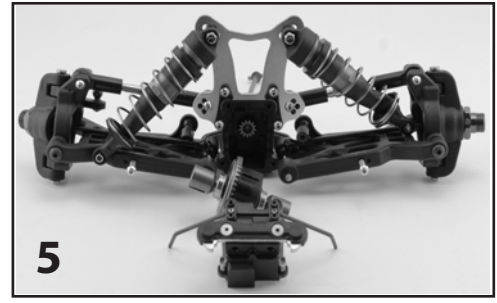
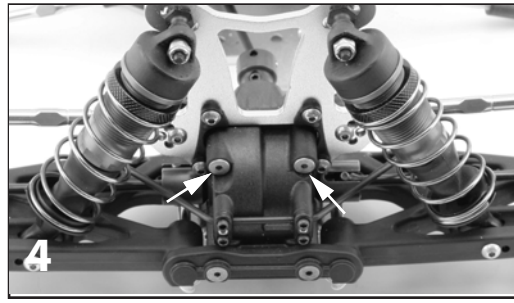
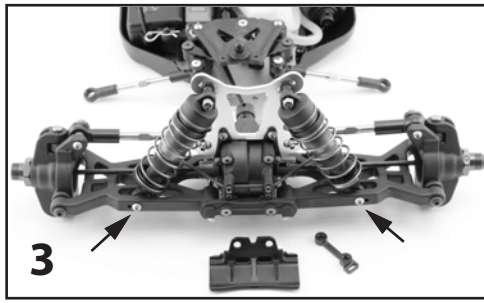


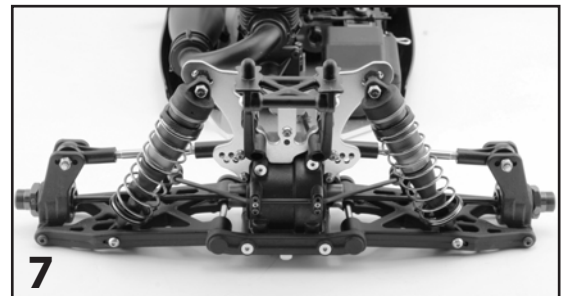
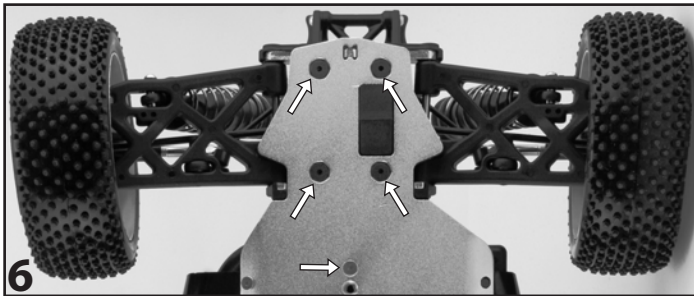
### Removing The Front Differential - continued

Remove the 5-40 shock screws from the suspension arms. (fig. 3) Loosen the 5-40 set screws on the sway bar ball ends. Remove the two 5-40 flathead screws from the front of the diff cover (fig. 4), and remove the two 5-40 caphead screws from the bottom of the diff cover. Slide the diff cover off of the bulkhead and remove the diff. (fig. 5)

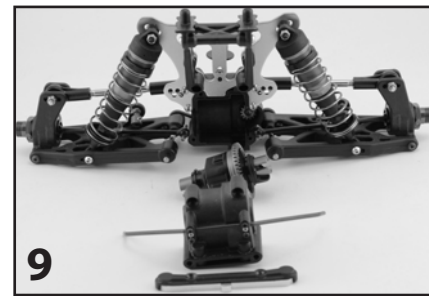
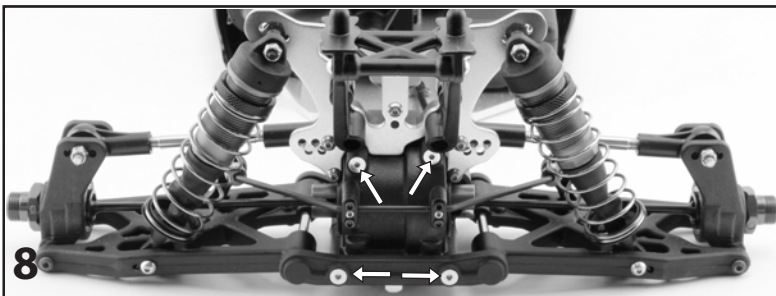


