

RaceLabZ.com

HONDA
S2000

Build Sheet Specifications

570-655-7272

Following you will find a list of basic information you will need to review in considering a Honda S2000 from our company RaceLabz. We consider this a basic build list because we pride ourselves on building what our customers want. To that end, there may be a number of items you may be interested in that are not currently listed on our build sheet. For example, Data Acquisition or special wheels you may find more appealing than ours. So feel free to read through the build fact sheet and make notes, then call us to discuss your changes.

We look forward to preparing a front running Honda S2000 racecar or track-day car for you.

- **Debris Grill for Radiator Protection**
 - o A wire mesh item that is fit in front of the radiator to prevent costly damage to your vehicle's cooling system.
 - § Option #1 flush
 - § Option #2 roll fitted
- **Radiator**
 - o After years of exhausting testing on tracks around the country, RaceLabz has found that the factory Honda S2000 radiator is adequate at best. For maximum protection when running at 100%, you may require additional cooling. Of course, you need to consult the rule book to make sure your car fits the rules.
 - § Option #1 Stock factory radiator
 - § Option #2 Larger Aluminum (Trackday Option)
- **Air Filter (RaceLabz)**
 - o To get the most out of that high revving Honda engine, RaceLabz has developed their own Air Filter assembly. More power than a K&N....even more power than the mighty Spoon Sports filter.
- **ECU Reflash Tune**
 - o RaceLabz has a special tune that really makes power. A killer combination when paired with our custom filter and exhaust items. Every one of our cars gets it...street, track or full out race.
- **Cat Back Exhaust with rotating tip (Custom RaceLabz)**
 - o Breathing makes a difference on the Honda S2000. And so does passing the stringent sound requirements on many of today's tracks. With our RaceLabz exhaust you won't have to worry about fabricating exhaust tips to make sound. Our exhaust has a multi-position exhaust outlet that allows you to easily turn the exhaust away from sound control within minutes. It's a unique design you will only find on our RaceLabz exhausts.
- **Engine Fluid (Redline)**
 - o Only one oil comes out of our shop – Redline. Plain and simple, it's the best out there and our cars come delivered with an oil pan full of it!
- **Oil Filter**
 - o Nothing special here, just a simple high volume, synthetic coated filter. Filters and helps coat the internal surfaces of the engine
- **Transmission Fluid (Redline)**
 - o Only one oil comes out of our shop – Redline. Plain and simple, it's the best out there and our cars come delivered with an oil pan full of it!
- **Differential Fluid (Custom Synthetic blend)**
 - o The differential unit in a Honda S2000 requires special attention. After severe testing, RaceLabz has found the correct blend of synthetic fluid that will hold up to the intense 400+ degree temperatures the differential will see on the track. Without this blend, your differential WILL SEE PREMATURE FAILURE.
- **Coolant (Redline)**
 - o Its not rocket science, its just the correct blend of Redline fluid in the coolant system

