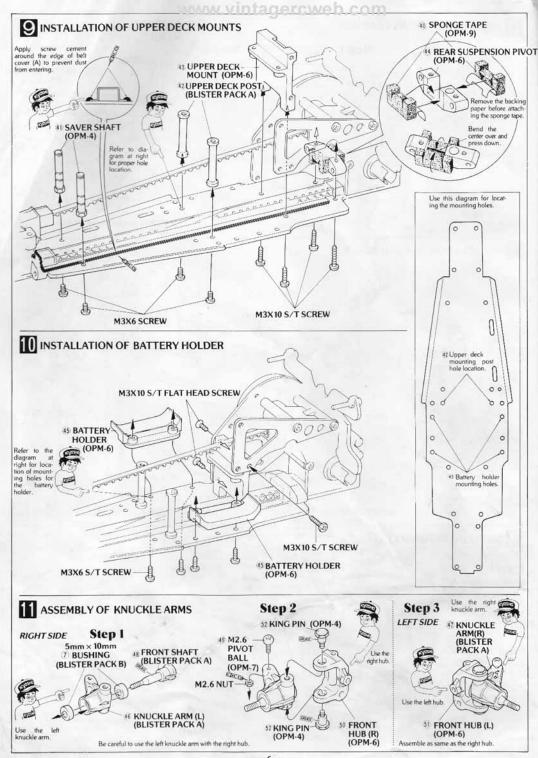
FLAT HEAD SCREW (F/H)

