RADIO CONTROLLED 1/10 SCALE 4WD .12 GAS MONSTER TRUCK

NITRO THRASHER®

- SHAFT DRIVE 4WD MONSTER TRUCK.
- O.S. MAX® .12CZ-R ENGINE INCLUDED.
- FOUR -WHEEL INDEPENDENT SUSPENSION WITH OIL-FILLED SHOCKS TO KEEP THE TRUCK UNDER CONTROL ON ALL SURFACES.
- QUICK, EASY STARTING WITH BUILT-IN RECOIL STARTER.
- COMPLETE WITH FUEL BOTTLE AND GLOW PLUG DRIVER.

1:10 Scale

KYOSHO®

Kit No. 3111H

Requires: (Not Included)
Radio: 2-Channel
Batteries: Radio Batteries and (4) D-Cells for Glow Plug
Fuel: Good Quality 10% Nitro Glow Fuel

KYOZ7498

V 1.0

BEFORE BEGINNING TO BUILD

BEFORE BEGINNING TO BUILD THE NITRO THRASHER 4WD, MAKE SURE IT'S THE RIGHT MODEL FOR YOU!

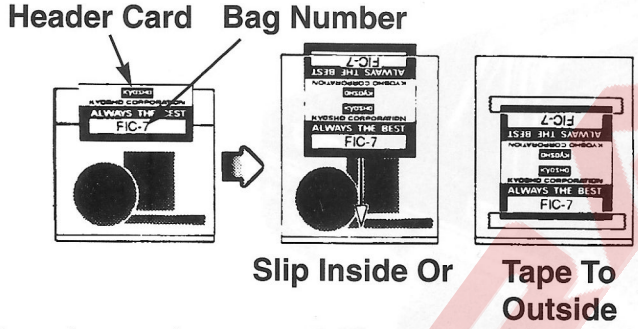
We want your experience at building this model to be a success. So before you remove any parts from their packages and begin assembly:

- Read through the entire manual carefully to make sure that you are thoroughly acquainted with the model.
- If for any reason you think this model may not be for you, **Please Note:** Your hobby dealer cannot accept a model kit for return after assembly has begun. Return it immediately if you have doubts or concerns.

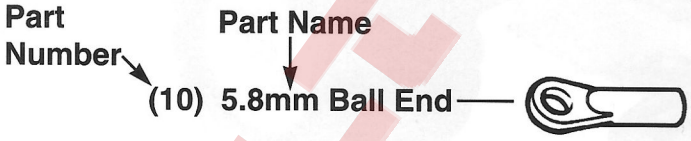
The Kyosho Nitro Thrasher is a sophisticated, high-performance gas powered model with many moving parts. Unlike electric radio-control models, this style kit requires more general maintenance and patience to operate successfully. But if you're ready for fast, exciting gas racing and welcome the chance to know your car inside and out, then you're ready for the 1/10 scale Kyosho Nitro Thrasher 4WD.

DON'T LOSE YOUR PARTS

This Kyosho instruction manual uses a cross reference system to help you locate all of the bagged parts. DO NOT open each bag and dump out the parts. Carefully remove the header card from the bag and discard the staple. Slip the header card into the bag or tape it to the outside of the bag so that the bag number shows. These bag numbers are listed on pages 5 and 6 and will prove invaluable when locating parts.



In each step of assembly each part will be labeled with 1) The part number, and 2) Part name. To easily locate the part, check the Bagged Parts List on pages 5 and 6.

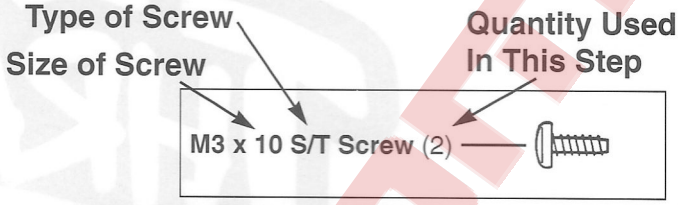


PURCHASING PARTS FOR YOUR KIT

On Page 22 you will find a complete list of replacement and optional parts. If by chance you need to replace a part, consult this guide for manufacturer stock numbers and contents.

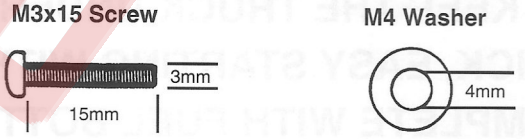
FINDING THE SMALL PARTS

In the left margin of each page you will find a directory of small parts that will be used in each step. For ease of identification, these parts are shown actual size enabling you to place a screw directly on the picture to ensure you have selected the appropriate size. Feel free to cut off this page to have beside you when building the kit.



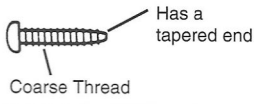
FINDING THE CORRECT SCREWS AND WASHERS IN THIS KIT

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 3mm in diameter and 15mm long. Some round parts may be labeled as a "M4 Washer" (a washer with a 4mm inside diameter) or a "3mm Bushing" (a bushing with a 3mm inside diameter). For your reference, 1 millimeter equals approximately .039 inches. Also on page 23 a metric ruler is provided.



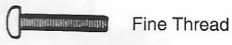
A few different types of screws are used in the construction of your model. Here are some examples and how they will be indicated in the instructions for example, Self Tapping will simply be S/T screw.

Self Tapping (S/T)



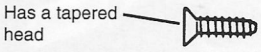
A self tapping screw has a coarse thread and is used to screw into plastic. Be careful not to tighten the screw too much. This may strip the plastic.

Screw



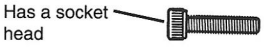
Screws have a fine thread and are used with nuts most of the time. They are for high stress joints where strength is required.

Flat Head Screw (F/H)



Flat head screws have a fine thread and a tapered head. This allows the head of the screw to be flush with the part it is holding so that the screw does not catch on anything.

Hex Head Screw (H/H)



Hex Head Screws have a socket head that takes a hex wrench in order to turn. These are for areas that require tight joints where normal screws may strip out.

HELPFUL HINTS

Some precautions need to be observed when building your Kyosho kit to avoid problems:

1.) Take your time and read the instruction manual thoroughly. It's not how fast you can assemble the kit but how fast it goes once it is assembled.

2.) Try to avoid working over a shag carpet. In the event that a small part or screw should fall onto the carpet, it will be difficult to find.

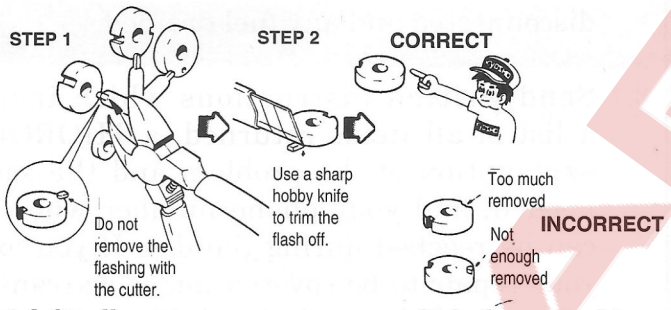
3.) Place a mat or towel on the work surface where you will be building the kit. This will prevent parts from rolling off and will protect the work surface at the same time.

4.) Use a muffin tin or egg carton to separate screws, nuts, washers, etc. This will make it easier to locate the correct part.

5.) Avoid getting products like motor cleaner or screw lock on the plastic parts. They can melt the plastic which will damage the model.

6.) Avoid running the model in very cold temperatures. Both plastic and metal parts become brittle at low temperatures. In addition, grease, oil and fuel become thick causing premature wear and deficient performance.

7.) Remove all flashing from parts before assembly as shown in the example below.



8.) Trial fit all parts to ensure proper fit before attaching them permanently.

9.) Do not use excessive force when tightening self tapping type screws into plastic. Overtightening will cause the threaded portion of the plastic to strip. It is recommended to stop tightening when some resistance is felt after the threaded portion enters the plastic.

10.) **IMPORTANT!** Note the Grease and Screw cement symbol throughout the manual and apply where shown.

11.) Avoid using power screwdrivers when assembling your kit. They tend to overtighten screws.

SPECIAL SYMBOLS YOU WILL SEE

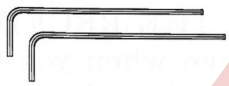
Certain symbols are used throughout the instructions. Pay attention to their location.

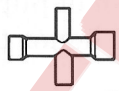
GREASE Points where Grease should be applied.

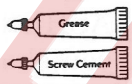
SW.CEMENT Points where Screw Cement must be used.

REQUIRED TOOLS

THESE ARE INCLUDED IN THE KIT.


Hex Wrench Set


4-Way Wrench

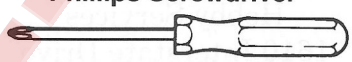


Grease

Screw Cement

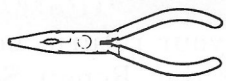
THESE ARE NOT INCLUDED IN THE KIT.

Phillips Screwdriver

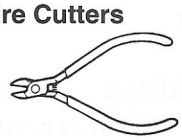


Hobby Knife (XACR4320)

Needle Nose Pliers (XACR2680)



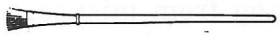
Wire Cutters



Awl

Lexan Scissors (KYOR1000)

Paint Brush (DAPR2000)

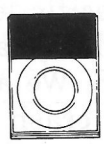


Cyanoacrylate (such as Jet, Zap, Hot Stuff or Bullet CA).

(HCAR3500)

Paint (Ask your hobby dealer for polycarbonate paint).

Striping Tape (such as Kyosho Micron Line Tape)


(KYOQ1100 .4mm Black)
(KYOQ1101 .7mm Black)

WARRANTY INFORMATION

WHAT THE NITRO THRASHER WARRANTY MEANS TO YOU

- For 90 days after you purchase your NITRO THRASHER, Kyosho will either repair or replace, at no charge, any incorrectly made part.

- Make sure you SAVE THE RECEIPT OR INVOICE you were given when you bought your model! It's your proof of purchase - and we must see it before we can honor the warranty.

- To send your NITRO THRASHER in for repairs covered under warranty, you should send your truck to Kyosho's authorized U.S. repair facility:

Hobby Services
1610 Interstate Drive
Champaign, Illinois 61821-1067
Attn. Service Department
Phone: (217) 398-0007

- For details on your return, be sure to follow steps 1-4 under the "Repair Service Available Anytime" section.

Limit of our Liability:
Our liability under this warranty is limited to the repair or replacement of defective parts by Hobby Services and does not include cost of shipping to us. Hobby Services does pay the shipping expense to return warranty items to you.

Exclusion and/or Voidance of Warranty:
This warranty does not apply to damage or defects resulting from misuse, abnormal service, damage in shipment, damage resulting from a crash, or damage to the car caused by the batteries. The warranty is voided if the model is modified, altered, or repaired by anyone other than Hobby Services. This warranty gives you specific legal rights, and you may have other rights that vary from state to state within the U.S. We are sorry, but we cannot be responsible for crash damage and/or resulting loss of kits, engines, accessories, etc.

REPAIR SERVICE AVAILABLE ANYTIME

- After the 90-day warranty has expired, you can still have your NITRO THRASHER repaired for a small charge by the experts at Kyosho's authorized U.S. repair facility.

Hobby Services
1610 Interstate Drive
Champaign, Illinois 61821-1067
Attn. Service Department
Phone: (217) 398-0007

- To speed up the repair process, please follow the instructions listed below:

1.) Under all circumstances, return the ENTIRE system: Truck and Radio.

2.) Disconnect the receiver battery switch harness, and make sure the transmitter is turned off. Make sure all batteries are disconnected and any fuel drained.

3.) Send written instructions which include: a list of all items returned, a THOROUGH explanation of the problem and the service needed, and your phone number where you can be reached during the day. If you expect your repair to be covered under warranty, be sure to include proof of date of purchase (your store receipt or purchase invoice).

4.) Also include your full return address.

Repair charges and postage may be prepaid or billed C.O.D. Additional postage charges will be applied for non-warranty returns. All repairs shipped outside the United States must be prepaid in U.S. funds only.

Specification and Description Changes
All pictures, descriptions and specifications found in this instruction manual are subject to change without notice. Hobbico maintains no responsibility for inadvertent errors in this manual.

LIST OF BAGGED PARTS

BAG #	KEY #	DESCRIPTION	Qty.	STEP
No. 1	1	Shock Piston	4	1
	2	Shock Shaft	4	1
	3	E-Ring (E-2.5)	8	1
	4	Shock Case	4	1
	5	Shock End	4	1
	6	Shock Oil	1	2
	7	Shock Diaphragm	4	2
	8	Shock Cap	4	2
	9	Shock Ring	4	2
	10	Spring Adjuster	4	2
	11	Shock Spring	4	2
	12	Spring Retainer	4	2
	13	Shock Bushing	4	7, 11
	149	Rubber Tubing	1	1
No. 2	14	5mmx10mm Bushing	8	3, 8
	15	Knuckle Arm (R)	1	3
	16	Knuckle Arm (L)	1	3
	17	Wheel Shaft	4	3, 8
	18	King Pin	4	3
	19	Front Hub (R)	1	3
	20	Front Hub (L)	1	3
	21	Joint	4	4, 9
	22	Front Susp. Arm	2	4
	23	Ball End	12	5
	24	Shaft	4	6, 10
	25	Linkage Guide	1	6
No. 3	26	Susp. Shaft (A)	2	4
	27	Susp. Shaft (B)	2	8
	28	Susp. Shaft (C)	2	4
	29	Susp. Shaft (D)	2	9
	30	M2.6 Pivot Ball	2	3
	31	M3 Pivot Ball	12	4, 6, 9, 10
	32	Adjustable Rod	6	5
	33	5.8mm Ball	2	5
	34	Suspension Strut	1	4
No. 4	35	Front Shock Tower	1	7
	36	Front Body Mount	2	7
	37	Rear Body Mount	2	11
	38	Rear Hub (R)	1	8
	39	Rear Hub (L)	1	8
	40	Rear Susp. Arm	2	8
	41	Joint Collar (A)	1	9
	42	Body Mount Bracket	1	11
	43	Drive Pin	4	12
	44	Wheel Hub	4	12

BAG #	KEY #	DESCRIPTION	Qty.	STEP
No. 5	45	Servo Mount	4	14
	46	Antenna Holder	1	14
	47	Battery Strap	1	15
	48	Antenna Tube	1	15
	49	Control Rod	2	16, 17
	50	Throttle Rod	1	16
	51	2mm Linkage Guide	1	16
	52	Stopper	2	16
	53	Exhaust Tube	1	16
	54	Tie Strap (Small)	2	16
	55	Adapter Pipe	1	Page 19
	56	Filter Element	1	Page 19
	57	Element Cover	1	Page 19
	58	Element Holder	1	Page 19
	59	Battery Case	2	Page 18
	60	Battery Holder		
		Collar	2	Page 18
	61	Battery Cord	1	Page 18
	62	Contacts	2	Page 18
		M4x55 Screw	1	Page 18
		M4 Nut	1	Page 18
		M3x8 F/H Screw	4	Page 18
		M3 Nut	4	Page 18
		Plug Wrench	1	Page 19
		Screw Cement	1	
		Cross Wrench	1	
		Grease	1	
No. 6	63	Grill	1	20
	64	Rear Bumper	1	21
	65	Headlight Lens	2	20
	66	Fog light Lens	4	21
No. 7	67	Roll Bar	1	21
	68	Base (A)	2	21
	69	Base (B)	2	21
No. 8	70	Fog Lights	4	21
	71	Mirror (R)	1	20
	72	Mirror (L)	1	20
	73	Tail Lights	2	21
	74	Grill Retainer	2	20
	75	Tire	4	12
	76	Wheel (A)	4	12
	77	Wheel (B)	4	12
	78	Wheel (C)	4	12
	79	Body	1	18
	80	Decal	1	22
		Fuel Bottle	1	

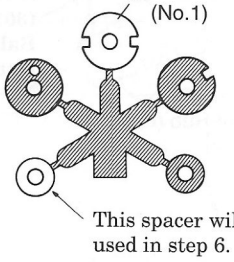
LIST OF BAGGED PARTS

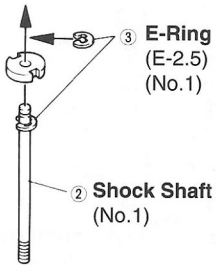
BAG #	KEY #	DESCRIPTION	Qty.	STEP
	81	Bumper	1	
	82	Final Diff. Case (A)	2	
	83	Final Diff. Case (B)	2	
	84	Bevel Gear (A)	6	
	85	Bevel Gear (B)	6	
	86	Bevel Shaft	3	
	87	Final Pinion	2	
	148	2mmx11mm Pin	2	
	88	2mmx8mm Pin	2	
	89	Pulley (29T)	2	
	90	Pulley (14T)	2	
	91	Belt	2	
	92	Front Counter Shaft	1	
	93	Rear Counter Shaft	1	
	94	Counter Shaft Joint	2	
	95	E-Ring (E-4)	4	
A	96	Diff. Housing (A)	1	
S	97	Diff. Housing (B)	1	
S	98	Shaft Holder	1	
E	99	Front Gearbox (L)	1	
M	100	Front Gearbox (R)	1	
B	101	Front Housing	1	
L	102	Servo Saver (A)	1	
E	103	Servo Saver (B)	1	
D	104	Servo Saver Shaft	1	
	105	Servo Saver Spring	1	
	106	E-Ring (E-5)	1	
	107	Center Diff. Mount (A)	1	
	108	Center Diff. Mount (B)	1	
	41	Joint Collar (A)	1	
	109	Joint Collar (B)	1	
	110	Brake Disk	1	
	111	Brake Pad (A)	1	
	112	Brake Pad (B)	1	
	113	Brake Cam Shaft	1	
	114	Brake Cam	1	
	115	Brake Horn	1	
	116	Rear Gearbox (L)	1	
	117	Rear Gearbox (R)	1	
	118	Rear Housing	1	
	119	Rear Shock Tower	1	
	120	Radio Plate Post (A)	1	
	121	Radio Plate Post (B)	1	
	122	Clutch Bell (13T)	1	
	123	Clutch Shoes	2	