### Removing The Rear Differential

To remove the rear differential, the "rear clip" of your 8IGHT RTR has to be removed. Remove four 8-32 flathead screws from the chassis and the 5-40 flathead screw from the brace (fig. 6). Lift the rear clip up and off of the chassis (fig. 7).



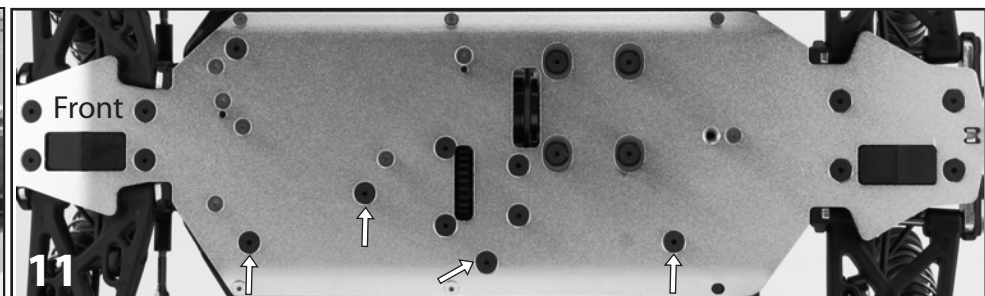
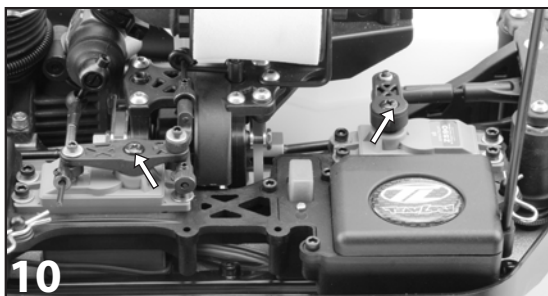
Loosen the 5-40 setscrews on the sway bar ball ends and remove the ball ends from the sway bar. Remove four 5-40 flathead screws from the rear clip (fig. 8). Slide the pivot support and rear diff cover off of the bulkhead and remove the diff (fig. 9).



