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Menus

Before You Drive, Configure Your Joystick!

To Set Up Your Joystick Or Steering Wheel
From the Main menu of NASCAR® Racing 2, click on the word Options. This will take you to the controls options menu, as shown below. On the right-side, check either the Joystick/Keyboard box, or the Wheel box.

Joystick Calibration
If you are using a single joystick, click on Joystick 1 with your mouse; calibrate the x and y axis of the stick. If you’re using a steering wheel (such as the Thrustmaster Formula T2), mouse-click on Joystick 1 and steer left and right. Hit the “ENTER” key to complete calibration. Next, click on Joystick 2 and step on each foot pedal, individually, then press “ENTER.”

Set Controls
Finally, click on each control item listed under Set Controls, one at a time. Now you can assign each control item to your stick or wheel. For example, a joystick user might click Steering, then move the joystick to the left and right. NASCAR® Racing 2 will now automatically remember that left/right joystick movements control the steering. You cannot assign certain keys that the game is already using. Also, you cannot assign the same control method to two different actions; for example, you can’t make joystick button A control both braking and accelerating. If you use a joystick button for throttle control, here’s something you should know: clicking the throttle button once and holding produces no wheelspin; double-clicking and holding the throttle button creates wheelspin. For pedal users, wheelspin occurs at about 70% of full throttle.

A Quick Lap Around
Michigan International Speedway

From the Main menu, use your mouse to click on the words Quick Race.
Now, you should see the **Quick Race** menu. Click on the **Event** button that has the right-hand arrow, in the lower-right corner. As you click on this button, you’ll notice that the current race track changes. Stop clicking when you see **Michigan International Speedway**.

In the center of the **Quick Race** menu, you’ll see a setting called **Race Weekend**. Click on the pull-down icon and select **Testing**. This will give you a closed course to take your first laps on. Next, click on the word **Race** in the lower-right corner of the screen.

Now you’ll see the **Race Weekend** menu. Click on the word **Practice**, found in the lower-right corner of the screen.

Are you ready to drive a stock car at high speed? You should now be in your car, situated in your team’s pit stall. Your pit will always be the first one on pit road. At tracks that have pit lanes on front and back straights, your pit will always be located on the front straight. Enough talking, let’s go!

Give it some gas and gently steer the car down pit road. If you’re shifting your own gears, upshift when the tachometer reaches 8,000 rpms.

Take it easy leaving the pits; the transition from the flat pit lane to the 18 degree banking of turn one can be tricky.

As you round turns one and two, you should still be accelerating gradually. Keep the car in the center of the track; if you feel the car begin to lose grip, release the throttle. You shouldn’t need to do any braking at this point.
By now, you should be in fourth gear; if you aren’t, you’ve spent too much time gawking at the RV’s parked in the infield. As you approach turns three and four, you’ll need to lift off the throttle and apply a small amount of braking—*you can’t make it all the way around this track full throttle.*

If you slowed down enough, you should be able to steer the car around the banking through turn three. Stay in fourth gear, but don’t get back on the gas yet—wait until you reach the center of turns three and four. You’re now in the middle of turns three and four, and at this point, you should begin to reapply throttle. Don’t “mash the gas!” Gradually add throttle to full, over the span of about two or three seconds.

The front straightaway at Michigan has a slight arc to it. Just let the car drift naturally around the shape of the track here. Cross the start/finish line, then get ready to do it all over again. Congratulations, you’ve taken your first lap of NASCAR® Racing 2!
The Main Menu screen provides access to all of the features, cars and tracks found in NASCAR® Racing 2. Choose Quick Race to compete in a single event (no championship points awarded) or do some on-track testing at the speedway of your choice. For the ultimate challenge, click Championship to wage an entire season’s worth of stock car competition on the NASCAR circuit; who knows- maybe you’ll earn enough points to capture the coveted series title. The Multiplayer option allows you to go head-to-head via modem or direct connection with other players. Choose Driver Info to log in as a driver, enter the Paint Shop, or view stats and bios on your favorite teams and drivers. By selecting Options, you can configure your wheel or joystick and customize many of the simulation’s parameters to suit your tastes. And finally, choose Exit when you’ve finished racing and it’s time to get back to all that word processing stuff. All of these selections are explained in greater detail throughout the following pages.

Choosing Quick Race

Using your mouse, select Quick Race from the Main Menu if you want to participate in a single race event (no championship points awarded) or head to one of the official NASCAR tracks for testing. Once you have clicked here, the Quick Race Menu will appear, where you can choose tracks, sessions, realism options and many other attributes which control the simulation.

The Quick Race Menu

You can set a Quick Race up any way you want, just choose a track- from the number of laps to the weather conditions and other realism factors, the Quick Race Menu gives you total control.
Choosing A Track
Click on either of the two Event buttons to cycle forward or backward among the official NASCAR tracks. As you do, the picture and track information to the left will change accordingly. When you see the track you want, stop clicking.

Track Information
Along the left side of the Quick Race menu, you’ll see vital stats and an aerial view of the currently selected track. The date and race number in the upper left corner show you where the selected track falls within the NASCAR schedule. Some tracks host two events per year, while others stage a single race each season.

When you’ve chosen the track you want to race or test on, and selected all of your Race Options (as is explained on the following pages), click the word Race, at the bottom of the screen. This will take you to the Race Weekend menu, where you can begin driving. If you’d like to cancel everything and return to the Main menu, click on the word Return, or press the ESCape key.

Picking Your Race Options
Before you hit the track you’ve chosen, set all of the Race Options up the way you want; simply use your mouse to point and click your way through the various selections. Adjust Race Length, Opponent Strength and other parameters to your liking. Toggle on or off factors such as Yellow Flags and Random Breakdowns.

Once your Race Options are set up the way you want, click on the word Race, found in the lower right corner of the screen. This will take you to the Race Weekend menu.
Race Options

Race Length: Choose any amount, from 1% to 100% of the actual event distance. Each race is run in real time and requires a minimum length of three laps, however. Note that at some tracks which host two events of different lengths (like Charlotte), the percentage of distance used will depend upon which of the two events you select.

Number of Opponents: Try reducing the number of opponents if your computer’s frame rate is too slow, or if you wish to race with less traffic.

Opponent Strength: Adjust the overall speed of your opponents to compare with your driving abilities. If you’re a rookie driver, you may want to slow the other cars down while you learn the ropes. Seasoned veterans may desire a stronger challenge, requiring a higher opponent strength level.

Driving Mode: Arcade mode is for those who desire a less realistic rendition of NASCAR competition. Your car is less destructible, and it has more grip and braking power than in real life. Also, the computer opponents will drive according to the player’s level. If you are winning by a large margin, computer cars will speed up in an attempt to catch you. If you are driving at the back of the pack, computer opponents will slow down to offer you a chance to catch them. By contrast, Simulation mode offers a highly-detailed version of NASCAR competition. Opponent strengths and characteristics, weather, car handling and many other factors affect the outcome of each event.

Entry List: Select the list of drivers you’d like to race against. Available entry lists include those shipped with NASCAR® Racing 2, and those you may create using the Driver Info utilities. You can create and store as many entry lists as you wish.

Race Weekend Type: Choose Instant to skip preliminary rounds and jump straight to the race. You’ll start at the back of the grid, with all realism settings in effect. Select Full if you’d like to “trade a little paint” in practice, compete for a NASCAR pole position in qualifying, and then go racing. Click on Testing if you’d like to “shake the car down” at the selected track. In Testing mode, you have the opportunity to drive on a closed course (no other cars on the track). This is an excellent way to tweak car setups and hone driving skills without the bother of traffic.

Yellow Flags: Toggles caution flags on or off. If yellow flags are off, be advised that accidents may still occur; you’ll just have to drive around the
wreckage at high speed. With yellow flags turned on, expect caution periods to last between 2-4 laps, depending upon how much carnage has occurred.

**Pace Lap:** Toggles the opening pace lap on or off. With the pace lap setting off, the green flag is waved the moment you begin the race session. With the pace lap setting on, the field will drive one lap at pace speed around the track before the green flag is waved. This gives drivers a final opportunity to look over the track, warm up the tires and prepare to go really fast. Here's some advice, though: while on the pace lap, if you see someone you know (like your mom, boss or friend) in the grandstands don’t wave- it would be embarrassing to spin out before the race goes green!

**Random Breakdowns:** These may be toggled on or off. When activated, breakdowns may occur randomly to your car, based on actual NASCAR statistics for such hard luck. When disabled, your car cannot suffer random failures of any sort, though it is still susceptible to damage suffered by abuse or accidents. Random breakdowns are always capable of affecting computer opponents, regardless of this setting.

**Damage:** This may be toggled on or off. When this is turned On, your car is capable of suffering damage to the bodywork, engine and wheels due to impact. Contact with other vehicles, walls or trackside structures could result in various degrees of realistic body damage, depending upon the severity of the impact. Minor damage could be repaired in the pits by your crew although a reduction in the performance of your car may linger throughout the race. Major damage could greatly reduce the effectiveness of your race car, or possibly disable it completely, forcing an early end to your race day. When damage is turned Off, your car is indestructible when it comes to impacts. However, the tires are still susceptible to wear and must be replaced periodically, and the engine can still fail if overrevved excessively.

**Weather:** Choosing Random weather creates realistic, variant conditions, based on the time of year and average climate for the track's region. Choose Constant weather if you want to pick the race weekend weather yourself. Set the Temperature, Wind Direction and Wind Speed. Cooler weather generally creates more downforce, producing faster lap times. Hotter air is less dense, robbing cars of needed downforce. Hotter conditions also can cause tires to wear out quicker, thanks to the blistering pavement.
Are you ready to drive? Once you've chosen the track and other options found on the *Quick Race* menu (as previously described), click on the word **Race**, located in the lower right-hand corner. This takes you to the **Race Weekend** menu, where you can tune the car for better performance, view instant replays or head for the cockpit. Remember, you get to the **Race Weekend** menu by choosing **Quick Race** from the **Main** menu, then clicking on the word **Race**, found in the lower right corner of the **Quick Race** menu.

Now that you're here, you'll notice that the **Race Weekend** menu has two bars on it. The bar that runs across the top of your screen is the **Status** bar. It contains information about the event you are currently involved in: the current event, session and current weather conditions are all displayed along the **Status** bar. At the bottom of your screen you'll notice the **Command** bar. The **Command** bar contains items that you can select and/or change with your mouse. Change the current session, view replays or click on the currently displayed **Session** to get behind the wheel of your stock car. While on the track, press the **“ESCape”** key at anytime to return to this menu. Just click on the current **Session** once again to resume the action on the track right where you left off.
The Status Bar

You cannot directly change the items found on the Status bar; the information shown here helps confirm the current track status. You can change the weather on the Quick Race menu, while the current session can be advanced by clicking on the words Next Session, found in the lower-right corner.

The Command Bar

Click on any of the items found along the Command bar to perform an action. Click on the word Practice to head for the cockpit of your race car. Click on the words Next Session to advance forward, such as moving from the Practice session to the Qualifying session. Click on the word Return to jump back to the previous (Quick Race) menu.
Here’s a quick review on how to get to your car from the Main menu:

From the Main menu, use your mouse to click on the words Quick Race. This brings you to the Quick Race menu.

The Quick Race menu allows you to choose a track, select Realism options and configure other items. Once you’re ready to move on to the Race Weekend menu, click on the word Race, found in the lower right corner.

The Race Weekend menu allows you to change the session you are currently participating in, tweak your car in the garage, view replays and other options. When you’re ready to go to the car, click on the word Practice, located in the lower-right corner on the screen.

Now you’ll find yourself seated at the wheel of your stock car, on pit road. Apply some throttle, steer clear of the other pits and have some fun!
**RACE WEEKEND COMMAND BAR ITEMS:**

**Current Session:** Click on this word (Practice, Qualify, Race, etc.) to head for the cockpit of your stock car. Whatever selections you’ve made up to this point concerning session, realism, driving aids or other items are in effect while you drive the car.

**Next Session:** Each mouse click here toggles forward to the next race session. The order of sessions is Practice, Qualifying, Warm Up, and Race. Once you’ve stepped forward to the next session, you cannot back up to the previous session.

**Car Setup:** This selection allows you to roll your car into the team’s garage stall for adjustments. Inside the garage, you can adjust the stiffness of each shock absorber, the rear spoiler angle, the cross weight and many other items. During Practice sessions, it is common to spend more time in the garage than on the track, while you attempt to “dial your car in.”

For complete information on Car Setup, refer to the chapter entitled, “Taming Those Horses!”

**Replay:** Click here to view instant replay footage from a variety of cars and camera angles. You can also save or retrieve your favorite highlight clips from on-track escapades. It is important to note that you will not lose your current position on the track or in the standings while you view replays. When you return to the cockpit, you’ll pick up the live action wherever you left off.

**Standings:** If you’d like to check the current status of the entire field, choose Standings. You can view and print a rundown that includes car positions, interval behind the leader and mechanical status. If a car has retired from competition prematurely, you’ll see the reason the car dropped out listed here. You can also save or review results from past races at the current track. The word Standings will appear greyed out until the Practice Session has begun.

**Options:** Click here to return to the Race Options menu. This allows you the opportunity to change these settings without leaving the current Race Session type.

**Accelerate Time:** This feature allows you to view the remainder of the current race quickly. Because your car is permanently removed from the race when you select Accelerate Time, it is strongly recommended that you only use this feature when your car has suffered too much damage to continue in the race.

