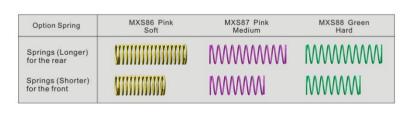




01-03 Front*2, Rear*2

1. Fill the shock body up to the top with oil.

- 2. Slowly push the shock shaft in and out to remove all air bubbles. If oil level drops do not let the piston come out of the oil.
- 3. Once you have all the air bubbles worked out.
- 4. Put the rubber diaphragm on ,then slowly tighten down the shock cap.
- 5. Loosen the shock cap 1/2-3/4 turn and slowly press the shock shaft all the way in.
- 6. With the shock shaft pressed all the way in tighten down the shock cap.
- 7. Shocks should feel smooth. If you feel air bubbles, remove cap and add more oil, then repeat. If shock shafts don't go all the way in you need to bleed a little more oil out.





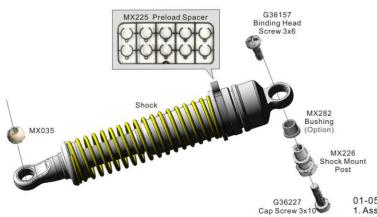
01-04 Front*2, Rear*2
1. Clip the spring retainer onto the lower shock eyelet carefully

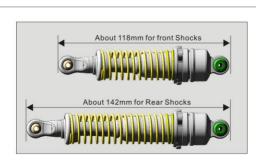
securing the bottom of the shock boot at the same time.

* Use the Preload spacers on the shocks for adjusting the preload of the springs.(If needed)









01-05 Front*2, Rear*2

1. Assemble as shown. The MX226 upper shock mount will be attached to the shock towers in a later step.

1. Follow the diagram for the front and rear differential assemblies. MX227 MXS76 (Option) Brake Outdrivers G73914 Bearing 8x16x5 G36902 Shim 8x11.5 Spur Gear T46 MX228 (Steel) MX338 (STD) G70306 Oil Ring P6 G70306 Oil Ring P6 MX229 Diff Case G36714 Pins 2.5*12 G36714 Pins 2.5*12 G36902 Shim 8x11 5 G36261 Set Screw 4x4 Outdrivers G73914 Bearing 8x16x5 Brake Outdrivers MX227 Option Parts MXS76

1.Insert the MX231 differential Planet gears onto the cross pins making sure that they spin freely on the shafts 2.Next slide on the washers behind each differential Planet gear. 3. Slide the cross pins with the differential Planet gears down into the differential case.
NOTE: the differential case has specific grooves in which the cross pins must slide into. G36908 W 4x11 Option MX231 Diff Planet MX230 Cross Pins G36908 Gears W 4x11 Option G36908 W 4x11 MX231 Option Diff Planet Gears

G36908 W 4x11

Option

MX231

Diff Sun Gear

- 1. Follow diagram for Cross Pin and Diff Planet Gear then slide into the diff housing.
- 2. Rotate the outdrive to check for smooth operation.



Front and Rear Differential

02-04 *2

1. Fill the housing up with oil just slightly below the top of the gears

2. Secure the diff case cover using four 3x10 screws.

3. Make sure differentials are smooth.



1.Insert the MX231 differential Planet gears onto the cross pins making sure that they spin freely on the

2.Next slide on the washers behind each differential Planet gear. 3. Slide the cross pins with the differential Planet gears

down into the differential case.
NOTE: the differential case has specific grooves in which the cross pins must slide into.

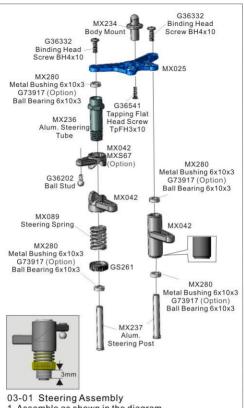


02-06 *2

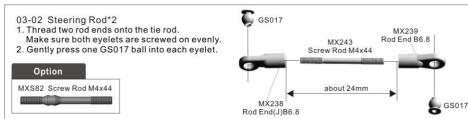
1. Using four G36541 screws, secure the differential ring gear to the differential

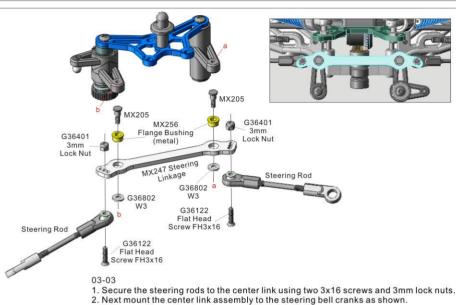
NOTE: Do not over tighten the screws as this may strip the holes and cause



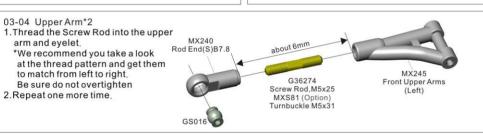


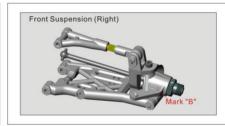
- 1. Assemble as shown in the diagram.
- 2. Tighten down the servo saver nut until you have about 6mm of threads showing.