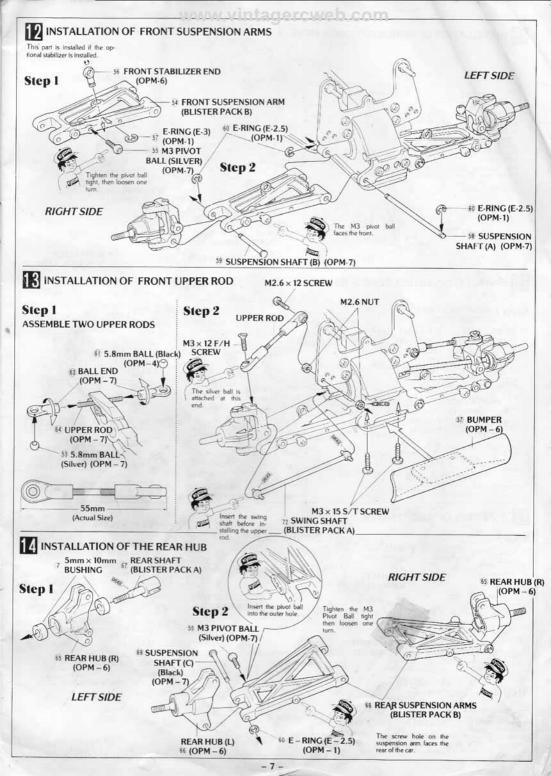
Tapered |

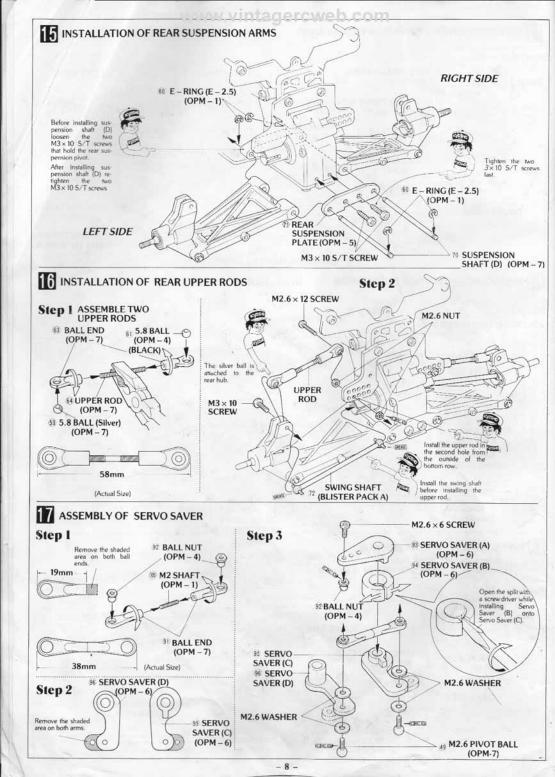


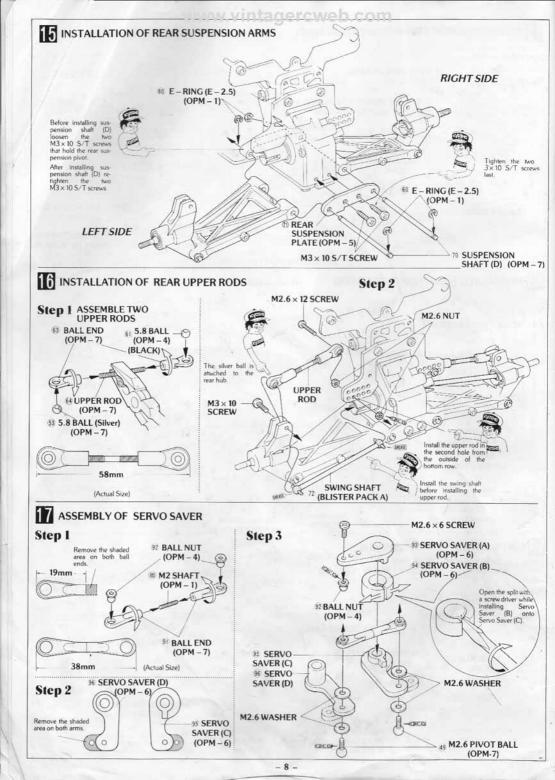


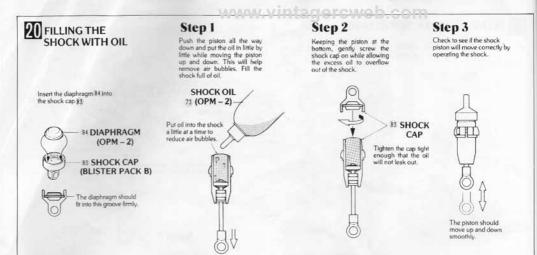


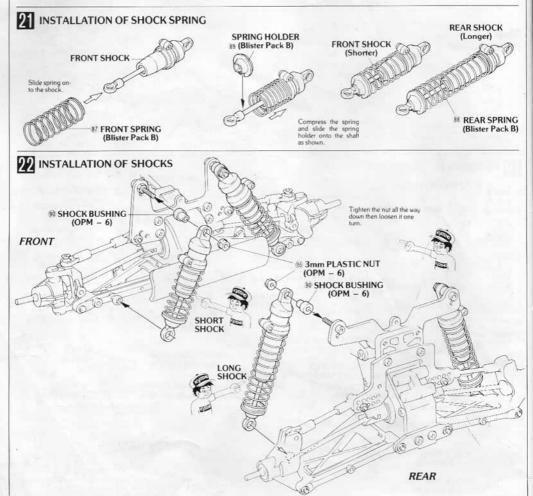


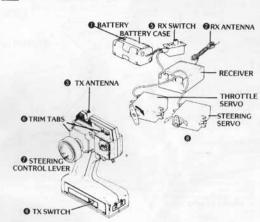








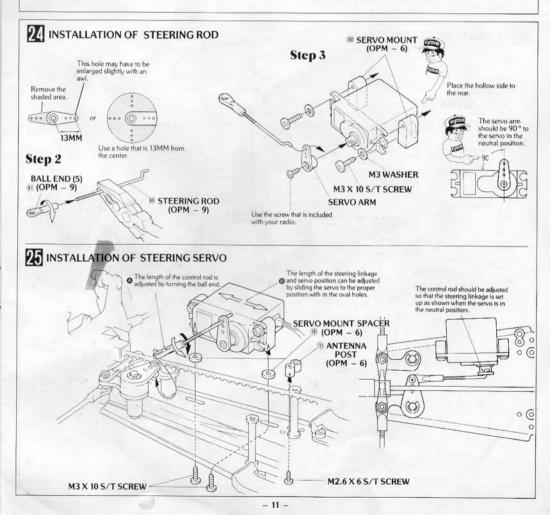


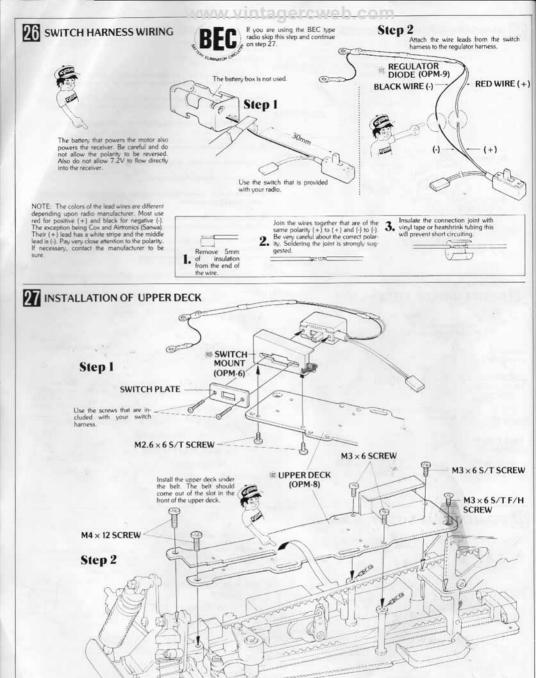


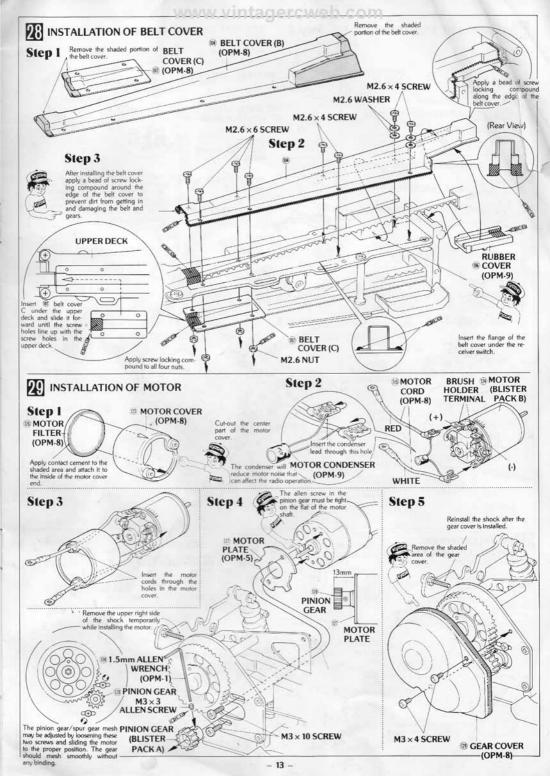
Follow steps 1-8.