**Return:** Click here to abort the current event and return to the Quick Race menu, where you may select a new track/event.
Inside Your Stock Car

Your NASCAR series stock car is equipped with custom high performance instrumentation and a special race driver’s rearview mirror. Details of your cockpit are described below:
Fuel Gauge

Fuel Gauge: The needle on this gauge indicates how much fuel your car has remaining. When the needle points all the way to the right (about 4 o’clock), the tank is filled completely (22 U.S. Gallons). The warning light located at the upper-right corner of the fuel gauge will begin blinking when there are three gallons left in the tank. Time to pit for another tankful!

Oil Pressure Gauge: Normal operating pressure is 80 psi. Over-revving the engine will cause the warning light at the upper-right corner of the oil pressure gauge to blink, as pressure rises. Continuous over-revving can lead to premature engine failure. If the oil pressure warning light blinks excessively, you should either upshift sooner, or readjust gear ratios.

Tachometer: The largest instrument on the dash, this dial indicates current engine rpm’s. The tachometer digits are read in thousandths (1,000 to 10,000 rpms). NASCAR stock cars do not have speedometers in them, so the driver relies on the tach for engine speed information. The driver also reads the tach to know when to shift gears. Generally, shifts should be made when the needle reaches between 7,000 and 8,000 rpms. The needle points straight upward (12 o’clock) when the rpms are at 8,000. This is where it should be, particularly at the end of straightaways; this indicates optimum engine performance. Constantly revving the motor beyond 9,000 rpms can lead to engine failure. If your oil pressure warning light blinks constantly while in fourth gear at high speed, you probably need to readjust gear ratios.

Oil Temperature: This instrument provides the driver with the current temperature of the engine oil. Normal readings are in the 200 degree range (Fahrenheit). Should the oil temperature rise significantly higher than optimum, this means the engine is running too hot. Remedies for this situation include readjusting gear ratios, raising the rear spoiler angle, or altering your driving style to take it easier on
the motor. A high oil temperature condition could also be the result of damage, or a random problem with one of the car’s critical systems.

**Water Temperature:** Normal water temperature readings should be in the 175-200 degree range (Fahrenheit). Water temperature can increase by abusing the engine, a random failure of some sort, damaging the front bodywork (which can restrict airflow into the radiator) or by drafting for extended periods of time. If the water temperature climbs abnormally high, you can slow down or pull into the pits for repairs. Eventually, your engine may blow if the temperature remains in the critical range.
Additional Cockpit Features

**NASCAR-Approved Rearview Mirror**

The three-way rearview mirror provides important information about what’s going on behind you. Cars located on your left-rear and side will appear in the left panel of the mirror; cars located on your right-rear and side will appear in the right panel of the mirror, while cars in the center panel of the mirror are directly behind you.

**Speed & Gear S**

Real stock cars do not have speedometers in them, but if you’d like to view the current speed and gear status of your race car, press the “S” key. This toggles on or off a digital display that shows the current mph and selected gear of the car. This may be handy for novice drivers or those in testing, though it is available anytime.

*Tip: Use the speed/gear display during practice or testing to learn how many rpms equal the pit road speed limit under your current setup.*
Meet Your Spotter

Any driver that has ever won a NASCAR event will be quick to point out that it takes a total team effort. The Spotter is often likened to an assistant football coach stationed in the press box during a game; he’s the eyes and ears for the driver, providing critical up-to-the-minute info about what’s happening on the track.

Getting Info From Your Spotter

If your computer is equipped with a compatible sound card, you can hear the voice of your spotter as he keeps you abreast of what’s happening on the track. First, from the Main menu, get to the Sound menu by choosing Options, then Sound. On the Sound menu, click on the Speech box to audibly hear your spotter’s comments. If you do not have a sound card installed, click on the Text box located on the Sound menu in order to view the spotter’s comments on-screen instead.
Tip: You can also access the Sound menu while racing. From the Race Weekend menu, choose Options, then Sound. Choose Speech or Text to accommodate your system’s sound capabilities. You only need to do this once; NASCAR® Racing 2 will automatically save the most recent selections when you exit the Sound menu.

Listen to what your spotter tells you. He’ll keep you informed of everything that’s happening out on the track—whether other cars have spun, stalled or crashed, your spotter can see the entire track, so he knows about it almost immediately. Below are some comments you’re likely to hear your spotter utter while you’re in the car:

**Keep Digging**: Drive harder and try to improve your position.

**Car Low**: An opponent’s car is located beside you, on the inside.

**Clear Low**: The opponent is no longer beside you on the inside.

**Car High**: An opponent’s car is located beside you, on the outside.

**Clear High**: The opponent is no longer beside you on the outside.

**The (Number) Car Is A Lap Down**: You are approaching an opponent who is a lap behind you.

**The (Total Number Of) Cars Ahead Of You Are All Racing For Position**: The pack of cars in front of you are all on the lead lap, ahead of you in the running order.

**Let’s Go! Race Back To The Line!**: When the caution flag is waved, you can continue to try to overtake opponents at full race speed (and they’ll definitely try to pass you) until your car crosses the start/finish line, completing the current lap; once you’ve completed the lap the caution appeared on, you must slow down and maintain your position.

**You Are On The Point**: You’ve taken the lead, Fireball!
Train Your Spotter Right

No doubt, having a spotter’s help is invaluable, but for experienced racers, too much of the guy’s advice may seem more like having a backseat driver. Fortunately, NASCAR® Racing 2 lets you decide how much spotter info you receive as you drive.

From the Options/Sound menu, click on the Spotter Level pull-down icon. Choose Full if you want to hear constant chatter about everything from your spotter. Select Novice to hear fewer details about traffic. Choose Experienced to only hear the important stuff, such as flags that are being waved, and when you’re clear of other cars. Select Professional when you really don’t need the spotter interrupting your concentration. He’ll leave you alone to watch pit road speeds and other cars yourself. Click Off if you want to shut that guy up and handle it all yourself.

By adjusting the Speech slider, you can control the volume of the spotter’s voice, relative to other sounds. Values between 0-50% adjust the sound level of the spotter’s voice, with 50% being max volume. Values over 50% decrease all other sounds, collectively, so the spotters voice is heard above everything else.
Using The In-Car Radio

In addition to receiving information from your spotter, you can communicate with your pit crew via the in-car radio. According to NASCAR rules, each car is allowed to carry a two-way radio onboard. The driver’s microphone is activated with a push button mounted on the steering wheel; NASCAR® Racing 2 simulates this effect by using function keys on your keyboard. By pressing a function key, you can receive current car setup information, order adjustments you’d like made during the next pit stop, or view critical performance information.

For instance, press the “F1” key on your keyboard as you drive. You’ll see a box appear superimposed over the right-side of your dashboard. This box contains pit board information, such as the current lap number, number of laps remaining, the speed of your most recent lap, and interval data concerning the car immediately ahead of or behind you (in this case, you’re on the fifth lap of a thirty-two lap race; you completed the fourth lap in just over 46 seconds. You trail car #81 by one lap, while you lead car #10 by a lap.
Hit the “F2” radio key to view current session standings as you drive. In Practice sessions, this is a handy way to compare your efforts with the rest of the field prior to qualifying; use this key in Race sessions to find out who you’ve got to hunt down, and who is pursuing you.

Use the Greater Than (“>”) and Less Than (“<”) keys to scroll up or down the list, through the entire field. Note that this list is constantly updated as you drive, so if you want to read the whole thing, you should probably wait for a caution lap or hit the Pause (“P”) key.

By pressing the “ENTER” key, you can toggle this display to show you seven primary cars- the three ahead of you on the track, your car, and the three cars immediately behind you on the track. Drivers shown in red are one or more laps ahead of you in the standings, drivers displayed in green are at least one lap behind you, while drivers shown in white are on the same lap that you are. Your name is shown in yellow.
**Fuel Information**

Hit the “F3” radio key to receive a comprehensive fuel mileage report from your crew. The amount of fuel remaining in the tank, projected laps before you run out of fuel, and current fuel economy (mpg) are each displayed. In addition, you can adjust the “Fill To” value to the amount of gas you’d like put in the tank during your next pit stop, using the Greater Than (“>”) or Less Than (“<”) keys. Your crew chief will conservatively calculate the amount of fuel you need on each pit stop. The “Fill To” display shows you how much fuel your crew chief has ordered the crew to pour in during the next pit stop.

**View Current Tire Temperatures**

You can view the current temperatures of each of your stock car’s tires, while you drive. Outer, Middle and Inner temps of each tire are displayed when you press the “F4” radio key. Temperatures displayed in white text are within the “safe operating” range. Mildly high temps are shown in yellow text, while red digits indicate dangerously hot temperature readings. Looking at the display as it appears superimposed over your dashboard, note that the tire temperatures are arranged as if you were viewing your car from a camera high above. The left-front temps are in the upper left corner, the right-rear temps are in the lower right, and so on. Unless you are on a traffic-free straightaway, you should probably use the Pause (“P”) key prior to scoping out the temp readings.
Specify Tire Changes

Using the “F5” key, you can display a box that allows you to relay tire changing instructions to your pit crew. Any changes you specify will be carried out during the next pit stop. Deliver tire pressure adjustments and decide which tires, if any, get changed. By default, you will always receive four fresh tires when you pit, so you only need to radio ahead if you’d like otherwise. A bar graph beneath each tire shows you the current condition of the tire. Green bars indicate fresh rubber, yellow bars mean excessive wear, and short red bars alert you that you’d better pit for new tires quickly.

Select each tire with the “SPACE” bar. Use the Greater Than (“>”) and Less Than (“<”) keys to raise or lower the air pressures in the new tires that will be put on. A checkmark appears beneath each tire that will be changed. Use the “ENTER” key to specify tire changes as follows: Press once to remove all checkmarks, thus telling your crew not to change any tires; press a second time to select left side changes only; press “ENTER” a third time to order right side tire changes only; press “ENTER” a fourth time to reinstate all checkmarks, thus ordering every tire changed.
Specify Cross Weight Adjustments

If your car is in need of a quick chassis wedge adjustment, use the “F6” radio key to inform the crew ahead of time. Specify the amount of cross weight you’d like to add or remove from the car; one of your crew members will perform the adjustment during your next pit stop.

Use the Greater Than (“>”) and Less Than (“<”) keys to increase or decrease the amount of wedge desired. If your car feels too loose out on the track, increasing the wedge setting in the pit may correct the problem. However, keep in mind that as you increase the wedge setting, your right-front tire will also undergo more stress as a result.

Specify Rear Spoiler Adjustments

Using the “F7” radio key, you can instruct your crew to change the rear spoiler angle during the next pit stop. Use the Greater Than (“>”) and Less Than (“<”) keys to select the angle you want the spoiler adjusted to; using a mallet, a crew member will bend the spoiler to the desired angle (must be between 40 and 70 degrees).

If you need more top speed, you may want the angle reduced; if you need more control, you may want the spoiler angle raised. Try not to call for drastic spoiler adjustments, as this could have an unpredictable effect on your car’s handling; instead, work with five-degree increments.
Switch on the “F9” radio key to see a list of what duties your crew will perform during the next pit stop. If you gave specific instructions regarding tire changes, fuel or other adjustments, this information will be confirmed in the lower right corner, superimposed over the dashboard. If your car has received damage to the bodywork, you will see the phrase Repair Damage displayed. Use the “ENTER” key to toggle this phrase to Do Not Repair Damage if you don’t want the crew to fix the wreckage. While you are in the pits during a yellow flag period, your spotter will keep you up-to-date regarding the pace car’s whereabouts. If the pace car is about to lap you, you can press the “F9” key to display Pit Status, and hit the “ENTER” key to immediately cease repairs. Your crew will then release the jack so you can beat the pace car across the start/finish line without being lapped. You may then continue repairs during the next pit stop.
Arcade Driving Views

By pressing the “F10” key, you can drive from an Arcade perspective, instead of the realistic cockpit view. The first time you press “F10,” you leave the cockpit in favor of an angle overhead and to the rear of your car. A second press of the “F10” key widens the angle for better viewing. Press “F10” a third time to return to the traditional cockpit view.

You can use change viewpoints with the “F10” key at any time while driving. Using an Arcade View, you will still receive some instrument data, superimposed on the screen, but you will not be able to see secondary gauges, such as Water Temperature.
Following The Pace Car

On the Quick Race menu, there is a checkbox that enables/disables the prerace Pace Lap. With the Pace Lap on, the entire field will drive one warmup lap before mashing the gas and going racing. During the pace lap, you must keep your car in double-file formation. If you pass an opponent, your spotter will try to help get you back into the appropriate position; if the green flag waves and you’ve committed an illegal pass, you’ll be penalized with a black flag.

Likewise, during caution periods (yellow flags) you must remain in position; the field must follow the pace car single-file. You can enable/disable yellow flags on the Quick Race menu. Note that if you disable the Pace Lap and Yellow Flags, the pace car won’t appear at all.

Getting A Tow

If your car is too banged up to make it back to the pits, you can press “ALT-I” to call for the tow truck. You must come to a complete stop before requesting a tow. Your car will be towed back to your pit at a very slow speed (hey- it’s a tow truck for crying out loud!); if the engine is still in good working order, your crew will repair the car so you can get back onto the track as soon as possible.

