

**FLAG TO FLAG:
CIRCUIT INSTRUCTIONS GUIDE**

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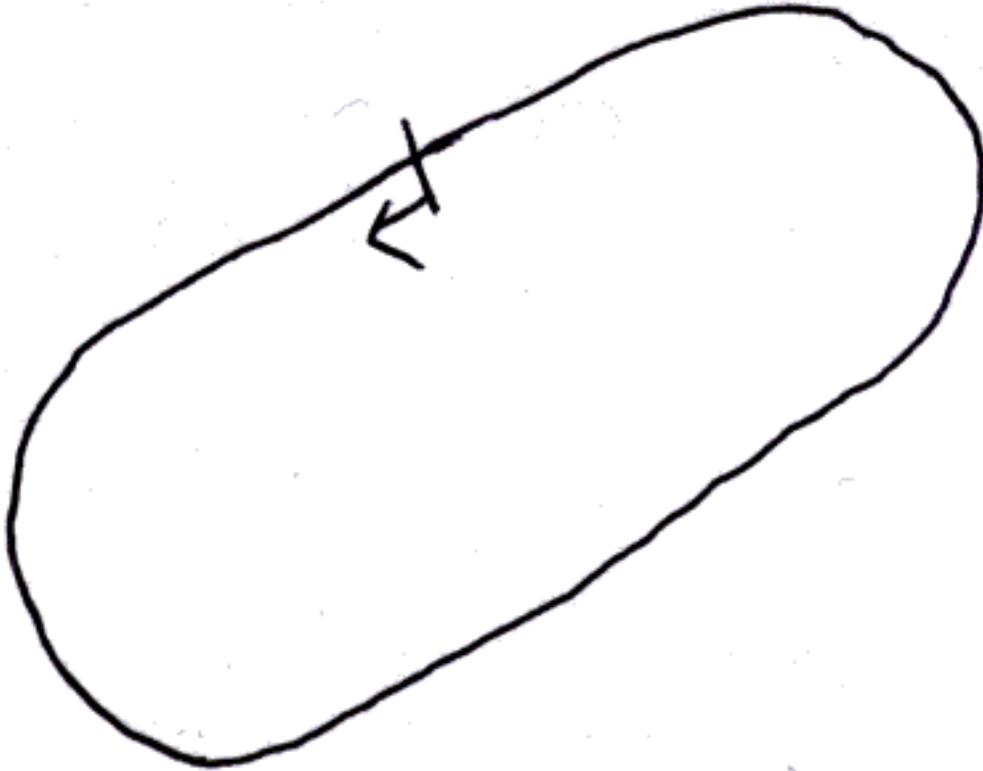
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INTRODUCTION