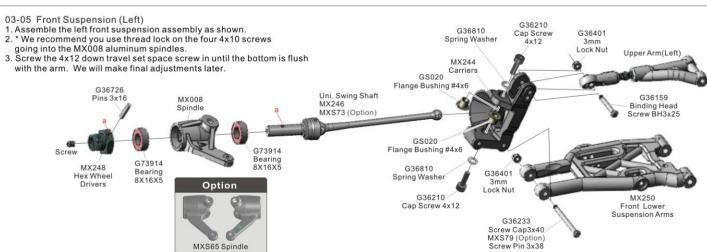


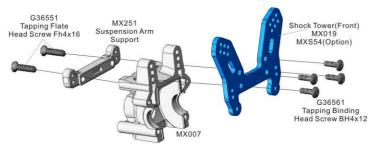


Make sure the entire steering assembly is totally free.

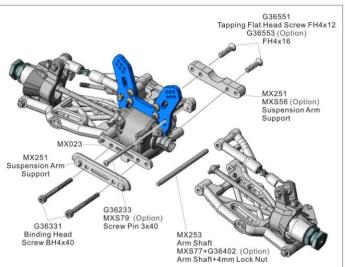






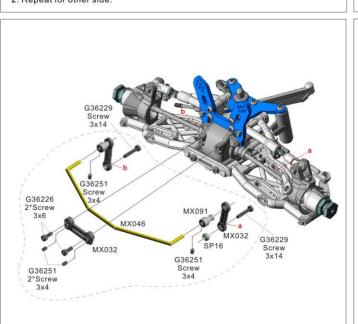


- 03-06 Front Bulkhead
- 1. Mount the upper suspension arm support to the MX007 front bulkhead using
- 2. Secure the Front shock tower to the bulkhead using four 4x12 button head screws.



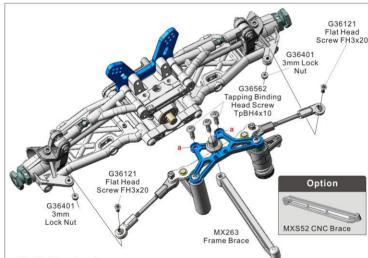
03-08 Front Suspension

- 1. Attach the front left suspension arm assembly to the front bulkhead as shown
- The short pin is used for the upper arm and the longer pin for the lower arm. 2. Repeat for other side.



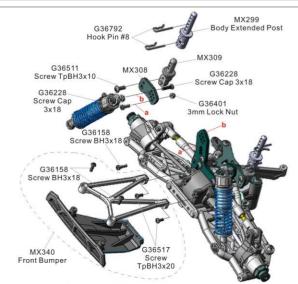
03-10 Front Sway Bar (Not Included)

- Assemble the sway bar as shown.
- 2. Don't tighten down the setscrews until sway bar is fully installed. Then with everything sitting flat, tighten the setscrews.



03-09 Steering Saver

- 1. First attach the Frame brace to the front upper plate using one 4x10 button head
- 2. Attach the steering assembly to the front bulkhead using two 4x10 screws.
 3. Finish this step by mounting the steering rods to the spindles using 3x20 screws and lock nuts.



03-11 Front Shock and Front Bumper

- 1. Attach the MX308 body post mount to the shock tower as shown while keeping in mind which shock location you will be using. Secure the body post and shock mount correspondingly.
- 2. Next install the bumper bracket and bumper using the proper screws as shown in the diagram. Be sure to not over tighten the screws as this can strip the bumper and cause it to function improperly.



Rear Shock Tower MX020 MXS93(Option) G36551 Tapping Flat Head Screw FH4x16 G36553 (Option) TPFH4x12 Suspension Arm Support G36561 MX007 Tapping Binding Head Screw BH4x12

Bulkhead

Set Screw

MX248

Hex Wheel

Drivers

G36401

Jmm Lock Nut

8x16x5

MX261

G36234 Screw Cap 3x50 MXS78 (Option)