Your spotter will inform you if you are receiving towing service. If the car’s engine is destroyed, you will automatically be towed back to your pit, but your car cannot be fixed in time to resume the current race. You do have the option, however, of clicking on the Accelerate Time feature (on the Race Weekend menu) to view the outcome of the race. Or, press “SHIFT-R” to restart the current session.
“Wow! Can We See That Again?”

How To View Instant Replays

NASCAR® Racing 2 lets you relive your greatest driving exploits, thanks to a powerful replay system. Numerous television cameras are stationed around each track, covering the action from every angle imaginable. In addition, each race car has wireless micro-cameras mounted onboard for added viewing enjoyment.

You can view replay footage from any of the camera angles provided; in addition, you can see all of these camera angles from any car on the track. This gives you over 300 possible replay angles to enjoy, at any single moment!

Replays consist of video “frames,” up to thirty of these per second on the fastest computers. *The length of each replay depends upon how much RAM your computer has.* Using a VCR-like interface, you can review daring passes, fantastic spins and heroic victories...

Pass the popcorn, will ya?”

To momentarily pause the live action and view replay footage, press the “ESCape” key. Don’t worry about losing your current track position—when you return to the cockpit, you’ll pick up right where you left off.

When you see the Race Weekend menu, click on the word Replay. This will take you to the replay viewer, where you can watch replays from the current session, or load a “classic video clip from the archives.”

**VCR Controls**

These operate just like a VCR. Pause, Rewind or Fast-Forward your replays to the spot you’d like to view. Click on the Select Camera pull-down icon to change viewing angles. Click either Car button at the bottom center to move to another driver’s perspective on the action.
**VCR Controls**

- **Click here to skip your footage to the very end.**
- **Click here to view your footage from the very beginning.**
- **Click and hold to quickly fast-forward. Short, single mouse clicks step the footage forward, one frame at a time.**
- **Click and hold to quickly rewind. Short, single mouse clicks step the footage backward, one frame at a time.**
- **Click to toggle between real-time playback and freeze-frame. If the footage is moving, click here to freeze the action for a closer look. If the footage is paused, you can “roll tape” with a single mouse click.**
**VCR Keyboard Shortcuts**

**Rewind**
You can rewind the tape with the Less Than key.

**Fast-Forward**
You can fast-forward the tape with the Greater Than key.

**Play/Pause**
You can start or stop the replay tape with the SPACE bar.
Checking Out The Best Camera Angle

Click on the pull-down icon next to the word Camera to see a list of available camera angles. Drag the selector downward to scroll through the list (there are more camera angles than can be displayed on the list at one time). Choose a new camera angle, and the replay footage will automatically switch to it. You can also use the keyboard shortcut to change cameras; press the “C” key to step forward to the next camera angle, or press “SHIFT-C” to step backward through the list.

The TV1 and TV2 angles represent a network-quality telecast; it’s as if a TV Director were cutting from camera to camera, in order to follow the selected car. Note that every car on the track is constantly being filmed by all of these camera angles, so “switch around” and enjoy the view!

Selecting Vehicles

In addition to viewing multiple camera angles covering your car, you can also view all of these same angles as they cover every other car on the track. Just click on either of the Car buttons to advance to the next car ahead, or back to the next car behind. Keep clicking one of the Car buttons to cycle through the entire field of cars. You can also use the keyboard shortcut key to save time. Press the “V” key to advance forward through the field of cars. Press “SHIFT-V” to step backward through the field of cars.

Finding Wrecks

Click on either Incident button to skip forward or backward to the next wreck. You can also press “I” to move forward to the next incident, or “SHIFT-I” to step back to the previous incident. These buttons are inactive if no accidents currently exist on the replay tape.

Big Screen TV

Click on the Full Screen button to get a bigger view of your replays. All VCR controls, track data and other buttons are removed from the screen while you get the big picture. When you want to return to the normal replay window, press “ESCAPE.”
Saving, Loading And Editing Replays

You can **Save** replays of your greatest NASCAR moments to disk in order to impress your friends and settle bets. Just click on the word **Save**, found on the **Command** bar along the bottom of the replay screen. You should be aware of the fact that replays can be quite large in file size; a few of these on your hard drive can gobble up several megabytes faster than you can say, “Ricky Rudd.” For this reason, you might want to chop out all the stuff you don’t want to keep in your replay file; that way, your highlights will only have the crashes, passes or dashes you want your friends to see over and over. To edit a replay, cue the footage to the in-point, that is, the place you want your edited replay to begin. Click on the word **Cut** found on the **Command** bar; now, cue the tape to the out-point - the video frame you want your replay to end on. Once again, click on the word **Cut**. You will be prompted for a filename to save the edited version under. To recall a previously saved replay, click on the word **Load**. A list of all replays saved at the currently selected track will appear. Simply click on the file you want to review.
Competing For The NASCAR Season Championship

There is only one thing each driver wants more than a race - the NASCAR series championship. The road to the season title begins in February, and ends in November. At the conclusion of each race during the year, points are awarded to the top forty drivers, based upon their individual finish in that event.

The winner of each race is awarded 175 NASCAR series points, while the fortieth-place finisher only picks up 43 points. In addition, five bonus points are awarded to each driver who leads at least one lap, while five more bonus points are awarded to the single driver who lead the most laps in that event. At the end of the season, the driver possessing the highest number of total points is crowned the NASCAR Champion. In addition to a one-million dollar bonus, this driver can expect life-long endorsement opportunities, excellent race sponsorship and the admiration of every other driver in stock car racing.

Launching A Bid For The Championship

From the Main menu, click on the word Championship to compete in a NASCAR championship season. This will open the Championship menu, where you can begin a New Season, Continue an existing Season, Delete a Season no longer needed, or Return to the Main menu.

When you begin a new season, you’ll compete at all of the tracks that are currently installed on your computer, in order of their actual occurrence on the NASCAR series schedule. For example, you cannot skip ahead to the first Talladega race, without first competing at Atlanta and the other events that are held earlier in the season. Night races at Bristol, Charlotte and Richmond will appear in their actual order on the circuit, as well.
Each event consists of Practice, Qualifying, Warm Up and Race sessions. At the conclusion of each event, points are awarded based on order of finish. The table on the following page shows how the points are distributed.

**NASCAR Winston Cup Points System**

<table>
<thead>
<tr>
<th>Place</th>
<th>Points</th>
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<tbody>
<tr>
<td>1st</td>
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Before you start a Championship Season, set all of the Realism and gameplay Options to your liking. Once the season starts, these cannot be changed. For example, if you set the Race Length to 30%, and the Opponent Strength to 95% prior to the first race, all races staged during that season will be 30% in length, with opponents competing at a 95% skill level.

You may save as many seasons as you’d like; so if things aren’t going well during one season, skip ahead to the next one by creating a New Season. Click on Delete Season to remove past seasons from memory—something a lot of drivers wish they could do!
Beating computer opponents may satisfy some drivers, but others may want to go up against the fresh meat of real live human competition. To race your friends, click on the word Multiplayer, found on the Main menu.

With Multiplayer capability, you can race a friend head-to-head using the Direct Connect method, that is, two computers linked together side-by-side with a null modem cable. Or, you can use your Modem to establish a race with a friend situated at a remote location, even across the country! NASCAR® Racing 2 lets you do either one.

Use the Multiplayer menu to configure and establish your connection. Choose the method of the connection (Modem, Direct Connect or Network Play), and whether you’ll be the Dialer or the Answerer. When you’ve determined these choices, click on the word Setup to prepare your computer for the type of connection you’ll use.

Once you’ve properly selected and configured your connection, click on the word Connect if you’re the Dialer. Your modem will dial the other
computer and establish the connection. If you are the Answerer, wait for your modem’s phone line to ring; when it does, click on the word Connect to establish the link with your friend.

To get to the Modem Setup screen, click on the word Setup, found in the lower-right corner of the Multiplayer menu. Here, you’re able to enter all of the information about your modem; you can also save and load phonebook entries for easy recall- no fumbling around for your friend’s phone number.

**Other Important Modem Notes**

When two players are racing head-to-head, all settings concerning the modem (port speed, stop bits, parity, etc.) must be identical on both player’s machines (with the exception of the modem brand and model).

Consult your modem’s documentation for a list of appropriate commands for enabling/disabling features.
Getting To Know The Opposition

Driver Info
From the Main menu, click Driver Info to access information and utilities regarding your computer opponents. From the Competitor List menu you can build and save Entry Lists, allowing you to compete against any combination of drivers you want; you can digest Info and stats on your favorite NASCAR drivers, as well as ones that have been created from scratch; or you can enter the NASCAR® Racing 2 Paint Shop to create and customize sponsorship graphics and colors on any stock car.

Working With Entry Lists
When you click Driver Info from the Main menu, the Competitor List screen will appear. This menu allows you to put the drivers you want to race against into one handy list. Build and save as many Entry Lists as you’d like. When you’re ready to go racing, just select the existing Entry List you want to compete with - that’s all there is to it! To find out more about how all of this Entry List stuff works, just check out the following pages.

Shuffling Drivers
In the upper right corner of this screen, there is a pull-down list of all Entry Lists that exist on your system. Click on Entry List pull-down tab to reveal all of the lists that are currently available. Select the list you want to use; it now becomes the active Entry List used when you head for a track. The box on the left contains the names of all of the drivers currently in existence on your computer. To make a new Entry List, select an existing driver from within the box on the left. Next, click on the arrow icon pointing toward the right - this will move the selected driver’s name into the box on the right, thus adding that driver to the Entry List. Select a name from within the right-side box and click the left arrow icon to remove a driver from the Entry List. Use the scroll bars on either box to see all of the drivers available.

Note that only one human driver (that means you, the player) can be used in each Entry List. Each human driver’s name is preceded with an asterisk (*).
Checking The Stats
Click on the word Info, found along the bottom of the Entry List menu to run the numbers on your favorite NASCAR drivers. From here, you can also keep the look of each driver’s car current by painting their car.

The Iceman Cometh
Check out full color portraits of all your favorite drivers- Awesome Bill from Dawsonville, the Intimidator, Wonderboy, they’re all here.

Digesting Driver Info
Click on the Bio button to read about your favorite NASCAR drivers. The Stats button lets you view career totals of the selected driver. Press the Skill button to access the ratings assigned to the selected driver, for use in NASCAR® Racing 2. The Team button gives you information on the current driver’s car owner and operation. Past NASCAR Champions also have a replica of the title holder’s trophy beside their portrait. And of course, each driver’s car is displayed alongside in a 3D perspective.

Editing Drivers
Click on the driver’s Bio and type anything you want in the box. Select the Skill button and click on the ratings that are displayed, in order to edit them.

Editing Driver Ratings
To change a driver’s ratings, there is one thing to keep in mind. Aside from the obvious strengths of the ratings themselves, each rating has a low and a high value (between 100 and 900). The greater the difference between these values, the less consistent the current driver will perform. Smaller increments between these two values will produce very consistent results.

Saving Changes
Click on the word Save at the bottom of the screen to record your changes.
Graphic Details
Improving Frame Rate

To Get To The Graphics Menu
From the Main menu, choose Options, then click on the Graphics button. You can turn graphic items such as asphalt textures or skid marks on or off to suit your computer’s capabilities. You can also adjust graphic details as you drive, using keyboard hotkeys described in this section. Owners of slower computers may need to turn one or more graphic features off, in order to achieve smooth animation.

On the Graphics menu, you’ll find all of the necessary controls to achieve the “frame rate” (animation smoothness) you want. Textures are listed on the left-hand side, and may be toggled On/Off, or set to Auto. Textures that are set to Auto will toggle themselves on or off, depending upon the current frame rate.

While you are driving relatively free of traffic, you may notice that the animation is smooth. However, as you encounter heavy traffic and more grandstands, etc., the animation could become too choppy to drive. By switching certain textures to Auto mode, you can have the computer constantly manage the frame rate for you. On the right-side of the Graphics menu, you’ll see Minimum and Maximum Frame Rate settings. By adjusting the Minimum setting, you’re telling your computer when to begin turning textures off. So, with a Minimum setting of 12, your computer will begin switching off textures if the animation runs at fewer than 12 frames per second.

The Maximum Frame Rate setting tells your computer at what speed to begin turning textures back on. For example, you’ve got your Asphalt texture set to Auto, a Minimum Frame Rate setting of 12, and a Maximum setting of 24. As you drive into heavy traffic, the frame rate slows down below 12fps and the computer turns the Asphalt texture off. You still see the pavement, of course, but it’s a solid color now. You no longer see the cracks and discolorations of the roadway. As you continue driving, let’s assume you reach a point where there is very little traffic. When the frame rate reaches 24fps or better, Asphalt is switched back on by the computer. As you can see by this example, the Minimum and Maximum frame rate settings do not tell the computer how fast to run the simulation, but rather at what speeds to toggle on/off textures set to Auto.
Turn on the **Show Counter** feature to constantly display the current frame rate as you drive.

Choose the screen resolution that’s best for you. Slower machines may require 320x200 resolution in order to run smoothly. Note that this setting only affects on-track action, not game menus. You can also minimize the **Opponents Drawn** settings (how many cars you can see on the screen at once) to speed up animation.