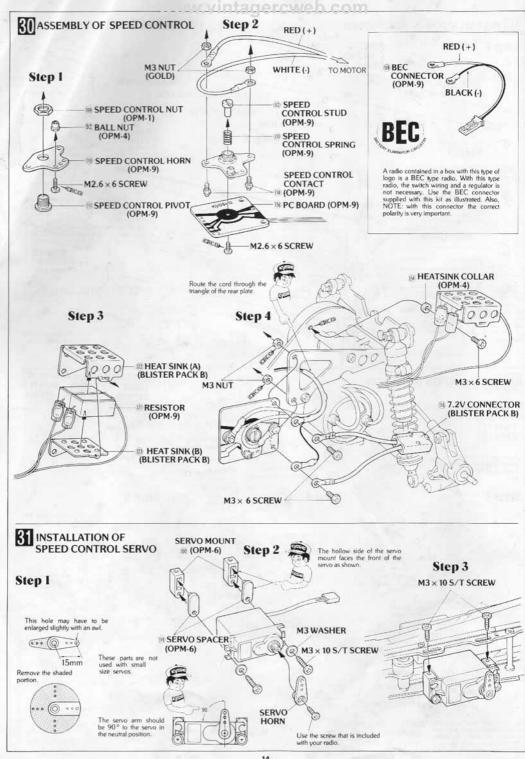
It is important to always switch the transmitter on first . . . then the receiver. When turning off the system, turn off the receiver first and then the transmitter.

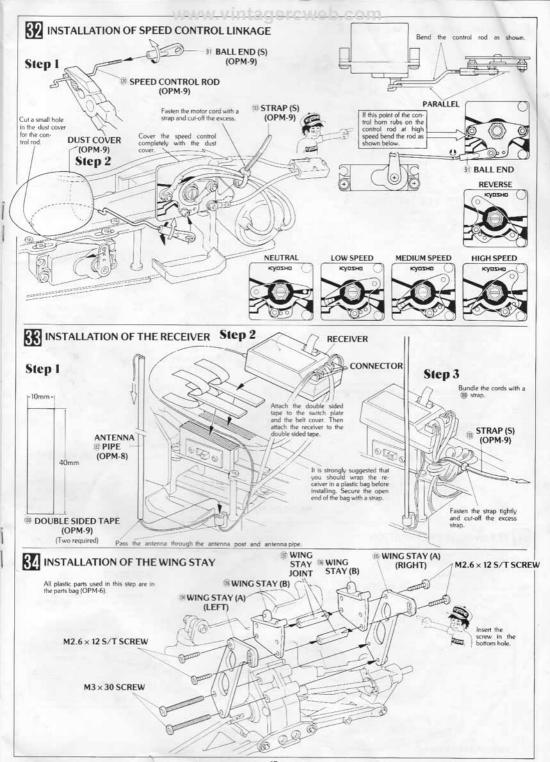
- Install the batteries into both the transmitter and receiver. If your radio is a rechargeable system, charge it as outlined in the manual that came with your set.
- 2. Unwind the receiver antenna and plug the servo and battery connectors into the receiver.
- 3. Extend the transmitter antenna.
- 4. Turn on the power switch of the transmitter.
 - 5. Turn on the power switch of the receiver
- Set the small trim levers to the ceriter position and make sure that both main control sticks are also centered.
- Move both main control sticks slowly through their full travel. The servo horns should move in proportion to the movement of your sticks.
- When trim levers and sticks are at their neutral positions, the servo horns should be centered. You may now turn off the receiver, then the transmitter and unplug the servos and battery from the receiver.

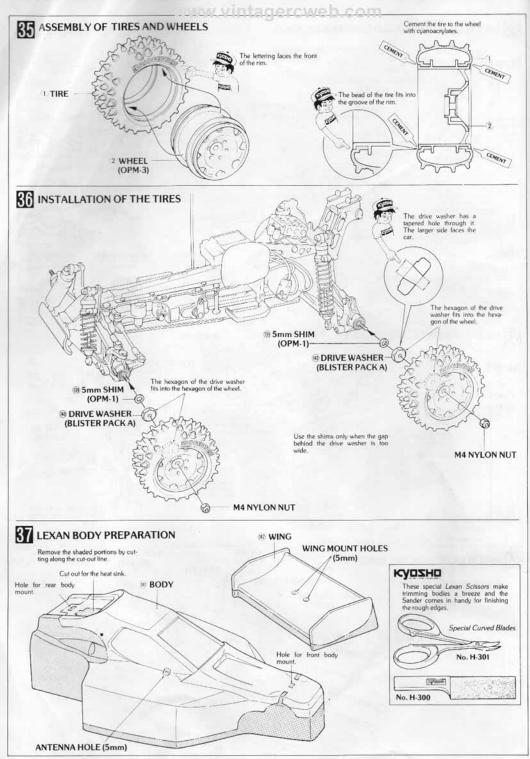


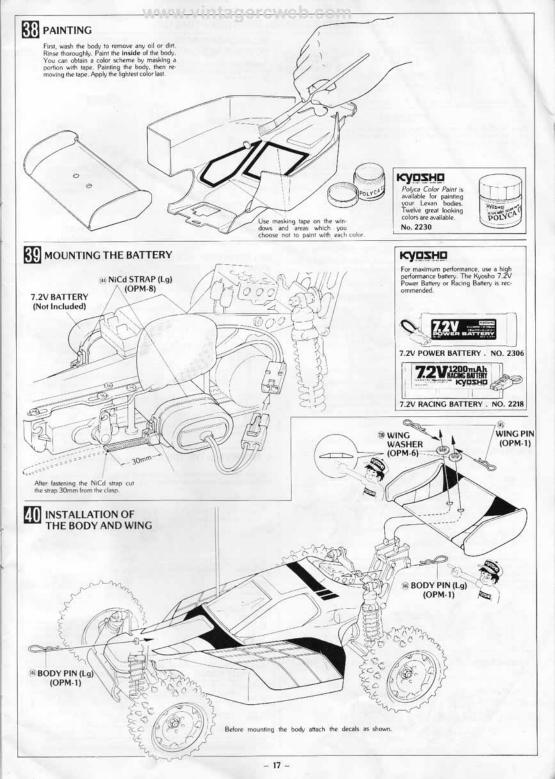










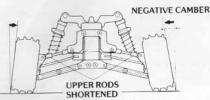


BASIC ADJUSTMENT GUIDE FOR THE OPTIMA MID

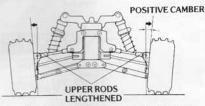


UPPER ROD

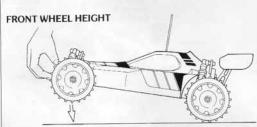
Place the car on a flat surface with the chassis raised as high as possible and adjust the length of the front and rear upper rods in a way so that the tires stand at a right angle to the ground.