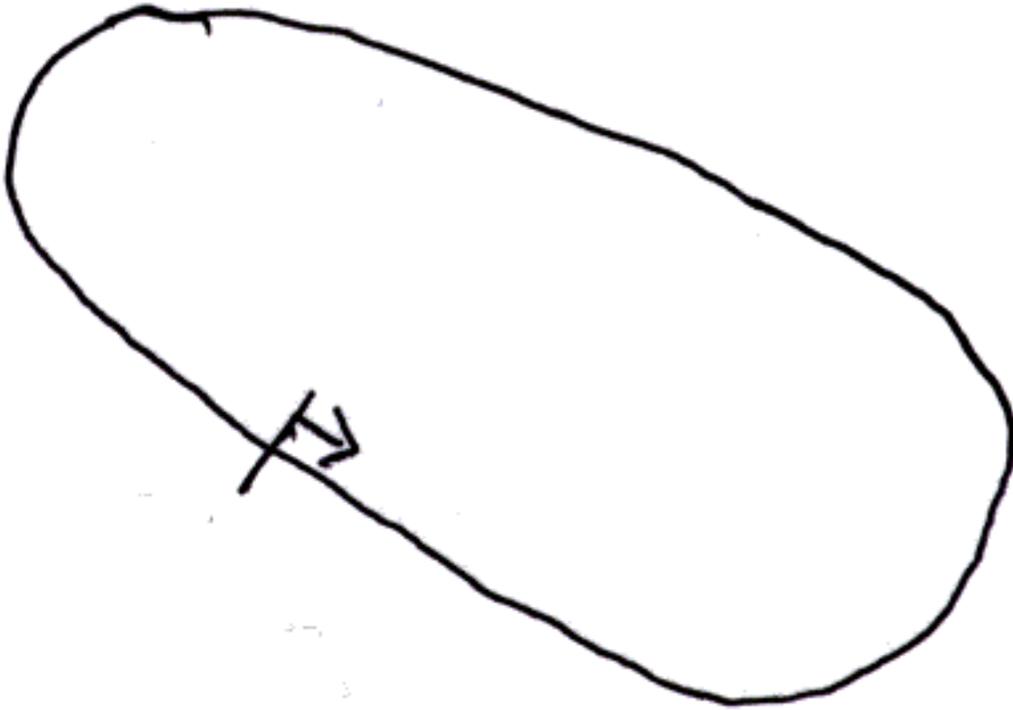
Flag to Flag is a DreamCast racing game based upon the 1998 CART season. This guide is designed to provide driving instructions for the nineteen race venues in the 1998 CART season.

ROUND 1: MIAMI



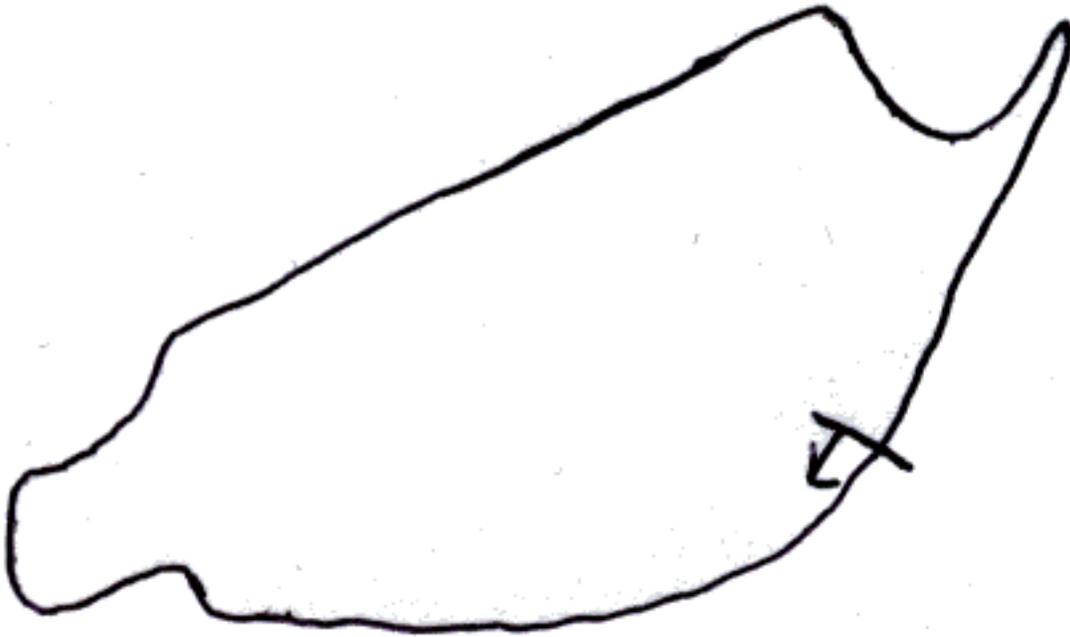
This is a symmetrical oval circuit with six-degree banking.