**Improving Your Frame Rate**  
(Animation Speed)

NASCAR® Racing 2 is extremely flexible, so that you can enjoy the best frame rate possible on your machine. Below, you’ll see a handy list of the various ways you can customize the frame rate to suit your needs:

1. **Textures**: Turn some or all of them off to increase the frame rate. From the Main menu, choose options. Choose **Graphics**, then turn on/off textures as desired.

2. **Number Of Opponents**: Racing against fewer cars increases the frame rate. From the Quick Race menu, choose **Number Of Opponents**. Reduce the number as desired.

3. **Number Of Cars Drawn Onscreen**: The fewer the number of cars your computer must draw at a single time, the faster your frame rate. From the Main menu, choose **Graphics**. Adjust the number of Opponents Drawn, both **Ahead** and **Behind**.

4. **Number Of Cars Heard**: The fewer number of engines your computer must audibly recreate at one time, the faster your frame rate. From the Main menu, choose **Sound**. Adjust the **Opponents Heard** setting to the desired number.

5. **Driving Resolution**: Use the 320x200 setting instead of 640x480. This only affects track action, not game menus.
**Graphic Keyboard Hotkeys**

1. Asphalt/Concrete/Grass
2. Sky Textures
3. Object Textures (except crowd)
4. Crowd / Empty Grandstand
5. Wall/Armco Textures
6. Horizon Textures
7. Car Decals
8. Road Lines/Skid Marks
9. Trackside Trees
10. Trackside Billboards
11. People (excluding pit crews)
12. Trackside Fencing
13. Infield Objects
14. Infield Vehicles (RV’s)

Use the hotkeys listed above to adjust graphic details as you drive.
Using these hotkeys overrides any selections you’ve made via the **Graphics** menu.
Painting Your Stock Car

With the NASCAR® Racing 2 Paint Shop, you have the power to create many different sets of cars and save each car under any filename you wish. Use the Paint Shop to make all of the current season’s paint schemes or to create your own radical designs; you can make and store various collections of opponent cars, or several different paint schemes for your own car. These cars can then be loaded from within NASCAR® Racing 2, or swapped with friends via disk or modem.

Since you create Entry Lists from your pool of existing drivers for each race or season, you might wish to create some of the commemorative paint schemes for your own events.

Entering The Paint Shop
To access the Paint Shop, choose Driver Info from the NASCAR® Racing 2 Main menu...

From the Competitor List, select the driver of the car you wish to paint, or create one from scratch by clicking on the words New Driver, found at the bottom along the Command bar.

Click on the words Paint Car, located at the bottom of the screen. This will take you to the NASCAR® Racing 2 Paint Shop.

Now, you should be in the Paint Shop; the first screen you’ll see is the Detail Shop, where you can apply decals, car numbers and other graphics to the finished product. For now, click on the words Underbody Shop found at the bottom of the screen.
Using The Underbody Shop

Use the Underbody Shop to paint the “base coat” colors of your car. If you turn Car Textures off, these base coat colors will show instead; therefore, you’ll want them to resemble your car’s overall design for consistency. Also, certain parts of your car cannot be texturized; the colors of these parts are determined with the Underbody Shop.

To add realistic shading to your car’s base coat, click your mouse button a color in the palette; now click your mouse on one of the five Autoshading buttons found on the left side of the Underbody Shop. To view your car’s design in its present state, drag the 3D Car View sliders left or right; the 3D picture of your car will rotate accordingly. The length of the rotate and tilt sliders represents one full rotation of your vehicle. Check on the Auto Rotate box to set the sample car in a continuous spin.

For accurate paint matching, use the Eyedropper (Get Color Tool) to “pick up” colors from the car’s body shown in the Workspace.

Adding Decals, Numbers And Logos

To add finishing touches to your car, click on the words Detail Shop, found along the bottom of your screen. The Detail Shop contains several handy tools to polish off your design, with virtually any design you could concoct. If you’ve used other computer-based paint programs, you’ll probably get a feel for the Detail Shop right away. If you haven’t, fear not- painting cars is easy, and you won’t have to clean any mess up when you’re done!
Using The Detail Shop Tools

The heart of the Detail Shop is the Tool Bar, found at the top of the screen. With these tools, you can add and rotate text, artwork, numbers and car body parts to your design. On the following pages, we’ll examine each of these tools and their functions.

Brush Thickness- Click on this button to reveal a pull-down menu of available brush widths. Simply choose the thickness you’d like to use.

Tool Setting- Click on this button to reveal a pull-down menu of three tool types: 1.) Blend, for complete coverage, 2.) Anti-aliasing, to remove jagged edges, or 3.) Smear, to help achieve a more natural look without involving Foreground or Background colors.

Draw Shapes- Use this tool to draw squares, rectangles and ovals. Click the right mouse button over the Shape button to reveal different shapes you can choose. Next, position the mouse cursor over the car part in the workspace where you want to start the shape. Click and hold the mouse button as you drag the shape to whatever size you desire, even across several car parts. As with other drawing tools, holding down the left button to draw the object produces a shape with the foreground color; using the right mouse button draws a shape with the currently selected background color.

Airbrush Tool- Use this tool to create spraycan effects on your car. Choose a color with either mouse button, position the cursor over the body part you want to paint, and hold the mouse button down to apply spray.

Color Selections- Click your left mouse button on the color palette to load a foreground color, which will be displayed in the left Color Selection box. Click your right mouse button on the color palette to load a background color, which will appear in the right-hand Color Selection box. When you paint, use the left mouse button to apply foreground color, or use the right mouse button to apply the selected background color.
**Clear Button** - Press this button to clear all textures off the car. Use this when you first start a new car, or want to start the whole thing over.

**Undo Button** - Click this button to Undo the most recent action taken. Click it once again to change your mind and redo the action.

**Flip and Rotate Buttons** - Click one of the Flip buttons to invert the selected item, horizontally or vertically. Click one of the Rotate buttons to spin the selection in 90-degree increments, either clockwise or counter-clockwise.

**Text Tool** - Click on this to reveal a text window. Inside the text window, you can choose from a variety of typefaces and sizes. The text will appear in the current foreground color. After you type your text, use the Flip and Rotate buttons to produce the orientation you want, then drag the selected text over the appropriate car part, and into position.

**Zoom Button** - Click this button to get in close, for fine, pixel-to-pixel work. Click on this button again to return to normal viewing size.

**Fill Tool** - Click on this tool to get the paint bucket icon. Position the icon over a car part, and click the left mouse button to fill with the foreground color. Click the right mouse button to fill with the background color.

**Get Color Tool** (Eyedropper) - Choose this tool, then position the cursor over a car part that has the color you want to "pick up." Whatever color is beneath the cursor when you click the left mouse button will be stored as the foreground color. Click the right mouse button instead to "pick up" a background color.

**Freehand Drawing Tool** - Choose a color, click on the pencil button, and start drawing! Adjust the Brush Width and Opacity with the appropriate buttons.

**Line Tool** - Choose a color, click on the line tool and position the cursor over a car part where you want to start the line. Click once with the left button to draw with the foreground color, once with the right to use the background color. Drag the line in the direction you want, then click a second time to release the cursor and keep the line. Like the Freehand Drawing Tool, you can adjust the Brush Width and Opacity levels with the appropriate buttons.
Decal Stamp Tool- Right-click on this button to reveal a window of available decals. Select the decal you want to apply, and position it over the car part where you want to stamp it. Use the Flip and Rotate buttons to adjust the decal's orientation. Click the left mouse button to affix the decal in place.

Select Tool (Marquis)- With this tool, click the left mouse button, and drag the marquis over the car part or area you want to copy into memory. To recall the selected graphic, click on the Stamp tool with the left mouse button.

Detail Shop Drawing Tips

You can draw matching lines across several car parts at once with the Line Tool. For example, start a line at the top, on the car’s right-side in the parts window. Drag the line straight down, so that it crosses the car’s roof and left-side. Use the Detail Shop tools to draw gas caps, hood pins, air ducts and other bodywork features on your car.
Painting Uniforms

Click on the words Suit Shop, at the bottom of the screen to give your pit crew a fashion look that keeps the sponsors happy. Choose a color from the palette, and click on one of the Autoshade buttons to apply it to the uniform. Continue through each item until the crew is properly adorned.

Tip: Try to use three different shades of the same color for each item listed. This will give you professional results almost every time.
THE CIRCUIT GUIDE

Atlanta Motor Speedway

*Tale Of The Tape:*
Length: 1.522 Miles
Banking: 24 Degrees
Qualifying Record: 185.830 mph (29.485 secs.) Set November 11, 1994 by Greg Sacks
Race Average Record: 163.633 mph (500 Miles) Set November 12, 1995 by Dale Earnhardt

Atlanta Motor Speedway is located about 30 miles South of Atlanta in Hampton, Georgia. The track has been a regular stop on the NASCAR Winston Cup tour since 1960.

Computer generated results from NASCAR test sessions at Atlanta Motor Speedway reveal an amazing insight: cars going around this oval spend very little time actually traveling in a straight line. The long, sweeping turns produce high speeds and lots of action. Pit stalls are located along the length of the front straightaway, and cars generally roar through a lap on the famed speedway in less than 31 seconds.
Boasting the steepest banking on the NASCAR Winston Cup circuit, Bristol International Raceway has been offering door-to-door big league stock car racing since 1961. The track is known as the “World’s Fastest Half-Mile Speedway,” though the actual distance of the track is just over a half-a-mile.

Bristol’s racing surface is paved with concrete, while the aprons and pit roads that align both straightaways are asphalt. Bristol is the site of NASCAR’s oldest night race, and the style of competition found here places an ultimate demand on both driver and machine. Without dispute, Darrell Waltrip has the most impressive resume of victories compiled at this track: twelve in all, including seven in a row!
Charlotte Motor Speedway

*Tale Of The Tape:*
Length: 1.5 Miles  
Banking: 24 Degrees  
Qualifying Record:  
185.759 mph (29.07 secs.)  
Set October 6, 1994  
by Ward Burton  
Race Average Record:  
151.952 mph (600 Miles)  
Set May 28, 1995  
by Bobby Labonte

Concord, North Carolina is the actual home of one of NASCAR Winston Cup racing’s finest venues. Charlotte Motor Speedway, erected in 1960, features a lively schedule of night-time stock car racing action. Many of the NASCAR Winston Cup teams are based out of the Charlotte area, making the track a convenient and popular testing ground throughout the year.

Charlotte Motor Speedway is a fan-friendly track in many respects. The seating provides an excellent view an entire track’s worth of superspeedway racing to most spectators, with ample parking and favorable climates.
Darlington Raceway

_Tale Of The Tape:_

Length: 1.366 Miles  
Banking: Turns 1 & 2 at 23 Degrees  
  Turns 3 & 4 at 25 Degrees  
Qualifying Record:  
173.797 mph (28.295 secs.)  
Set March 22, 1996  
by Ward Burton  
Race Average Record:  
139.958 mph (500 Miles)  
Set March 28, 1993  
by Dale Earnhardt  
132.703 mph (400 Miles)  
Set May 11, 1968  
by David Pearson

Known as the track “Too Tough To Tame” for its maddening shape, Darlington Raceway is the Granddaddy of all NASCAR Winston Cup superspeedways. Carved from an old cotton field on the outskirts of town, Darlington’s egg-shaped oval was constructed in 1950. Since then, it has baffled crew chiefs and drivers alike due to the track’s ever-changing groove.
Dover Downs
International Speedway

*Tale Of The Tape:*
Length: 1.0 Mile
Banking: Straights at 9 Degrees
       Turns at 24 Degrees
Qualifying Record:
154.785 mph (23.258 secs.)
Set May 31, 1996
by Jeff Gordon
Race Average Record:
125.945 mph (500 Miles)
Set September 16, 1990
by Bill Elliott

Resurfaced with concrete prior to the 1995 season, Dover Downs International Speedway became the first superspeedway in NASCAR history to forego asphalt. To drivers and fans, Dover Downs is known as the “Monster Mile” because of the track’s tight corners and steep banks.

Over 60 million people reside within 300 miles of the speedway, which is located in Dover, Delaware. The track joined the NASCAR circuit in 1969, and has been a Northeast stop on the tour ever since.
Martinsville Speedway

*Tale Of The Tape:*
Length: .526 Mile
Banking: 12 Degrees
Qualifying Record:
94.129 mph (20.117 secs.)
Set September 23, 1994
by Ted Musgrave
Race Average Record:
79.336 mph (263 Miles)
Set September 24, 1978
by Cale Yarborough

Martinsville Speedway owns the distinction of being NASCAR’s oldest sanctioned track. The speedway opened its doors in 1947 as a dirt track, and was paved with asphalt in 1955. Martinsville Speedway is nestled just outside of Martinsville, Virginia, near the North Carolina border.

The tight turns and short straightaways can wreak havoc on the sturdiest set of brake pads; the turns themselves are among the flattest found on the NASCAR Winston Cup circuit.
Michigan International Speedway

*Tale Of The Tape:*
Length: 2 Miles
Banking: Turns at 18 Degrees
Tri-Oval at 12 Degrees
Qualifying Record:
186.611 mph (38.583 secs.)
Set June 16, 1995
by Jeff Gordon
Race Average Record:
160.912 mph (400 Miles)
Set June 23, 1991
by Davey Allison

Owned by the Penske Corporation, Michigan International Speedway hosts major events for a variety of racing series, including NASCAR Winston Cup competition. Since 1969, the best stock cars in the world have rumbled around Michigan’s high banks twice a year. The groove at Michigan International Speedway is fast and wide, providing ample room for three and four-wide racing. The superspeedway is located 70 miles Southwest of Detroit in the Brooklyn/Irish Hills area of Michigan.
New Hampshire International Speedway

*Tale Of The Tape:*
Length: 1.058 Miles
Banking: 12 Degrees
Qualifying Record:
129.379 mph (29.439 secs.)
Set July 12, 1996
by Ricky Craven
Race Average Record:
107.029 mph (317.4 Miles)
Set July 9, 1995
by Jeff Gordon

One of the newer racing facilities found on the NASCAR Winston Cup circuit, New Hampshire International Speedway is a relatively flat, challenging oval. The track is located in Loudon, New Hampshire and joined the NASCAR schedule in 1993.