Negative camber results when you make the upper rods shorter. With negative camber on the front wheels, sharper steering tendency will result while on the rear wheels the traction improves



Positive camber results when you make the upper rods longer with positive camber on the front wheels under steering will result while on the rear wheels the car will over steer. With excessive positive camber the swing shafts may dislocate.

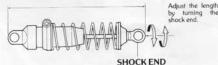


Place the car on a flat area, raise the front end and then lower the front wheels slowly to see whether they will touch the ground evenly. If not, adjust the length of the shocks. If they are uneven, steering to the right and left will not be the



SHORTEN LENGTHEN

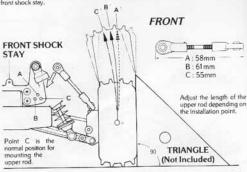
LENGTHEN SHORTEN



www.vintagercweb.com

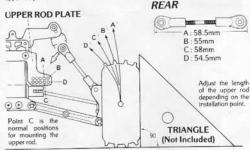
RELATIONSHIP BETWEEN UPPER ROD MOUNTING POSITION AND CAMBER ANGLE.

The drawing below shows the different camber angles, at maximum deflection of the front wheel, when the upper rod is mounted at the different positions on the front shock stay.



RELATIONSHIP BETWEEN UPPER ROD MOUNTING POSITION AND CAMBER ANGLE

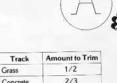
The drawing below shows the different camber angles, at maximum deflection of the rear wheel, when the upper rod is mounted at the different positions on the upper rod plate.



CUSTOMIZING THE TIRES

Trim the knobs.

You can increase performance for various track conditions by trimming the knobs of the tires. Consult the chart below.



Track	Amount to Trim	55
Grass	1/2	80
Concrete	2/3	1
Sand	NONE	
Hard Dirt	1/3	Also av
Soft Dirt	NONE	series tir



ailable are the "Option House" series tires. The W-5021 low profile tire is for hard surface. The W-5032 low profile tire is for soft surfaces.

(PTIC	ANC	LGE	ARF	RATIO	OS A	ND N	TON	ORS		
Pinion Gear	15	16	17	-18	19	20	21	22	23	24	25
Gear Ratio	13.04	12.22	11.50	10.87	10.29	9.78	9.31	8.89	8.50	8.15	7.82
Motor		SP	A 240	WS							
					LeM	ans 2	40ST				
	1				-			LeMa	ns 360	GOLD	

The chart above shows the selection of gears that are suggested for each type of motor.

RUNNING THE OPTIMA MID

The same battery powers the radio and motor. As soon as the car starts to slow down, recharge the battery. Otherwise you will quickly lose control.



After running, always remove the battery from the car.



CHECK BEFORE EVERY RUN

Check to see if all bolts and nuts are tightened firmly.

Check to see if NiCd battery is fully charged.

Check to see if the steering and speed control is in proportion to your control of

Check to see that all wiring is properly insulated.

Check to see if parts are moving smoothly.

OPERATING PROCEDURES

Turn transmitter switch on.

Switch on the receiver

Check to see if the radio system is working properly.

NOTE: When turning off the switches, turn off the receiver first then transmitter. Otherwise, the servos may be left in a position other than neutral.

TROUBLE SHOOTING IF THE CAR DOES NOT START

Poor contact of connectors of batteries, connector, and speed control.

Check to see if the ni-cad battery is fully charged.

Check to see shortage of battery power for the transmitter.

Signal interference from other radios.

OPERATIONAL SAFETY

Radio controlled model cars are powered by quick discharge NiCd batteries which allow the cars to obtain high speeds. Caution is required when operating R/C cars.

Do not run R/C cars on the street.

Check to make sure no one else is on your frequency. If so do not turn your radio on.

If your car is stopped by an obstacle do not continue running the car. Remove the car manually. Failing to do so may ruin the motor and wiring.

Do not grab the tires while they are rotating.

Before connecting the NiCd battery, check that the speed control is in the neutral position.

The motor and receiver are powered by the same NiCd battery. As the battery lowers the receiver looses power resulting in the loss of control of the car. When the car slows down, stop, and recharge the battery.

SPROCKET

Remove the NiCd battery from the car.

MAINTENANCE AFTER RUNNING THE CAR

Wipe the dirt off of the car

Make sure all the switches of the radio control unit are off.

Clean and grease the moving parts periodically.

Check and tighten all nuts and screws.

Wipe the speed control off with a rag or a brush and check regularly.

MOTOR CARE

The motor generates a lot of heat while running. The motor needs time to cool between batteries. Fallure to do this may shorten the life span of the motor.

After several runs the motor power may decrease from carbon accumulating on the commutator. Remove the pinion gear and run the motor for 15 minutes with a 7.2 volt battery. This will clean the commutator of the carbon.

M2 x 12 S/T SCREW 4 pcs.

Clean and oil the motor bushings regularly.

See the motor insert included in this kit for special motor care instructions.