ROUND 2: MOTEGI



Set in Japan, the Twin Ring Motegi oval circuit has been used in recent years (under the name Super Speedway) in the Gran Turismo series on PlayStation/PSOne and PlayStation2. This is NOT a symmetrical circuit; the Turn 1/2 complex is longer and wider than the Turn 3/4 complex. Like the configuration in Gran Turismo 2 (on PlayStation/PSOne), the Pit Entry and Pit Exit are both along the Pit Straight; in Gran Turismo 3 (on PlayStation2), the Pit Entry and Pit Exit are both along the back stretch.

ROUND 3: LONG BEACH



The Long Beach circuit has seen a facelift since the time that Newman-Haas Racing was released; specifically, the front straightaway has been lengthened and cars make a large circle (more or less) before returning to the 'old' part of the circuit on the back side of the venue, As a street circuit, this is fairly wide, with three-wide racing quite possible on the straightaways (but really not recommended).

Pit Straight: This is not straight at all. Roughly halfway along its length, there is a significant full-throttle bend to the right, with the Start/Finish Line approximately located well before the apex of the bend.

Turns 1-2: On approach, look for the small pull-off area on the left side of the track, and use this to judge your braking zone. Turn 1 will require moderate or heavy braking for this right-hand corner; this is followed immediately by the left-hand Turn 2, which can be taken at full acceleration if slowed enough from braking entering Turn 1. This is a tricky chicane nonetheless, especially in traffic. The inside of Turn 2 is grassy, so

shortcutting the corner will likely result in loss of car control.

Turn 3: Shortly after the initial chicane, this right-hand perpendicular corner can be shortcut somewhat, as the barriers are set back from the actual corner itself. Light or moderate braking is needed here to safely clear the corner. Swing wide to the outside on corner exit to prepare for Turn 4.

Turn 4: This is similar to Turn 3, and shortcutting is again possible (although the barriers are not set nearly as far back here). With an approach from the very far left side of the course on corner entry, it is possible to speed through Turn 4 without braking, but this should probably only be attempted by experts.

Turn 5: Almost immediately after Turn 4, the circuit bends to the left. This can be taken at full acceleration, although the barrier to the left makes this a semi-blind corner from driver view.

Turn 6: Almost immediately after Turn 5, the circuit bends to the right. This can also be taken at full acceleration.

Straightaway: This is the other long straightaway of the circuit, running down Seaside Way. There are small pull-off areas on the right and the left; use the one on the left to judge the braking zone for Turn 7.

Turn 7 (Firestone Turn): This hard right-hand corner is very difficult to see on approach. It can be shortcut somewhat, but moderate braking will still be required. Even after clearing Firestone Turn, be prepared to brake even more. There is extremely little recovery room for those who miss the corner altogether, resulting in broken front wings.