The general layout of the track itself is tight; fans seated along the front straightaway can clearly see the backstretch too, thanks to the near ninety degree corners. The entire pit lane stretches along the front straight, and the surface is wide and smooth.
North Carolina Motor Speedway

*Tale Of The Tape:*
Length: 1.017 Miles
Banking: Turns 1 & 2 at 22 Degrees
  
  Turns 3 & 4 at 25 Degrees
Qualifying Record:
157.620 mph (23.228 secs.)
Set February 24, 1995
by Jeff Gordon
Race Average Record:
130.748 mph (500 Miles)
Set October 25, 1992
by Kyle Petty
114.778 mph (400 Miles)
Set October 22, 1995
by Ward Burton

Perhaps better known as “The Rock,” North Carolina Motor Speedway is located on the outskirts of Rockingham, North Carolina. The track has a storied past, having joined the NASCAR Winston Cup circuit in 1965.

Another ‘D-shaped’ oval found on the NASCAR tour, Rockingham’s wide pavement and generous banking actually produce a tricky drive. This is largely due to the distinct arcs and fast straightaways that punctuate the track’s overall design.
North Wilkesboro
Speedway

Tale Of The Tape:
Length: .625 Mile
Banking: 14 Degrees
Qualifying Record:
119.016 mph (18.905 secs.)
Set April 15, 1994
by Ernie Irvan
Race Average Record:
107.360 mph (250 Miles)
Set October 5, 1992
by Geoff Bodine

Shorter and flatter than the cylinder head on a ‘51 Chevy, North Wilkesboro Speedway was built in 1947. The oldest charter member track in NASCAR racing, the famed short oval is slated to be removed from the Winston Cup schedule following the 1996 season.

North Wilkesboro Speedway is located in North Carolina 70 miles north of Charlotte. The two straights take drivers on an uphill/downhill jaunt, and an untimely visit to pit road can easily knock a competitor off the lead lap, since each orbit here takes about 20 seconds to complete.
Phoenix International Raceway

Tale Of The Tape:
Length: 1.0 Mile
Banking: Turns 1 & 2 at 11 Degrees
    Turns 3 & 4 at 9 Degrees
Qualifying Record:
130.020 mph (27.668 secs.)
Set October 27, 1995
by Bill Elliott
Race Average Record:
107.463 mph (312 Miles)
Set October 30, 1994
by Terry Labonte

Situated smack-dab in the middle of the Arizona desert, Phoenix International Raceway hosts Winston Cup action on an annual basis. And since the desert only sees 15-20 days of rain per year, drivers and teams are almost always greeted by clear skies and high temperatures (but as they say, “It’s a dry heat.”).

Phoenix International Raceway presents some unique challenges for competitors: the median climate tends to make the groove unpredictable, and the distinct track shape creates three corners that must each be driven differently.
Pocono Raceway

*Tale Of The Tape:*
Length: 2.5 Miles
Banking: Turn 1 at 14 Degrees
  Turn 2 at 8 Degrees
  Turn 3 at 6 Degrees
Qualifying Record:
  169.725 mph (53.027 secs.)
Set June 14, 1996
  by Jeff Gordon
Race Average Record:
  144.023 mph (500 Miles)
Set June 14, 1992
  by Alan Kulwicki

Some drivers think of Pocono Raceway as a road course, while others view it as a superspeedway. Still others see it as an overgrown short track. Whatever your impression, Pocono does offer a favorable surface and layout that is applauded by most Winston Cup drivers.

The track’s design incorporates three straightaways, each a different length, along with three turns, each a different banking and radius. It is the only non-road course on the NASCAR Winston Cup circuit where drivers need to shift gears on every lap. Pocono Raceway is located in the Pocono Mountain resort area of Pennsylvania, in Long Pond. The track has been a part of the NASCAR schedule since 1974.
Richmond International Raceway

*Tale Of The Tape:*
Length: .750 Mile
Banking: 14 Degrees
Qualifying Record:
124.757 mph (21.642 secs.)
Set March 3, 1995
Race Average Record:
107.709 mph (300 Miles)
Set March 7, 1993
by Davey Allison

Richmond International Raceway is an historic stop on the NASCAR Winston Cup calendar. Beginning life as a half-mile oval, the racing surface was redesigned in 1988 to become a three-quarter mile ‘D-shaped’ circuit. The track staged its first NASCAR race in 1953.

Each year, the first race held at Richmond International Raceway is run in daylight, while the Fall event is contested under the lights. The speedway is located in Virginia’s capital city, on the State Fairgrounds. The stadium-like grandstand seating provides an excellent view of the track from any angle or location.
Sears Point Raceway

Tale Of The Tape:
Length: 2.52 Miles
Type: 12-Turn Road Course
Qualifying Record:
92.524 mph (98.050 secs.)
Set May 3, 1996
by Terry Labonte
Race Average Record:
81.412 mph (187 Miles)
Set June 7, 1992
by Ernie Irvan

Added to the NASCAR Winston Cup schedule in 1989, Sears Point Raceway is twistier than any grapevine found in the surrounding NAPA Wine Valley. The course has many facets rarely found on the NASCAR circuit: right-hand turns, blind corners, rising and falling terrain, curbing, and tight hairpins.

Sears Point Raceway is difficult for drivers to master; for this reason, you might see a team or two bench their front-line drivers in favor of a road course expert. The first time you lap this track, it would be wise to do so at a very slow speed, in order to note things like brake markers and passing opportunities.
Talladega Superspeedway

*Tale Of The Tape:*
Length: 2.66 Miles
Banking: Turns at 33 Degrees
Tri-Oval at 18 Degrees
Qualifying Record:
212.809 mph (44.998 secs.)
Set April 30, 1987
by Bill Elliott
Race Average Record:
186.288 mph (500 Miles)
Set May 5, 1985
by Bill Elliott

Simply put, it’s the biggest, fastest superspeedway in the world. Talladega Superspeedway was built in 1969 by the father of NASCAR Winston Cup racing, William H. G. (Bill) France, Sr. The track was originally dubbed “Alabama International Motor Speedway” before taking on its current name.

Bill Elliott’s qualifying speed of over 212 mph represents a world record for stock car competition. Since that record was set, top speeds at Talladega have been slowed somewhat with the addition of the restrictor plate. Expect lap speeds of between 187-195 mph, with plenty of door-to-door action.
Watkins Glen International

Tale Of The Tape:
Length: 2.454 Miles
Type: 9-Turn Road Course
Qualifying Record:
120.733 mph (73.054 secs.)
Set August 9, 1996
by Dale Earnhardt
Race Average Record:
103.030 mph (220.5 Miles)
Set August 13, 1995
by Mark Martin

Opening in 1948, historic Watkins Glen International was one of the world’s prominent race courses. The track hosted Formula One action among other events, but to the surprise of many, the circuit was befelled with economic problems, and filed for bankruptcy in 1981.

However, in 1983 the late Jim Riesbeck, a Corning, Inc. executive, pursuaded the manufacturing conglomerate to purchase the track in a partnership with the International Speedway Corporation. The weed-plagued racing venue was restored, and now stands as one of the most breathtaking facilities in the United States. Watkins Glen International is located in upstate New York, fifteen miles North of Elmira. It is surrounded by lush forest land and vineyard acreage.
Basic Chassis Behavior

Before you begin turning wrenches on your race car, you may want to take a moment to review routine handling conditions that may or may not be desirable to your team. There are two terms commonly used to describe a race car’s present handling—Oversteer and Understeer.

**Oversteer:** In NASCAR circles, the word “Loose” is more commonly used to refer to oversteer. A loose car’s rear tires lose grip with the pavement sooner than the front wheels do, when the car is traveling around corners at high speed. The car begins to “fishtail” as the rear end swings toward the outside. This is caused by a lack of weight or downforce at the rear end.

**Understeer:** You’re more likely to hear the words “Pushing” or “Tight” used to describe understeer. A car that is pushing will lose grip with the pavement at the front wheels, before the rear wheels lose traction. This causes the car to drift out near the wall in corners, and feel like it won’t turn sharp enough in general. This can be caused by a lack of weight or downforce at the front end.
Entering the NASCAR Winston Cup Garage Area

Minor adjustments to your car’s chassis can be made by the crew in the pits, but you’ll need to roll your car into the team’s garage stall to make major changes. The average Joe needs an act of Congress to enter the NASCAR Winston Cup garage area, but you can get there with a single mouse click. To enter the garage, click on the words Car Setup, found along the bottom of the Race Weekend menu. This action will take you to the Setup Development Sheet, where you can load or save various car setups, as well as specify settings for the many chassis components that affect your NASCAR Winston Cup stock car’s handling and speed.

The Race Car Setup Development Sheet

NASCAR Winston Cup teams almost never race a car in the condition it arrives at the track in. The largest part of the race weekend is spent tuning, tinkering, tweaking and timing for more speed and better performance. Typically, each driver will run a preset number of practice laps, bring the car in for adjustments, then repeat the process. Even the best built cars spend more time in the garage than they do on the track during this phase. Thorough notes about each setup are kept in case the most recent adjustments need to be “thrown out the window” because they are making the car worse. Using the Setup Development Sheet, you can specify adjustments on your team’s race car, make notes about the setup, and save settings to your hard drive for later recall.

Tuning Tip: Before you begin to setup your car, load the Fast setting file on the car. Drive 10 laps, make changes to one component, drive 10 more laps, make more changes, and so on until the car performs the way you want.
Using The Setup Development Sheet

Each adjustable item on your NASCAR Winston Cup stock car is represented on the Setup Development Sheet. Related items are grouped in boxes for clarity. Click on each item you wish to change, and specify the new settings. The Command Bar along the bottom allows you to Print setups, Load previously saved setups, Save setups to disk, and Delete unwanted setups from disk.

Pointing And Clicking

You can make changes to items on the Setup Development Sheet in various ways. Click on icons next to items to increase or decrease values. In this case, clicking on the part of the arrow icon pointing upward increases the tire pressure, while clicking on the part of the arrow icon pointing downward reduces the tire pressure. You can also click directly on an item and use the flashing cursor to make changes; simply enter the new value (within the allowed range) with your keyboard.
Loading And Saving Chassis Setups

Loading Setups
You can load two setups simultaneously- one to Qualify with, and the other to Race with. Click on the pull-down icons to select the settings you want to use. These settings will be automatically loaded on your car each time you visit the current track, during the appropriate sessions- the Qualify setting will be loaded for the qualifying session, and the Race setup will be loaded when you move to the race session. You don’t have to use these- if you select None for each of these setups, then the current settings will be in effect instead.

Setup Notes
To make notes about the current settings, click on the Comments line and begin typing. To Name the current setup, click on the pull-down Setup icon and enter a new name.

Working With Chassis Setup Files
To get a “hard copy” of the current setup, click on the word Print, found at the bottom of the Setup Development Sheet. Click on the word Save to record the current setup to disk (remember to name the setup and make notes first, as explained above). Choose Load to restore the car to a previously saved setup file’s adjustments. The Delete command allows you to remove old, unwanted setup files from your hard drive.

Reading Tire Temperatures
When your car has just been rolled out onto the track, the tire temperatures will read much lower than they will while the car is being driven. As you drive the stock car at competitive speeds, however, the temperature inside each tire rises dramatically. Each racing tire’s optimum operating temperature is two-hundred twenty-five degrees Fahrenheit. If the tires are run hotter than this for extended periods of time, they tend to wear out much quicker. Generally, the hotter a tire is, the more stress it is enduring.
Tire temperature readings provide the crew with detailed information about the current setup. Therefore, you should always check the current tire temperatures before making any adjustments to the race car. NASCAR crews always take temperature readings from three locations on each tire’s racing surface: The Outer (O) edge, the Middle (M) of the tire, and the Inner (I) edge. The part of the tire that is spending the most time touching the track will be the hottest, while the part of the tire that makes the least amount of contact with the roadway will be the coolest.

If one tire’s temperature readings are significantly hotter than the others, then that tire is undergoing the most stress with the current chassis setup. You’ll probably have to soften the suspension or reduce the weight at the hotter wheels, while you’ll need to stiffen the suspension or add weight to a wheel that is too cold. As a rule of thumb, you’ll also want the outer, middle and inner temperature readings of each tire to be as close to identical as possible. If the inner edge of a tire is very hot, while the outer edge is cool, then you’ll need to make chassis adjustments to evenly distribute heat across that tire. Remember: if the temperatures read evenly all across a tire, that means the whole surface of the tire is touching the pavement, providing maximum grip and tire life.