EXPLODED VIEW OF THE FRONT AND REAR DIFFERENTIALS The larger beveled end faces REAR DIFFERENTIAL FRONT DIFFERENTIAL the sprocket BEVEL GEAR (B) **BEVEL GEAR** BEVEL GEAR ® BEVEL GEAR (B) SHAFT SHAFT M DIFFERENTIAL M2 × 12 S/T SCREW MAIN * SPROCKET 4 pcs. GEAR CASE **GEAR** 50 DIFFERENTIAL GEAR RING **M DIFFERENTIAL** (Yellow) GEAR RING (Yellow) B BEVEL GEAR (B) BEVEL GEAR (B) B BEVEL GEAR (A) ® BEVEL GEAR (A)

KEY NUMBERS FOR PARTS

No.	Parts Name	Q'ty	No.	Parts Name	Q'ty	No.	Parts Name	Q'ty
1	Tire	4	54	Front Suspension Arm	2	107	Belt Cover (C)	1
2	Wheel	4	55	M3 Pivot Ball (Silver)	4	108	Allen Wrench (1.5mm)	1
3	8mm×14mm Ball Bearing	4	56	Front Stabilizer End	2	109	Speed Control Nut	1
4	Joint	4	57	E-Ring (E-3) (Black)	2	110	Speed Control Horn	1
5	Allen Wrench (2mm)	1	58	Suspension Shaft (A)	2	111	Speed Control Pivot	1
6	Rear Gear Box (R)	1	59	Suspension Shaft (B) (Silver)	2	112	Speed Control Stud	1
7	5mm×10mm Bushing	10	60	E-Ring (E-2.5)	20	113	Speed Control Spring	1
8	Spur Gear Shaft	1	61	5.8mm Ball (Black)	4	114	Speed Control Contact	2
9	2mm×11 Pin	1	62	Allen Wrench (2.5mm)	1	115	Motor Cord	2
10	Counter Gear	1	63	Ball End (L)	12	116	Connector (7.2V)	1
11	E-Ring (E-4)	4	64	Upper Rod	4	117	Regulator	1
12	5mm×8mm Bushing	2	65	Rear Hub (R)	1	118	BEC Connector	1
13	Pulley (Yellow)	1	66	Rear Hub (L)	1	119	Servo Spacer	2
14	Pulley Flange (Yellow)	1	67	Rear Shaft	2	120	Speed Control Rod	1
15	5mm Collar (S) (Yellow)	2	68	Rear Suspension Arm	2	121	Resistor	1
16	4mm×8mm Bushing	2	69	Suspension Shaft (C) (Black)	2	122	Heat Sink (A)	1
17	Center Gear	1	70	Suspension Shaft (D)	2	123	Heat Sink (B)	1
18	Center Gear Shaft	1	71	Rear Suspension Plate	1	124	Motor	1
19	Belt	1	72	Swing Shaft	4	125	Motor Cover	1
20	Rear Gear Box (L)	1	73	Shock Oil	1	126	Motor Filter	1
21	Rear Plate (L)	1	74	Front Shock Case	2	127	Motor Plate	1
22	Rear Plate (R)	1	75	Rear Shock Case	2	128	Pinion Gear (20T)	1
23	5mm Collar (L) (Yellow)	1	76	Shock Piston	4	129	Gear Cover	1
24	Gear Protector Plate (B)	1	77	Front Shock Shaft	2	130	Double Sided Tape	1
25	Gear Protector Washer	2	78	Rear Shock Shaft	2	131	Antenna Post	1
26	Spur Gear	1	79	Shock O-Ring (Red)	8	132	Antenna Pipe	1
27	Gear Protector (A)	1	80	Shock Collar (White)	4	133	Strap (S)	3
28	Wave Washer	3	81	Plastic Washer (Black)	4	134	Wing Stay (A) (Left)	1
29	Gear Protector Collar	1	82	C-Ring	4	135	Wing Stay (A) (Right)	1
30	Upper Rod Plate	1	83	Shock Cap	4	136	Wing Stay (A) (Night)	2
31	Rear Shock Stay	1	84	Diaphragm	4	137	Wing Stay	2
32	Front Gear Box (R)	1	85	Spring Stopper	4	138	Wing Slay Wing Washer	2
33	Front Gear Box (L)	1	86	Shock End	4	139	5mm Shim	8
34	Front Shock Stay	1	87	Front Spring		140	Drive Washer	4
35	Front Suspension Plate	1	88	Rear Spring	2			-
36	Chassis	1		75.50		141	Body	1
0.75		1	89	Spring Holder	4	142	Wing	1
37	Bumper Balt Court (A)		90	Shock Bushing	4	143	Decal	1
38	Belt Cover (A)	1	91	Ball End (S)	4	144	NiCd Strap	2
39	Double Sided Tape	2	92	Ball Nut	4	145	Wing Pin	2
40	Sponge Tape	2	93	Servo Saver (A)	1	146	Body Pin	2
41	Saver Shaft	2	94	Servo Saver (B)	1	147	Main Gear	1
42	Upper Deck Post	2	95	Servo Saver (C)	1	148	Sprocket	2
43	Upper Deck Mount	1	96	Servo Saver (D)	1	149	Differential Gear Case	1
44	Rear Suspension Pivot	1	97	Servo Saver Collar	2	150	Differential Gear Ring	2
45	Battery Holder	2	98	Tie Rod	2	151	Bevel Gear (A)	4
46	Knuckle Arm (L)	1	99	Steering Rod	1	152	Bevel Gear (B)	4
47	Knuckle Arm (R)	1	100	Servo Mount	4	153	Bevel Gear Shaft	2
48	Front Shaft	2	101	Servo Mount Spacer	2	154	Heat Sink Collar	1
49	M2.6 Pillow Ball (Black)	4	102	Upper Deck	1	155	M3 Plastic Nut	4
50	Front Hub (R)	1	103	Switch Mount	1	156	PC Board	-1
51	Front Hub (L)	1	104	Belt Cover (B)	- 1	157	Silicone Grease	1
52	King Pin	4	105	M2 Shaft	1	158	Screw Cement	2
53	5.8mm Ball (Silver)	4	106	Rubber Cover	1		Motor Condencer	1