Screw Pin 3x50

04-01 Rear Bulkhead

GS016

04-03 Upper Rods*2

3. Repeat on other rod

MX257 Screw Rod,M5x54

MXS80(Option) Turnbuckle M5x56

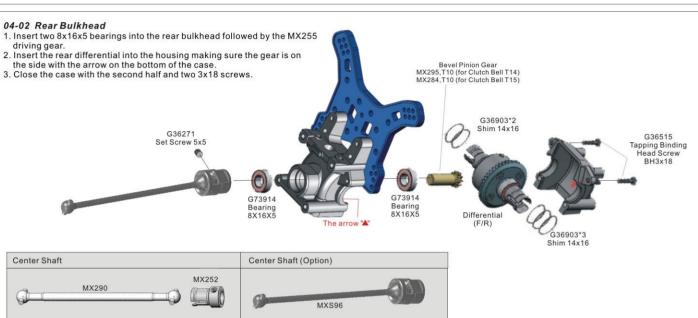
MX241 Rod End(L)B7.8

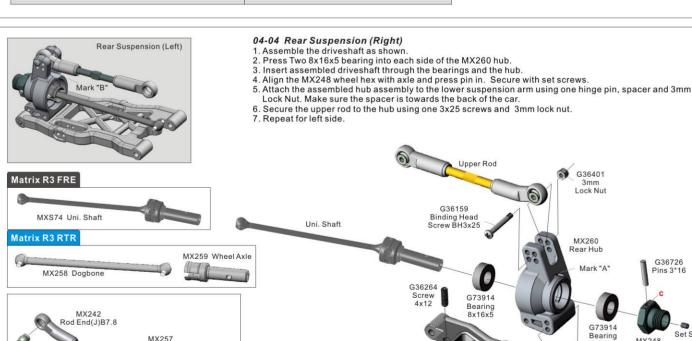
GS016

about 34.5mm

1. Thread one Rod End onto each side of the tie rod. Snap one ball into each eyelet.

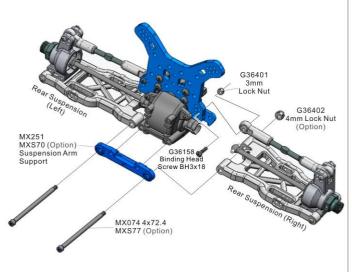
- 1.Secure the shock tower to the bulkhead using four 4x12 button head screws.
- 2. Secure the arm support to the bulkhead using two screws.





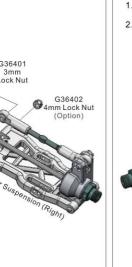
MX261

Rear Lower Suspension Arms



04-05 Rear Suspension

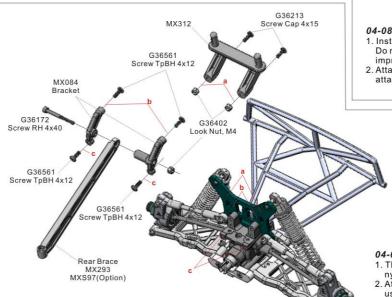
- 1. Attach the rear suspension arms to the rear bulkhead as shown.
- 2. Secure assembly using two 4x40 screws.



G36227 Screw 3x10 Rear Shock Rear Shock G36158 Binding Head Screw BH3x18

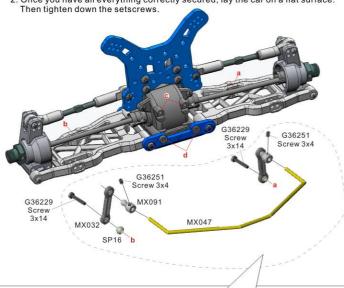
04-07 Rear Shock

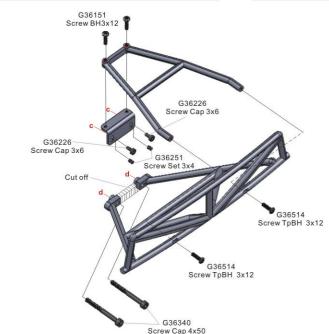
- 1. Secure the shocks to the shock tower using two $3x10\ screws$. We suggest using the upper inside hole.
- 2. Mount the shock to the outer hole on the suspension arm using 3x18 screws.



04-06 Rear Sway Bar (Not Included)

- 1. Assemble the sway bar as shown. Leave the setscrews loose until the sway bar is secure.
- 2. Once you have all everything correctly secured, lay the car on a flat surface.





04-08 Rear Bumper (MX339)

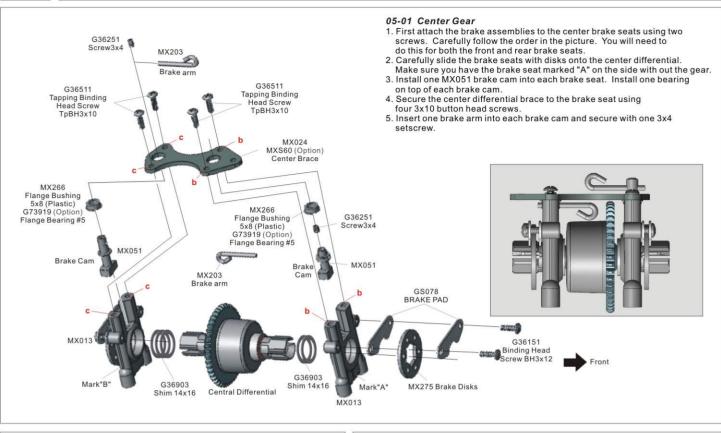
- 1. Install the rear bumper bracket to the rear bumper using two 3x10mm screws. Do not over tighten the screws as this can cause the bumper to function improperly.
- 2. Attach the rear bumper assembly by using the two large G36211 screws and attaching them to the rear suspension arm block.

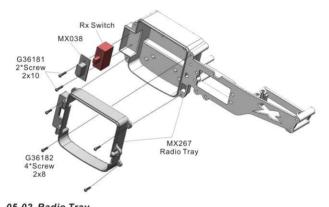
04-09 Rear Body Mount and Chassis Brace

- 1. The rear body mounts attach to the rear shock tower using two screws and nylon lock nuts as shown in the diagram.
- 2. Attach the rear chassis brace holder to the rear shock tower and bulkhead by using the 4x10mm screws on both the front and back side as shown.