One final note about tire temperatures—As a tire heats up, it provides better grip than a tire that is cold. A cold tire provides minimal grip; you’ll probably notice that as you log the first few laps of practice or a race, the car handles unpredictably. After a few laps, however, the tires warm up and the car’s handling gets better. This is also true following extended caution periods (the tires have time to cool significantly, and must be warmed up again), or right after your crew replaces the car’s tires during a pit stop (the new tires must be warmed up before they grip acceptably).

Tip: Remember, you can get instant tire temperature readings while on the track. Just press the “F4” key as you drive. Normal tire temps are shown in white. Tire temps that are mildly high are shown in yellow, while dangerously hot tire temps are shown in red.
Reading Tire Pressures

Tire pressures in each wheel play a key role in several areas. First, the “profile” of a tire (whether it’s “saggy” or firm) can dictate the level of performance for the whole chassis. An under-inflated tire will tend to sag in the middle (indicated by hotter temperatures on the edges), while an over-inflated tire will protrude in the center (indicated by a hotter middle temperature). Generally, more inflation produces a stiffer tire, capable of faster speeds, but sometimes less grip. Less inflation in a tire means the tire will be softer, slower (because of the increase in “rolling drag”) but perhaps grip in a more forgiving manner.

NASCAR Winston Cup stock car tires are filled with nitrogen, rather than compressed air. That is because nitrogen is more stable inside the tire. Air is 78.06% nitrogen anyway, but its humidity changes with the weather, making it an unreliable inflation source. As the humidity levels at the track change, so would the pressure readings inside your tires— and that would make for a headache powder-filled day. Nitrogen, on the other hand, is relatively inert (inactive) and remains unaffected by humidity. Your crew can fill your tires to exact levels of pressure, and know within a few psi what the pressures will read after thirty laps.

Tires are perhaps the most critical part of the equation when it comes to race car handling and performance. Each tire must be treated individually in order to enjoy maximum grip and horsepower. Before making any adjustments on your car, you should always drive some warmup laps first. Then, take temperature readings and perform a single adjustment. Drive more warmup laps, take further temperature readings and repeat the adjustment process as necessary. It is not vital that you use identical pressures in each tire; in fact, it is rare that a team would.

**Tip:** While on the track, you can radio tire pressure instructions to your crew by using the “F5” key. Pressure changes will be carried out during the next pit stop. This is one of the most common raceday handling adjustments performed on the NASCAR Winston Cup circuit.
Tire Setup Summary

Temperatures: Even temps all across each tire generally provide the best grip.

Under-inflated (Tire's Middle Temp Too Low): Causes the tire’s center to “sag,” creating more rolling drag and making the tire run hotter. This is sometimes desirable if you’re looking for an “easier-to-drive” tire with more grip.

Optimum Pressure (Even Temps): Upon warmup, if Outer, Middle and Inner temperatures match, you’ll probably enjoy maximum tire life.

Over-inflated (Tire’s Middle Temp Too High): Causes the tire’s contact surface to “crown” or “bow up” slightly. This generally increases the shock rates of the tire, while making the tire run cooler; just what you want if you like firmer, faster tires with less grip.

Note: The items mentioned above only consider adjustments to the pressure and temperature of each tire. However, many other factors affect a tire’s readings, life and consistency. Weight Distribution, Shock Stiffness, Track Temperatures, Camber Settings, Downforce, Speed and Driving Style all play a role in the performance and life of a racing tire. Consult the pages that refer to other chassis adjustments to determine the proper course of action in solving tire problems.
Fuel Information

Your NASCAR Winston Cup stock car burns a very high octane blend of gasoline. Octane ratings indicate the fuel’s ability to resist premature detonation and burn evenly inside the engine. The higher the octane rating, the more anti-knock additives found in the gasoline, a must for high-performance racing engines.

According to NASCAR rules, each car must be equipped with an approved fuel cell, which is located in the trunk of the car directly behind the rear axle. It must have a capacity of 22 U.S. gallons. The exterior of the fuel cell is made of steel; a bullet-proof bladder located inside the steel casing actually houses the fuel. The bladder is stuffed with an absorbent foam material in order to prevent the fuel from “sloshing around” during a spin.

Using the **Setup Development Sheet**, you can decide how much fuel you want in the tank during **Testing** sessions by entering the garage via the **Car Setup** option found along the bottom of the **Race Weekend** menu.

*Note: You cannot remove fuel from the car as you drive (who’d want to siphon it out, anyway?). Also, you can only choose fuel amounts during Testing sessions. All other sessions begin with a full tank of gas, with your crew chief handling fuel estimation tasks.*

While driving your stock car, you can radio ahead to your crew in order to find out the amount of fuel they’re going to pour into the tank during the next pit stop. Press the “**F3**” key to see comprehensive fuel information, including the “**Fill To**” setting, which is decided by your crew chief. In the late stages of a race, he will automatically calculate the amount of fuel you need to “splash and go,” in order to finish the event.

*Note: You cannot select the amount of fuel for Qualifying, Warm Up and Race sessions. NASCAR rules state that the tank must be topped off prior to qualifying; during all session types other than Testing, the fuel level section found on the Setup Development Sheet will appear “greyed out.”*

*Tip: Instead of using a full tank, try driving test laps with only 10-12 gallons of fuel. This will give you a better “average” of how the car behaves under the current conditions, allowing you to make more accurate decisions regarding chassis adjustments.*
Fuel Summary

**Full Tank:** The extra weight slows the car slightly, as each gallon of gasoline weighs approximately 6.8 pounds.

**Near-Empty Tank:** Your car may pick up two or three more mph in top speed, as the total gross weight of the vehicle becomes lighter. In addition, your car may develop a slight “push” (understeer).

The amount of fuel remaining is indicated by the fuel gauge, located on the dashboard. Keep in mind that during every session but Testing, it is mandatory that your car carry a full tank of gas.

Playing With Spoiler Angles

Your car is equipped with a wind-resistant spoiler mounted on the rear decklid. The spoiler extends across the decklid in two halves, with a small opening down the center, between the two sections to accommodate insertion of the body template during inspection. A crew member will tape this small opening shut just prior to the race, per NASCAR rules.

The actual height of the spoiler is dictated by NASCAR in order to achieve fair competition between the different manufacturers. The spoiler’s angle of attack, however, is up to you. The steeper the spoiler angle, the more drag and downforce that is created at the rear of your stock car. With a steep spoiler setting (higher values) your car may lose overall top speed because of the additional drag (the spoiler is striking the wind “dead on”). However, your car will also have more downforce at the rear end, a factor that often means better handling in the corners, because the rear end doesn’t become too loose. Conversely, should you choose a flatter spoiler setting (lower values), your car may gain more straightaway speed while trading off some cornering performance.

Make spoiler adjustments while in the garage by clicking on either arrow to achieve the desired setting. Higher values indicate a steeper angle, while lower values reduce the spoiler angle. You can also click on the angle itself, and use the cursor to type a new value directly in. While on the track, you can use the “F7” key to radio ahead a new angle value you’d like your crew to adjust the spoiler to during the next pit stop.
**Spoiler Summary**

**More Rear Spoiler (Higher Angle Values):** Used to eliminate a loose (oversteer) condition by improving grip at the rear wheels. Higher angles generate more downforce on the rear deck lid, because the spoiler picks up, or “catches” more wind. This also increases drag, while reducing top speed.

**Less Rear Spoiler (Lower Angle Values):** Used to improve top speed and minimize a “pushing” (understeer) condition. This is accomplished because the lower angle reduces downforce and drag on the rear deck lid, as the spoiler picks up less wind.

*Note:* More downforce can slow the car, due to the increased drag. This can also make the tires operate at higher temperatures. Less downforce can improve top speeds, but if the driver can’t maintain control with the extra mph, the tires could get chewed up by the pavement too quickly. Try to strike a happy medium between speed and handling.

**Suspension Adjustments**

Casual observers of NASCAR Winston Cup racing might think the engine deserves the most attention from the crew in the garage. However, the better part of a race team’s weekend is actually spent tweaking the suspension. Tire life and grip mean everything to the success or failure of the race team during a weekend’s action. After all, what good are seven-hundred horses under the hood if their hooves can’t get any traction as they gallop?

Chassis setups are likely to vary from track to track, and driver to driver. Trying to devise a winning chassis setup that accommodates the weather, track conditions, driving style and overall speeds can be a mind-boggling task. Fortunately, NASCAR® Racing 2 comes with some basic car setups that are developed for each track; until you become a suspension wizard yourself, it is recommended that you start by tweaking one of these setups instead of building from scratch. Remember to take it slowly, and adjust one component at a time. Check the results, then make more adjustments if necessary. Keep in mind that the weather can greatly affect your car’s performance. A chassis setup that’s unstoppable at Darlington in March may not cut the mustard in September.
Front Wheel Camber

The term camber simply refers to the upright angle at which your front wheels rest in relation to the roadway. A camber value of zero indicates that a given wheel is exactly perpendicular to the pavement; negative camber values mean that the top of the wheel is closer to the framework of the car, while positive camber values are used to describe a wheel that is further from the chassis at the top than it is at the bottom.

So why would you want your car to have any camber setting other than zero (wheels pointing straight up)? To answer this question, drive a few laps, then check the tire temperatures. You’ll probably notice that on some or all of the tires, the outer, middle and inner temp readings are uneven. This means that as your car is rolling around the track, its tire surfaces are not pinned flat against the roadway. Speedway banking, high-speed maneuvers and intense downforce all exert stress on your car’s suspension. As downforce presses down on your car, one or both of the front wheels may pitch out slightly at the bottoms (negative camber). Steep speedway banking may cause the left-side tires to overheat along the outer edges. All of these conditions can be compensated for by making camber adjustments to the front wheels.

Make camber adjustments based on tire temperature readings. Remember, camber adjustments only apply to the front wheels of your stock car. The camber diagram on the Setup Development Sheet represents a view of the front-end of your stock car. Click on either “plus” icon to add positive camber to the appropriate wheel. Click on either “minus” icon to add negative camber to the appropriate wheel. The numerical value of each adjustment is shown at the bottom of the diagram.

Camber Summary

What It’s For: Used to align the front wheels perpendicular with the roadway. Adjustments should be dictated by tire temps taken just after the car is driven, rather than temps taken while the car is at rest with cold, fresh tires.
Negative Camber: The top of the tire is closer to the car than the bottom. If the outer tire temps are too hot, use negative camber.

Positive Camber: The bottom of the tire is closer to the car than the top. If the inner tire temps are too hot, use positive camber.

Weight Lifting Exercises

As you drive your stock car, its weight shifts constantly in various directions. For instance, as you accelerate, more of the car’s weight transfers toward the rear. When you hit the brakes, the car’s weight comes forward, pressing the nose of your stock car down. When you turn left, weight shifts toward the right. When you turn right, the load transfers to the left. The greater your action, the greater the weight of the car’s reaction.

According to the NASCAR rulebook, your stock car’s total weight must be 3,500 pounds. NASCAR’s special scales not only detect your car’s total weight, but also the distribution of the car’s weight at a complete standstill. Neither side or end of the car can weigh more than 1,900 pounds. Your team has different methods of controlling the car’s weight, however, to compensate for the various load shifts.

By itself, a stock car’s weight falls short of the 3,500 pound minimum, so teams anchor blocks of lead to the chassis to make up the difference. This extra weight is distributed in a variety ways, depending upon where the team determines the extra baggage is needed.

Left-Side Bias Adjustments

On NASCAR Winston Cup oval tracks, your car spends a great deal of time enduring left turns. This means a great deal of your car’s 3,500 pounds shifts, or transfers to the right side of the car around corners. However, this can be offset by positioning more weight on the left side of the car before it’s rolled out onto the track. NASCAR rules allow either side of your car to weigh as much as 1,900 pounds; since you won’t be making any “planned” right-hand turns on ovals, you may want as much
of that extra weight on the left side as you can get. From the Setup Development Sheet, instruct your crew to move the extra weight to the right or left, as you wish. This is called a bias or ballast adjustment. It is quite common to set the left-side weight to the 1,900 pound limit. NASCAR Racing 2 prevents you from exceeding this limit—heck, if we didn’t, those NASCAR tech inspectors would be all over you!

**Left Bias Adjustment:**
Click on the arrows at either end to shift weight in the direction you’d prefer. Or, click and drag the slider to the desired position.

**Front-To-Rear Bias Adjustments**
As you accelerate, your car’s weight tends to shift toward the rear. Unbridled, this can cause the car to handle in a very loose manner as it is driven around corners at high speeds. However, if you have more weight in the front end of the car to begin with, the load that transfers toward the rear will be minimized, thus balancing the car under high speed conditions. Sometimes, it is desirable to have a car that is slightly loose to begin with; so you’d probably shift more weight toward the rear via the Setup Development Sheet. For example, large superspeedways are generally better suited for a car that is neutral, or pushes slightly. For these tracks, try setting more weight at the front of the car to begin with. Smaller, short ovals may require sharper chassis response in corners, so setting more weight at the rear of the car may prove beneficial.

**Rear Bias Adjustment:**
Click on the arrows at either end to shift weight in the direction you’d prefer. Or, click and drag the slider to the desired position.

**Cross Weight (Wedge)**
Adjusting the front-to-rear and left-to-right weight ratios provide a certain measure of chassis control. But you need a way to adjust the weight at each wheel individually, not just end-to-end. That’s where cross weight, or wedge as it is more commonly called, comes into play.
Since most of the corners on the NASCAR Winston Cup circuit are left-handers, it would be ideal to position more weight on the car’s left-rear wheel. This would help the rear wheels grip the pavement better as the car races through corners at high speeds. However, in every adjustment there are tradeoffs, and in this case, the more weight you set on the left-rear wheel, the more weight you set on the right-front, an already heavily-stressed tire.