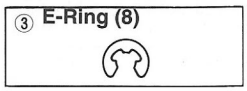
BAG #	KEY #	DESCRIPTION	Qty.	STEP
	124	Clutch Spring	1	
	125	Pilot Shaft	1	
	126	Flywheel	1	
	127	Clutch Bearing Case	1	
	128	Bearing Pin	8	
	129	E-Ring (E-7)	1	
	130	Pull Start	1	
	131	Back Plate	1	
	132	One-way Bearing	1	
	133	Muffler	1	
	134	E-Ring (E-3)	1	
	135	Choke Rod	1	
	136	10mmx14mm Bushing Collar	6	
	137	8mmx10mm Bushing	6	
	138	5mmx10mm Bushing	2	
	14	5mmx10mm Bearing	2	
	139	Chassis	1	
	140	Chassis Cover	1	
	141	Radio Plate	1	
	142	Radio Plate Support Rod	1	
	143	Fuel Tank	1	
	144	Fuel Line	1	
	145	Pressure Line	1	
	46	Antenna Holder	2	
	146	Center Rod	1	
	147	Side Arm	1	
		O.S. MAX .12CZ-R	1	
No. 9		M3x12 S/T Screw	14	
		M3x10 S/T Screw	12	
		M3x8 S/T Screw	28	
		M3x30 Screw	1	
		M3x12 Screw	2	
		M4x8 Set Screw	4	
		M4x4 Set Screw	4	
		M3x3 Set Screw	3	
		M3 Nut	5	
		M4 Nylon Nut	4	
		M3 Nylon Nut	1	
		M5 Washer	6	
		M3 Washer	6	
		E-Ring (E-2.5)	4	
		M3 Retainer Washer	6	
		Body Pin	8	
		1.5mm Hex Wrench	1	
		2mm Hex Wrench	1	

1 SHOCK ASSEMBLY

STEP 1 Assemble with four Shock Shafts and Pistons as shown.

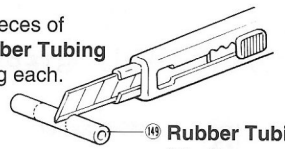


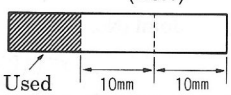




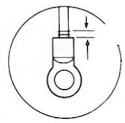
STEP 2

Cut two pieces of **(149) Rubber Tubing** 10mm long each.





STEP 3



Leave 2mm of thread showing at the bottom of the **Shock End.**

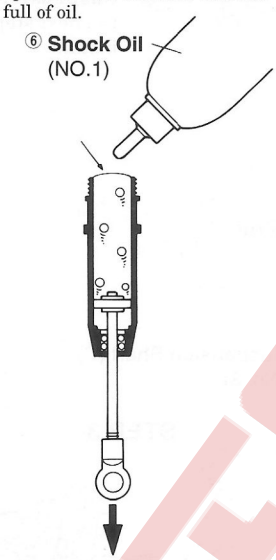
Assemble two front shocks.

Assemble two rear shocks.

2 FILLING THE SHOCKS WITH OIL

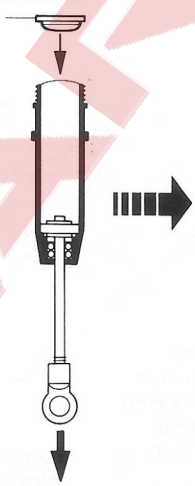
STEP 1

Push the piston all the way down and put the oil in little by little while moving the piston up and down. This will help remove air bubbles. Fill the shock full of oil.



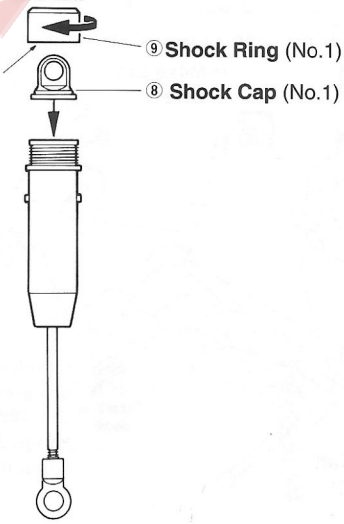
STEP 2

Keeping the piston at the bottom, set the **(7) Shock Diaphragm** on while allowing the excess oil to overflow out of the shock.



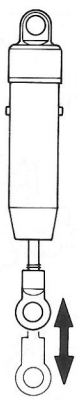
STEP 3

Tighten the **(8) Shock Cap** and **(9) Shock Ring** tight enough so that the oil will not leak out.



STEP 4

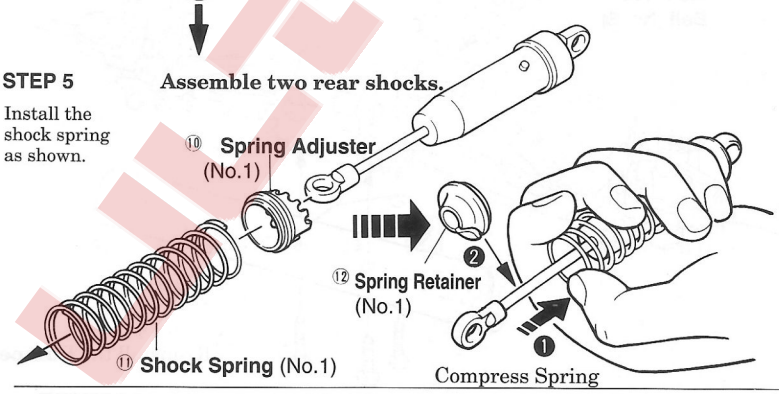
Move the shock end up and down. It should move smoothly without binding.



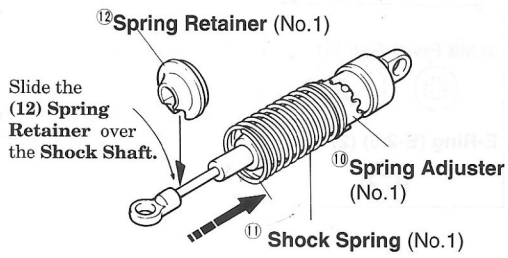
STEP 5

Install the shock spring as shown.

Assemble two rear shocks.

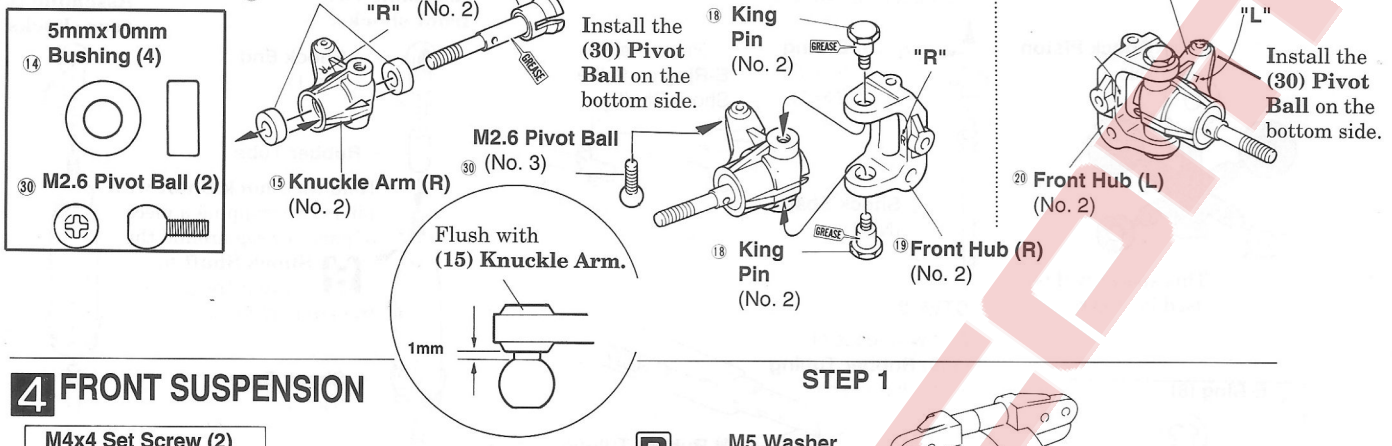


Assemble two front shocks.

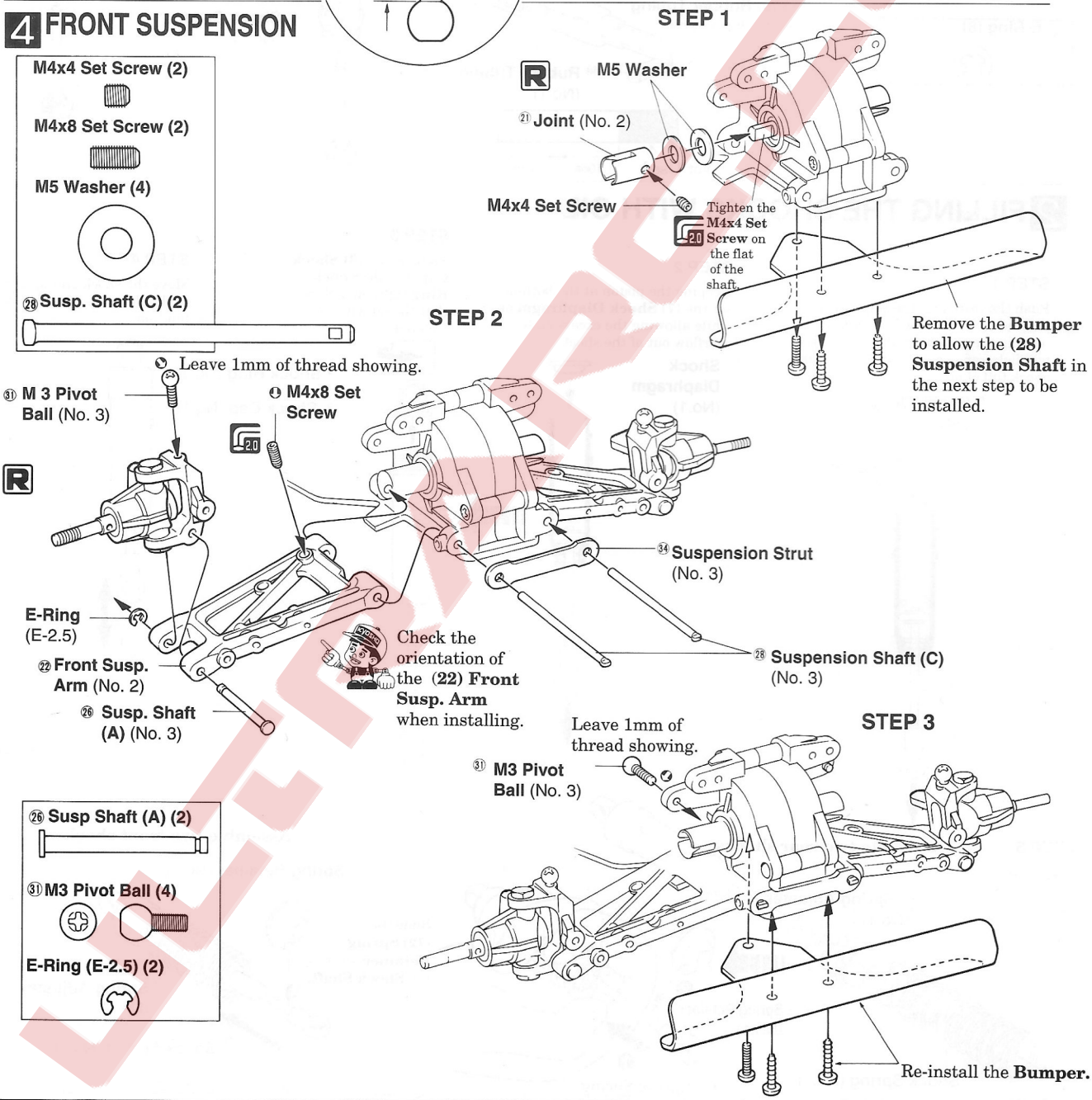


3 KNUCKLE ARM ASSEMBLY

Assemble the left side the same as the right.



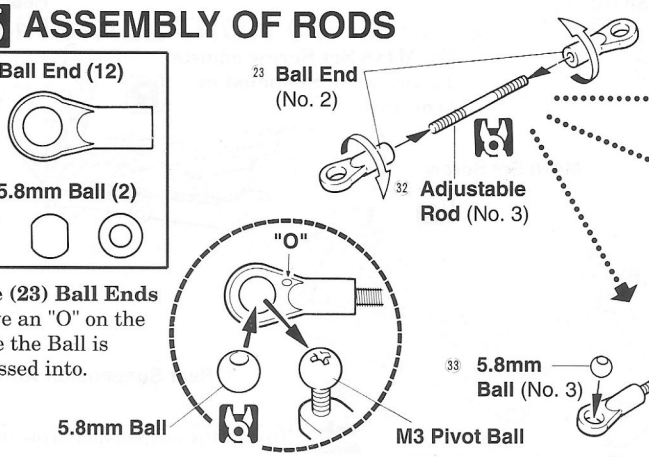
4 FRONT SUSPENSION



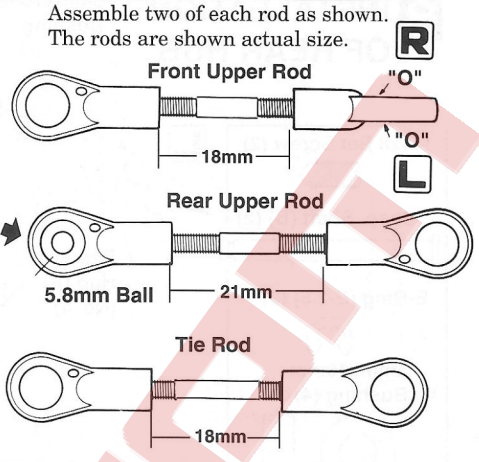
5 ASSEMBLY OF RODS

23 Ball End (12)

33 5.8mm Ball (2)



Assemble two of each rod as shown. The rods are shown actual size.



The **(23) Ball Ends** have an "O" on the side the Ball is pressed into.

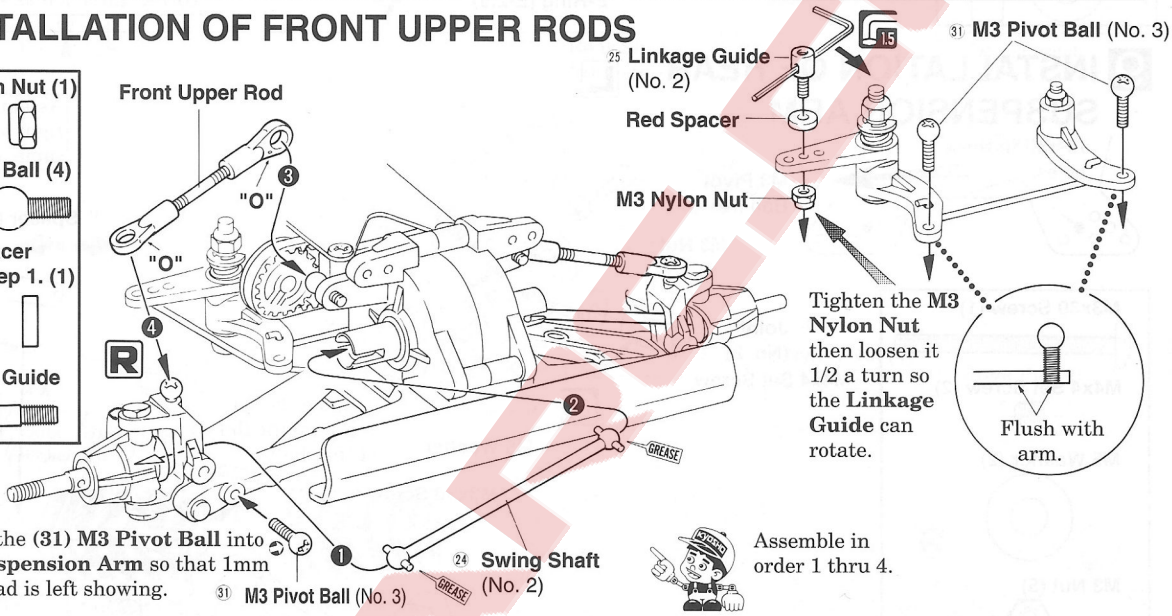
6 INSTALLATION OF FRONT UPPER RODS

M3 Nylon Nut (1)

31 M3 Pivot Ball (4)

Red Spacer From Step 1. (1)

25 Linkage Guide (1)



Tighten the **M3 Nylon Nut** then loosen it 1/2 a turn so the **Linkage Guide** can rotate.