### Removing The Center Differential

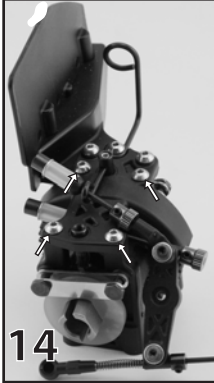
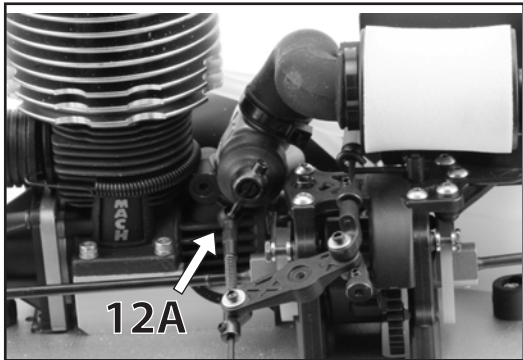
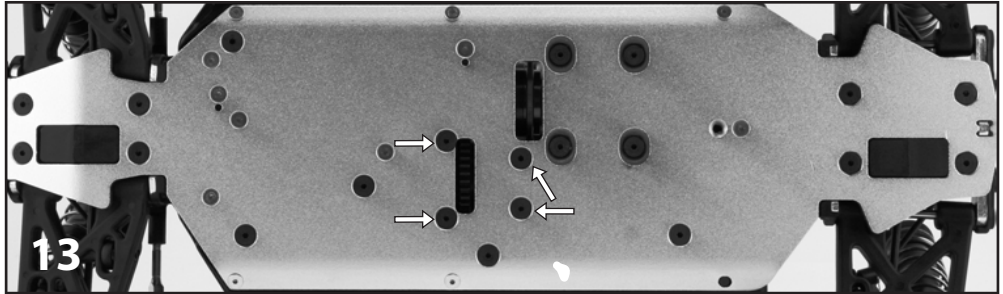
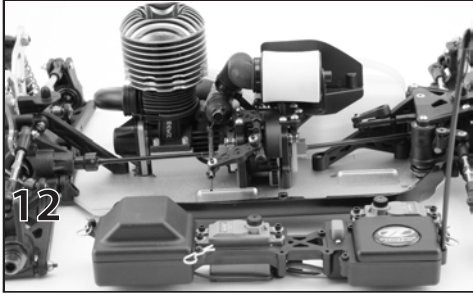
To remove the center differential, the radio tray on your 8IGHT RTR has to be removed.

- Turn on the transmitter and receiver.
- Note the position of the throttle and steering servo horns. This is important so you know where to position the servo horns during re-assembly.
- Remove the 3mm Phillips head machine screw, (fine threads), from the steering servo and the 3mm self tapping screw, (coarse threads), from the throttle servo, (fig. 10). Remove the servo horns leaving the inserts on the servos. Turn the transmitter and receiver off.
- Remove the four 8-32 x 3/8" flathead screws from the radio tray, (fig. 11).



## Removing The Center Differential - continued

- Remove the radio tray from the chassis, (fig. 12).
- Pop the ball end off of the carburetor slide, fig. (12A)
- Remove four 8-32 x 1/2" flathead screws from the center differential housing, (fig. 13), and remove the center diff from the chassis.
- Remove four 5-50 x 3/8" button head screws from the center top brace, (fig. 14).
- Slide the front and rear brake rotor assemblies off of the center diff, (fig. 15). NOTE: There are two different size brake discs. The large disc is in the front brake assembly and the small disc is in the rear brake assembly.



### Diff Service - Refer to exploded views on page 8.

- Remove the four 3mm flat head screws from the ring gear allowing it to be removed (use the 5/64 allen wrench).
- Inspect the ring and pinion gears for wear - replace if necessary.
- Remove the cross shafts and bevel gears from the carrier.
- Clean and inspect all parts - replace as needed.
- Check all ball bearings. Clean or replace as necessary.
- Lube all shafts and gears with LOSA3066 assembly grease and reassemble.
- Load cross shafts with gears into the carrier with extra grease. Apply the diff seal gasket to the carrier and reinstall ring gear.
- Lube ring and pinion and with grease (LOSA #3066), and reassemble diff into diff housing.
- Grease the edges of the gear cases. This will ensure a dust free seal.
- Reinstall into chassis

### For Viscous Differential

Instead of grease you can use Silicone fluid in the differential for a limited slip feel as desired for racing. Simply fill the diff up to the top of the gears before replacing the ring gear. (Be sure to reinstall the rubber gasket). You may have to replace the o-rings on the outdrives at the same time you change to this type of differential if the old ones are worn. Team Losi recommends 5000cs. fluid for the front diff, 7000cs. fluid for the center diff, and 2000cs. fluid for the rear diff.

#### TEAM LOSI SILICONE DIFF FLUID

A5278 - 2000 cs.