Wedge adjustments are made by “tipping” one corner of the car up or down. As the chassis is tipped in the direction of the left-rear corner of the car, the weight at that wheel becomes greater. One of the best features of wedge adjustment is that, unlike other weight adjustments, the cross weight can be adjusted in the pits as well as the garage. So, if your car is too loose, or too tight during a race, simply use the “F6” key to radio wedge changes you’d like the crew to perform during the next pit stop.

Each wheel’s spring on your stock car has a cap on top. By exerting pressure on that cap, the spring is compressed slightly, and becomes more responsive. In turn, the car’s weight tips in the direction of the shortened spring. Wedge adjustments are performed by moving that cap up or down, compressing or expanding the spring. Each rear spring’s cap is controlled by a long, threaded rod that extends up from the spring, through the rear windshield. These rod & cap combinations are called “screw jacks.”

The front wheel springs have screw jacks that extend up to the engine compartment, but because the hood must be opened to reach them, they’re rarely adjusted during a race. The rear screw jacks protrude through the rear-window glass, however, so they’re easily accessible at all times.

Each complete revolution of a screw jack is called a “round.” If you hear an announcer say that a crew member “put two rounds of wedge in the car,” that means the technician tightened the left-rear screw jack two full revolutions.

**Cross Weight Adjustment:**
Click on the arrows at either end to shift weight in the direction you’d prefer. Or, click and drag the slider to the desired position.
Weight Jacking Summary

Left/Right Bias Adjustments: Sliding this value toward the left puts more weight on the left-side of the car, helping balance the chassis as you turn left on ovals. When this is correctly set, tire grip improves. Road courses may require different tactics. You may need to move the extra weight to the right-side for a circuit that features important right-hand turns. A neutral setting may work better at a track with a variety of corners.

Front/Rear Bias Adjustments: Sliding this value forward puts more weight on the front of the car, increasing the amount of understeer. Sliding this value toward the rear places more weight at the back of the car, increasing the amount of oversteer.

Wedge Adjustments: Increase this setting with positive values to tighten the car up if it is “too loose.” Decrease this setting to reduce understeer. Wedge adjustments work diagonally: as you increase wedge values, the left-rear corner gains weight and grips better, but the right-front corner also gains weight on an already heavily stressed tire.

Note: Think of the left/right and front/rear bias adjustments as coarse settings, while the wedge adjustment should be considered a fine adjustment.

Shock Stiffness

Your stock car has a gas-filled shock absorber installed at each wheel. In addition to minimizing all of the little bumps and jounces experienced on the race track, shock absorbers play a key role in stabilizing the car’s chassis during high-speed turns.

When you turn your car left, centrifugal force causes your car’s chassis to shift its weight toward the right. Conversely, right turns cause the chassis weight to transfer toward the left. When you mash the gas, the car’s weight shifts toward the rear end, while stepping on the brake pedal causes the weight to abruptly transfer toward the front of the car. With each transference of weight that occurs, you could be losing grip somewhere.

You can counteract these weight shifts and improve cornering performance by adjusting the stiffness of each shock. Stiffer shocks help
the chassis “reset” quicker after a shift in weight. This added responsiveness can sometimes lead a driver to overcorrect, however. On the other hand, softer shock settings cause the chassis roll to last longer as the weight transference gradually dampens out.

**Getting Your Shocks To Work For You**

If you adjust one shock absorber to a stiffer setting as compared to the other three, more weight will transfer at that wheel, adding response while diminishing its grip. It’s likely that you’ll want the rear shocks to be set slightly softer than the front, in order to keep the car from getting too loose. Typically, you should begin the setup phase at each track by setting the front shocks up relatively stiff compared to the rear ones. This will create enough understeer, or a push to give you maximum control as you attempt to dial your car’s chassis in. As you make shock adjustments, consider the track temperature, tire conditions, top speeds and amount of banking - these factors all play a role in what your shocks must accomplish for you. You don’t have to set front wheel shocks to identical values. It is quite common to use different settings on each wheel, since each corner of the car undergoes a different degree of load transfer during racing action.

To adjust your car’s shock settings, use the **Setup Development Sheet** to specify desired values. Click on the accompanying arrows to increase or decrease shock stiffness; higher values indicate stiffer shocks, while lower values result in softer shock absorbers. You can also click directly on a shock value, and enter the desired amount of stiffness with your keyboard.

Some folks in the garage area believe that using extremely soft rear shocks on the big tracks, such as Talladega, will result in better performance. The thinking here is that the rear end of the car will ride lower at high speeds, due to the soft shocks. If this were true, then the rear spoiler angle would drop slightly as well, reducing drag. This theory has not been proven, but hey- it’s your race car!

**Shock Summary**

**Softer Shock Settings:** Weight transfer is reduced at that wheel. The car tends to become less responsive as the chassis requires more time to reset after each corner. Softer settings can help your car handle in a more forgiving manner, less likely to induce over-correction.
**Stiffer Shock Settings:** Weight transfer is increased at that wheel. Handling becomes much more responsive and straightaway speeds can be faster, but the car can feel “twitchy” as the chassis whips back into place after each corner. Stiffer settings and give you quicker times, but they can also lead to over-correction.

**Note:** Because shock absorber work can be time consuming for a crew, and these adjustments affect a sensitive area of your stock car’s chassis, you’ll have to specify these settings in the garage via the **Setup Development Sheet**. Shock adjustments are not something routinely handled by the pit crew on raceday. You’ll have to try to correct any in-race handling problems by ordering wedge adjustments or tire pressure changes instead.

Remember, each shock absorber may be adjusted to individual values, independent of one another.

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**Steering Lock**

By changing the gear ratios in the steering box, you can alter the turn rate and steering radius of your stock car. Superspeedways place a higher demand on control, with very little steering performance an issue because of the steep, sweeping turns. On the other hand, short tracks and road courses require greater steering response in order to negotiate tight corners.

It is important to understand that a loose car will still be loose after adjusting the steering lock, just as a tight car will still be tight after a lock adjustment. In other words, tweaking the steering lock will not correct other problems that surface within your chassis setup. So, don’t waste time trying to compensate for handling errors by changing the steering lock.

Try to select a steering lock value that you can drive comfortably and consistently with at the current track. One factor to consider when setting the steering ratio is your control device. As Bobby Labonte explains, “I think sometimes it has to do with what you’re using as a controller. You know, a bigger steering wheel is slower; one that’s real small revolves faster, so you need to slow the steering down (lower angle). The same amount of turning on a big steering wheel is different than the same amount of turning on a small steering wheel. But yes, you’ll go to a track like Talladega, Atlanta, Charlotte- where you need to slow the steering
down because of the faster speeds; and you don’t have to make a 180-degree corner runnin’ 80 mph. You’re makin’ fast corners with banking. Sure, you’re still turnin’ 180-degrees but you’re takin’ a half mile to do it in.”

To adjust the steering lock on your stock car, open the Setup Development Sheet and click on the arrows adjacent to the current lock value. Higher values indicate faster, sharper steering, while lower angles call for controlled, slower steering. You can also click directly on the lock value, and use your keyboard to enter a new setting. For road courses, try basing your steering lock value on a cumulative average of the most important corners, rather than simply picking an angle that accommodates the tightest hairpin.

**Steering Lock Summary**

**More Wheel Lock (Higher Angle):** This increases the turning radius of the car, adding responsiveness to cornering. Too much wheel lock, however, can cause the driver to over-correct when steering. This results in dangerous maneuvers and reduced tire life.

**Less Wheel Lock (Smaller Angle):** This decreases the turning radius of your NASCAR Winston Cup stock car. Lower wheel lock values are ideal for megatracks like Talladega, where small steering corrections are necessary. However, using a steering lock setting that’s too low will make it tough to guide your car around turns at high speed.

**Selecting Gear Ratios**

By mixing different combinations of cogs in your stock car’s transmission, you can modify its use of horsepower. Certain tracks were built with top speed in mind, while others throw top speed out the window in favor of acceleration and finesse.

Taller gears are used to create more top speed, perfect for super tracks like Talladega, where you want to “throw it in fourth and keep your foot on the floor” all day. The other gears are only needed to get you in and out of the pits, so the ratios between them is not very critical.
Shorter gears are installed when you want to tighten the power curve and generate greater acceleration. Shorter gears must make the driveshaft turn four to six times in order to produce a single revolution of the drive wheels, as opposed to a taller gear that can achieve the same result with only about three turns of the driveshaft. Shorter, tighter gear ratios are better suited for short tracks and road courses, where overall top speed is an afterthought. These types of tracks also generally demand that the gear ratios be spaced somewhat close together, to orchestrate a power curve that is capable of reaching its top speed quickly.

Your stock car is equipped with a four-speed transmission. Choose gear ratios individually, based on the type of performance you want. Generally, drivers set fourth gear up first by driving several test laps and noting the rpm readings at the end of the longest straightaway. Your oil pressure light should barely begin to blink at the end of straights, so you may want to use this as a general guideline. If your car is too slow on a big track, try lowering the fourth-gear ratio; if it’s too slow on a short track, try raising fourth gear to a higher value, and spacing the other gears tightly together.

**Gear Ratio Summary**

**Shorter Gear Ratios (Higher Ratio Numbers):** These are used to create more rpms/acceleration. Shorter, tighter gear ratios help you reach peak horsepower quicker, though top speed is a little slower.

**Taller Gear Ratios (Lower Ratio Numbers):** These ratios produce slower acceleration, but generally provide faster top speed. If your oil pressure warning light blinks constantly, try using a taller fourth-gear ratio.

**Compensate For Driving Style**

There are several key components on your NASCAR Winston Cup stock car that may require adjustments to compensate for your driving style and the current track conditions. Since no two drivers handle a car exactly alike, it’s best to create your own setup files for each track; that way, the car will behave in a manner best suited for your individual driving skills.

**Compensate For Weather**

Weather conditions also play a key role in how your car responds on a given day. A car setup that yields favorable results at Darlington on a cool, breezy day might not be very competitive on a calm, hot day. This may force you back to the garage stall for more fine tuning.
Compensate For Body Style

You may develop a setup file that works very well on the Chevrolet Monte Carlo- but a switch to Pontiac Grand Prix sheet metal may not produce the same results.

The garage area is located in the infield of each track. Inside, there are no walls that separate cars and teams from one another- if your car gets a new set of shocks, everybody else in the garage can see your crew put them on.
DRIVING TIPS

The Essentials Of Speed

No matter how well-prepared a NASCAR Winston Cup team is, there are days when it seems like every other team’s car is faster. In fact, each team spends the vast majority of every race weekend tweaking, tuning and trimming its car and driver, in the hope of squeezing out another two-tenths of a second per lap. Where is this speed found? The answer lies in many questions, most of which are answered here for you in easy-to-read detail.

The first thing a driver and crew chief will try to ascertain is exactly where the other cars are faster. Is it on the straightaways? Or perhaps going into the corners? How about at the exit of each corner? Every factor must be looked at- the driver’s style and choice of racing line, abilities in traffic, and basic decision-making skills. The overall handling of the car, its top speed and reliability.

As you participate in Practice or Testing sessions, take note of how the car responds along different points of the track; try varying your driving style to see what works best at each track. Above all, strive for consistency. Performance is measured in what your car, and you as the driver, can accomplish lap-in and lap-out under race conditions. Driving berserk through a single, traffic-free lap will provide very little information about what you and your car are capable of when the green flag drops. Once you have pinpointed the areas that those extra tenths of a second can be found in, it’s time to go to work on them.
Using The Draft

Drafting is a technique used on speedways and long straightaways by drivers, in order to achieve faster speeds and improve track position. The car at the front of the draft punches through the air mass as it is driven at high speed. Other drivers position their cars in a single-file formation, directly behind the lead car; all of the cars in the draft are able to gain speed because of how the air along the track gets displaced, as shown below.

As the car travels at high speed, air strikes the front facia and is moved upward, over the roof of the vehicle.

As the air rolls down the rear window onto the decklid, it strikes the spoiler. This creates extra downforce at the rear of the vehicle, which trims away some of the car’s speed.

When one or more cars line up in a draft, air no longer travels off of the decklid. Instead, it carries up over each vehicle; this allows the lead car to travel faster, as well as the cars that are using the draft.

Drafting Smart

Like any technique or “trick of the trade,” drafting must be used wisely in order to gain the greatest advantage from it. Use of the draft is crucial on superspeedways; the speeds on the big tracks are faster, generating a more powerful draft, and the pavement is likely to be wider, providing more passing lanes. There really isn’t a poor drafting location anywhere at Atlanta, Charlotte, Michigan or Talladega. Even with the extra speed gained through the draft, your car should stick to the race track and have plenty of room at these places.
Medium-length tracks like Loudon or Rockingham, however, present a different twist on the draft. These tracks or more congested, usually offering a very tight racing line, and the speeds are not quite as high as they are on superspeedways. As your car picks up speed while in the draft, you must make sure that you can keep your car positioned within the racing line you’ve been using as you enter the corners. If you can’t, you may lose valuable time by having to struggle to keep the car away from the wall in the turns. You’ve also got to take into account the additional speed your car is packing as you enter the corner. Can your car get through the corner this fast, without chewing up precious tire rubber?