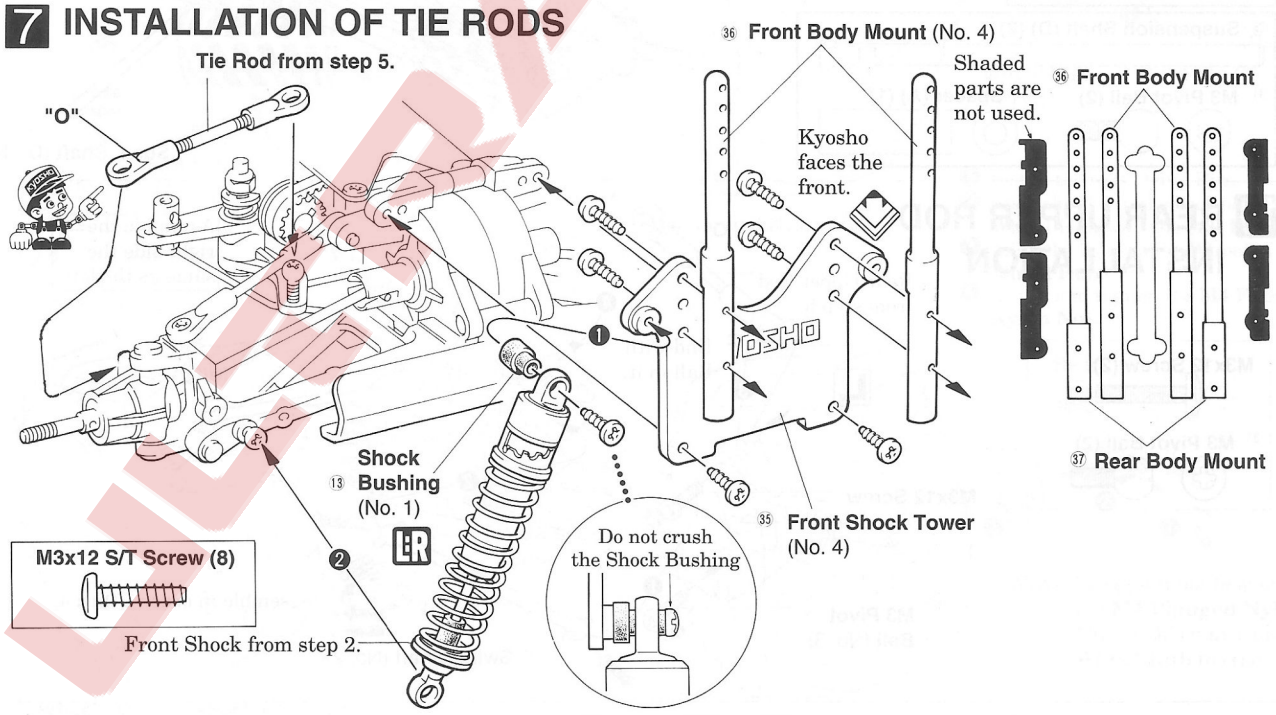
Screw the **(31) M3 Pivot Ball** into the **Suspension Arm** so that 1mm of thread is left showing.

31 M3 Pivot Ball (No. 3)

24 Swing Shaft (No. 2)

Assemble in order 1 thru 4.

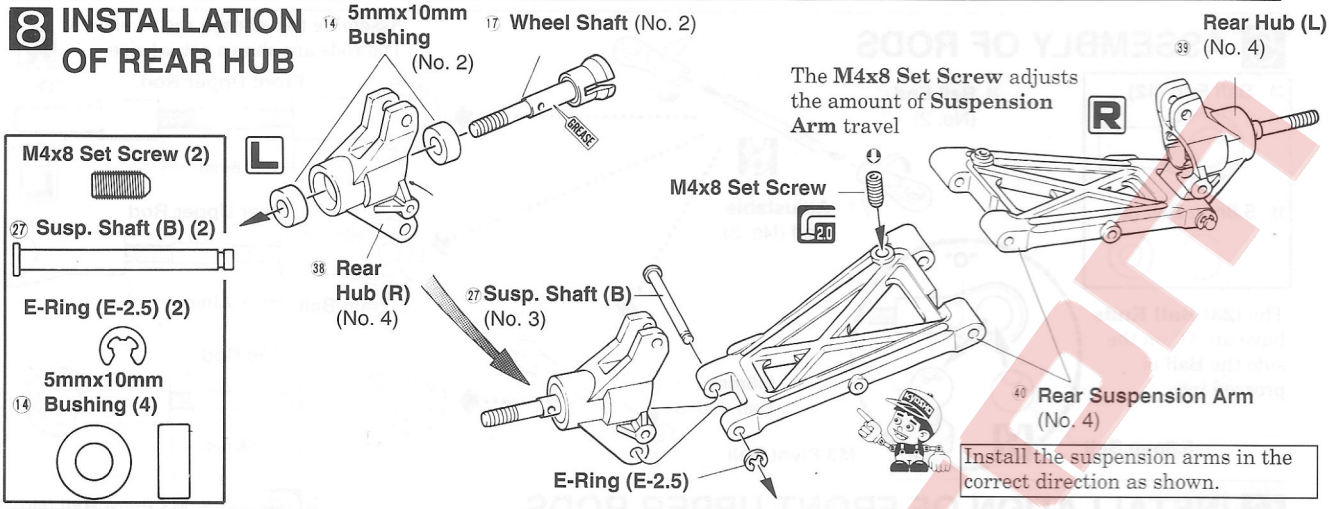
7 INSTALLATION OF TIE RODS



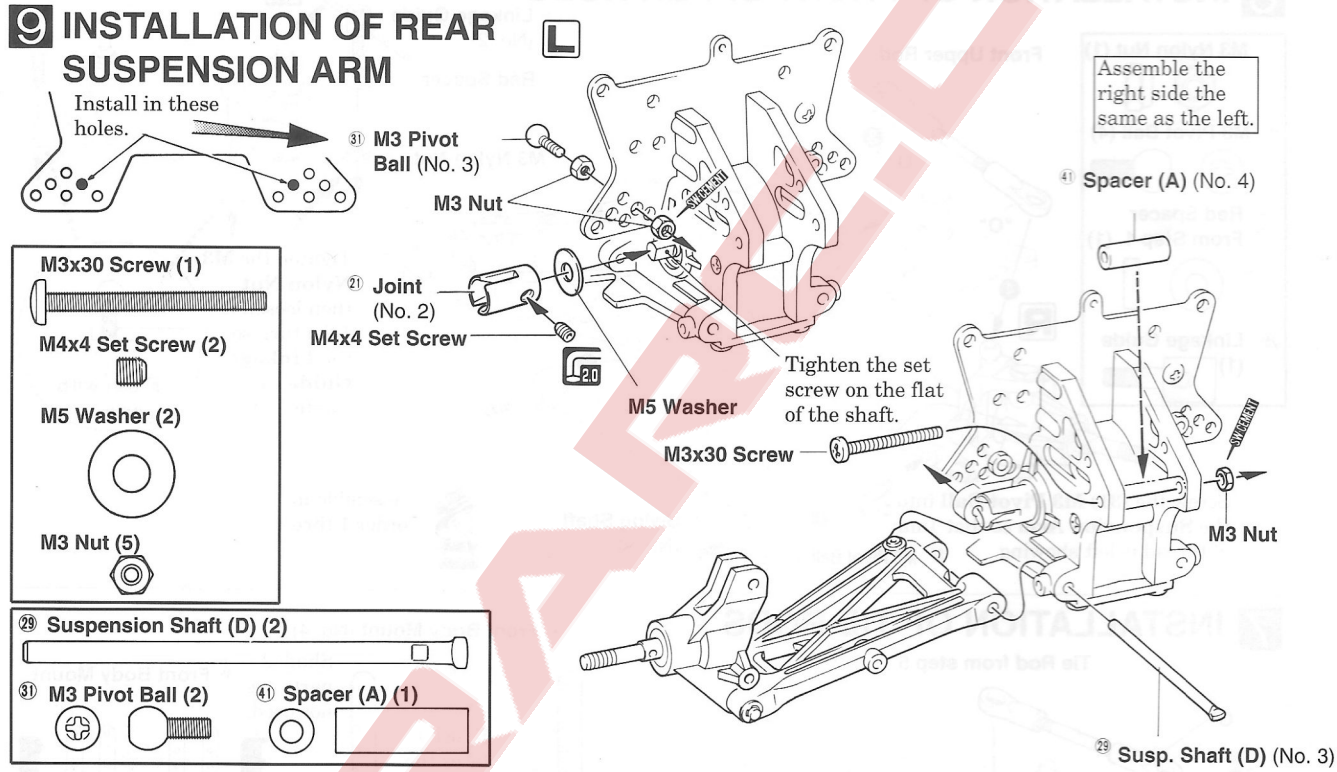
M3x12 S/T Screw (8)

Front Shock from step 2.

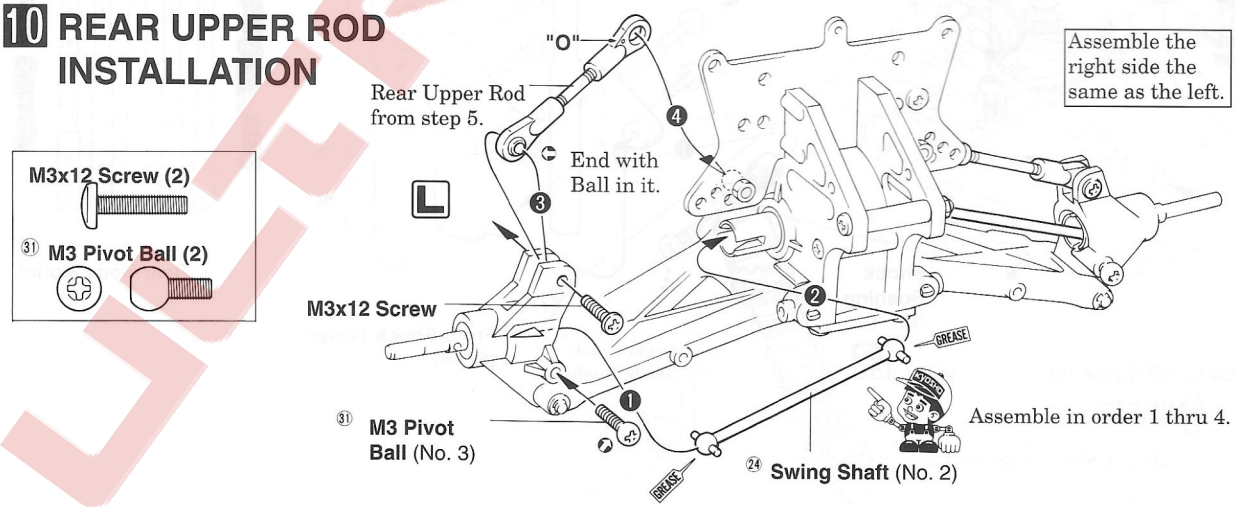
8 INSTALLATION OF REAR HUB



9 INSTALLATION OF REAR SUSPENSION ARM

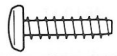


10 REAR UPPER ROD INSTALLATION



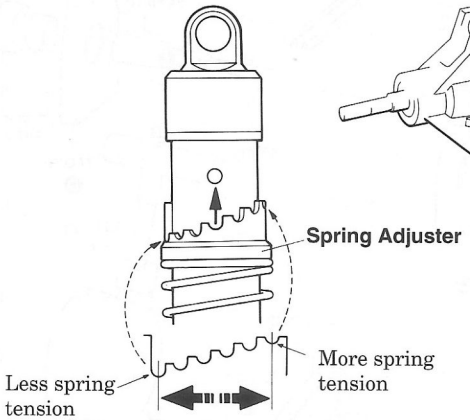
11 INSTALLATION OF REAR SHOCKS

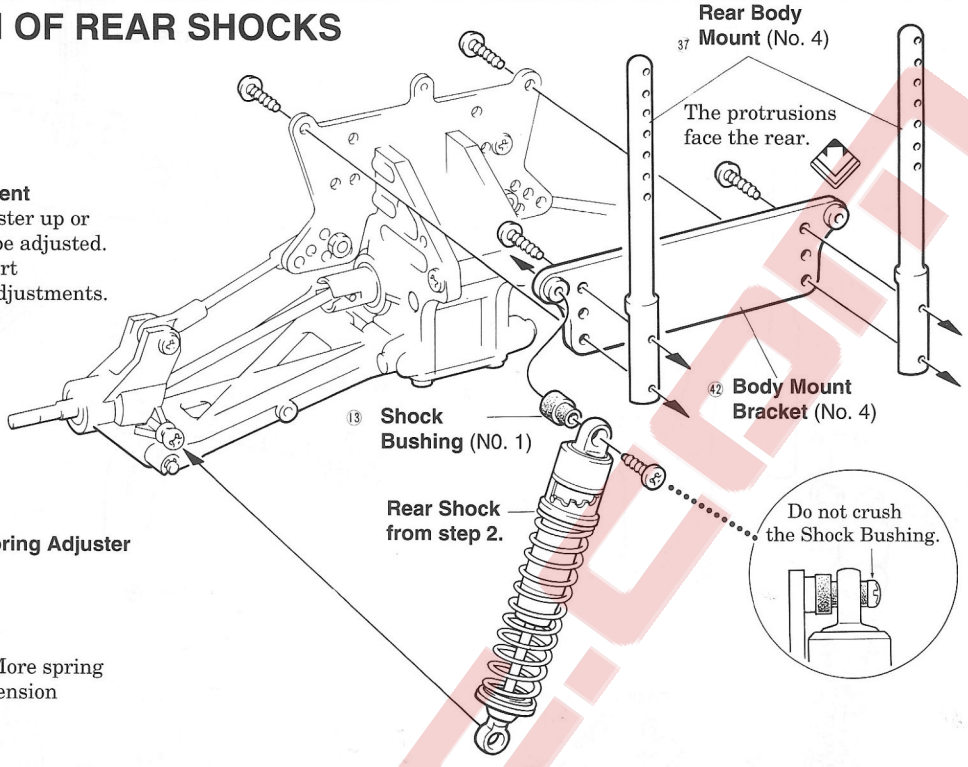
M3x12 S/T Screw (6)



Rear Shock Adjustment

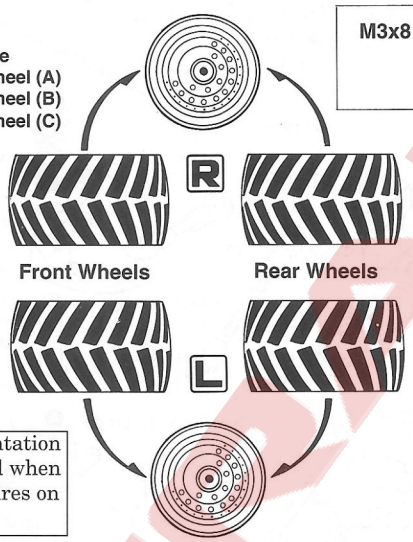
By adjusting the Spring Adjuster up or down the spring tension can be adjusted. On page 20 is a chart and short explanation of the different adjustments.





12 Tires

Loose in Box
- Tire
- Wheel (A)
- Wheel (B)
- Wheel (C)

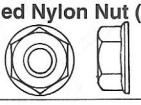


Check the orientation of the tire tread when installing the tires on the wheels.

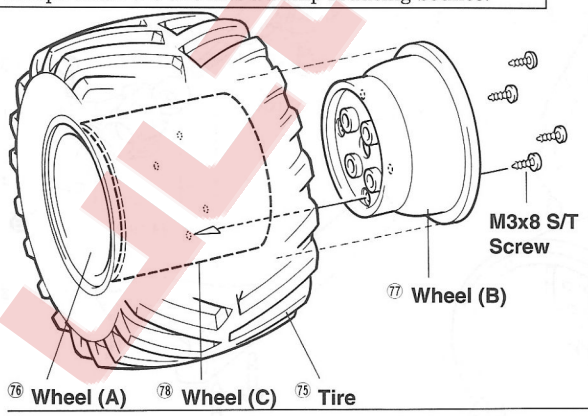
Hint: By drilling a small hole through **Wheel (B)** and **Wheel (C)**, after the wheels are installed, air is allowed to escape when the tire hits a bump reducing bounce.