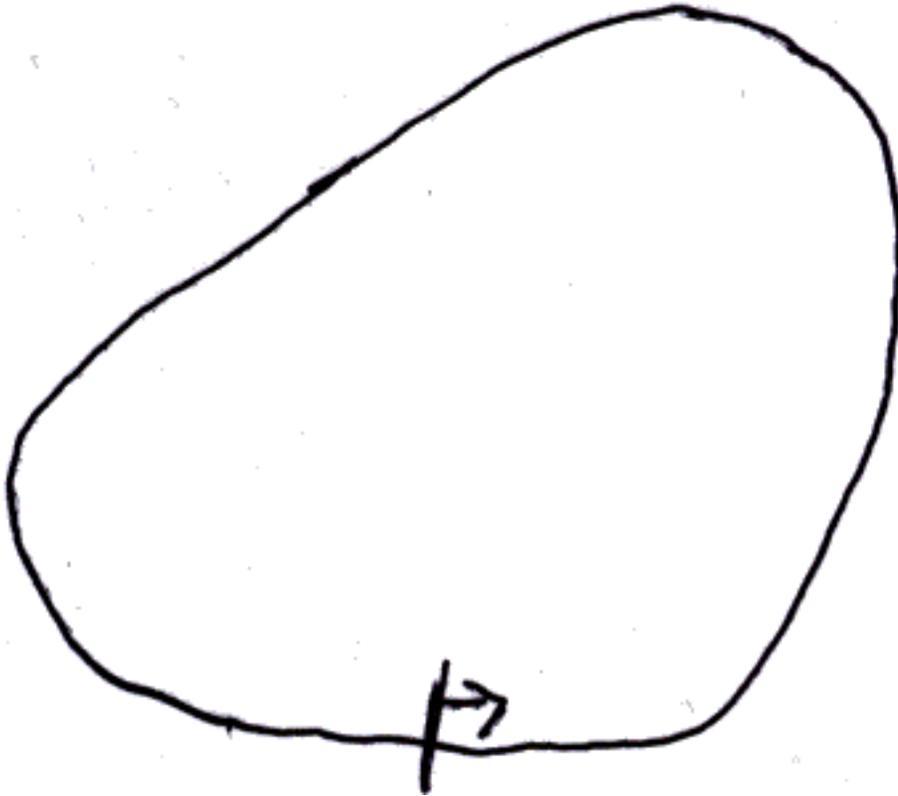
Turn 8: This long 130-degree left-hand decreasing-radius J-turn is very tricky, which can fool newcomers to the Long Beach venue. Carrying a lot of speed in this narrow section of the circuit will result in the car sliding into

a barrier or the back end spinning; either scenario can quickly end any chances of placing high on the final roster at the end of a race here.

Turn 9 (Auto Club Hairpin): This tight right-hand hairpin requires moderate braking in addition to the constant slowing through the previous J-turn. There is some swing-out room, but not much, so expect traffic to bunch up here, especially if there are cars off the lead lap.

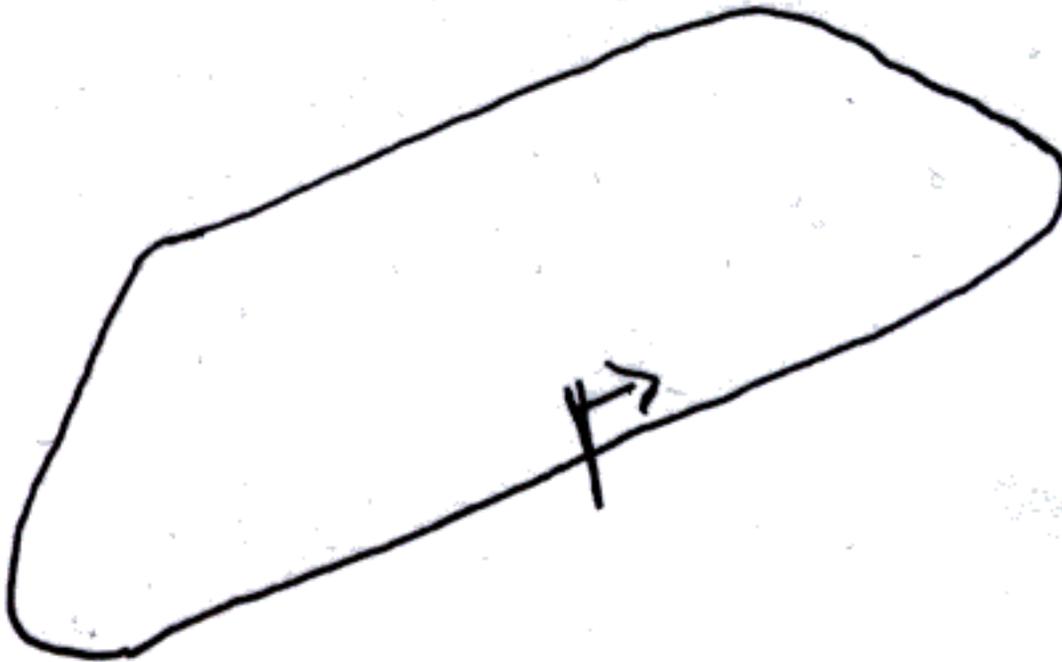
Pit Entry: Almost immediately upon exiting Auto Club Hairpin, Pit Entry is to the right. Pit Entry itself is a tight right-left chicane, so when exiting Turn 9, be especially wary of VERY slow cars preparing to enter Pit Lane.

