



S&W Race Cars and Components, Inc.

11 Mennonite Church Road
Spring City, PA 19475

TECH & INFORMATION: 610-948-7303

ORDERS: 1-800-523-3353

OFFICE FAX: 610-948-7342

E-Z INFO FAX 610-792-1234

CAUTION!!! - *The most important requirement for a successful installation of this, or any, S&W chassis component is that you take your time and use good common sense. Check & recheck all measurements before cutting or welding. If you have any questions, before or during the installation - STOP - and call our tech line at 610-948-7303 and we will gladly explain in more detail any step in the installation.*

Please read complete instructions thoroughly before beginning! **Installation Instructions for 20-607 Lateral Engine Limiters**

This kit contains chrome moly tubing which will require the use of a TIG (Heli-arc) welder for proper installation. Please read all instructions carefully before beginning!

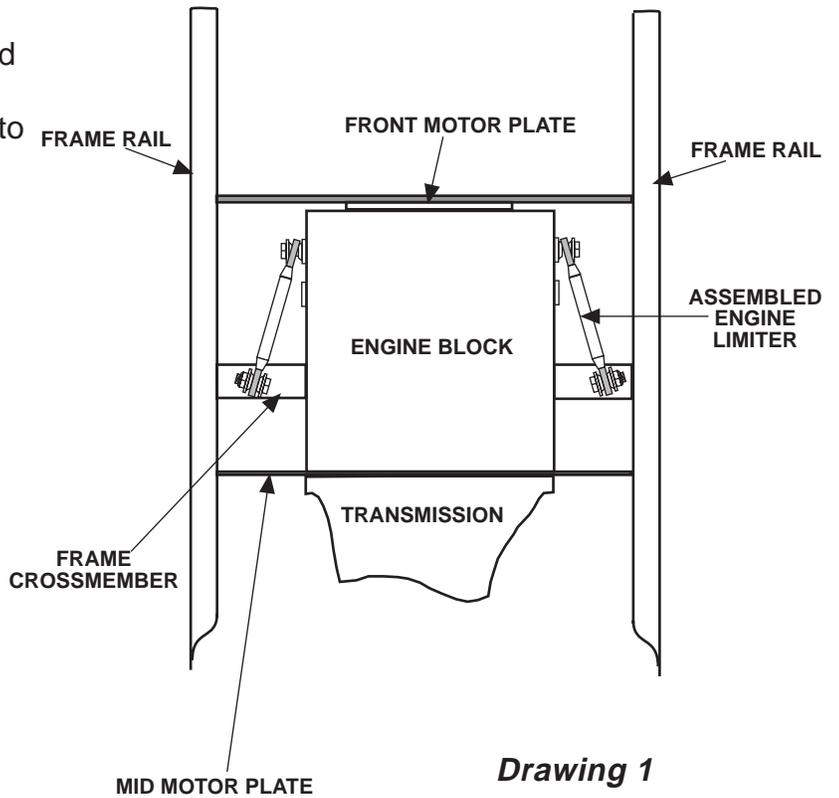
Lateral engine limiters are to be used in conjunction with an aluminum front motor plate and a mid engine mount. The front motor plate and mid engine mount will keep the engine from moving side to side but do not provide sufficient support to prevent front to rear movement during hard acceleration. S&W lateral engine limiters are designed to provide the support needed to prevent this front to rear movement. The preferred way to mount the limiters is behind the motor as shown in drawing #1. On some vehicles, however, the headers or steering components may be in the way. If this is the case with your car it is acceptable to mount the limiters in front of the motor as shown in drawing #2.

For installation, please follow the steps below:

- 1) After installing the engine block, steering and headers, determine the location where the limiters are to be mounted.
- 2) Tack weld one of the right hand threaded tube ends into one end of the limiter tube. Install a right hand rod end with jam nut in the end. **See tech notes #1, 2, 3, & 4**
- 3) Install the assembled end of the limiter onto a motor mount boss with a half moon bushing on each side of the rod end. The half moon bushings will insure free movement of the rod end. **See drawing.**
- 4) Install a left hand jam nut and threaded tube end on to a left hand rod end. **See tech note #1**
- 5) Install a mounting tab and half moon bushing on each side of the rod end with the hardware provided.
- 6) Hold this rod end assembly and the limiter tube you installed in step 3 up to the frame rail or crossmember and mark it for tube length.
- 7) Remove the assembled limiter from the engine block and cut to length. *It may or may not be necessary to shorten tube depending on application.*
- 8) Remove the left hand threaded tube end from the rod end assembly and tack weld to the limiter tube.
- 9) Reinstall to rod end assembly to the limiter tube and the limiter tube to the engine block.
- 10) Again, hold the assembled limiter tube in place against the frame rail or crossmember and tack weld the frame brackets in place.
- 11) Check installation and clearances. If installation is satisfactory, remove limiter and finish weld frame brackets and limiter tube. **See tech notes #1, 2, 3, & 4**
- 12) Repeat steps 2 through 11 for installation of opposite side engine limiter.

Tech Notes

- 1) This kit contains both left and right hand threaded tube ends and rod ends. Be sure to check threads before installing to avoid thread damage
- 2) There should be no more than ten threads showing between the jam nut and the body of the rod end after final adjustments.
- 3) Do not weld tube ends with rod ends installed.
- 4) After welding tube ends it may be necessary to retap tube ends.



20-607

Universal Lateral Engine Limiters Parts List

<u>QTY</u>	<u>PART#</u>	<u>DESCRIPTION</u>
4	60-305	Frame tab
2	64-306	3/8" LHM std. rod end
2	64-106	3/8" RHM std. rod end
2	63-080	3/8" x 3/4" RH tube end
2	63-081	3/8" x 3/4" LH tube end
2	65-112	3/8" RH jam nut
2	65-113	3/8" LH jam nut
8	63-071	3/8" half moons
2	65-027	3/8"-24 x 1-3/4" G8 bolt
2	65-132	3/8"-24 Nylock nut
2	65-202	3/8" SAE flat washer
2	65-212	3/8" Lock washer
2	65-334	3/8"-16 x 1-1/2" G5 bolt
2	750x058cm	Limiter tubes
2	99-006	S&W decals