- **Brake Fluid (High Temperature)**
 - o RaceLabz has tested a number of different fluids under race conditions. Our technicians have the complex computer equipment to actually test the boiling point of the brake fluid after each track session. This enables RaceLabz to determine which fluid changes its characteristics least and retains the maximum protection in the braking system. Yes, this part is like rocket science!!! Don't think that's enough? Well, RaceLabz has developed a weekend system for your braking system. Its a system that enables even the least mechanical person to maximize their braking system.
- **Serpentine Belt (Custom Size)**
 - o Many sanctioning organizations allow the deletion of the air conditioning system. RaceLabz installs a special length belt that enables an Air Conditioning delete without adversely affecting the performance of the accessory drive system.
- **Throttle Body Coolant Bypass (Trackday)**
 - o A modification designed to help reduce intake charge temperatures. This modification is generally not legal for use in most sanctioning bodies.
- **Hose kit (Silicon Racelabz)**
 - o An option for adding extra protection and reliability to your race vehicle. These are direct factory replacements for your rubber hoses.
- **Spark Plugs (Spoon type)**
 - o Once again the technicians at RaceLabz have gone and maximized the power coming out of the S2000 engine.
- **Timing Transponder**
 - o AMB transponder required by most sanctioning bodies. We use a hardwired transponder – no need to worry about charging it between sessions
- **SS Brake lines**
 - o To increase the confidence behind the wheel, RaceLabz equips each S2000 with a set of custom made stainless steel brake lines. These are a DOT legal replacement.
- **Brake pads**
 - o We know our cars are fast...but we wasted no time in developing a well balanced brake pad package for the S2000 track car. Depending on your final use, RaceLabz will install a set of pads you will enjoy on the track.
- **Brake backing plate removal**
 - o To aide in the braking system of the S2000, RaceLabz removes the backing plates on each S2000. The result is simple – more air for cooling.
- **Clutch Slave modification**
 - o Unfortunately Honda engineered the S2000 with a clutch system that does not work well on the track. In order to reduce differential failures, Honda has engineered a special clutch system. RaceLabz has reverse engineered this system to optimize the performance of the S2000 on the track.
- **Flywheel**
 - o Free up horsepower and get to that redline faster. RaceLabz has several options when it comes to flywheels. Your final application will ultimately determine your flywheel application
 - § Option #1 Aluminum (Track Day)
 - § Option #2 Lightweight OEM (Touring Car)
- **Clutch**
 - o At high RPM, the clutch in a S2000 really takes a beating. RaceLabz has a clutch package that can hold up to virtually any abuse. Your final application will ultimately determine your clutch application
 - § Option #1 High strength (Track Day)
 - § Option #2 OEM style (Touring Car)
- **Rear Axles**
 - o In case you don't know, the Honda S2000 has an inherent design flaw in the rear axle assemblies. RaceLabz has developed several options to fix this problem area. Your final application will ultimately determine the axles you may decide to use.
 - § Option #1 OEM factory axles
 - § Option #2 Upgrade (OEM Stock Style replacement)
 - § Option #3 High Strength Race (OEM Stock Style replacement)

- **Tow Hooks**
 - o We hope you'll never need them, but most sanctioning bodies require them. Take your pick from hooks that pass tech to hooks you can tow a freight train with!
 - § Option #1 (Jay's Racing style)
 - § Option #2 Aircraft grade Cable
- **Air Jacks (1 rear & 2 front)**
 - o Yeah we know – overkill right? But isn't that what this racing is all about! You can choose to add a set of pneumatic air jacks to your S2000 build. They work off a simple portable tank, or an actual air compressor. A very cool option that really gets people's attention!
- **Wheels (17")**
 - o Our Spoon style wheels are light-weight and durable...not to mention they won't break the bank! Our RaceLabz wheels come in the maximum size allowed by SCCA for use in the Touring-3 class.
- **Momo Steering wheel**
 - o There's nothing sweeter than the feel of a suede MOMO steering wheel in your hands. Every one of our cars comes with a 3 spoke genuine MOMO steering wheel.
- **Quick Release for Steering Wheel release**
 - o To make it easier to get in and out of your new racecar, RaceLabz installs a multi-spline quick release mechanism. Unlike many quick release mechanisms on the market today, this multi-spline unit provides very positive steering input with minimal play.
- **Shocks**
 - o This is one of the only options we really leave up to the customer. Of course we have shock settings for whatever you decide.
 - § Option #1 Single adjustable
 - § Option #2 Double adjustable Penske brand
 - § Option #3 Triple adjustable Penske brand with remote reservoir mounts
- **Windshield Protective cover**
 - o On the track, its easy to damage your windshield. Instead of ruining a weekend, protect your investment from the beginning. Our custom windshield are completely transparent to the driver and are strong enough to protect the windshield from a direct hit.
- **Hardtop and mounts**
 - o Some sanctioning bodies require the installation of a hardtop for track use.
 - § Option #1 OEM Factory Hardtop
 - § Option #2 Aftermarket Hardtop
- **Racing Seat**
 - o This is one of the other options we leave up to the customer. If you have a favorite type seat, we will be more than happy to install it in one of our S2000 cars.
- **Racing Harness**
 - o We give no option when it comes to this item. All our cars come with a fully padded, cam-lock style, pull-up set of belts. Once you use these belts, you'll wonder why you never used them before. One of the wonderful characteristics of this harness is that it helps keep your **Hans device** in place!
- **Limited Slip**
 - o The factory differential limited slip unit is a very adequate piece. However, when it comes to true track events or wheel to wheel racing, you will need our limited slip upgrade
 - § Option #1 OEM factory
 - § Option #2 Racing upgrade
 - § Option #3 Racing Carbon Upgrade
- **Window Net**
 - o When it comes to safety, RaceLabz uses a mesh window net for ease of vision. Our mesh window nets meet SFI safety requirements while making it easy to see out the side of your car.
- **Master Kill switch**
 - o The words say it all. Add safety to your car with the addition of a kill switch.