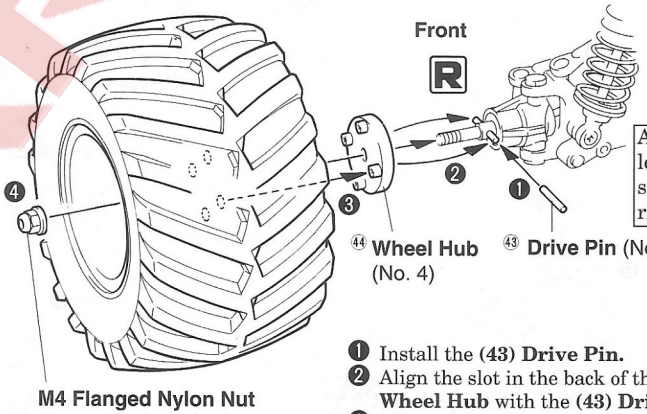
M3x8 S/T Screw (16)

M4 Flanged Nylon Nut (4)

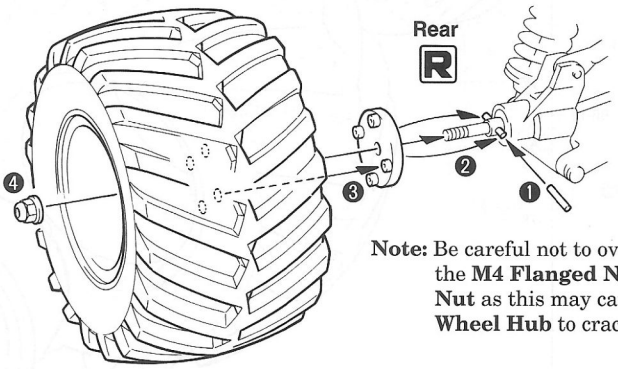


Drive Pin (4)

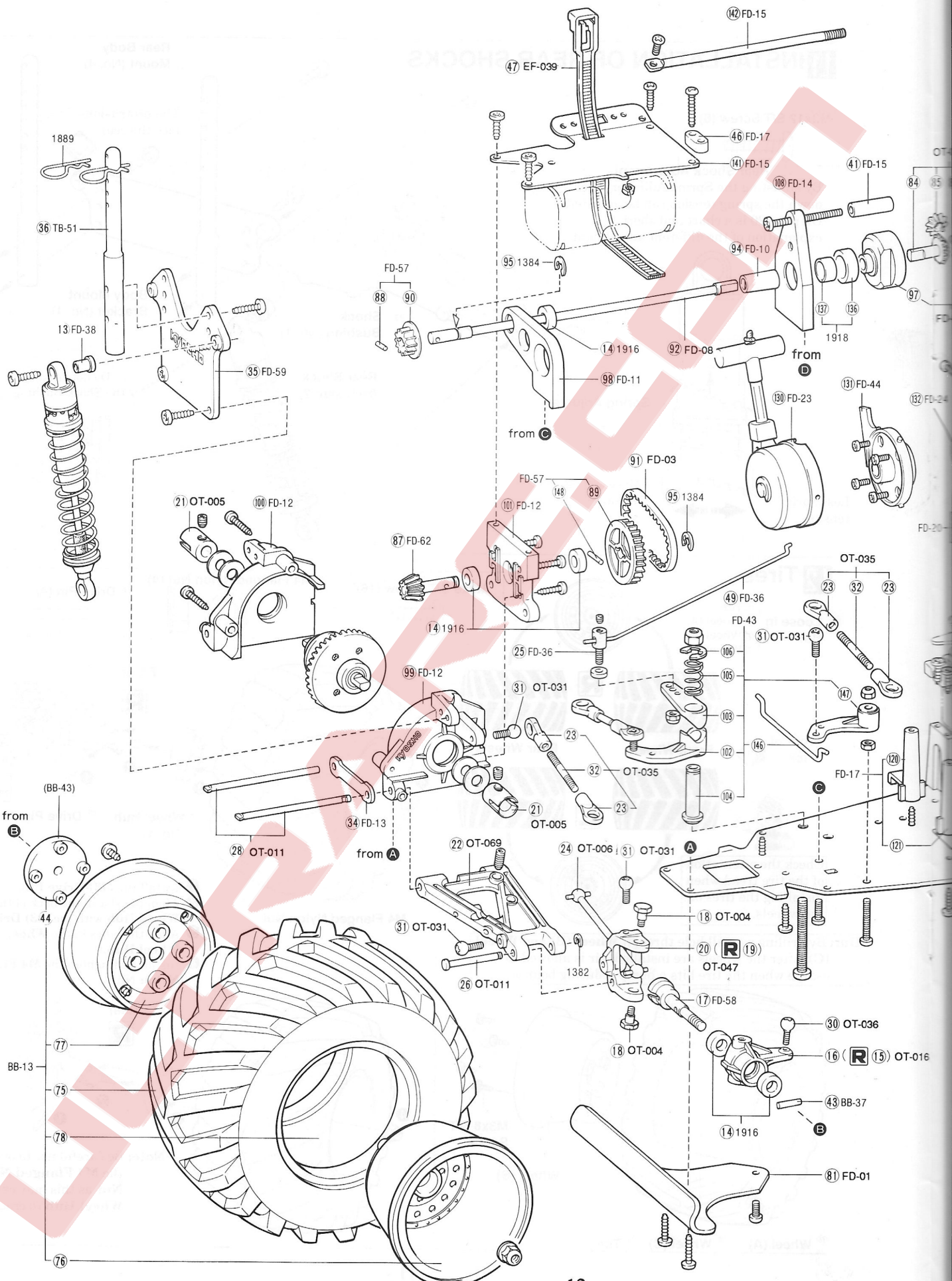


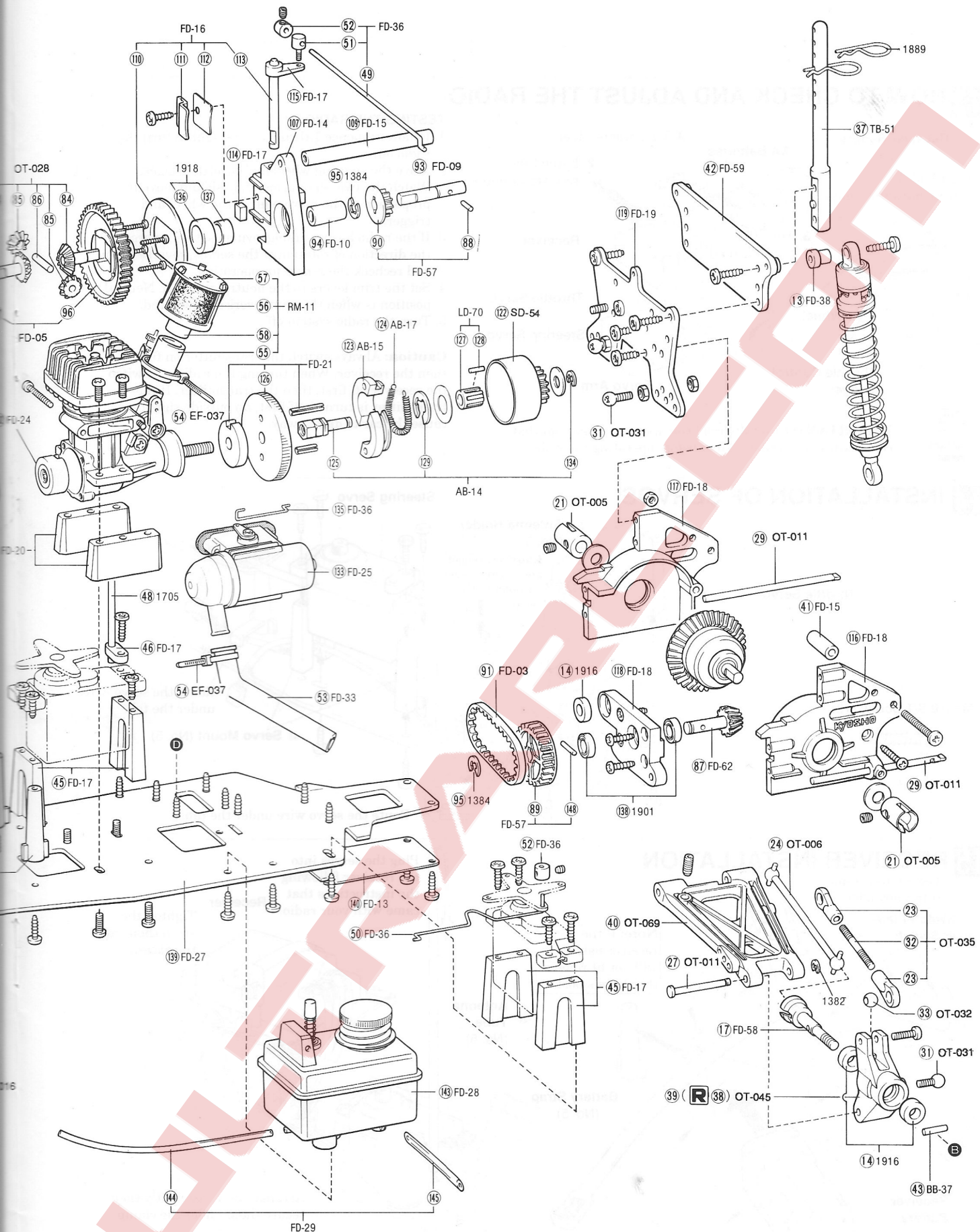


1. Install the **(43) Drive Pin.**
2. Align the slot in the back of the **(44) Wheel Hub** with the **(43) Drive Pin.**
3. Align the holes in the **Wheel** with the **(44) Wheel Hub.**
4. Install and tighten the **M4 Flanged Nylon Nut.**

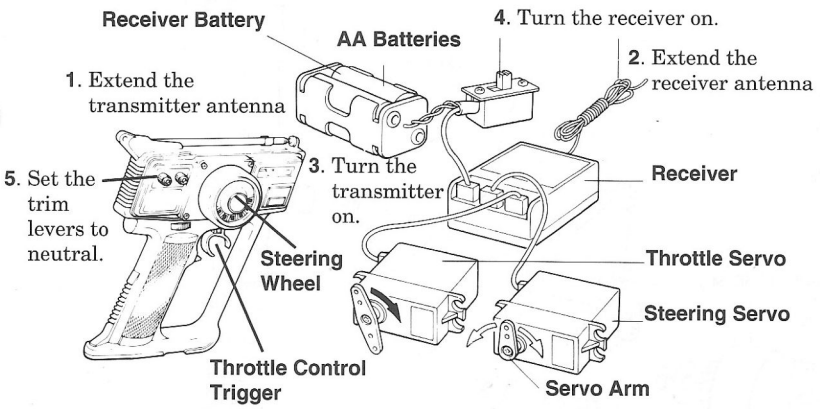


Note: Be careful not to overtighten the **M4 Flanged Nylon Nut** as this may cause the **Wheel Hub** to crack.




FD-16
110
111
112
113
52
FD-36
51
49
115 FD-17
107 FD-14
109 FD-15
114 FD-17
OT-028
1918
136
137
95 1384
93 FD-09
94 FD-10
90
88
FD-57
85
86
84
85
96
FD-05
57
56 RM-11
58
55
54 EF-037
FD-24
126
FD-21
124 AB-17
123 AB-15
LD-70
127
128
122 SD-54
125
129
134
AB-14
1889
37 TB-51
42 FD-59
119 FD-19
13 FD-38
31 OT-031
117 FD-18
21 OT-005
29 OT-011
135 FD-36
FD-20
133 FD-25
48 1705
46 FD-17
54 EF-037
53 FD-33
D
45 FD-17
139 FD-27
140 FD-13
91 FD-03
14 1916
118 FD-18
87 FD-62
95 1384
89
148
FD-57
138 1901
41 FD-15
116 FD-18
KYOSHO
29 OT-011
21 OT-005
52 FD-36
50 FD-36
45 FD-17
24 OT-006
40 OT-069
23
32 OT-035
23
27 OT-011
1382
33 OT-032
17 FD-58
31 OT-031
39 (R 38) OT-045
14 1916
B
43 BB-37
143 FD-28
144
145
FD-29

13 HOW TO CHECK AND ADJUST THE RADIO



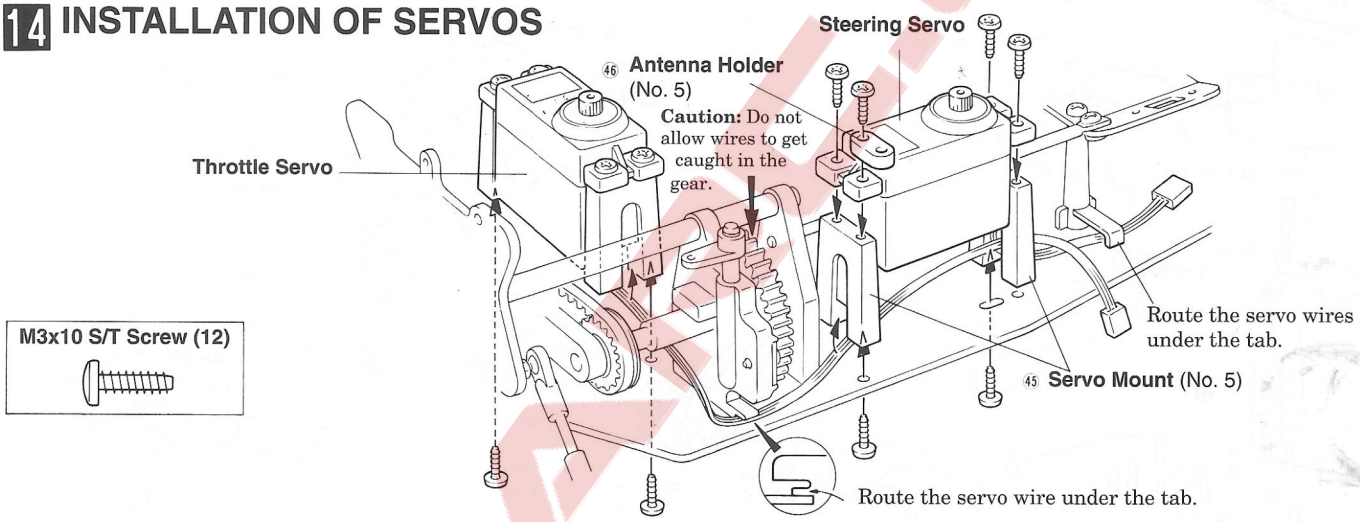
IMPORTANT: Carefully read the instruction manual that comes with your radio system before operating the radio.

TESTING THE RADIO

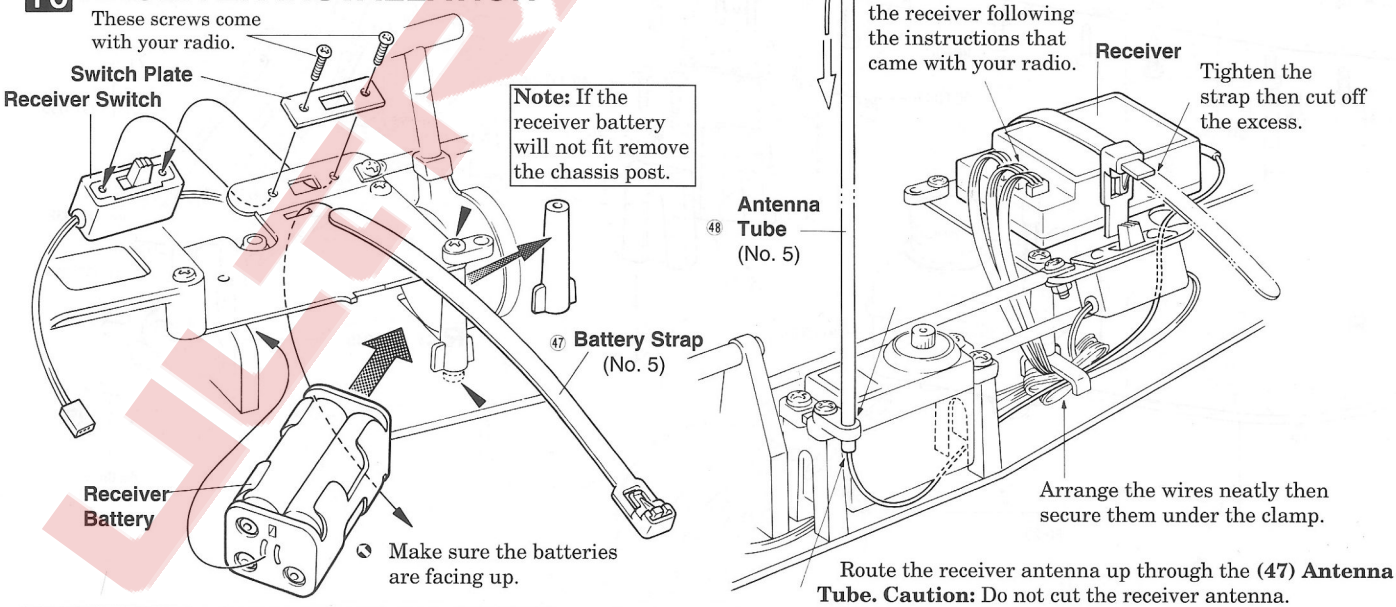
1. Follow sequence 1 thru 5 at the right to turn the radio on.
2. Move the steering wheel and throttle trigger. Watch the two servo arms, they should move in proportion to the movement of the wheel and trigger.
3. If the radio has reversing switches, this reverses the direction of rotation of the servos, reverse them and recheck the servos for operation.
4. Set the trim levers to the neutral position. Neutral position is when the trim levers are centered.
5. Turn the radio system off.