 3. Install the rear chassis brace by using one large G36211 screw and a 4mm
 - locknut.

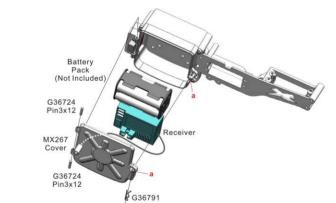
Rear End





- 05-02 Radio Tray

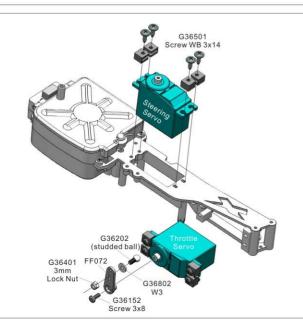
 1. Mount your on/off switch using two 2x10 screws and MX038 rubber cover into the upper half of the receiver box.
- 2. Secure the two sides of the receiver box together using four 2x8 screws.



- 05-03 Radio Tray
- 1.Align the receiver box lid and box and press the 2x12 pins into each side of the
- 2.Install your receiver and battery and secure lid with a single body clip.

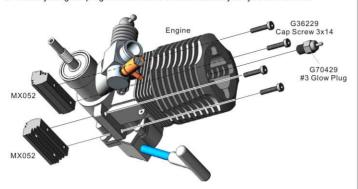
05-04 Radio Tray

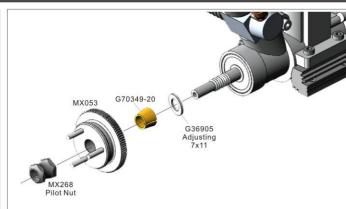
- 1. Secure your steering servo to the servo bracket with four 3x14 screws.
- 2. Next mount your throttle servo using just Four 3x14 screws.



06-01 Engine Mount

- 1. Secure two engine mounts to your engine using four 3x14 screws.
- Carefully look at each mount and you will see that the distance from the edge to the hole is different on each side. Make sure the edge with the shorter distance to the hole is closest to the rear (pull start side) of the engine.
- Thread lock recommended on these screws.
- 2. Install your glow plug if it has not been done already for you at this time.





06-02 Flywheel

- Slide one 7x10 shim onto the crankshaft followed by the cone.
- 2. Slide the flywheel onto the crankshaft centering it on the cone.
- 3. Grip the flywheel with large pliers and tighten the pilot nut down.
- You want to make sure this is very tight.

06-03 Clutch Shoes

- 1. Install one clutch spring into each shoe as shown
- Put the shoe with the spring onto the pin found on the flywheel.
- Once it's about 1/2 way down the pin, you will need to pull the small part of the spring back and press the shoe all the way down onto the flywheel. The small Part of the spring should sit in the groove on the pilot nut.
 *Recommend using a small flathead screwdriver or needle nose pliers

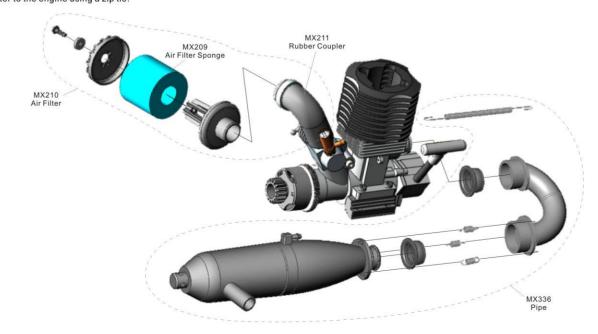


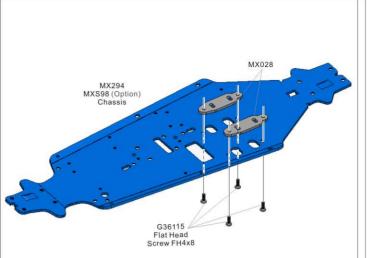
- 1. Install three 7x10 shims onto the pilot shaft.
- 2. Press two bearings into the clutchbell then slide onto pilot shaft.
 3. Secure with one #3 washer and 3x8 screws.
- 4. Make sure the clutchbell spins freely. If it's not completely free take apart and remove one of the 5x7 shims. Repeat if needed.



06-05 Muffler

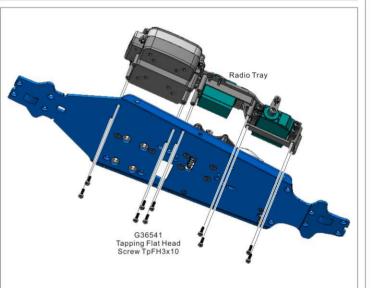
- Connect the manifold and pipe together using three small springs.
 Put the exhaust seal onto your engine and then carefully put the manifold and pipe onto
- 3. Use the supplied retaining springs to hold the exhaust onto your engine.
- 4. Secure your air filter to the engine using a zip tie.