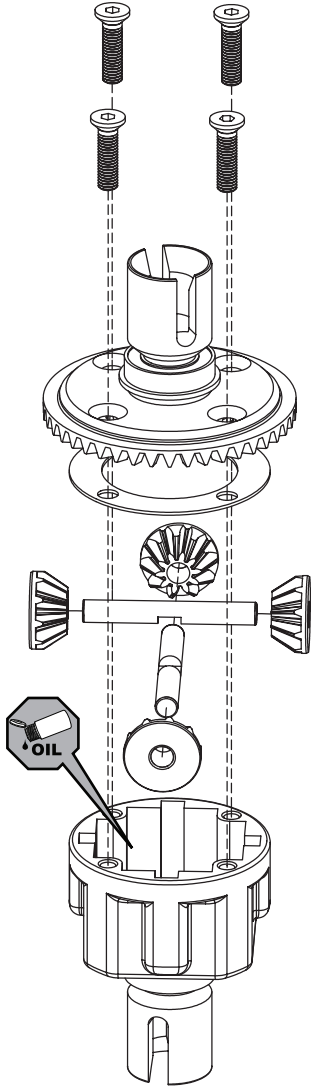
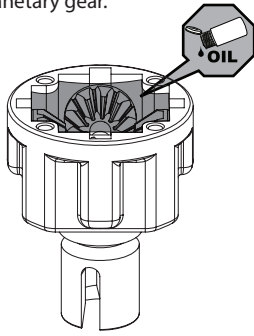
A5280 - 5000 cs.

A5281 - 7000 cs.

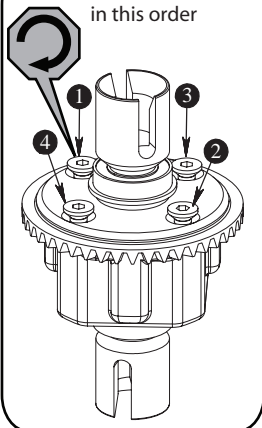
# Front, Rear and Center Differential Exploded Views

## Front & Rear Differentials

Fill with 5000cs. oil (front) or 2000cs. oil (rear) just above the planetary gear.

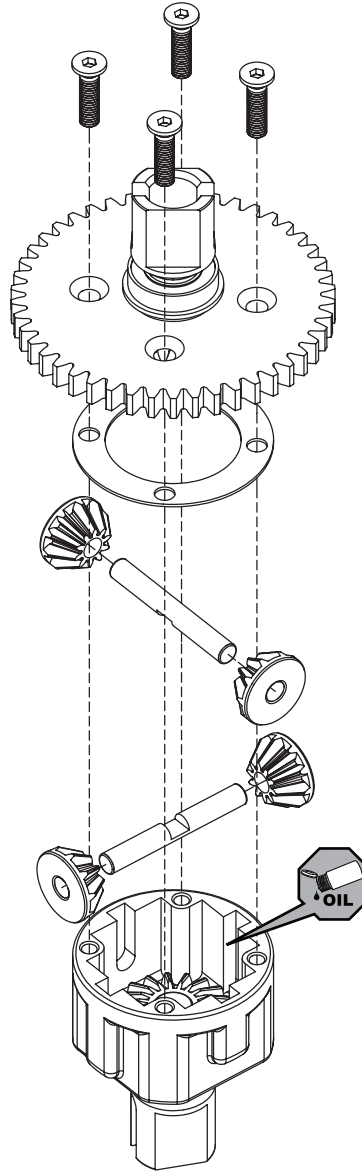
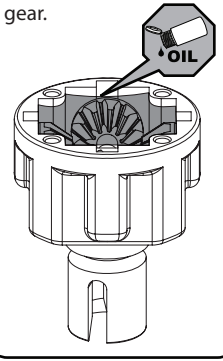


Tighten the diff screws in this order

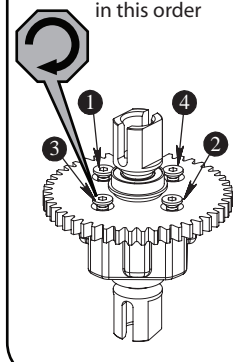


## Center Differential

Fill with 7000cs. oil just above the planetary gear.