Caution: Always switch the transmitter on first, then the receiver. When turning the radio off, switch the receiver off first, then the transmitter. If the transmitter is turned off first, an outside signal may cause the car to drive away.

14 INSTALLATION OF SERVOS



15 RECEIVER INSTALLATION



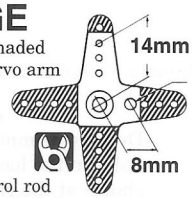
16 THROTTLE LINKAGE

M3x3 Set Screw (2)

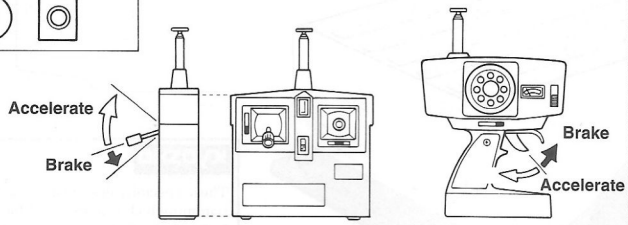
51 2mm Linkage Guide (1)

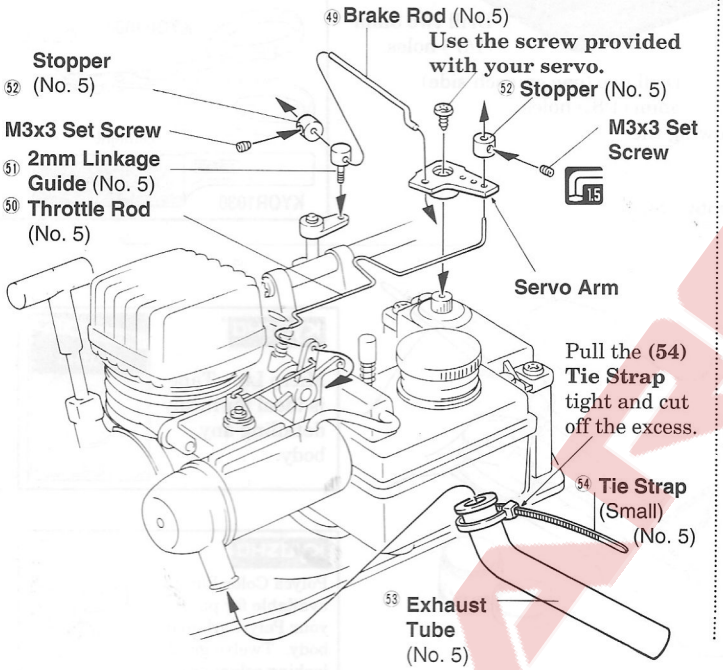
52 Stopper (2)

Remove the shaded area of the servo arm to obtain the proper shape.



Connect the control rod for the throttle to the hole 14mm from the center.

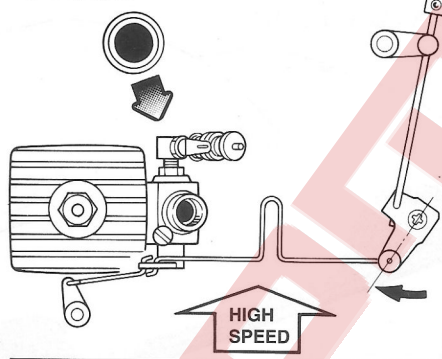




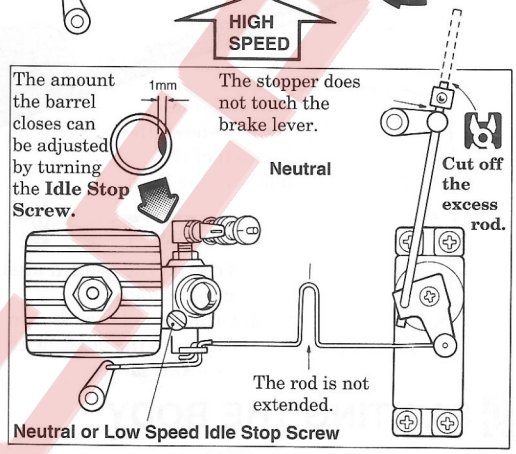
The barrel of the carburetor is completely open.

High Speed

The stopper does not touch the brake lever.

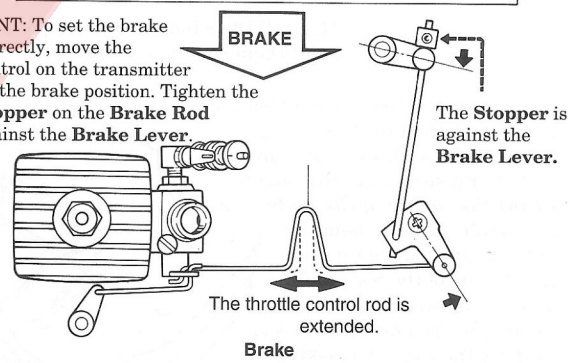


HIGH SPEED



HINT: To set the brake correctly, move the control on the transmitter to the brake position. Tighten the **Stopper** on the **Brake Rod** against the **Brake Lever.**

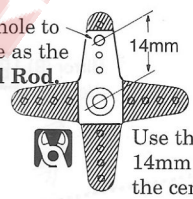
BRAKE



17 INSTALLATION OF STEERING ROD

M3x3 Set Screw (1)

Enlarge the hole to the same size as the (49) Control Rod.



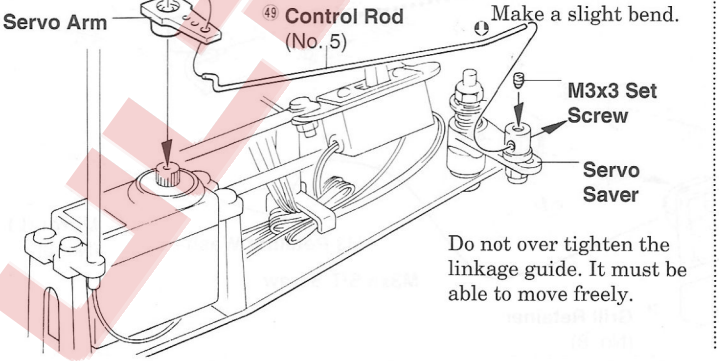
Use the hole 14mm from the center.

Use the screw that is provided with your servo.

Servo Arm

49 Control Rod (No. 5)

Make a slight bend.

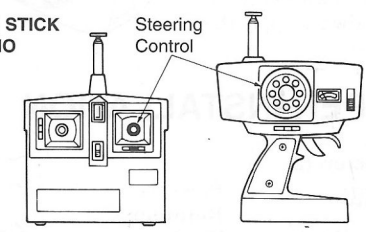


Do not over tighten the linkage guide. It must be able to move freely.

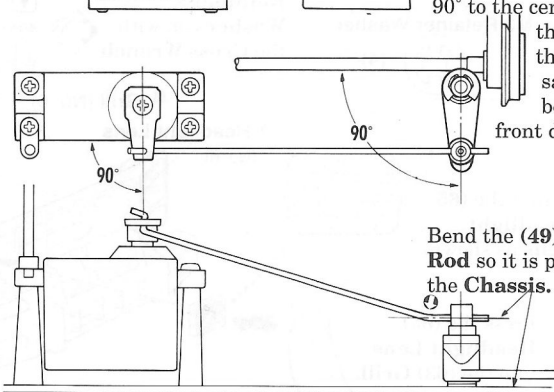
TWO STICK RADIO

Steering Control

WHEEL TYPE RADIO

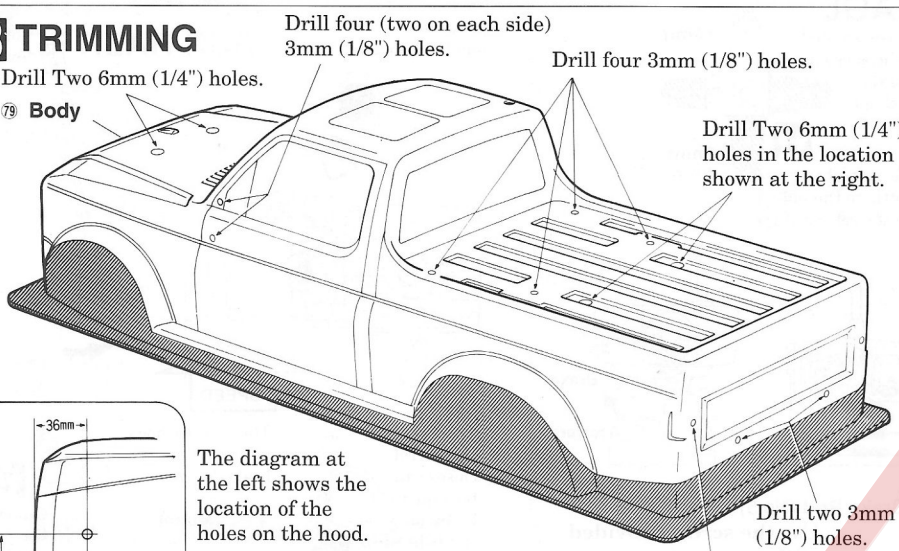


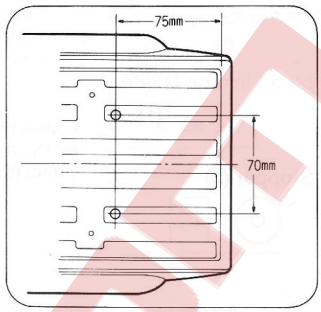
With the steering wheel in the neutral position the servo arm should be 90° to the centerline of the servo and the servo saver should be 90° to the front drive shaft.

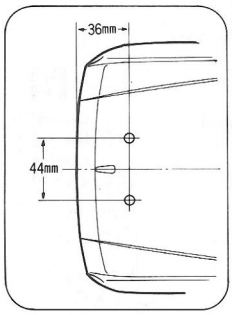


Bend the **(49) Control Rod** so it is parallel to the **Chassis.**

18 TRIMMING





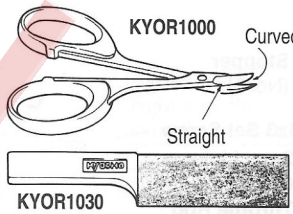


The diagram at the left shows the location of the holes on the hood.

1. Trim off the shaded area following the cut-out lines.
2. Drill the holes as shown.
3. Clean-up the edges with a hobby knife or lexan sander.

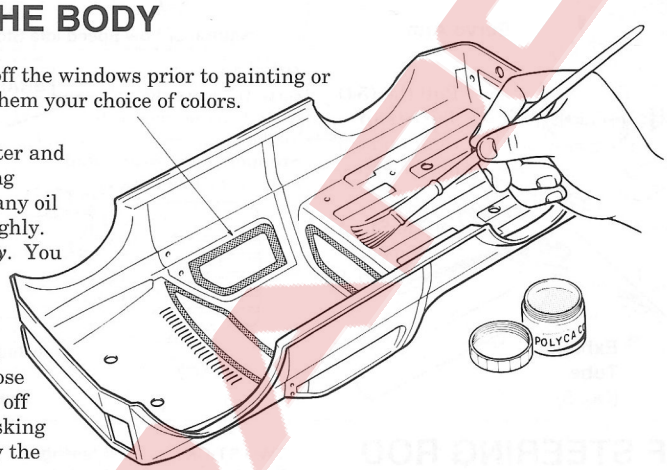
KYOSHO

These specially designed scissors make trimming bodies a breeze. The sander comes in handy for finishing the rough edges.



19 PAINTING THE BODY

Mask off the windows prior to painting or paint them your choice of colors.



First, wash the body with water and a mild detergent (dish washing liquid works well) to remove any oil or dirt. Rinse and dry thoroughly. ***Paint the inside of the body***. You can obtain a color scheme by putting pin striping tape on the outside of the body and painting between the lines on the inside. You may also choose to spray the body by masking off different color areas with masking tape. Be sure to always apply the darkest colors first.

KYOSHO

Micro Line Tape is ideal for nicely detailing any body.

KYOSHO

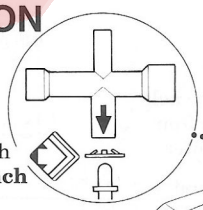
Polyca Color Paint is available for painting your Poly-Carbonate body. Twelve great looking colors are available.

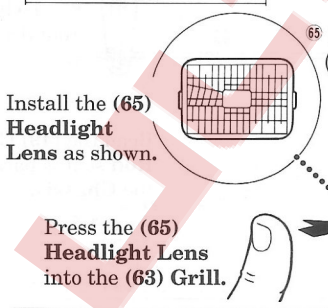
20 BUMPER INSTALLATION

M3x8 S/T Screw (2)

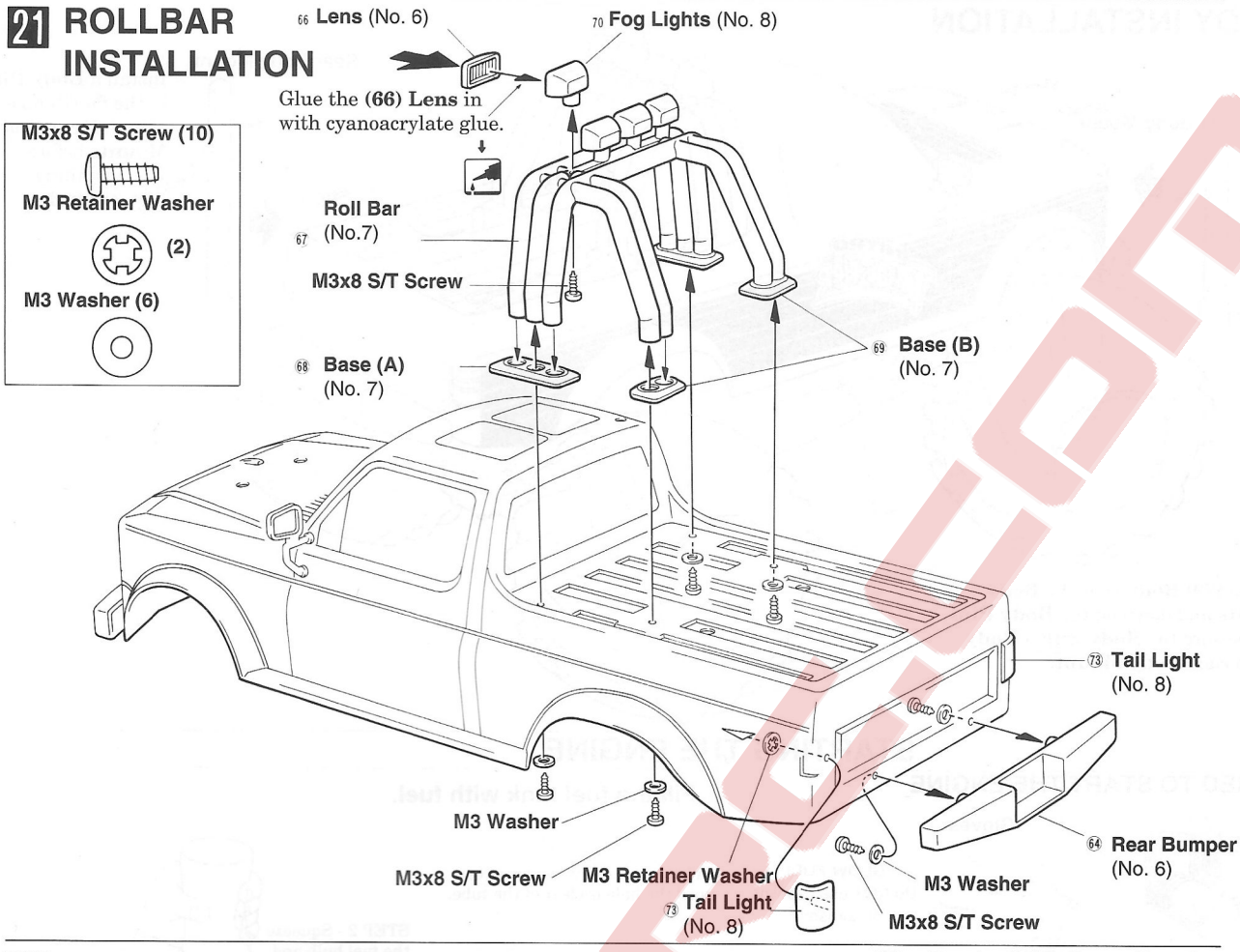
M3 Retainer Washer (4)