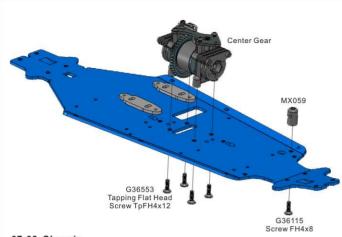
07-01 Chassis

Mount the engine mounting plates to the chassis using four 4x8 screws.
 *Recommend thread lock on these screws.



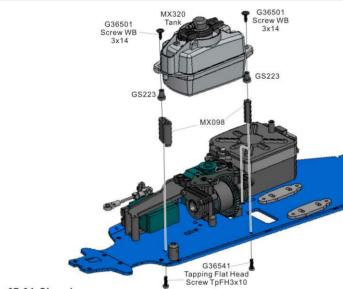
07-03 Chassis

1. Mount the radio tray assembly to the chassis using ten 3x10 screws.



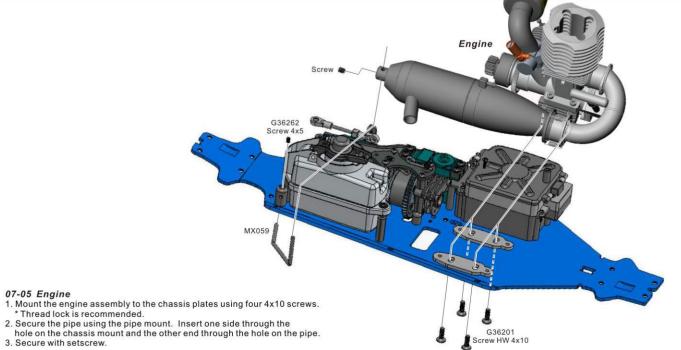
07-02 Chassis

Mount the center differential assembly to the chassis using four 4x12 screws.
 Make sure the brake disks are lined up correctly with the grooves in the diff mounts.



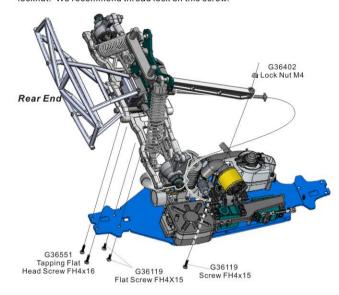
07-04 Chassis

- 1. Mount the fuel tank brackets to the chassis as shown using two 3x10 screws.
 2. Using two rubber mounts and two 3x14 screws secure the tank
- Using two rubber mounts and two 3x14 screws secure the tail to the brackets.



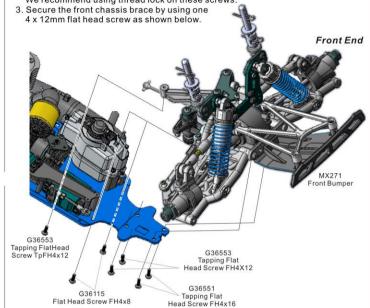
08-01 Rear End Installation

- Attach the rear end assembly to the chassis by using two 4 x16mm screws in the rear and two 4 x 15mm screws in the front as shown. Be sure to not over tighten.
- 2. Secure the chassis brace with one 4 x 15mm flat head screw and one 4mm locknut. We recommend thread lock on this screw.



08-02 Front End Installation

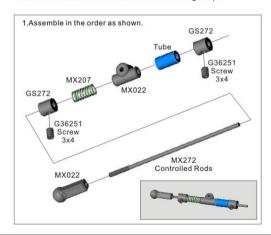
- 1. Attach the front end assembly to the main chassis by using two 4 x 16mm screws in the front and two 4 x 15mm screws in the rear as shown in the diagram.
- Use two 4 x 8mm flat head screws to secure the steering posts to the chassis.
 We recommend using thread lock on these screws.

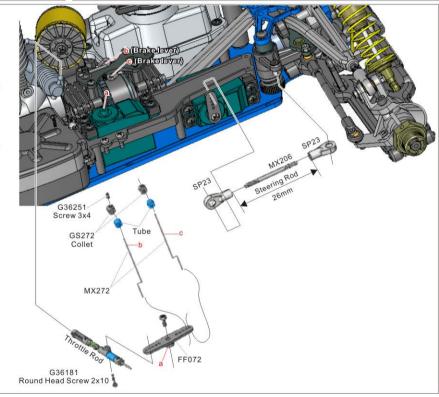


08-03 Con-Rod

- Install all the throttle linkage as shown in the diagram.
 First put the brake rods through the brake levers and put the MX022 cone, spring and collet and then tighten down the setscrew. Do this with both brake rods.
- Secure the throttle rod to the servo arm using one 2x10 screw
 Snap the throttle rod onto the ball located on the carburetor.
- Secure the brake bracket assembly to the servo arm using two 2x8 screws.
- 4. Mount the servo arm to the throttle servo using the screw supplied with your servo.
- 5. Snap both sides of the steering rod onto the ball stub on the serve arm and steering bell crank
- servo arm and steering bell crank.

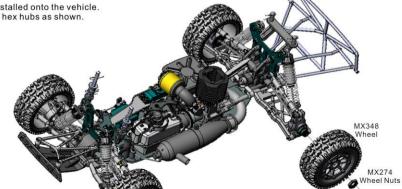
 6. Adjust the length of the steering rod so the steering bell cranks is 90' to the side and the servo arm is straight up.