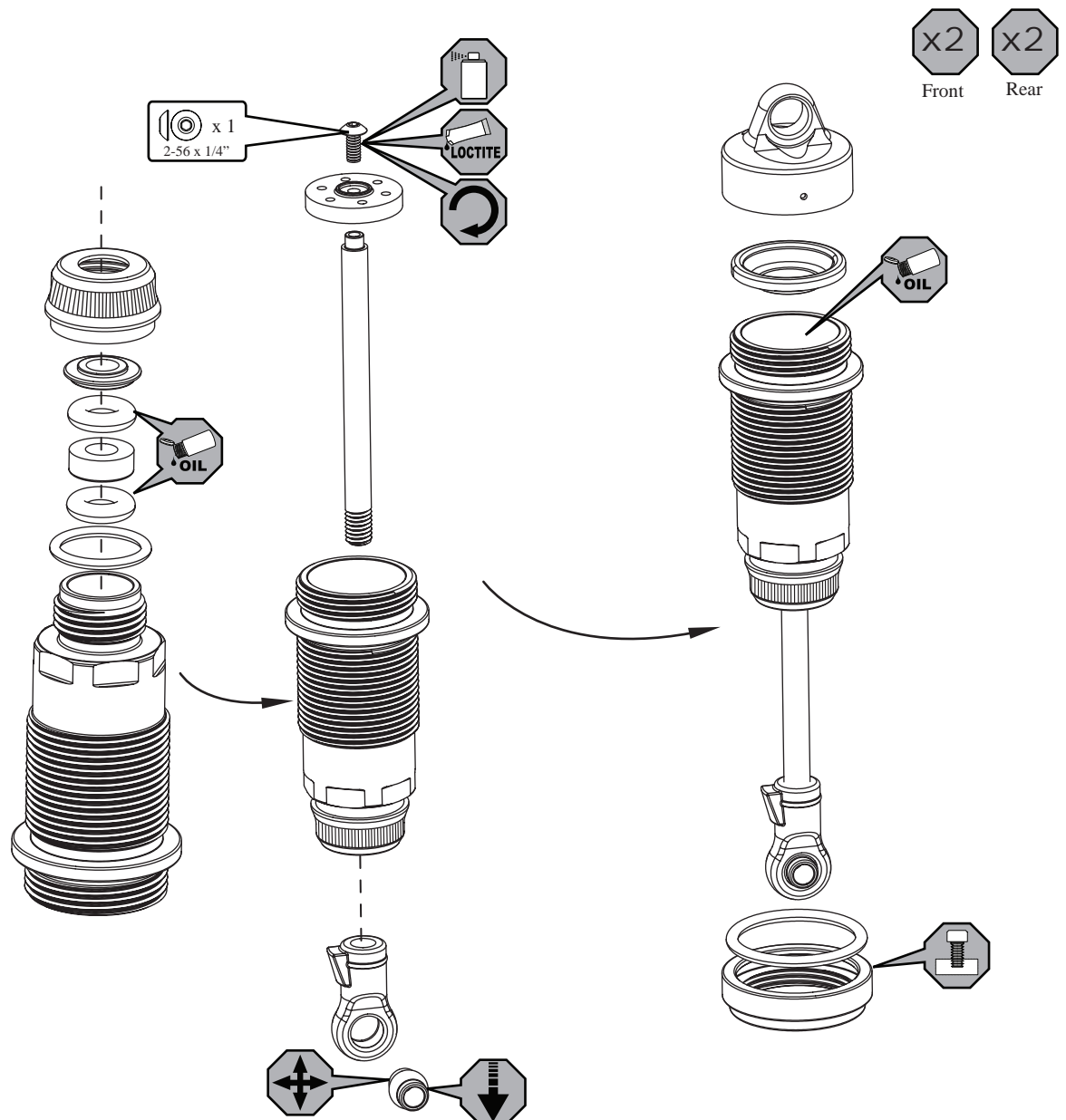
Tighten the diff screws in this order





# Rebuilding/Refilling the Shocks

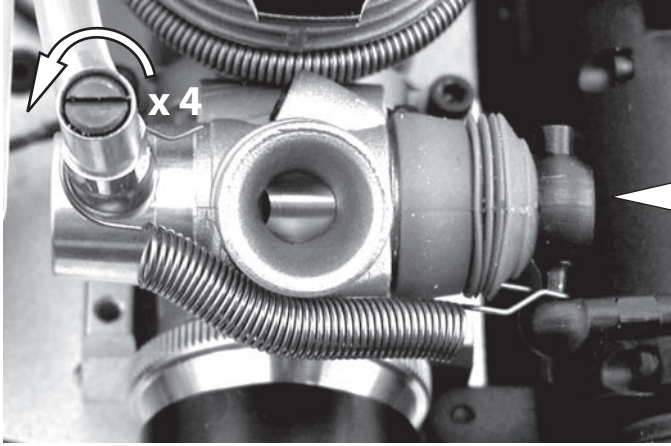
- Clean the 2-56 x 1/4" button head screw and apply loctite to the threads.
- Install the #55 shock piston using the 2-56 x 1/4" button screw into the shock shaft with a .050" allen wrench.
- Place a drop of Shock Oil into the bottom of the Shock Body to lubricate the Shock Seals.
- Thread the shock shaft into the shock end using pliers. Use caution when threading the shock shaft ends onto the shafts. Avoid gouging or scratching the shock shaft while gripping the shock shaft with pliers by placing the edge of a towel over the shaft, then gripping the portion of the shaft covered by the towel. This method will work very well to protect the shock shafts from damage.
- Ensure the shaft is fully extended when filling the shock.
- Fill the shock body with 35wt. shock oil until the oil is to the top of the body.
- "Work" the shock shaft up and down a few times. This will release the air bubbles trapped beneath the piston. Place the filled shock, in the upright position, off to the side for a few minutes until the air bubbles escape from the oil.
- Once all the air bubbles are out of the oil, gently place the shock bladder onto the shock as shown. Some oil should "bleed" from the shock.
- Screw the shock cap onto the body until some resistance is felt.
- Slowly push the shock shaft up. This will bleed excess oil from the shock.
- Tighten the cap all the way down using the shock tools included in your kit.
- Move the shock shaft up and down. The shaft should be easy to push up into the body of the shock. If increased pressure is felt towards the top, there is too much oil in the shock. Loosen the shock cap and "bleed" the shock as done previously.
- Make sure each pair (front/rear) shocks have the same rebound and compression. This is checked by holding one shock in each hand horizontally and pushing them together by the shock end. Watch carefully to ensure that both compress evenly. Now release both shocks and again watch carefully as they should rebound the same.