LIST OF BAGGED PARTS

Bag	Key No.	Part Name	Q'ty	Step Used In
	4	Joint	4	6 1
В	10	Counter Gear	1	2
L	17	Center Gear	1	2
S	26	Spur Gear	1	4
L S T E R	42	Upper Deck Post	2	9
	46	Knuckle Arm (L)	1	60
P	47	Knuckle Arm (R)	1	00
A C K	48	Front Shaft	2	00
	67	Rear Shaft	2	112
A	72	Swing Shaft	4	06 00
	128	Pinion Gear (20T)	1	20
	140	Drive Washer	4	EE
	3	8mm×14mm Ball Bearing	4	0
	7	5mm × 10mm Bushing	10	200
В	12	5mm×8mm Bushing	2	2
	16	4mm×8mm Bushing	2	2
L S T E R	19	Belt	1	2
	54	Front Suspension Arm	2	122
	68	Rear Suspension Arm	2	Œ
PA	116	Connector (7.2V)	ī	EII .
A C K	122	Heat Sink (A)	1	ED
	123	Heat Sink (B)	1	ED
В	124	Motor 240ST	1	20
	Ass'y	Front Differential Gear	1	O
	Ass'y	Rear Differential Gear	1	O
	Ass'y	Front Shock (S)	2	DE)
	Ass'y	Rear Shock (L)	2	120
	6	Rear Gear Box (R)	1	2
	20	Rear Gear Box (L)	1	2
	32	Front Gear Box (R)	1	6
	33	Front Gear Box (L)	1	6
	60	E-Ring (E-2.5)	4	00
	73	Shock Oil	1	200
	76	Shock Piston	4	19
OPM-2	79	Shock O-Ring (Red)	8	109
	80	Shock Collar (White)	4	Œ
	81	Plastic Washer (Black)	4	DE)
	82	C-Ring	4	EE
	84	Diaphragm	4	20
		A/H Bolt M3×18	4	6
	157	Silicone Grease	1	2 2 2
	158	Screw Cement	2	
OPM-3	2	Wheel	4	855
	8	Spur Gear Shafi	1	2
OPM-4	9	2mm×11 Pin	1	2
	18	Center Gear Shaft	1	2

Bag	Key No.	Part Name	Q'ty	Step Used In
	24	Gear Protector Plate (B)	1	0
	25	Gear Protector Washer	2	Ø
	29	Gear Protector Collar	1	0
OPM-4	41	Saver Shaft	2	9
OF M-4	52	King Pin	4	OB .
	61	5.8mm Ball (Black)	4	0E 03
	92	Ball Nut	4	00 EO
	154	Heatsink Collar	1	RID.
	21	Rear Plate (L)	1	8
	22	Rear Plate (R)	1	8
	27	Gear Protector (A)	1	Ø
	30	Upper Rod Plate	1	Ø
OPM-5	31	Rear Shock Stay	1	6
	34	Front Shock Stay	1	6
	35	Front Suspension Plate	1	8
	71	Rear Suspension Plate	1	163
	127	Motor Plate	1	æ
	13	Pulley (Yellow)	1	2
	14	Pulley Flange (Yellow)	1	2
	15	5mm Collar (S) (Yellow)	2	2
	23	5mm Collar (L) (Yellow)	1	a
	37	Bumper	1	STEE
	43	Upper Deck Mount	1	9
4	44	Rear Suspension Pivot	1	9
	45	Battery Holder	2	10
	50	Front Hub (R)	1	100
	51	Front Hub (L)	1	00
	56	Front Stabilizer End	2	012
	65	Rear Hub (R)	1	Œ
	66	Rear Hub (L)	1	123
	90	Shock Bushing	4	222
OPM-6	93	Servo Saver (A)	. 1	192
	94	Servo Saver (B)	1	100
	95	Servo Saver (C)	1	99
	96	Servo Saver (D)	1	100
	97	Servo Saver Collar	2	100
	100	Servo Mount	4	20 60
	101	Servo Mount Spacer	2	22
	103	Switch Mount	1	20
	119	Servo Spacer	2	61
	131	Antenna Post	1	25
	134	Wing Stay A (L)	1	82
	135	Wing Stay A (R)	1	EE
	136	Wing Stay B	2	823
	137	Wing Stay	2	823
	138	Wing Washer	4	20 2