Press the **Retainer Washers** on with the **Cross Wrench**

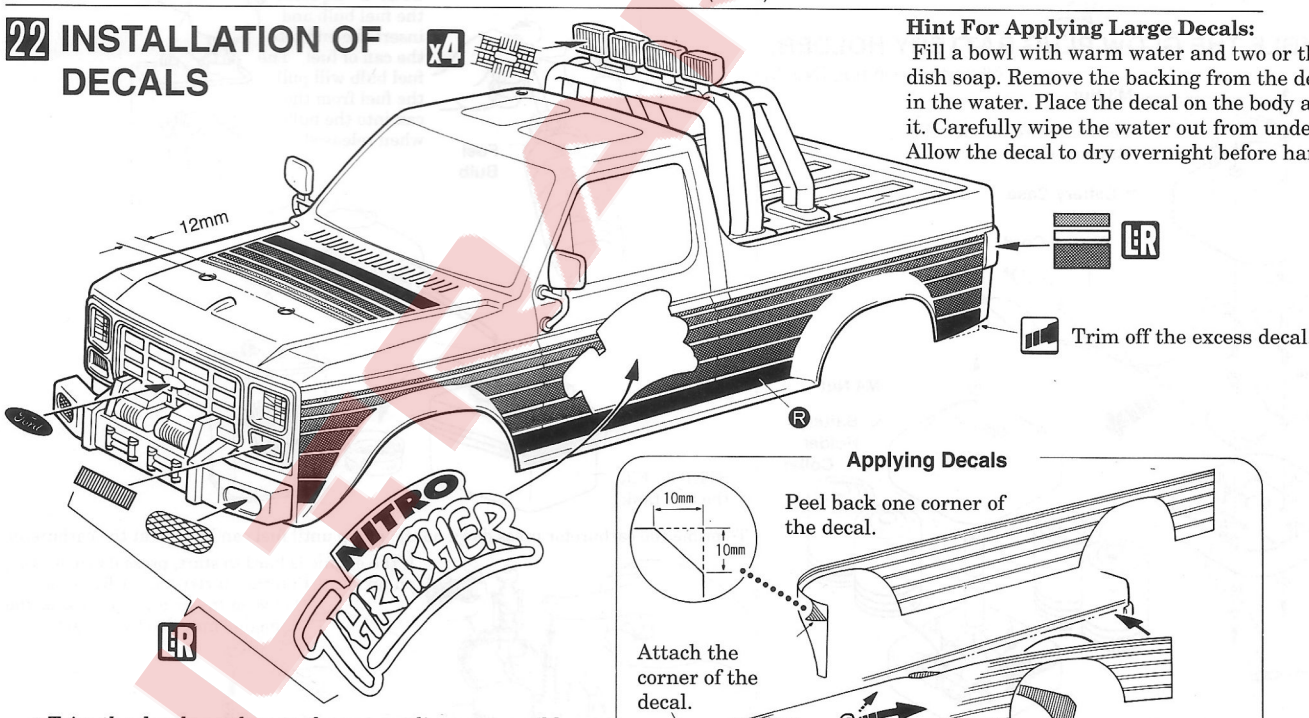




21 ROLLBAR INSTALLATION



22 INSTALLATION OF DECALS



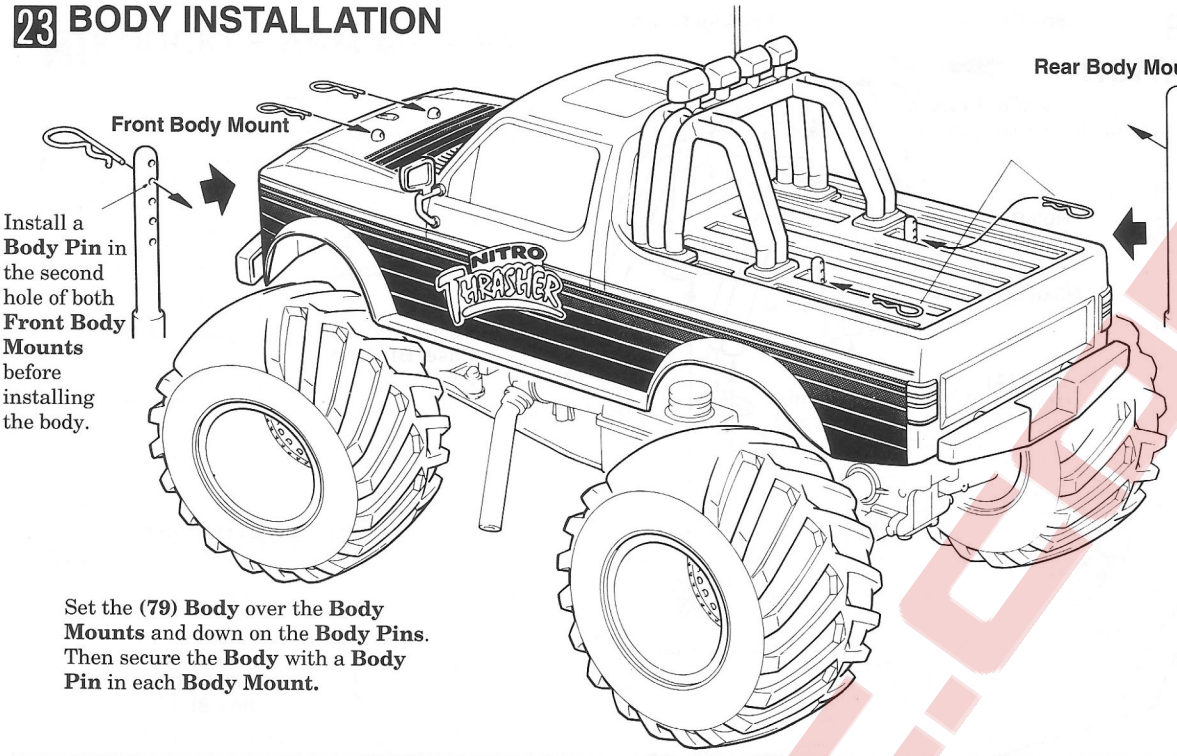
Hint For Applying Large Decals:
Fill a bowl with warm water and two or three drops of dish soap. Remove the backing from the decal and dip in the water. Place the decal on the body and position it. Carefully wipe the water out from under the decal. Allow the decal to dry overnight before handling.

Trim off the excess decal.

- Trim the decals as close to the cut-out lines as possible.
- Test fit the decal with the backing on first.
- When applying the decal work from the center of the decal outward to remove air bubbles.(Be careful with large decals.)

Applying Decals

23 BODY INSTALLATION



Install a **Body Pin** in the second hole of both **Front Body Mounts** before installing the body.

Install a **Body Pin** in the fourth hole of both **Rear Body Mounts** before installing the body.

Set the **(79) Body** over the **Body Mounts** and down on the **Body Pins**. Then secure the **Body** with a **Body Pin** in each **Body Mount.**

STARTING THE ENGINE

REQUIRED TO START THE ENGINE

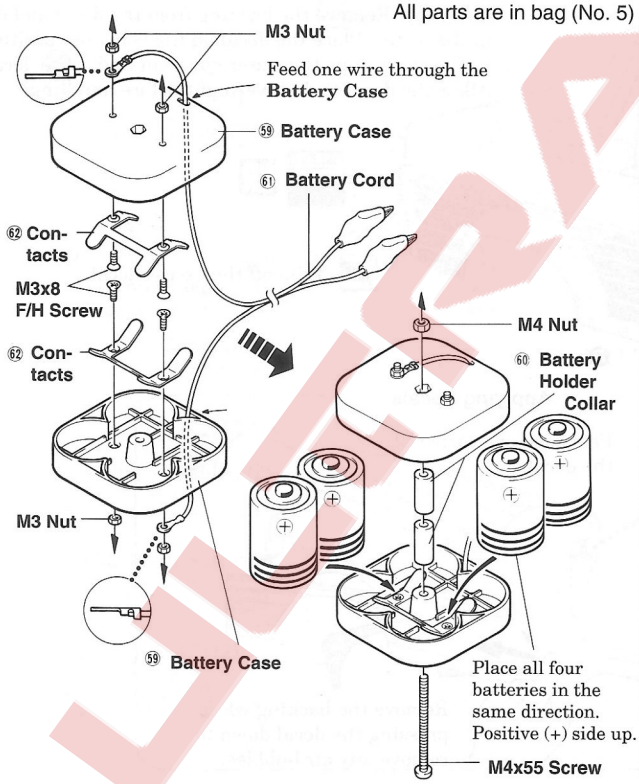
(4) D-SIZE DRY CELL BATTERIES

Gloves

GLOW FUEL
Do NOT use gasoline or kerosene.

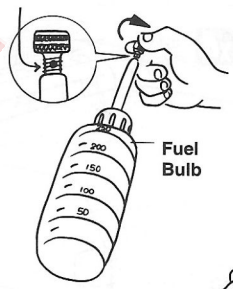
ASSEMBLE THE GLOW PLUG BATTERY HOLDER.

All parts are in bag (No. 5)

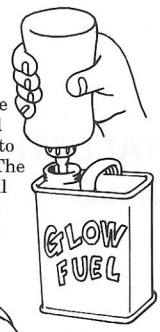


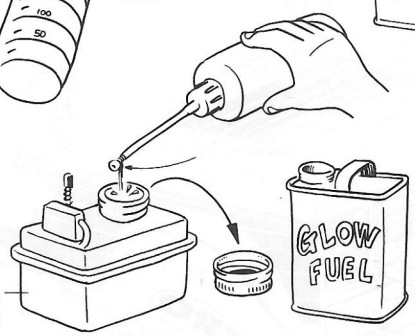
Fill the fuel tank with fuel.

STEP 1 - Unscrew the brass cap until the hole is clear of the tube.



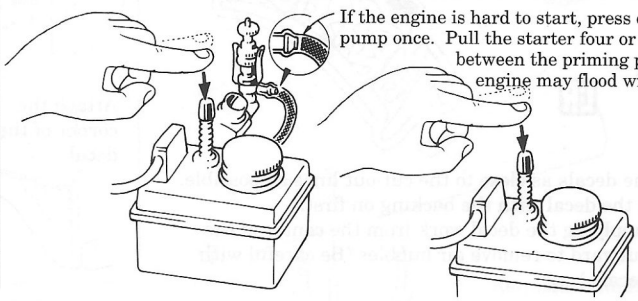
STEP 2 - Squeeze the fuel bulb and insert the end into the can of fuel. The fuel bulb will pull the fuel from the can into the bulb when released.





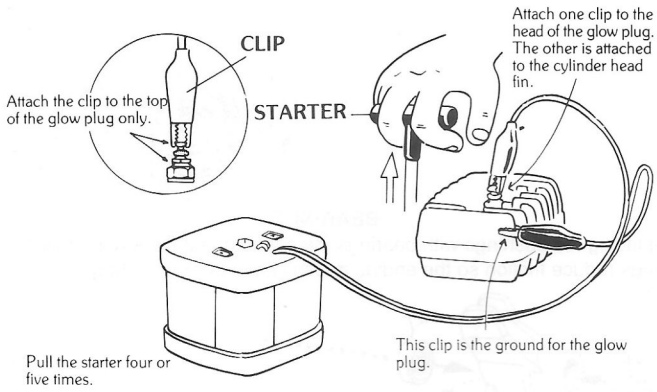
STEP 3 - Fill the fuel tank.

To prime the carburetor press down on the pump until fuel can be seen at the carburetor.

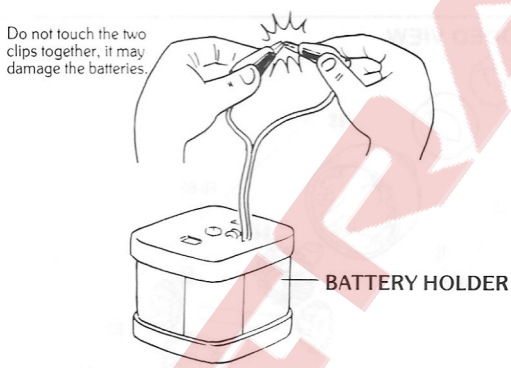


If the engine is hard to start, press down on the pump once. Pull the starter four or five times between the priming process or the engine may flood with fuel.

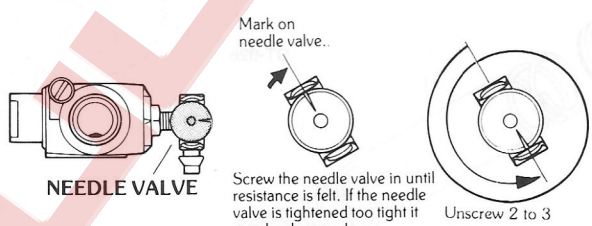
5 Attach the glow plug battery clips to the glow plug.



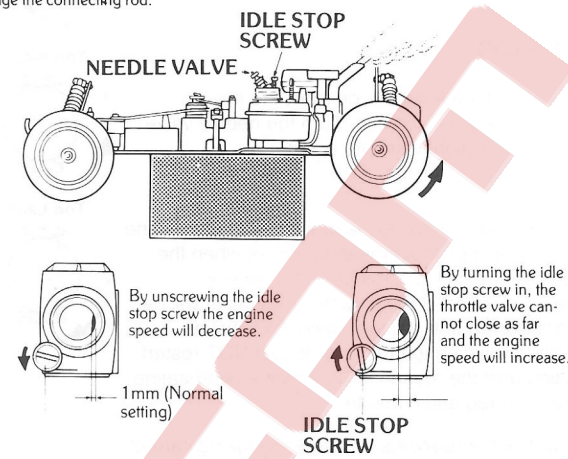
6 If the engine still does not start, remove the glow plug with the plug wrench. Attach the clips, one to the top of the plug the other to the threaded portion of the plug. The filament in the plug should glow red hot. If it does not glow red, the batteries may be discharged; the clips may be making poor contact on the plug; the batteries may be installed wrong; or the filament in the glow plug may be burnt out.



7 Check the needle valve adjustment.

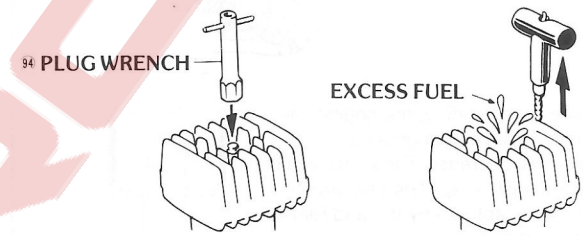


8 After the engine starts to run, disconnect the clips from the glow plug and set the car on a box so the wheels can spin freely. If the idle is set too high the wheels will start to rotate. If it is set too low the engine may quit. WARNING: Do not rev the engine up! This may damage the connecting rod.



You have a proper setting when the wheels do not turn yet and the engine does not quit.

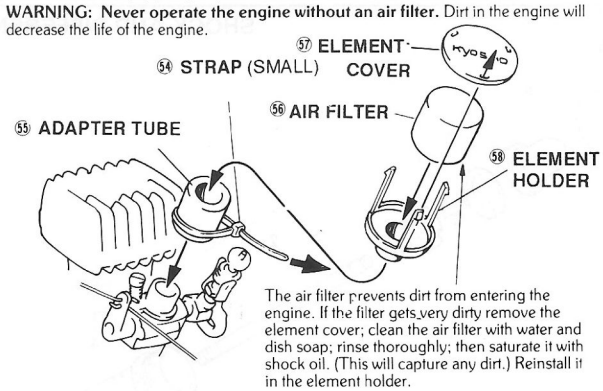
- If the starter rope is hard to pull the cylinder may be "flooded" with excessive fuel. If this happens remove the glow plug with the glow plug wrench and pull the starter rope 15 to 20 times. This will expel the excess fuel.



Replace the glow plug and follow steps 4 and 5 to start the engine.

INSTALLATION OF AIR FILTER

WARNING: Never operate the engine without an air filter. Dirt in the engine will decrease the life of the engine.



CAUTION:

1. Do not run the car indoors. The exhaust fumes can be dangerous.
2. Run the car at ½ speed for the first 3 to 4 tanks of fuel. This will allow the engine to "break-in". "Break-in" allows the internal parts to properly fit together. By not "breaking-in" the engine it may not run properly.

PROPERLY ADJUSTING THE NEEDLE VALVE

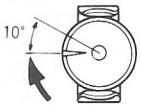
If the engine stalls when the throttle is moved to high speed, the needle valve is too lean. Unscrew it slightly and try again.

Too Lean

NEEDLE VALVE

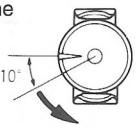
Too Rich

If the engine runs slow, the needle valve is too rich. Turn the needle valve in slightly and try again.