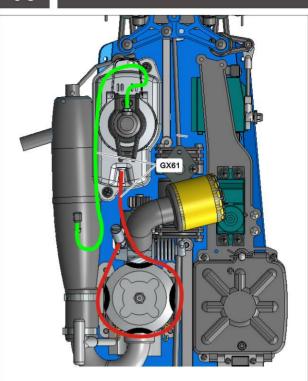




08-04 Wheels

 After properly mounting the tires to the wheels they are ready to be installed onto the vehicle.
 Using the MX274 wheel nuts tighten the tires / wheels onto the 17mm hex hubs as shown.
 Be sure to tighten securely.



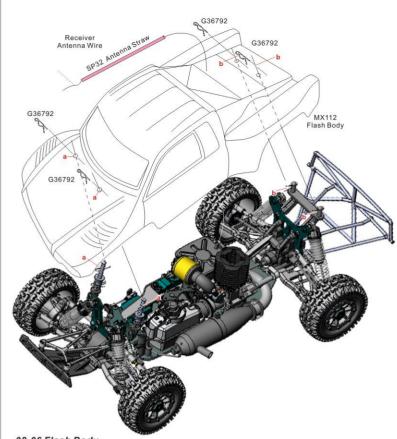






08-05 Fuel Tube

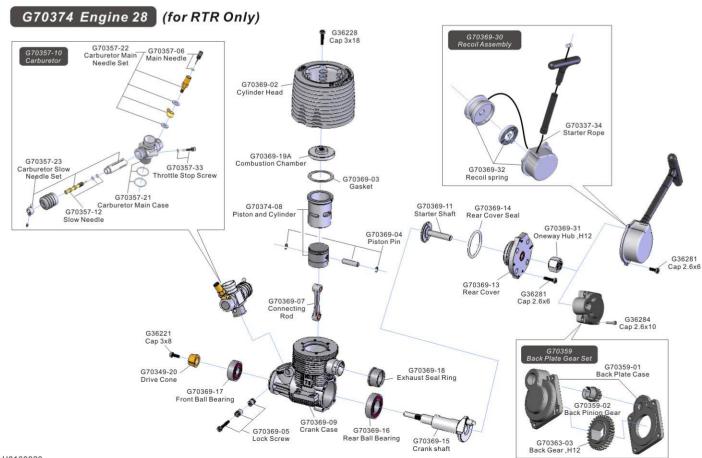
1. This is the correct layout for your fuel line. Make sure the fuel line coming from the pipe goes into the lid of the tank.



08-06 Flash Body

- After you have painted the body, mount it to the car by drilling out the holes for the body mounts.
- 2. Cut a hole large enough to clear the engine head and a hole in the windshield to be able to fully open the fuel tank. This hole will also provide additional airflow to your engine.