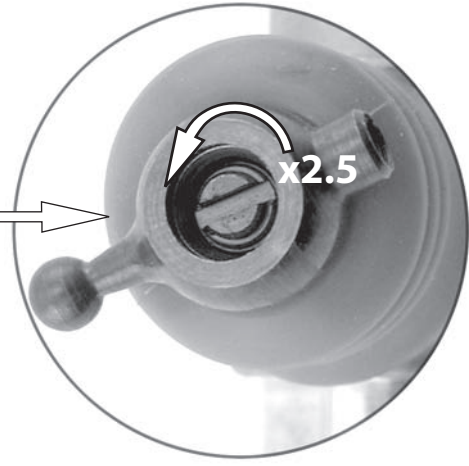
# Quick Reference Guide

## Initial Factory Settings

### Engine

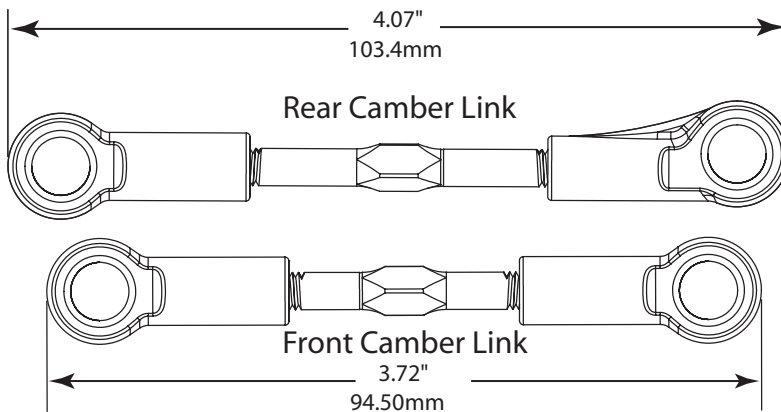


Hi-Speed Needle - 4 turns out



Low-Speed Needle 2.5 turns out

### Camber Links

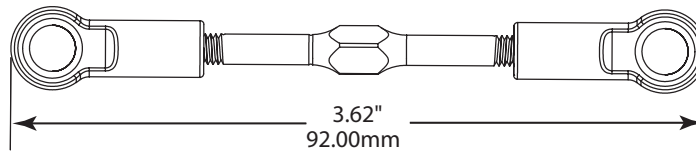


### Shocks



Team Losi 35wt  
Shock Oil  
(LOSA5225)

### Steering Tie Rods



# Trouble shooting Chart

## Problem

## Things To Check

## Remedy

Engine won't start.....	Out of fuel Spoiled or improper fuel Glow plug not lighting Glow igniter not charged Engine overheating Engine flooded Air cleaner blocked Exhaust blocked	Check/Replace Glow plug Charge/change battery Let cool - see "Testing the Temperature" Clean & reoil aircleaner
Engine won't turn over.....	Engine is flooded Engine seized	See "About Glow Plugs"
Engine starts then stalls.....	Idle speed set too low Glow plug is fouled/weak Air bubbles in fuel line Engine is overheated Insufficient fuel tank pressure/blockage	See "Engine Tuning" See "About Glow Plugs" Check for split/hole in fuel line See "Testing the Temperature" Clear pressure line
Engine performing poorly.....	Hi-Speed fuel mixture is too rich Engine overheating Leaking glow plug Carburetor dirty or blocked Fuel bad or contaminated Clutch slipping Bound up drive-train Engine worn out	See "Engine Tuning"  Replace glow plug  Try fresh fuel Clean/Adjust/Repair Check for binds in drive-train Rebuild
Engine overheats.....	Hi-Speed fuel mixture is too lean Low-Speed fuel mixture too lean Spoiled or improper fuel Cooling air is being blocked Excessive load on the engine	See "Understanding Rich and Lean"  Clean head fins Check for binds
Engine hesitates or stumbles.....	Engine overheated Hi-Speed mixture too lean Low-Speed mixture too rich Air bubbles in fuel line Glow plug fouled	See "Engine Tuning"  Check fuel line for holes Change glow plug
Engine stalls instantly when throttle is fully opened from idle.....	Glow plug fouled Hi-Speed mixture too rich Low-Speed mixture too lean	Change glow plug See "Engine Tuning"
Engine stalls while driving around turns.....	Fuel level is low Idle speed set too low	Add Fuel Increase Idle speed
Engine stalls while idling.....	Low-Speed mixture too rich Low-Speed mixture too lean Idle speed too low Clutch shoes dragging Clutch spring broken Clutch bearings failed Engine worn out	See "Engine Tuning"  Increase idle speed Check for broken clutch springs  Check/Clean/Replace Rebuild