ROUND 4: NAZARETH



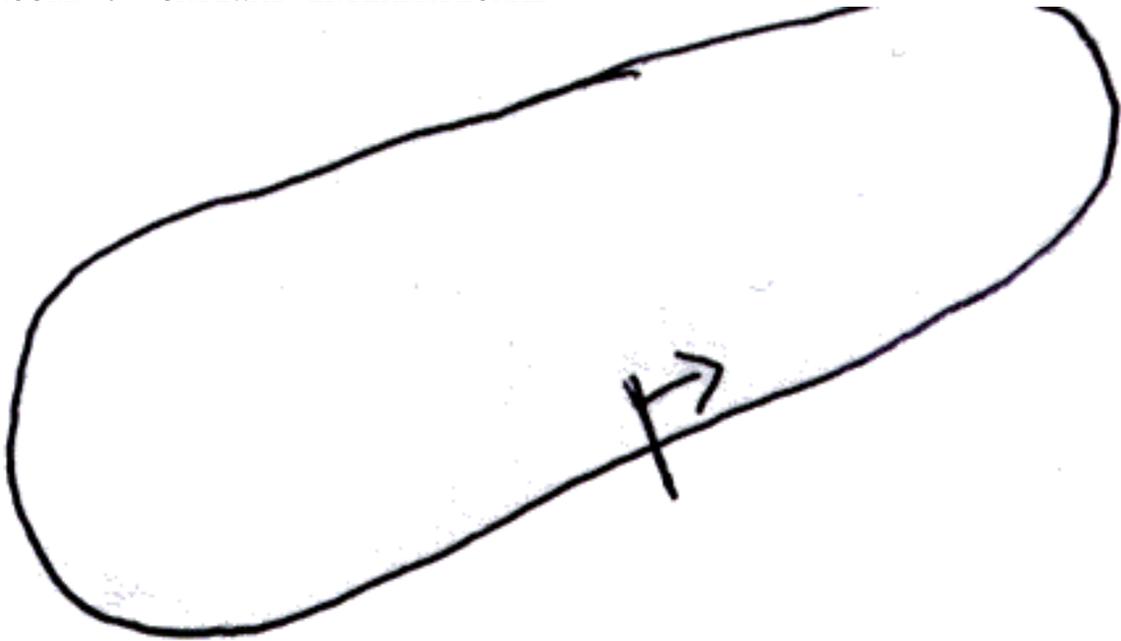
This is a trioval circuit, although Pit Lane essentially forms an oval with the back stretch (Pit Entry and Pit Exit are both from/to the back stretch).