LIST OF BAGGED PARTS

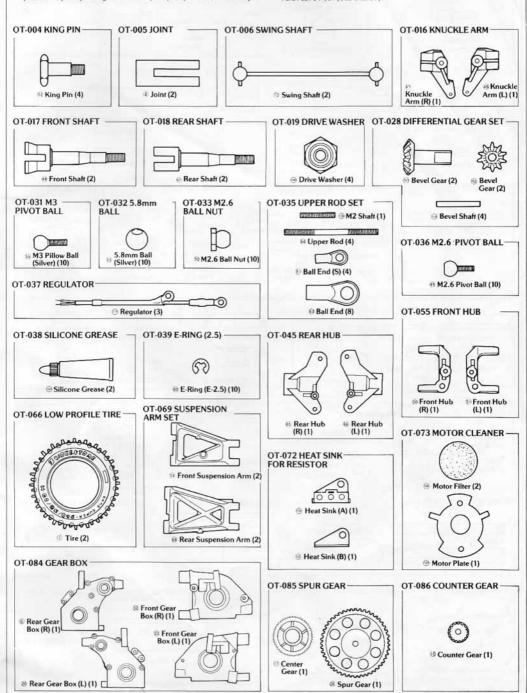
Bag	Key No.	Part Name	Q'ty	Step Used In
0PM-6	155	M3 Plastic Nut	4	222
	49	M2.6 Pivot Ball (Black)	4	00 00
	53	5.8mm Ball (Silver)	4	0E 0E
	55	M3 Pivot Ball (Silver)	4	D2 00
	58	Suspension Shaft (A)	2	112
	59	Suspension Shaft (B) Silver	2	Œ
орм-7	63	Ball End (L)	12	000 000 000
	64	Upper Rod	4	00 O
	69	Suspension Shaft (C) (Black)	2	12
	70	Suspension Shaft (D)	2	(IE)
	91	Ball End (S)	2	100
	98	Tie Rod	2	Œ
	36	Chassis	1	72
	38	Belt Cover (A)	1	8
	39	Double Sided Tape	2	8
	102	Upper Deck	1	20
	104	Belt Cover (B)	1	600
OPM-8	107	Belt Cover (C)	1	25
OPM-8	115	Motor Cord	2	1
	125	Motor Cover	1	20
	126	Motor Filter	1	EE
	129	Gear Cover	1	22
	132	Antenna Pipe	1	838
	144	NiCd Strap	2	1
	40	Sponge Tape	2	9
	91	Ball End (S)	2	20
	99	Steering Rod	1	22
	106	Rubber Cover	1	20
	110	Speed Control Horn	1	ED
	111	Speed Control Pivot	1	EED
	112	Speed Control Stur	1	ED
орм-9	113	Speed Control Spring	1	SEE .
OPM-9	114	Speed Control Contact	2	E D
	117	Regulator	1	20
	118	BEC Connector	1	80
	120	Speed Control Rod	1	829
	121	Resistor	1	ED
	130	Double Sided Tape	1	88
	133	Strap (S)	2	821 EE
	156	PC Board	1	ED (ED)
		Motor Condencer	1	20
	1	Tire	4	820
	141	Body	1	80
	142	Wing	1	80
	143	Decal	1	813
		Instruction	1	

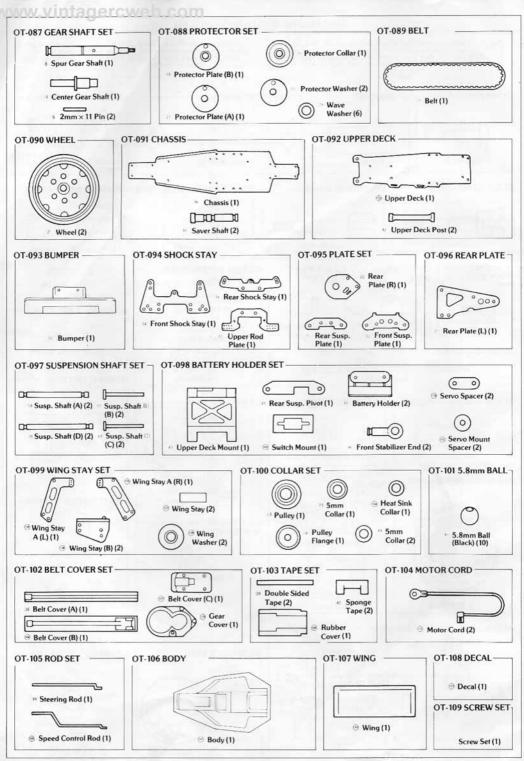
Bag	Part Name	Q'ty	Step Used In
	M2.6×4 Screw	4	
	M2.6 x 6 Screw	7	
	M2.6 × 12 Screw	4	
	M3×6 Screw	9	
	M3×10 Screw	4	
	M3×30 Screw	2	
	M3×35 Screw	1	
	M3×45 Screw	2	
	M4×12 Screw	2	
	M3×4 Screw	2	
	M3×12 F/H Screw	2	
	M2.6×6 T P S/T Screw	3	100
	M2.6 x 12 S/T Screw	4	
	M3×6 S/T Screw	7	
	M3×10 S/T Screw	28	
	M3×15 S/T Screw	3	
	M3×18 S/T Screw	4	
	M3×6 TP S/T F/H Screw	1	
	M3×10 S/T F/H Screw	2	
DPM-1	M2.6 Nut	14	
	M3 Nut	6	
	M3 Nut (Gold)	2	
	Speed Control Nut	1	
	M3 Nylon Nut	1	
	M4 Nylon Nut	4	
	M2.6 Washer	8	
	M3 Washer	4	
	M4 Washer	2	
	M5 Washer	4	
	5mm Shim	8	
	28 Wave Washer	3	
	M3×3 Set Screw	1	
	M4×4 Set Screw	4	
	60 E-Ring (E-2.5)	13	
	57 E-Ring (E-3) (Black)	3	
	IE E-Ring (E-4)	5	
	Wing Pin	2	
	⊕ Body Pin	2	
	M2 Shaft	2	
	Allen Wrench (1.5)	1	
	(5) Allen Wrench (2.0)	1	
	62 Allen Wrench (2.5)	1	