Although the effectiveness of the draft is greatly reduced on short tracks, you must still be aware of gaining one or two extra miles-per-hour when closely following other cars down the straightaways. The same holds true for road courses- the back straightaway at Watkins Glen, for example, is an excellent place to draft, but has a very abrupt chicane at the end. Mis-management of the extra speed gained through the draft can make it difficult to slow the car down enough to make the right-hander into the chicane.

Try to draft with patience and precision. When attempting to pass an opponent, take into account how much racing is left to be done before the checkered flag falls. Unless you are in the final laps of a race, calmly position your car in the draft and wait for the right moment. Follow the traffic ahead for a lap or two, making mental notes about how, when and where the cars ahead are braking, turning and accelerating. When you feel confident you can make a clean pass, pick your spot and move to the inside, sliding underneath your opponent. Keep an eye on what lies ahead- more traffic, sharp turns, or pit lane accesses. When you’ve accomplished a successful pass, get your car repositioned within the

Using patience, stay in the draft until you’re confident you’ve got the speed and an open shot to overtake drivers ahead.

On superspeedways, cars running alone outside of the draft are not going to be able to keep up over the course of 500 miles.
racing line and look ahead for another drafting opportunity. If you don’t have quite enough speed to finish the passing maneuver, momentarily lift off of the throttle and tuck the nose of your car back in behind your opponent-you’ll get ‘em the next time by!

Passing With The Draft-
An In-Car View

Keep focused on what’s ahead. The pack in the distance will eventually come to you; for now, drive smooth, be patient and “reel ‘em in.”

Now that you’ve caught ‘em, check the inside and follow tight until you get to the spot on the track where you want to make the move.

Stay low! Make sure your right-front fender doesn’t tap the #18 car; if it does, you’ll both spin hard.

At this point, your crew chief will tell you when it’s clear enough to move back to the outside. Stay low and wait for him to say, “Clear high.”
Finding Your Line

Every driver tries to find the best racing line around each track- the path your car feels the most comfortable on, the path that seems the fastest. Over the course of time and many laps, a permanent concentration of skid marks and rubber tends to streak the track surface where most of the action is. You’ll see these skid marks at every track (assuming you have this Graphics option turned on), and you can use them to help find your line, whether it be staying directly on them, or racing just outside the heaviest markings. The racing line, often referred to as the “groove,” is where you can expect to encounter the heaviest traffic; after all, everyone else has a favorite racing line, too!

Shaving Time Off The Corners

Usually, most drivers have little trouble going fast down the straightaways. But almost every driver is always looking for more speed in, through and out of the corners of a race track.

Driving Style Cornering Adjustments

Experiment with the racing line during Testing sessions at the current track. Try braking earlier into each corner, and note how well the car sticks to the racing line, and at what point you can reapply the throttle as you exit the turns. Next, try braking later and harder into each corner, and see how smoothly you can still “gather up the car” and stay in the racing groove. After determining the best cornering technique for the current track, switch to a Practice session so you can try your moves out in traffic. Remember- driving fast around an empty track is easier; you’ve got to be able to drive the corners fast, yet keep out of trouble in traffic to win races.

Garage Cornering Adjustments

Sometimes, all the adjustments to driving style in the world won’t get you a smooth lap. Every driver’s been there before- fighting an ill-handling race car around every turn; struggling for more grip, but all the while losing traction as the brakes get mashed harder, hoping and praying you
don’t wreck somebody who has a good car and a realistic chance to win. It’s a helpless feeling. The solution to this problem is almost always found in the garage, where some of these handling errors can be tuned out.

Before you begin making chassis adjustments, determine where on the race track the car isn’t behaving properly. Is the car loose as you enter the corners? Too tight as you exit? How about top speed? Once you’ve pinpointed the trouble area, roll up the ‘ol sleeves and turn a few wrenches! Only adjust one component at a time; check the results on the track, then head back to the garage and tweak some more. Remember, it ain’t instant, but that’s the same way the pros do it.

“If you’re loose goin’ into corners, try movin’ weight forward, or puttin’ more rear spoiler into it. Stiffen the right-front shock and increase the diagonal wedge (cross weight) so you can get into the corner better. You also might want to play with camber settings a little bit, but that’d be the last thing to do,” Bobby Labonte says.

If your car is loose exiting the corners, Bobby says, “Try movin’ a little weight back and add wedge. I also try softening the shocks- sometimes it works, sometimes it doesn’t; I mean, different race tracks want different things, but I’ll try softening the rear shock package. Stiffening the left-rear usually helps, comin’ off the corner- I might do this instead of softening the right-rear shock, depending upon the situation.”

Finding More Top Speed

It’s every NASCAR Winston Cup driver’s nightmare. Arriving at a big track like Talladega, your car is rolled off of the hauler and onto the track. After just one or two laps, you get a sinking feeling in your gut as you and your team discover that your car is just too dadgum slow to compete. How do you turn a tortoise into a hare overnight?

Start with the obvious, by checking your gear ratios. Try using a taller 4th gear; this will give you less acceleration, but can generate more top speed once the engine is wound up. A high gear that is too tall, however, will result in wasted horsepower as you begin turning corners before the car ever reaches top speed.

Bobby Labonte has some other suggestions on how to come up with a few extra mph when you need it. “Go up on the air pressure for all the tires. Take wedge out to go faster, and move weight forward. Of course, the spoiler’s gonna be laid back as far as it can be; you might also run a stiffer shock setup to go fast,” Bobby advises.
**Climbing Out Of The Pits And Into Victory Lane**

It's been proven that races can be won or lost in the pits. With every pit stop, so many variables are at stake throughout a typical raceday: 1.) The car must be brought into and out of the pits quickly, but without exceeding the pit road speed limit. 2.) The entire pit crew must function in sync, knowing what's expected during each stop. 3.) Equipment problems must be avoided during stops (stuck lugs, jammed wrenches, broken screw jacks).

**Practice Makes Perfect**

Before you take on the challenges of a race at any track, it's a good idea to use a portion of the Practice session to hone pit stop skills. Turn on the speed/gear display by using the "S" key. As you drive down pit road at speed limit, note the engine rpms shown on your tachometer. This will help you avoid drawing a costly black flag during the race. Bring the car up to full race speed, drive a couple of laps and try executing a full pit stop. This will help you get to know the amount of braking and left-hand steering that need to be performed to enter the pit lane smoothly. When pit service is completed on your vehicle, drive back onto pit road while maintaining the proper tachometer reading noted earlier. Finally, practice re-entering the race track as other cars zoom around turn one. Keep an eye on your rearview mirror as you transition back into racing traffic.

According to Bobby Labonte, "One thing your crew chief will remind you of is the pit road speed. You'll determine that beforehand. You want to make sure there's nobody right behind you that will run into you, if you get off the gas halfway down the straightaway. What goes through a drivers mind is, 'Alright, I need to go as fast as I can to pit road, but when I get to there I need to slow down to speed limit.' You get to your pit stall, then the work's being done. As soon as they drop the jack, take off! Leave the pits as hard as you can at pit road speed. When you exit the pit lane, go as fast as you can to get up on the race track off of turn two."

"You tell the crew before the stop, 'Hey, put air pressure in here, gimme some wedge there, look at the spoiler,' that sort of stuff. On a lot of the high speed tracks, you have to be aware that you're travelin' at 180 mph,
and all of a sudden you gotta slow down to 65 mph. So, it’s pretty intense that the driver has to do everything possible to get to the pit stall as fast as possible; then the crew has to perform their duties to get the car back onto the race track in the shortest period of time. On television, you could see it during the Southern 500 this year - Jeff Gordon and Hut Stricklin had identical pit stop times, but Gordon was something like four seconds faster entering and leaving the pits than Stricklin was. So, entering and leaving the pits smoothly is just as important as being on the race track goin’ as hard as you can,” Bobby says.

To radio chassis adjustments, tire, and fuel info ahead to your crew, use the function keys on your keyboard as you drive. Remember, if you don’t use the function keys to make any changes prior to the pit stop, you will always get four fresh tires and a full tank of gas.

Tip: Use the pause key (“P”) before using the function keys. While on a straightaway, pause the racing action and make your pit selections with the function keys, which still operate while the simulation is paused. Once you are satisfied with your choices, press the “P” key again to unpause the action and resume racing.

**Anatomy Of A Pit Stop**

NASCAR rules allow only seven team members over the wall during a pit stop. In addition, a crew member may not retreat back over the wall and be replaced with another. Below is a diagram which shows the distribution of responsibilities during a typical green flag stop.
**Garage Shortcuts**

Got one or two tracks figured out, but can’t get the others? Try taking the same race car setup that you feel comfortable with at one place to a similar track that you haven’t quite conquered yet. NASCAR Winston Cup teams do this very same thing.

Bobby Labonte explains, “We go to Darlington, Dover, Bristol and Rockingham with the same setup, basically. I mean, there’s gonna be some fine tuning—maybe one shock will be different, maybe weight slightly different...but they’re all pretty close. We do the same thing between Atlanta and Charlotte; actually, they’re not far off from Bristol and Dover setups, really. It’s not ‘magic’ where you have one setup that works everywhere, but Atlanta and Michigan, for example, are pretty close. We’ll have a little bit stiffer setup in the right-front at Charlotte because the race track goes from flat to banked faster than Atlanta—Atlanta has a more gradual sweep to it.

“But we’ll take what we learn at Atlanta, and we’ll try it at Charlotte; what we learn at Bristol, we’ll try at Darlington; what we learn at Darlington, we’ll try at Rockingham; what we learn at Rockingham, we’ll try at Dover—so there are some things that you do that you take with you and try at a similar race track, and see if it works there.”

**Assessing The Damage**

Using the “F9” and “Enter” keys, you can decide whether to have your crew repair damage or not. So when is it wise to skip repairs? Repairs to the car’s bodywork are time consuming; at a short track like Bristol, you may find that your car’s handling and top speed are not greatly affected by damage—therefore it would be a waste of time to sit in the pits while your crew repairs the car. However, at a superspeedway like Atlanta, a slight wrinkle in one of the fenders can throw the whole car off—you might even notice a serious reduction in top speed. Therefore, you’ll have to get the damage fixed, or you’ll find yourself out of contention very quickly. Keep in mind that while repairs are being performed, you can hit the Enter key to tell the crew to cease repairs immediately. Perhaps you might want to wait for another yellow flag, which would allow your crew enough time to complete the repairs previously begun.

*Tip: If you brush the wall or another car but aren’t sure you suffered any damage, press the “F9” key when you get to the next straightaway.*
If you see the phrase, “Repair Damage,” you’ll know your car was wounded. If you don’t, bless your little heart- you’ve avoided disaster.

Avoiding Control Freaks

Here are a couple of tips to help you get through 500 miles of “joystick-jockeying.” If you are using a conventional joystick, try placing a hard book or board across your lap, and resting the stick’s base on it.

If you can get comfortable with driving this way, it will make the longer races easier on your grip- you won’t be clutching the base in your “non-stick” hand for 500 miles. A variation of this idea would be to rest the joystick’s base on your table or desk, directly in front of you. Place one hand on the stick, and use the other hand to steady the base as you drive; this is certainly more comfortable than squeezing the stick’s base like a grapefruit for an afternoon.

If you are using a wheel-type controller, make sure it is firmly anchored down. Leaving it resting loosely on your desktop as you drive can make for some frustrating, inconsistent laps. If your wheel doesn’t have fasteners or brackets of some sort, purchase some double-stick hook & loop tape at your local hardware store, and use it to affix the wheel to your desk.

Patience Is The Key

One final note to help you keep a cool head; drive smoothly, and with patience. You don’t have to sit on the pole, lead every lap and win every race to be successful. Get your best qualifying spot, adjust the car and work your way to the front carefully. If you’ve got the early lead but cars behind you are faster, it may be wise to let ‘em by until your car begins handling better. If you are competing in a Championship Season, try to score wins at the tracks you’re comfortable with, and hope you’re lucky at a couple of tracks you don’t like. At all other tracks in-between, try to avoid trouble and just finish in a respectable position, maybe even pick up a five-point bonus for leading one lap. Remember, if you lead one lap at every race, that’s the equivalent of driving one additional race during the season, and finishing in the top five.
# NASCAR® Racing 2 Credits

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<tr>
<td>Game Design</td>
<td>Dave Flamburis, Adam Levesque, Matt Marsala, John Wheeler</td>
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<td>Dave Broske, Evelyn Ginsparg, Alex Orlovsky, Dave Pollatsek, Daniel Collins, Charlie Heath, Ralph Hebb, Doug Muir, Eric Patacchiola, Sharon Satnick, Jim Sokoloff</td>
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<td>Additional Programming</td>
<td>Ralph Hebb, Sharon Satnick, Jim Sokoloff</td>
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<td>Joel Boucquemont, Isabelle Garbani, Brian Mahony, Bryan Shutt, Louis Catanzaro, Josette Ghiseline, Mat Matera, Julie Sparks, Yoosun Cho, Duncan Hsu, Boris Menkov, Dan Roeger, Vladimir Starzhevsky</td>
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Sound Production  Aaron Spevack
Spotter/Crew Chief Voice  Ronald Gaines
Licensing Coordinator  AnnMarie Gianantoni
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