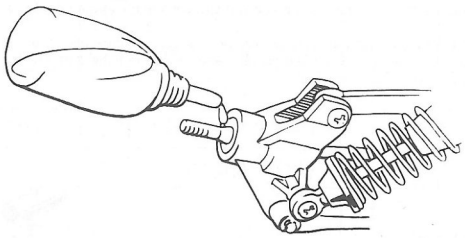


Too Lean

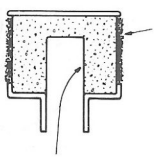
Setting the needle valve too lean will cause the engine to overheat. A sign of overheating occurs when the engine runs fine for1 to 2 minutes then slowly decreases in speed. If the engine overheats it will be very hard to start until it cools down. Excessive overheating will damage the engine. DO NOT restart the engine until the reason for the engine overheating has been located and corrected.



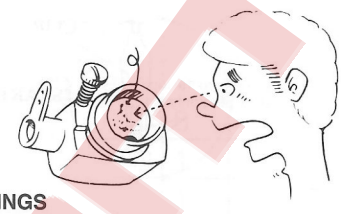
Clean and oil the bushings regularly. By taking care of them they will last a long time.



If the air filter gets too dirty, the engine will not be able to receive enough air and performance will decrease. Clean the air filter with water and dish soap. Then saturate it with shock oil to capture any dirt and reinstall the air filter on the engine.

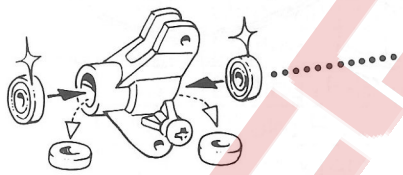


After each tank of fuel, remove the air filter and check for dirt in the carburetor. If there is dirt, carefully wipe it out and locate where the dirt is getting by the air filter. DO NOT run the engine until the problem is corrected.



BEARINGS

By replacing the bushings with bearings the speed of the truck will increase. Bearings reduce friction so the engine doesn't have to work as hard.



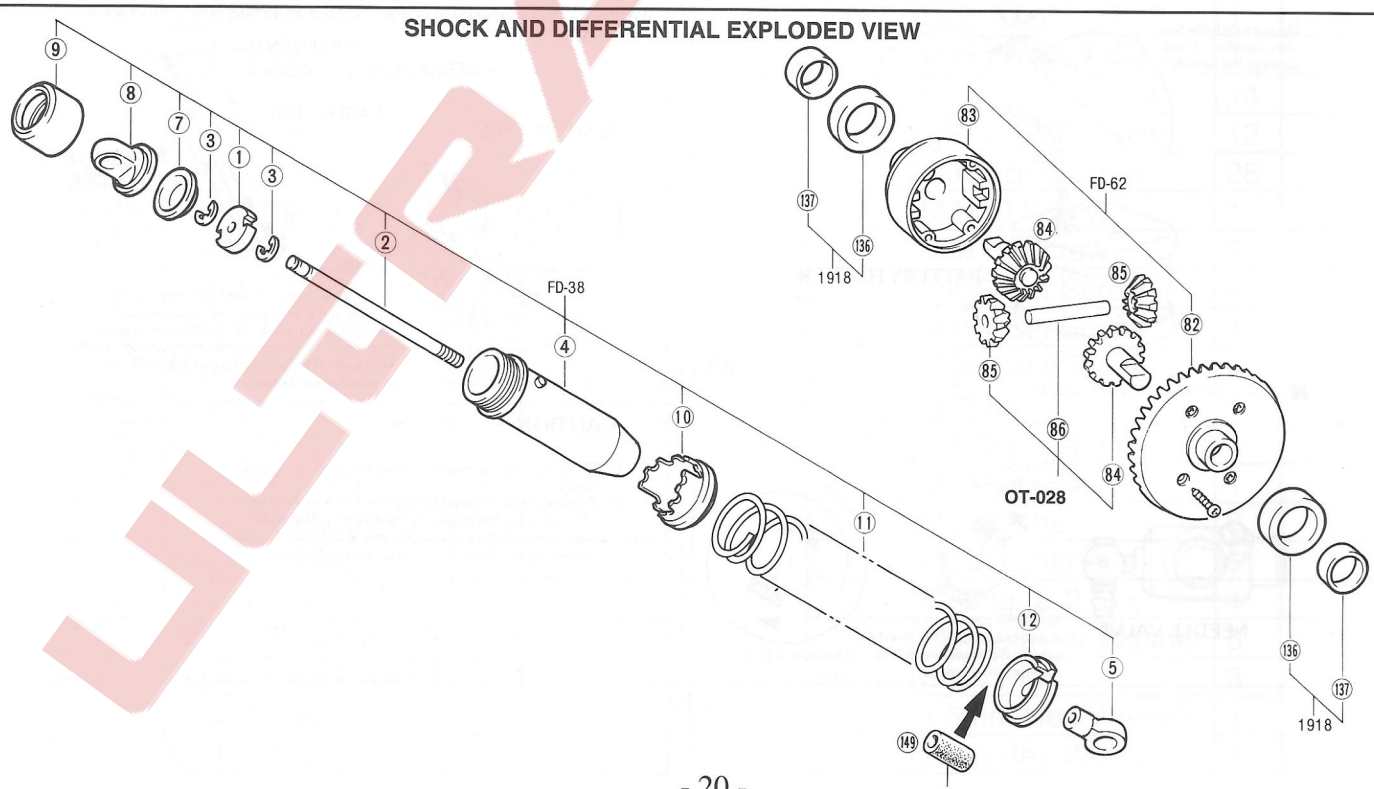
SHOCK PISTON ADJUSTMENTS

By using different shock oils, different pistons, and different spring adjustments, the dampening can be adjusted to the different track conditions.

OIL	Yellow	Green	Yellow	Red	Green	Red
PISTON						
EFFECT	← Harder					Softer →

FRONT	Lightweight shock oil Weak spring tension	SHARP STEERING RESPONSE
FRONT	Heavy shock oil Strong spring tension	SLOW STEERING RESPONSE
REAR	Lightweight shock oil Weak spring tension	MORE WHEEL TRACTION
REAR	Heavy shock oil Strong spring tension	LESS WHEEL TRACTION

SHOCK AND DIFFERENTIAL EXPLODED VIEW

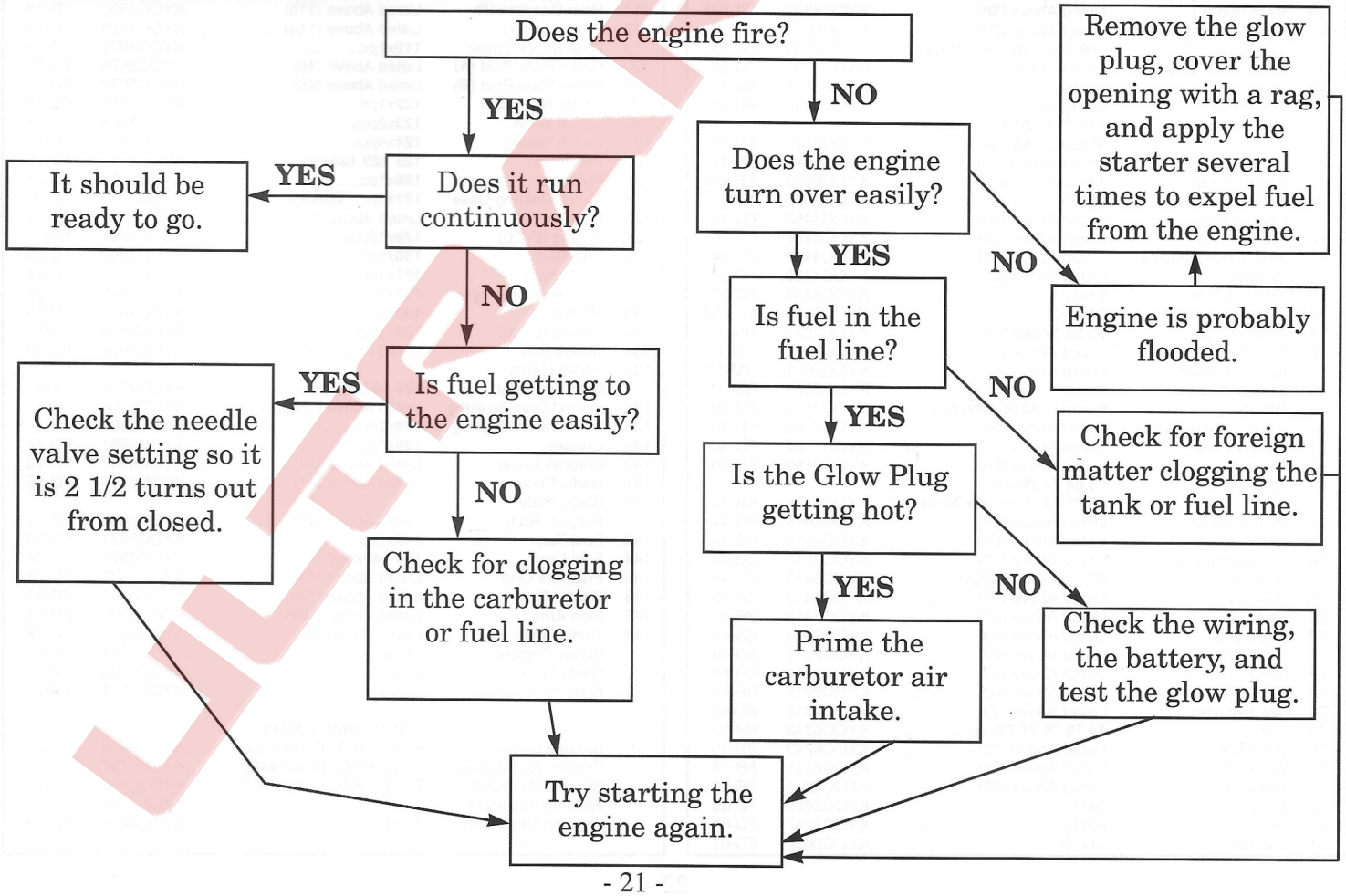


PRECAUTIONS AND ADJUSTMENTS

Before running the Nitro Thrasher, be sure to read this checklist to help prevent problems that may occur. Preventative maintenance is the key to success for operating gas powered models.

1. Check to make sure that all nuts, bolts and screws are tightened securely.
2. Check the transmitter and receiver batteries. Make sure they are fully charged.
3. Check the steering system. Make sure that the front wheels respond according to your inputs.
4. Check the throttle system. Be sure that the carburetor opens and closes properly to your inputs. Also double check the brake linkage to ensure proper operation.
5. Check the drive train. Make sure that the differentials work freely and that no binding is evident.
6. Always check the engine glow plug to make sure it is working properly prior to starting. You can easily check it by hooking it up while out of the engine. If it glows brightly, it is probably okay. Also check the coil carefully to see if it might be shorted or broken. Note: An easy way to tell if the glow plug is going bad while running is to attach the glow plug clip. If the RPM sounds higher and smoother with the clip ON than it does with the clip OFF, then the plug is probably bad and should be replaced.
7. **Important!** Make sure the engine air filter is always clean and in perfect shape. If not, replace. Any dirt, no matter how minute, will damage the engine seriously. Don't take any chances here. If in doubt, replace.
8. Clean the filter often with soap and water.
9. **Always saturate the foam filter with shock oil.** This will help trap the small particles of dirt.
10. **Never** over-rev the engine. This is a leading cause of engine failure. Do not let the engine rev up without any load. For example, if the car flips over, release the throttle immediately to prevent the engine from speeding up.
11. To safely stop the engine in any circumstance, flip the car on its back and place your shoe against the flywheel. Make sure you are wearing durable shoes whenever running the Nitro Thrasher.
12. When tuning your engine, be careful not to lean out the carburetor needle valve too much. This will cause the engine to overheat. To monitor the temperature, lightly spit on the top of the head. If the saliva dances around and bubbles off fast, the engine is too hot and the mixture is too lean. If the saliva sits there and slowly evaporates after about 5 seconds, the engine is at the right temperature and should not be leaned out anymore.

TROUBLE SHOOTING DIAGRAM

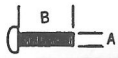


PURCHASING PARTS FOR YOUR KIT

You can purchase replacement and optional parts for your kit. All of the parts identified by key numbers are usually not available singularly, but we offer these parts in conven-ient parts "packs" which can be purchased separately. To figure out which 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 Front Hub (Key #19) ask your dealer for Kyosho Parts Pack OT-047 (Hub Set Front).

