



LAZER TECH BULLETIN

Bernheisel Race Components



To Our Valued Customers,

In an effort to improve our communication with you and thus improve your racing program we will periodically provide tech bulletins. These bulletins should address some of your most frequently asked questions. As always you are welcome to call our tech-line @ 717-865-6691 or e-mail us at lazerchassis@comcast.net

Thank You and Good Luck !

- Jim Bernheisel -

CONGRATULATIONS !!!

**Congratulations to all of our feature winners so far in '08 !
If we missed you or any of your wins please let us know.
See page # 3, this list is updated weekly on our web site.
You can e-mail us or call on Monday when you win.
Look for our winners Ad soon in major publications.**

REAR SUSPENSION



As many of you are aware Lazer Chassis traditionally has run a relatively short pan hard bar (19") with a fair amount of angle. This works extremely well on tight cornered, stop and go race tracks. To improve performance on bigger corners or momentum tracks we have come out with a new pinion plate and frame plate with extra mounting holes to utilize a 21" pan hard bar. The pinion mount cost is \$ 77.00 and the frame mount is \$ 159.22. To update your pan hard bar you simply need a new rod, cost is \$ 15.95. This combination allows for smoother corner transition and more consistent side bite.

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Bernheisel Race Components

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SPINDLES

An often overlooked and important aspect of dirt racing are spindles. They are an integral part of the front suspension geometry. Any damage to the spindles can adversely affect handling. Whenever you crash or even bump wheels the front spindles should be checked for straightness. We offer this service free of charge. Even something seemingly small like a bent steering arm can screw up an otherwise good race car. In addition we do not recommend repairing of spindles. Many folks try to restore a spindle by repairing or replacing steering arms. Often times the spindle body is twisted or bent resulting in a multitude of set-up and handling problems. Although it may be tempting to “save money”, check and replace your spindles as needed. It will save you hassle and dollars in the long run.

Low Friction Ball Joints

Growing in popularity is the low friction style ball joints. They allow bind free front suspension travel. We have them available from both Afco and Howe. The Afco is less expensive than the Howe, but the Howe has replaceable components. For example if you bend a ball joint you can replace just the stud, saving time and money.



Adjustable Shocks

Many brand adjustable shocks including Afco T-2 and M-2 can have clearance issues. This interference occurs between the lower control arm shock mount and the shaft end adjuster knob. The interference can damage the shock as well as cause suspension bind. To correct this condition simply grind approximately 1/16” to 1/8” of material away from the top radius of the lower control arm shock mount.

Shocks

We have recently experienced big gains in handling and speed by changing the Right Front shock. We are utilizing much more rebound control, including high speed rebound. This keeps the car from “Bouncing” off the nose and allowing the Right Front to “Cut” the corner. Traction indirectly improves as well because center corner speed is much more consistent. This shock gives a great deal of feel to the front end. We have this shock available in the following format.

- Genisis– G1S73-10
- Afco Std.– BRC 22
- Afco M-2 –3270HSR





WINNERS

- 03/15/08 Selinsgrove– Troy Miller
- 03/29/08 VMS– Brian Staton
- 03/29/08 Selinsgrove– AJ Stroup
- 04/05/08 Winchester– Brian Buckler
- 04/05/08 Eastside– Kris Looney
- 04/12/08 Cumberland– Chad McClellan
- 04/12/08 Selinsgrove– Troy Miller
- 04/19/08 Winchester (shootout)- Gerald Davis
- 04/19/08 Mercer– Frank Guidace
- 04/19/08 Riviera (Nebraska)- Taylor Caldwell
- 04/19/08 Selinsgrove– Troy Miller
- 04/19/08 Eastside– Kris Looney
- 04/19/08 Dixie Land– Brian Staton
- 04/19/08 New Egypt- Todd Cray
- 04/25/08 Dog Hollow– Dave Padula
- 04/26/08 Challenger– Chad McClellan
- 04/26/08 Grandview– Mike Kellner
- 04/26/08 Dixie Land– Brian Staton
- 04/26/08 New Egypt– Billy Bauer
- 05/01/08 Bedford– Chad McClellan
- 05/02/08 Junction Motor– Kyle Berck
- 05/02/08 Tyler County– Sonny Conley
- 05/02/08 Delaware– Eric Vent
- 05/09/08 Black Bird Bend– Travis Roth
- 05/10/08 Roaring Knob– Greg Hauger
- 05/10/08 Grandview– Mike Kellner
- 05/16/08 Black Bird Bend– Heath Clausen
- 05/17/08 County Line Raceway– Damon Kotke
- 05/17/08 Delaware– Joe Warren
- 05/24/08 Mercer (Fasttrak)– Frank Guidace
- 05/24/08 Winchester– Gerald Davis
- 05/24/08 Delaware– Joe Warren
- 05/24/08 New Egypt– Rob Ormsbee
- 05/24/08 Selinsgrove– AJ Stroup
- 05/25/08 Bedford– Craig Perigo
- 05/31/08 Penn Can– Dan Snyder
- 05/31/08 Penn Can– Dave Zona
- 05/31/08 Potomac– Sparky White
- 05/31/08 Boone County– Kyle Berck
- 06/01/08 Thunder Valley– Chad McClellan
- 06/06/08 Penn Can– Dan Stone
- 06/06/08 Black Bird Bend– Heath Clausen
- 06/07/08 Winchester– Brian Buckler
- 06/07/08 New Egypt– Rob Ormsbee
- 06/07/08 Clary’s– Damon Kotke
- 06/07/08 Spoon River– Brandon Freeburg
- 06/07/08 Tyler County– Sonny Conley
- 06/07/08 Ohio Valley– Larry Bond
- 06/07/08 Grandview– Mike Kellner
- 06/13/08 Dixie Land– Brian Staton
- 06/13/08 Skyline– Larry Bond
- 06/13/08 Potomac– Sparky White
- 06/13/08 Penn Can– Dan Stone
- 06/14/08 Winchester– Brian Buckler
- 06/14/08 Beckley– Sonny Conley
- 06/14/08 Lancaster, SC– David Yandle
- 06/14/08 Mercer– Frank Guidace
- 06/14/08 Selinsgrove– Troy Miller
- 06/15/08 I-80 Nebraska– Kyle Berck
- 06/20/08 Bedford– Chad McClellan
- 06/21/08 Grandview– Bill Henning
- 06/21/08 Roaring Knob– Dennis Perigo
- 06/27/08 Penn Can– Jeremy Randall
- 06/28/08 Susquehanna– Randy Christine
- 06/28/08 Selinsgrove– Bob Croop
- 06/28/08 County Line, NC– Damon Kotke
- 06/28/08 New Egypt– George Quinlan
- 07/04/08 Penn Can– Bud Phillips
- 07/04/08 Mid Michigan– Dean Huizenga
- 07/05/08 Marion Center– Randy Smithley
- 07/05/08 Winchester SMART– Gerald Davis
- 07/05/08 Grandview– Mike Kellner
- 07/05/08 Enid, Ok NCRA– Kyle Berck
- 07/11/08 Penn Can– Dave Zona
- 07/12/08 Hummingbird– Eric Moore
- 07/12/08 Grandview– Bill Henning
- 07/12/08 McCool Junction– Kyle Berck
- 07/12/08 Thunder Valley– Chad McClellan
- 07/13/08 I-80 Nebraska– Kyle Berck