ROUND 5: RIO DE JANEIRO



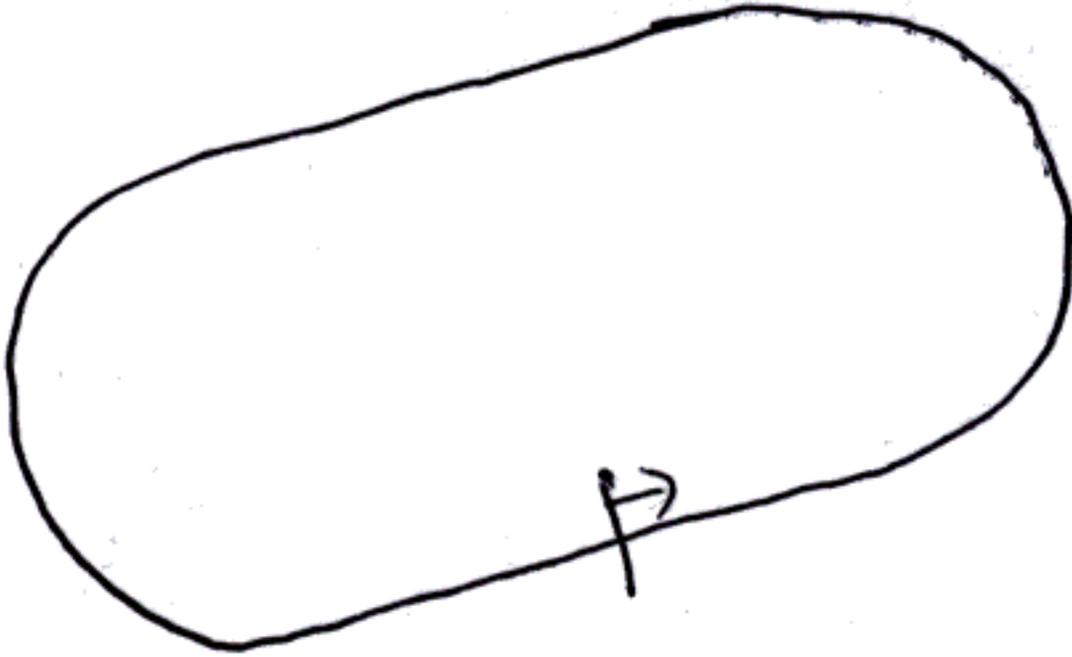
This is a trapezoidal circuit, with the back straight shorter than the Pit Straight. Strong braking is needed into Turn 1 because of the length of the Pit Straight.

ROUND 6: GATEWAY INTERNATIONAL



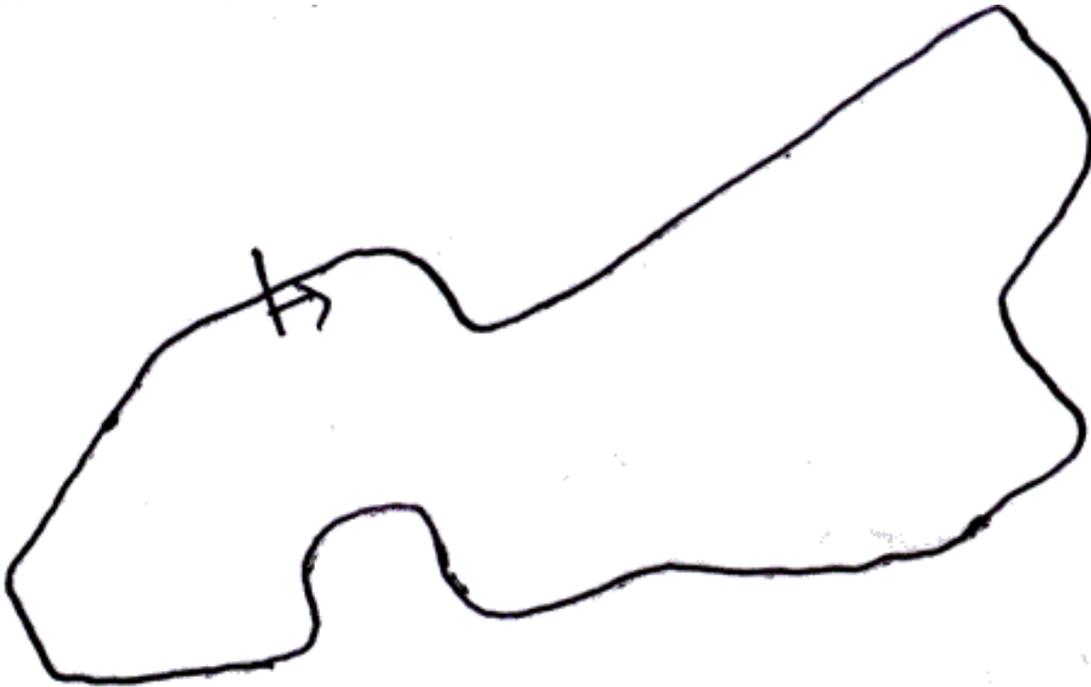
This is an elongates oval circuit.