- **Camera System**
 - o What every racer wants...to record every minute of your track-time. We sell and install Chase Cam brand camera systems.
- **Rear View Mirror**
 - o One of the most important parts of racing is keeping an eye on your competition. That's why RaceLabz pays attention to the smallest details. You have your choice of rearview mirrors
 - § Option #1 Multi panel
 - § Option #2 Convex
 - § Option #3 OEM Factory
- **Springs (Front & Rear)**
 - o After extensive testing and racing, RaceLabz has developed a spring package that optimizes the on-track performance of the S2000 within the rules of SCCA.
 - § Option #1 SCCA Touring-3 Spring package
 - § Option #2 Increased Spring rate package (Trackday Option)
- **Sway bars (Front & Rear)**
 - o Just like the springs above, after extensive testing and racing, RaceLabz has developed a sway bar package that optimizes the on-track performance of the S2000 within the rules of SCCA.
 - § Option #1 SCCA Touring-3 Sway bar package
 - § Option #2 High performance Sway bar package (Trackday Option)
- **Cool Suit**
 - o When you need that little edge on the track, especially on those extremely hot days, a cool suit is the answer. A cool suit enables a driver to race on even the hottest day without even breaking a sweat.
- **Master Cylinder covers**
 - o Protect yourself and add some style to your car. These master cylinder covers help absorb excess fluid seeping out of the master cylinder reservoirs.
- **Intake modification**
 - o If you are looking for additional power, RaceLabz has developed a high-flow intake system.
 - § Option #1 OEM Factory (SCCA T-3 class)
 - § Option #2 High-flow system
- **Exhaust manifold modification**
 - o If you are looking for additional power, RaceLabz has developed a high-flow exhaust manifold system.
 - § Option #1 OEM Factory (SCCA T-3 class)
 - § Option #2 High-flow system
- **Full SCCA Touring Cage**
 - o RaceLabz cages are all built to high standards. With a general design that is accepted across the board by virtually every sanctioning body, RaceLabz does give customers some options here. Depending on your overall use of the car, you may want to choose options that best fit your overall needs.
 - § **Door Bars**
 - Option #1 Standard Door Bars
 - o (No windows gutted doors)
 - Option #2 Track Day Door Bars
 - o (Retain windows with minimal panel cutting)
 - Option #3 Track Day Doors Bars
 - o (Removal door bars on both sides)
 - § **Rear Jack Bar**
 - This is a feature you won't find on any other cage. And once you see it and use it, you'll wonder why no other cars have it!
 - § **Front Continuation bars**
 - Driver side option
 - Passenger side option

- **Weight holders**
 - o In order to manage the weight in your car, RaceLabz has developed several strategically placed holders for weight ballast. Our RaceLabz design ensures that your ballast will not come loose and enables you maximum flexibility placing weight. Plus we throw in a few tricks that make our cars even that much better.
- **Interior Trim**
 - o RaceLabz creates a clean looking interior during the build by installing various trim panels. These panels are installed after the cage installation.
- **Fuel Port**
 - o With a general design that is accepted across the board by virtually every sanctioning body, it's exactly what you think....an easy to use fuel port that allows you to sample your fuel at the track.
- **Fire System**
 - o Let's hope you never need it! With a general design that is accepted across the board by virtually every sanctioning body, RaceLabz gives you two options for your fire suppression system.
 - § Option #1 Hand Held
 - § Option #2 Complete System
- **Trunk Release mechanism**
 - o Sounds like something insignificant....but wait until you are fully strapped in the driver seat and you need to open the trunk to have a crew member make a quick suspension adjustment. RaceLabz created a trunk mechanism that is easy to use.
- **Removal Items**
 - o During the build of your RaceLabz S2000, there are a number of items that are typically removed from the vehicle. Below is a partial list of these items. If for some reason you would like any of these to remain, certainly let us know – we will work to build the car you want.
 - § Air Bag(s) removal
 - § Door glass removal
 - § Door panel removal
 - § Stereo removal
 - § Speaker removal
 - § Audio control & Stereo volume switch
 - § A/C removal
 - § Roll hoop
 - § Driver Seat
 - § Seat Belts
 - § Trunk Carpet, etc
 - § All Key removal (except ignition)
 - § Window switches
 - § Soft top, etc
 - § Soft top switch
 - § Misc. interior trim pieces

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