 3. Secure the body with 4 large body clips.



Fra	me				
Spare F	Parts	MX257	Screw Rod,M5x54	G36340	Cap Screw 4x50
MX007	Gear Box	MX258	Dogbone,R2-91.5	G36401	Lock Nut, M3
MX008	Spindle	MX259	Wheel Axle	G36402	Lock Nut, M4
MX013	Center Diff, Mount	MX260	Rear Hub	G36501	Tapping Flange Screw TpWH3x14
MX019	Shock Tower (Front)	MX261	Rear Lower Suspension Arms	G36511	Tapping Binding Head Screw TpBH3x10
MX020	Shock Tower (Rear)	MX263	Frame Brace	G36515	Tapping Binding Head Screw TpBH3x18
MX022	Controlled Linkage Plastic Set	MX266	Flange Bushing 5x8 (Plastic)	G36541	Tapping Flat Screw TpFH3x10
MX023	Front Aluminum Suspension Plate	MX267	Radio Tray	G36553	Tapping Flat Head Screw TpFH4x12
MX024	Center Brace	MX268	Pilot Nut	G36561	Tapping Binding Head Screw TpBH4x17
MX025	Upper Plate	MX272	Controlled Rods	G36562	Tapping Binding Head Screw TpBH4x10
MX028	Engine Plate	MX274	Wheel Nuts	G36714	Pins 2.5x12
MX029	Clutch Spring 1mm	MX275	Fiber BrakeDisks	G36724	Pin 3x12
MX032	Anti-Roll Plastic Parts	MX279	Shock Alumium Parts (Front)	G36726	Pin 3x16
MX035	Ball B6.8	MX280	Metal Bushing 6x10x3	G36791	Hook Pin #6
MX038	Power Switch Cover	MX282 MX284	Shock Plastic Parts Ring Gear (T43) and Pinion Gear (T10)	G36792	Hook Pin #8(Longer)
MX042 MX046	Servo Saver Plastic Parts Anti-Roll Bar (Front)	MX284 MX288	Clutch Bell, T15	G36801 G36802	Washer 3x6x0.5 Washer 3x8x1
MX047	Anti-Roll Bar (Rear)	MX290	Center Shaft (Rear)	G36802 G36810	Spring Washer
MX051	Brake Cam Shaft	MX293	Rear Brace	G36901	Shim 5x7
MX052	Engin Mount	MX294	Main Chassis	G36902	Shim 8x11.5
MX053	Flywheel	MX295	Ring Gear (T38) and Pinion Gear (T10)	G36903	Shim 14x11.5
MX054	Clutch Shoes	MX299	Body Extended Post	G36905	Shim 7x11x0.8
MX059	Exhaust Mount	MX308	Front Body Mount Plate	G70349-20	Flywheel Collet
MX061	Aluminum Fuel Filter	MX309	Front Body Post	G70369-18	Exhaust Seal Ring
MX074	Rear Suspension Arm Hinge Pin4x74	MX312	Rear Body Mount	G70302	Oil Ring P3.5
MX084	Chassis Rear Bracket	MX320	Fuel Tank	G70306	Oil Ring P6
MX087	Shock Diaphragm	MX329	Center Shaft, 97mm	G70309	Oil Ring 10
MX089	Steering Spring	MX336	Pipe	G73902	Bearing 5x10x4
MX090	Body Mount	MX337	Shock Alumium Parts (Rear)	G73914	Bearing 8x16x5
MX091	Anti-roll Pivot	MX338	Spur Gear T46	G70429	Glow Plug #3
MX098	Fuel Tank Mount	MX339	Rear Bumper	GX61	Fuel Tube
MX112	Matrix SC Flash Body	MX340	Front Bumper	FF068	Zipper Tie (middle)
MX202	Tube Clamp	MXS92	Wheels (Yellow)	FF072	Servo Horn
MX203	Brake Lever	GS016	Ball B7.8	SP16	Ball 5.8
MX205	Bolt	GS017	Ball B6.8	SP23	Rod End 5.8
MX206	Threaded Rod M3x40	GS020	Flange Bushing#4x6	SP32	Antenna Straw
MX207	Throttle Spring	GS078	Brake Pads		
MX208	Fuel Filter	GS223	Rubber Damper	-	
MX209	Air Filter Sponge	GS261	Adjusting Nut		
MX210	Air Filter	GS272	Rod Stopper		
MX211	Rubber Coupler	G36115 G36121	Flat Head Screw FH4x8 Flat Head Screw FH3x20		
MX220	Shock Rod(Front)55.5mm Shock Rod(Rear)67.5mm	G36121	Flat Head Screw FH3x20		
MX221 MX225	Preload Spacer	G36151	Binding Head Screw BH3x12	-	
MX226	Shock Mount Post	G36152	Binding Head Screw BH3x8	1	
MX227	Brake Outdrivers	G36155	Binding Head Screw BH3x20		
MX228	Steel Spur Gear T46	G36157	Binding Head Screw BH3x6		
MX229	Diff Case	G36158	Binding Head Screw BH3x18		
MX230	Cross Pins	G36159	Binding Head Screw BH3x25		
MX231	Diff Gears	G36172	Round Head Screw RH4x40		
MX232	Outdriver	G36181	Round Head Screw RH2x10		
MX234	Body Mount	G36182	Round Head Screw RH2x8		
MX236	Alum. Steering Tube	G36201	Flange Hex Head Screw FH4x10		
MX237	Alum. Steering Post	G36202	Ball Studs B5.8xM3x14		
MX238	Rod End(J)B6.8	G36210	Cap Screw 4x12		
MX239	Rod End B6.8	G36211	Cap Screw 4x40		
MX240	Rod End(S)B7.8	G36212	Cap Screw 4x10		
MX241	Rod End(L)B7.8	G36221	Cap Screw 3x8		
MX242	Rod End(J)B7.8	G36226	Cap Screw 3x6		
MX243	Screw Rod M4*44	G36227	Cap Screw 3x10		
MX244	Carriers	G36229	Cap Screw 3x14		
MX245	Front Upper Arms	G36233	Screw Cap3x40		
MX246	Uni. Swing Shaft (Front)	G36234	Screw Cap3x50		
MX247	Steering Linkage	G36251	Set Screw 3x4		
MX248	Hex Wheel Drivers	G36261	Set Screw 4x4		
MX250	Front Lower Suspension Arms	G36262	Set Screw 4x5		
MX251	Suspension Arm Support	G36264	Set Screw 4x12		
MX252	Joint Cup	G36271 G36274	Set Screw 5x5		
MX253	Arm Shaft	G36274 G36331	Screw Rod,M5x25 Binding Head Screw BH4x40		
MX254 MX256	Center Shaft (Front)	G36331	Binding Head Screw BH4x10		
WIAZOB	Flange Bushing (metal)	G30332	Welling Co. (4) if the Act of Control of Con		
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G36340	
G36401	
G36402	
G36501 G36511	
G36515	
G36541	
G36553	
G36561 G36562	
G36714	
G36724	
G36726	
G36791 G36792	
G36801	
G36802	
G36810 G36901	
G36902	
G36903	
G36905	
G70349-20 G70369-18	
G70302	
G70306	
G70309	
G73902 G73914	
G70429	
GX61	
FF068	
FF072 SP16	
SP23	
SP32	