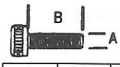
KEY #	DESCRIPTION	CONTENTS OF PARTS PACK	STOCK #	MFG. #
1.	Shock piston	**1 2 4 5 7-13**x2pcs. **3**x4pcs.	KYOC5722	FD-38
2.	Shock Shaft	Listed Above (1)	KYOC5722	FD-38
3.	E-Ring	Listed Above (1)	KYOC5722	FD-38
4.	Shock Case	Listed Above (1)	KYOC5722	FD-38
5.	Shock End	Listed Above (1)	KYOC5722	FD-38
6.	Shock Oil	Soft, Medium, Hard 1 each	KYOC5681	1951
7.	Shock Diaphragm	Listed Above (1)	KYOC5722	FD-38
8.	Shock Cap	Listed Above (1)	KYOC5722	FD-38
9.	Shock Ring	Listed Above (1)	KYOC5722	FD-38
10.	Spring Adjuster	Listed Above (1)	KYOC5722	FD-38
11.	Shock Spring	Listed Above (1)	KYOC5722	FD-38
12.	Spring Retainer	Listed Above (1)	KYOC5722	FD-38
13.	Shock Bushing	Listed Above (1)	KYOC5722	FD-38
14	5mmx10mm Bushing	**14**x10pcs.	KYOC2703	1916
15.	Knuckle Arm (R)	**15 16**x1pc.	KYOC4367	OT-016
16.	Knuckle Arm (L)	Listed Above (15)	KYOC4367	OT-016
17.	Wheel Shaft	**17**x2pcs.	KYOC6335	FD-58
18.	King Pin	**18**x4pcs.	KYOC4362	OT-004
19.	Front Hub (R)	**19 20**x1pc.	KYOC4237	OT-047
20.	Front Hub (L)	Listed Above (19)	KYOC4237	OT-047
21.	Joint	**21**x2pcs.	KYOC4322	OT-005
22.	Front Suspension Arm	**22 40**x2pcs.	KYOC6071	OT-069
23.	Ball End	**23**x8pcs. **32**x4pcs.	KYOC6292	OT-035
24.	Swing Shaft	**24**x2pcs.	KYOC6122	OT-006
25.	Linkage Guide	**25 50 51 135**x1pc. **49 52**x2pcs.	KYOC4458	FD-36
26.	Suspension Shaft (A)	**26 27 28 29**x2pcs.	KYOC6077	OT-011
27.	Suspension Shaft (B)	Listed Above (26)	KYOC6077	OT-011
28.	Suspension Shaft (C)	Listed Above (26)	KYOC6077	OT-011
29.	Suspension Shaft (D)	Listed Above (26)	KYOC6077	OT-011
30.	M2.6 Pivot Ball	**30**x10pcs.	KYOC4822	OT-036
31.	M3 Pivot Ball	**31**x10pcs.	KYOC4823	OT-031
32.	Adjustable Rod	Listed Above (23)	KYOC6292	OT-035
33.	5.8mm Ball	**33**x10pcs.	KYOC2167	OT-32
34	Suspension Strut	**34 140**x1pc.	KYOC5747	FD-13
35.	Front Shock Tower	**35 42**x1pc.	KYOC5701	FD-59
36.	Front Body Mount	**36 37**x2pcs.	KYOC2556	TB-51
37.	Rear Body Mount	Listed Above (36)	KYOC2556	TB-51
38.	Rear Hub (R)	**38 39**x1pc.	KYOC4232	OT-045
39.	Rear Hub (L)	Listed Above (38)	KYOC4232	OT-045
40.	Rear Suspension Arm	Listed Above (22)	KYOC6071	OT-069
41.	Joint Collar (A)	**109 141 142**x1pc. **41**x2pcs.	KYOC2899	FD-15
42.	Body Mount Bracket	Listed Above (35)	KYOC5701	FD-59
43.	Drive Pin	**43**x10pcs.	KYOC5645	BB-37
44.	Wheel Hub	**44**x4pcs.	KYOC4230	BB-43
45.	Servo Mount	**114 115 120 121**x1pc. **46**x2pcs. **45**x4pcs.	KYOC5576	FD-17
46.	Antenna Holder	Listed Above (45)	KYOC5576	FD-17
47.	Battery Strap	**47**x6pcs.	KYOC6020	EF-039
48.	Antenna Tube	**48**x6pcs.	KYOC2056	1705
49.	Control Rod	Listed Above (25)	KYOC4458	FD-36
50.	Throttle Rod	Listed Above (25)	KYOC4458	FD-36
51.	2mm Linkage Guide	Listed Above (25)	KYOC4458	FD-36
52.	Stopper	Listed Above (25)	KYOC4458	FD-36
53.	Exhaust Tube	**53**x1pc.	KYOC6131	FD-33
54.	Tie Strap (Small)	**54**x6pcs.	KYOC6025	EF-037
55.	Adapter Pipe	**55 56 57 58**x1pc.	KYOC2021	RM-11
56.	Filter Element	Listed Above (55)	KYOC2021	RM-11
57.	Element Cover	Listed Above (55)	KYOC2021	RM-11
58.	Element Holder	Listed Above (55)	KYOC2021	RM-11
59.	Battery Case	**61**x1pc. **59 60 62**x2pcs.	KYOC2163	FD-30
60.	Battery Holder Collar	Listed Above (59)	KYOC2163	FD-30
61.	Battery Cord	Listed Above (59)	KYOC2163	FD-30
62.	Contacts	Listed Above (59)	KYOC2163	FD-30
63.	Grill	**63 64 71 72**x1pc. **65 73 74**x2pcs. **66 70**x4pcs.	KYOC2018	BB-44
64.	Rear Bumper	Listed Above (63)	KYOC2018	BB-44
65.	Headlight Lens	Listed Above (63)	KYOC2018	BB-44
66.	Fog Light Lens	Listed Above (63)	KYOC2018	BB-44
67.	Roll Bar	**67**x1pc. **68 69**x2pcs.	KYOC5413	BB-45
68.	Base (A)	Listed Above (67)	KYOC5413	BB-45
69.	Base (B)	Listed Above (67)	KYOC5413	BB-45
70.	Fog Lights	Listed Above (63)	KYOC2018	BB-44
71.	Mirror (R)	Listed Above (63)	KYOC2018	BB-44
72.	Mirror (L)	Listed Above (63)	KYOC2018	BB-44
73.	Tail Lights	Listed Above (63)	KYOC2018	BB-44
74.	Grill Retainer	Listed Above (63)	KYOC2018	BB-44
75.	Tire	**44 75 76 77 78**x2pcs.	KYOC6243	BB-13
76.	Wheel (A)	Listed Above (75)	KYOC6243	BB-13
77.	Wheel (B)	Listed Above (75)	KYOC6243	BB-13
78.	Wheel (C)	Listed Above (75)	KYOC6243	BB-13
79.	Body	**79**x1pc.	KYOC2460	FD-60
80.	Decal	**80**x1pc.	KYOC3247	FD-61
81.	Bumper	**81**x1pc.	KYOC2636	FD-01
82.	Final Differential Case (A)	**82 83**x1pc.	KYOC3507	FD-04
83.	Final Differential Case	Listed Above (82)	KYOC3507	FD-04
84.	Bevel Gear (A)	**86**x2pcs. **84 85**x4pcs.	KYOC3297	OT-028
85.	Bevel Gear (B)	Listed Above (84)	KYOC3297	OT-028
86.	Bevel Shaft	Listed Above (84)	KYOC3297	OT-028
87.	Final Pinion	**87**x1pc.	KYOC3516	FD-06
88.	2mmx8mm Pin	**88 89 90 148**x1pc.	KYOC4870	FD-57
89.	Pulley (29T)	Listed Above (88)	KYOC4870	FD-57
90.	Pulley (14T)	Listed Above (88)	KYOC4870	FD-57
91.	Belt	**91**x1pc.	KYOC2297	FD-03
92.	Front Counter Shaft	**92**x1pc.	KYOC3646	FD-08
93.	Rear Counter Shaft	**93**x1pc.	KYOC4958	FD-09
94.	Counter Shaft Joint	**94**x2pcs.	KYOC4321	FD-10
95.	E-Ring (E-4.0)	**95**x10pcs.	KYOC9884	1384
96.	Differential Housing (A)	**96 97**x1pc.	KYOC2799	FD-05
97.	Differential Housing (B)	Listed Above (96)	KYOC2799	FD-05
98.	Shaft Holder	**98**x1pc.	KYOC4643	FD-11
99.	Front Gearbox (L)	**99 100 101**x1pc.	KYOC3636	FD-12
100.	Front Gearbox (R)	Listed Above (99)	KYOC3636	FD-12
101.	Front Housing	Listed Above (99)	KYOC3636	FD-12
102.	Servo Saver (A)	**102 103 104 105 106 146 147**x1pc.	KYOC5599	FD-43
103.	Servo Saver (B)	Listed Above (102)	KYOC5599	FD-43
104.	Servo Saver Shaft	Listed Above (102)	KYOC5599	FD-43
105.	Servo Saver Spring	Listed Above (102)	KYOC5599	FD-43
106.	E-Ring (E-5.0)	Listed Above (102)	KYOC5599	FD-43
107.	Center Differential Mount (A)	**107 108**x1pc.	KYOC2798	FD-14
108.	Center Differential Mount (B)	Listed Above (107)	KYOC2798	FD-14
109.	Joint Collar (B)	Listed Above (41)	KYOC2899	FD-15
110.	Brake Disk	**110 111 112 113**x1pc.	KYOC2613	FD-16
111.	Brake Pad (A)	Listed Above (110)	KYOC2613	FD-16
112.	Brake Pad (B)	Listed Above (110)	KYOC2613	FD-16
113.	Brake Cam Shaft	Listed Above (110)	KYOC2613	FD-16
114.	Brake Cam	Listed Above (45)	KYOC5576	FD-17
115.	Brake Horn	Listed Above (45)	KYOC5576	FD-17
116.	Rear Gearbox (L)	**116 117 118**x1pc.	KYOC4959	FD-18
117.	Rear Gearbox (R)	Listed Above (116)	KYOC4959	FD-18
118.	Rear Housing	Listed Above (116)	KYOC4959	FD-18
119.	Rear Shock Tower	**119**x1pc.	KYOC4976	FD-19
120.	Radio Plate Post (A)	Listed Above (45)	KYOC5576	FD-17
121.	Radio Plate Post (B)	Listed Above (45)	KYOC5576	FD-17
122.	Clutch Bell (13T)	**122**x1pc.	KYOC2955	SD-54
123.	Clutch Shoe	**123**x2pcs.	KYOC3005	AB-15
124.	Clutch Spring	**124**x4pcs.	KYOC3045	AB-17
125.	Pilot Shaft	**125 129 134**x1pc.	KYOC4740	AB-14
126.	Flywheel	**126**x1pc.	KYOC3534	FD-21
127.	Clutch Bearing Case	**127**x1pc. **128**x8pcs.	KYOC2915	LD-70
128.	Bearing Pin	Listed Above (127)	KYOC2915	LD-70
129.	E-Ring (E-7.0)	**129**x10pcs.	KYOC9887	1387
130.	Pull Start	**130**x1pc.	KYOC5962	FD-23
131.	Back Plate	**131**x1pc.	KYOC5964	FD-44
132.	One-Way Bearing	**132**x1pc.	KYOC4699	FD-24
133.	Muffler	**133**x1pc.	KYOC4677	FD-25
134.	E-Ring (E-3.0)	**134**x10pcs.	KYOC9883	1383
135.	Choke Rod	Listed Above (25)	KYOC4458	FD-36
136.	10mmx14mm Bushing Collar	**136 137**x10pcs.	KYOC2704	1918
137.	8mmx10mm Bushing	Listed Above (136)	KYOC2704	1918
138.	5mmx10mm Bearing	**138**x2pcs.	KYOC2197	1901
139.	Chassis	**139**x1pc.	KYOC2881	FD-27
140.	Chassis Cover	Listed Above (34)	KYOC5747	FD-13
141.	Radio Plate	Listed Above (41)	KYOC2899	FD-15
142.	Radio Plate Support Rod	Listed Above (41)	KYOC2899	FD-15
143.	Fuel Tank	**143**x1pc.	KYOC3971	FD-28
144.	Fuel Line	**144 145**x1pc.	KYOC3972	FD-29
145.	Pressure Line	Listed Above (144)	KYOC3972	FD-29
146.	Center Rod	Listed Above (102)	KYOC5599	FD-43
147.	Side Arm	Listed Above (102)	KYOC5599	FD-43
148.	2mmx11mm Pin	Listed Above (88)	KYOC4870	FD-57
	Screw Cement	x2pcs.	KYOC5451	1878
	Cross Wrench	x1pc.	KYOC6395	1943
	Body Pins (Large)	x5pcs.	KYOC2517	1889
	OPTIONAL PARTS			
	Silicone Oil (Soft)	Bottle #100, Bottle #200	KYOC5736	1953
	Silicone Oil (Medium)	Bottle #300, Bottle #400	KYOC5737	1954
	Silicone Oil (Hard)	Bottle #500, Bottle #600	KYOC5738	1955
	Working Fog lights	1 Set	KYOC4427	1856
	Working Headlights	1 Set	KYOC4428	NB-13

REPLACEMENT SCREWS, NUTS, AND WASHERS



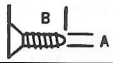
Round Head Screw

A	B	STOCK #	MFG #	Qty.
M2	6	KYOC9701	1101	5 Each
	8			
	10			
	15			
M2.6	8	KYOC9702	1102	5 Each
	10			
	12			
	14			
M3	4	KYOC9703	1103	5 Each
	6			
	8			
	10			
	12			
M3	14	KYOC9704	1104	5 Each
	16			
	18			
	20			
M4	6	KYOC9705	1105	5 Each
	8			
	10			
	12			



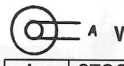
Hex Head Screw

A	B	STOCK #	MFG #	Qty.
M3	8	KYOC9726	1126	2 Each
	10			
	12			
	14			
M3	15	KYOC9727	1127	2 Each
	16			
	18			
	20			



Flat Head S/T Screw

A	B	STOCK #	MFG #	Qty.
M2.6	6	KYOC9747	1147	5 Each
	8			
	10			
	12			
M3	6	KYOC9748	1148	5 Each
	8			
	10			
	12			
	14			
M3	15	KYOC9749	1149	5 Each
	16			
	18			
	20			

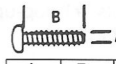


Washer

A	STOCK #	MFG #	Qty.
M2	KYOC9785	1185	10 Each
M2.6			
M3			
M4	KYOC9786	1186	10 Each
M5			

Pan Head Screw

A	B	STOCK #	MFG #	Qty.
M2.6	4	KYOC9710	1110	5 Each
	6			
	8			
	12			
M3	4	KYOC9711	1111	5 Each
	6			
	8			
	10			
	12			
M3	14	KYOC9712	1112	5 Each
	16			
	18			
	20			
M4	6	KYOC9713	1113	5 Each
	8			
	10			
	12			

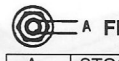


Round Head S/T Screw

A	B	STOCK #	MFG #	Qty.
M2	4	KYOC9732	1132	5 Each
	6			
	8			
	10			
M2.6	6	KYOC9733	1133	5 Each
	8			
	10			
	12			
M3	6	KYOC9734	1134	5 Each
	8			
	10			
	12			
	14			
M3	15	KYOC9735	1135	5 Each
	16			
	18			
	20			

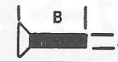
Set Screw

A	B	STOCK #	MFG #	Qty.
M3	3	KYOC9761	1161	3 Each
	4			
	5			
	10			
M4	4	KYOC9762	1162	3 Each
	5			
	8			
	12			
M5	4	KYOC9763	1163	3 Each
	5			
	6			
M5	30	KYOC9764	1164	3 Each
	40			



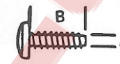
Flanged Nylon Nut

A	STOCK #	MFG #	Qty.
M4	KYOC9780	1180	5



Flat Head Screw

A	B	STOCK #	MFG #	Qty.
M2.6	8	KYOC9718	1118	5 Each
	10			
	12			
	14			
M3	6	KYOC9719	1119	5 Each
	8			
	10			
	12			
M3	14	KYOC9720	1120	5 Each
	16			
	18			
	20			
M4	6	KYOC9721	1121	5 Each
	10			
	15			
	20			

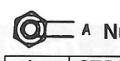


Pan Head S/T Screw

A	B	STOCK #	MFG #	Qty.
M2.6	6	KYOC9740	1140	5 Each
	8			
	10			
	12			
M3	6	KYOC9741	1141	5 Each
	8			
	10			
	12			
	14			
M3	15	KYOC9742	1142	5 Each
	16			
	18			
	20			

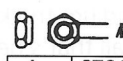
E-Clip

A	STOCK #	MFG #	Qty.
E-1.5	KYOC9880	1380	10
E-2.0	KYOC9881	1381	10
E-2.5	KYOC9882	1382	10
E-3.0	KYOC9883	1383	10
E-4.0	KYOC9884	1384	10
E-5.0	KYOC9885	1385	10
E-6.0	KYOC9886	1386	10
E-7.0	KYOC9887	1387	6
E-10.0	KYOC9890	1390	6



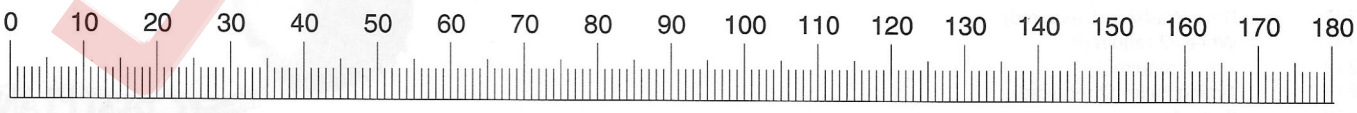
Nut

A	STOCK #	MFG #	Qty.
M2	KYOC9771	1171	10 Each
M2.6			
M3	KYOC9772	1172	10 Each
M4			

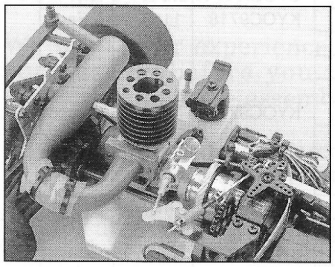


Nylon Nut

A	STOCK #	MFG #	Qty.
M2.6	KYOC9777	1177	5
M3	KYOC9778	1178	5
M4	KYOC9779	1179	5

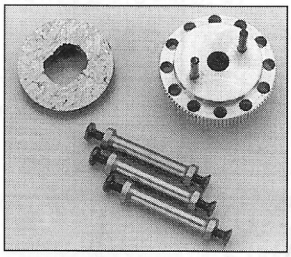


BEST HOP-UPS

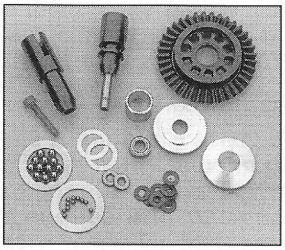


DuraTrax Heat Sink Head for O.S: .12 CZ-R. This lightweight head lowers racing weight while it improves cooling through its increased fin area. Direct, bolt-on replacement; no modifications required. DTXG1500.

DuraTrax 600 mAh Rx NiCd: This 5-cell, 6V rechargeable battery speeds servo response and lasts longer than standard 4-cell or alkaline packs. DTXM2000.



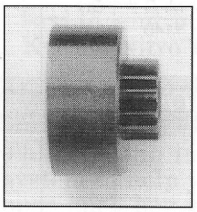
DuraTrax CZ-R Lightweight Flywheel: Machined and drilled to reduce weight, this "lightened" metal flywheel offers faster acceleration response...great for short tracks with sharp turns. Fits all O.S. CZ-Series engines. DTXG2510.



DuraTrax Rampage Ball Differential: Adjustable for improved handling, cornering and traction on any track, this ball differential replaces the stock gear differential in the Nitro Thrasher. Includes Associated Stealth Rings for longer life and smoother performance. DTXC3070.

Kyosho Ball Bearing Set: This complete, 14-piece set replaces the Nitro Thrasher's metal bushings with 100% stainless steel ball bearings. The hobbyists' #1 hop-up for higher speeds, lower friction and longer model life. KYOC2209.

Kyosho Gold Shocks: Oil-filled, coil-over, anodized aluminum Gold Shocks are triple-sealed against leakage. Unique tapered piston design reduces wear while providing smoother dampening. KYOC5693.



DuraTrax Clutch Bearing Set: Once installed, this bearing set reduces friction for smoother idling, and reduces "creeping" and "loading up" that can interfere with maximum, off-the-line acceleration. DTXC1119.

Nitro-powered thrills go from .12 to .21 size - with the USA-1 Nitro Crusher!

For more realism, more speed and more raw gas power than .12-size trucks can deliver, the USA-1 Nitro Crusher 4WD is a natural choice. The gleam and glory of the full-sized USA-1's looks are faithfully reproduced in scale, while the "guts" boast the best that Burns engineering muscle and toughness can offer. Three gear diffs and a heavy-duty shaft drive pour power to bushing-equipped 6.7" tires for tremendous, .21-size traction and speed.

Nitro Thrasher Plus - The 4WD Stadium Truck Conversion

Stadium trucks are nothing new, but no one has ever seen a gas-powered, 4WD stadium truck...until now. With the parts listed below, you can trade the Nitro Thrasher's high ground clearance and climbing ability for the higher speed and handling needed for stadium truck racing. All parts are available now...and they're all that's needed to transform the Nitro Thrasher into the Nitro Thrasher Plus.

CONVERSION PARTS

KYOC5658	Axle Shaft (2 required)
KYOC3332	Drive Washers (1 required)
KYOC6392	Wheel (2 required)
KYOC6219	Tire (2 required)
KYOC4875	Timing Pulley (2 required)
KYOC2469	Body (1)
KYOC3228	Decal (1)

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