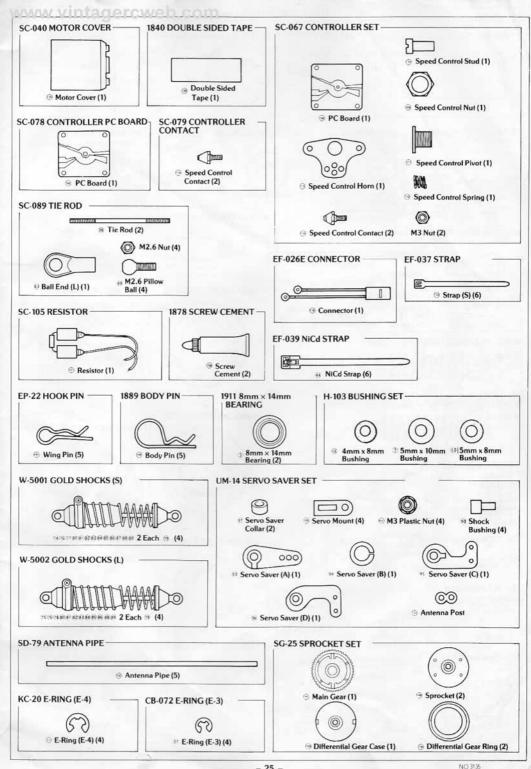
PURCHASING PARTS FOR YOUR KIT

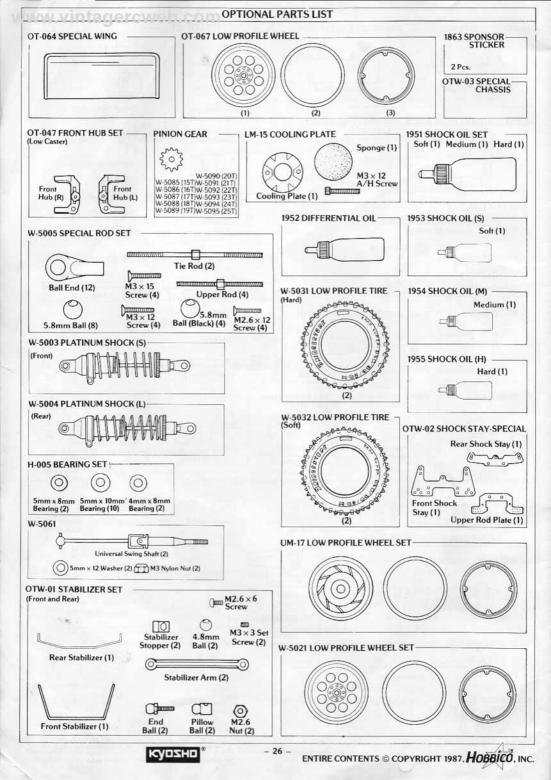
You can purchase replacement and optional parts for your kit. All of the parts identified by key numbers (see page 20 for complete list) are usually not available singularly, but we offer these parts in convenient parts "packs" which can be purchased separately. To figure out which parts pack you need, find the key

number for that part within the manual. Then consult our parts pack guide below. When referring to the parts you need, always use the Parts Pack Number. For instance, if you need a Center Gear Shaft (Key #18) ask your dealer for Kyosho Parts Pack 07-087 (Cear Shaft Set).









€2 ALLEN WRENCH (2.5mm)	4 INSTALLATION OF SPUR GEAR	ASSEMBLY OF KNUCKLE ARMS
5 ALLEN WRENCH (Zmm)	M3 × 10 S/T SCREW 2	M2.6 NUT 2 (6)
® ALLEN WRENCH (1.5mm) 1	M3 NYLON NUT 1	5mm × 10mm BUSHING
	29 5mm COLLAR 1	48 FRONT SHAFT
INSTALLATION OF JOINTS		®M2.6 PIVOT BALL
M4×4 SET SCREW4	28 WAVE WASHER3	(Black)
M5 WASHER 4	29 GEAR PROTECTOR COLLAR 1	INSTALLATION OF FRONT SUSPENSION ARMS
3 8mm×14mm BEARING 4	⊕ 5mm SHIM 2	55 M3 PIVOT BALL (Silver)
(a) JOINT	INSTALLATION OF REAR SHOCK STAY	END
2 ASSEMBLY OF REAR GEAR BOX	M3 × 10 S/T SCREW 2	58 SUSP SHAFT (A) 2
M3 × 18 S/T SCREW2	M3×18 A/H SCREW2	59 SUSP SHAFT (B) (Silver)
M4 WASHER 2	M3 NUT2	60 E-RING (E-2.5)6
5	S ASSEMBLY OF FRONT GEAR BOX	INSTALLATION OF FRONT UPPER RO
®BUSHING	M3×6 S/T SCREW2	M2.6 × 12 SCREW 2
SPUR GEAR SHAFT 1	M3×10 S/T SCREW4	M3 × 12 F/H SCREW2
9 2mm×11 PIN1	M3 × 18 A/H SCREW2	M3 × 15 S/T SCREW2
© COUNTER GEAR .1	M3 × 18 S/T SCREW2	M2.6 NUT 4 (6)
Card I	M3 NUT2 (1)	M5.8 BALL (Silver)2 ()
(1) E-RING (E-4)	INSTALLATION OF GEAR BOX	# M5.8 BALL (Black) .2
12 5mm×8mm BUSHING .2	M3 × 10 S/T SCREW5	63 BALL END (L) 4
	M3 × 15 S/T SCREW1	M INSTALLATION OF REAR HUBS
® PULLEY1	INSTALLATION OF UPPER DECK MOUNT	7 5mm×10mm BUSHING4
PULLEY FLANGE .1	M3×6 SCREW	59 M3 PIVOT BALL
The state of the s	M3 × 10 S/T SCREW 4	(Silver)
15 5mm COLLAR 1	4) SAVER SHAFT 2	80 E-RING (E-2.5) 2 ()
	② UPPER DECK POST 2	REAR SHAFT
8USHING .2		® SUSP SHAFT (C) (Black) 2
SHAFT .1	<u></u>	IS INSTALLATION OF REAR SUSP ARMS
INSTALLATION OF REAR PLATE	III INSTALLATION OF BATTERY HOLDER	M3 × 10 S/T SCREW2
M3×35 SCREW 1	M3×6 S/T SCREW4	
M3×45 SCREW 2	M3 × 10 S/T SCREW 1	® E-RING (E-2.5) 4 (57) % SUSP SHAFT (D)
	- Names	M M

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AFCATOT