G36340
G36402 G36501
G36511 G36515
G36541 G36553
G36561 G36562
G36714
G36726
G36792 G36801
G36802 G36810
G36901 G36902
G36903
G70349-2 G70369-1
G70302 G70306
G70309 G73902
G73914
G70429 GX61
FF068 FF072
SP16 SP23 SP32
SP32
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Pai	rts List	
Tunne	d Parts	
MXS03	Factory Race CF Shock Tower (Front)	
MXS05	Factory Race CF Shock Tower (Rear)	
MXS06	Factory Race CF Center Diff. Brace	
MXS07	Factory Race CF Upper Plate	
MXS08	Factory Race CF Steering Brace	
MXS17 MXS18	Steel Vented Clutch Bell (13T) Steel Vented Clutch Bell (14T)	
MXS19	Steel Vented Clutch Bell (15T)	
MXS25	Wheelbase Off-Set 3mm	
MXS26	CNC Factory Race Center Brace	
MXS27	CNC Factory Race Upper Plate	
MXS34	Wheelbase Off-Set 2mm,4mm	
MXS35	Wheelbase Off-Set 1mm,5mm	
MXS53	CNC Chassis	
MXS54	CNC Front Shock Tower	
MXS55	CNC Steering Linkage	
MXS56	CNC Front Lower Arm Brace-Rear	
MXS57	CNC Front Upper Plate	
MXS58	CNC Rear Wheel Hub	
MXS59	CNC Center Diff Frame	
MXS60	CNC Center Diff Brace	
MXS61	CNC Anti-squat Plate 1 degrees	
MXS62	CNC Anti-squat Plate 2degrees	
MXS63	CNC Anti-squat Plate 3 degrees	
MXS65	CNC Steering Knuckles	
MXS66	CNC Front Upper Arm Brace-Rear	
MXS67	CNC Bell Crank Upper	
MXS68	CNC Carrier-19degrees	
MXS69 MXS70	CNC Toe in Plate 3 degrees	
MXS71	CNC Toe-in Plate 3degrees CNC Carrier-22degrees	
MXS72	Uni. Driven Shaft	
MXS73	Uni. Swing Shaft-Front	
MXS74	Uni. Swing Shaft-Rear	
MXS75	Diff. Outdrivers	
MXS76	Diff. Brake Outdrivers	
MXS77	Screw Pin4x71	
MXS78	Screw Pin3x50	
MXS79	Screw Pin3x38.5	
MXS80	Tie Rod 5x56	
MXS81	Tie Rod 5x31	
MXS82	Tie Rod 5x25	
MXS85	Front Shocks	
MXS86	Shock Spring-S	
MXS87	Shock Springs-M	
MXS88	Shock Springs-H	
MXS89	Shock Pistons	
MXS90	Rear Shocks Steel Brake Disk	
MXS91 MXS93	Rear Shock Tower	
MXS93 MXS96	Uni Center Shaft (Rear)	
MXS98	CNC Chassis	ľ
MX055	Clutch Bell T13	
MX086	Shock Dust-proof Boots	
MX088	Shock Oil Ring Spacer	
MX278	Shock Alumium Parts (Front)	
MX349	Shock Alumium Parts (Rear)	
G36112	Screw 4x12	
G36908	W 4x11	
G73917	Ball Bearing 6x10x3	
G73919	Flange Bearing #5	

Upgrade Parts



MXS57 CNC Front Upper Plate



MXS17 Steel Vented Clutch Bell (13T) MXS18 Steel Vented Clutch Bell (14T) MXS19 Steel Vented Clutch Bell (15T)



MXS68 CNC Carrier-19 degrees MXS71 CNC Carrier-22 degrees



MXS55 CNC Steering Linkage



MXS75 Diff. Outdrivers



MXS90 Rear Shocks



MXS69 CNC Toe-in Plate 2.5degrees MXS70 CNC Toe-in Plate 3degrees



MXS60 CNC Center Diff Brace



MXS06 CF Factoty Race Center Diff Brace



MXS07 CF Factory Race Upper Plate-F



MXS03 CF Factory Race Shock Tower-F MXS05 CF Factory Race Shock Tower-R





MXS20 CNC Alum. 3P Clutch Shoes GSS16 CNC Clutch Shoes (Heavy)



MXS97 CNC Rear Chassis Brace MXS52 CNC Front Chassis Brace



MXS61 CNC Anti-squat Plate 1 degrees MXS62 CNC Anti-squat Plate 2 degrees MXS63 CNC Anti-squat Plate 3 degrees



MXS56 CNC Front Lower Arm Brace-Rear



MXS08 CF Factory Race Steering Brace



MXS58 CNC Rear Wheel Hub



MXS54 CNC Front Shock Tower



MXS59 CNC Center Diff Frame



MXS94 Uni. Swing Shaft-Front MXS95 Uni. Swing Shaft-Rear MXS96 Uni. Driven Shaft-Front



MXS67 CNC Bell Crank Upper



MXS76 Diff. Brake Outdrivers