ROUND 7: MILWAUKEE MILE



This famous racing venue, first used in 1933, is a very popular, high-speed oval circuit.

ROUND 8: DETROIT



The Pit Straight is of moderate length, with a dogleg to the right at about its midpoint and the Start/Finish Line located near its end. It is important to begin braking for the first corner WELL before the Start/Finish Line. It is also important to NOT focus on the beautiful scenery to either side of the circuit.

Turns 1 and 2: This right-left complex comes at the very end of Pit Straight... whose Start/Finish Line is practically at its end. There will be plenty of traffic jams here on the opening laps until the traffic can space itself out. Heavy braking will be required for Turn 1, with barely any acceleration for Turn 2 until its exit due to all the anticipated traffic. Turn 2, which is a longer-duration corner than Turn 1, opens onto a long straightaway.

Turn 3 is a right-hand perpendicular corner. Because of the length of the preceding straightaway, this corner requires a long braking zone.

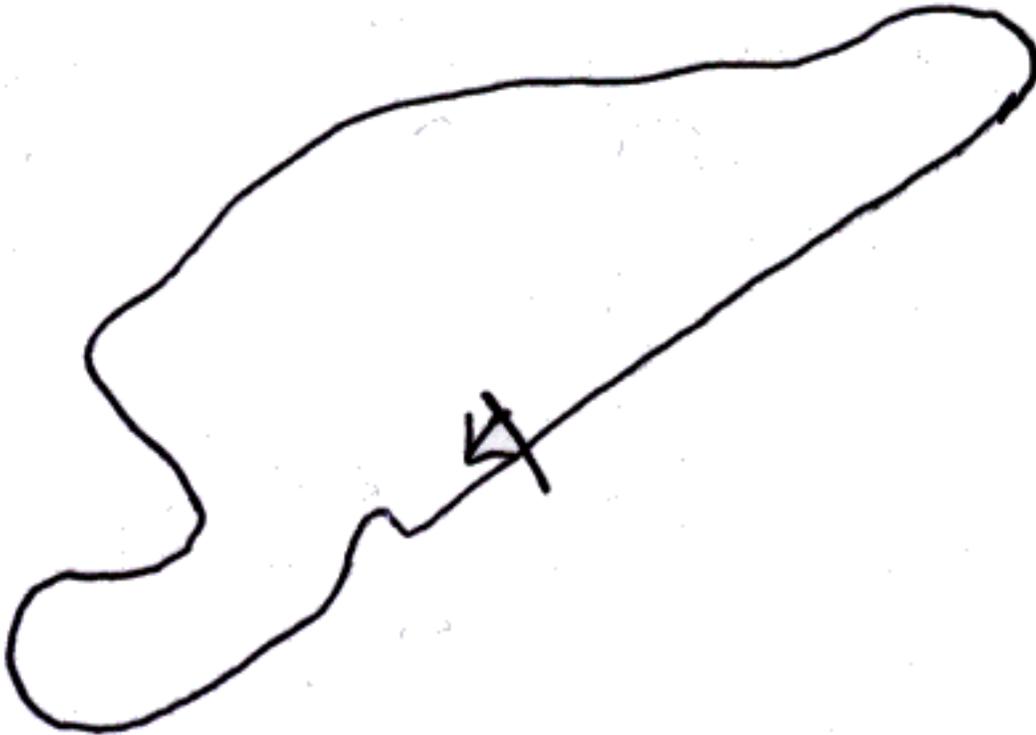
Turns 4-6: Following a brief straightaway, Turn 4 is a moderate right-hand corner. The raceway snakes to the left at Turn 5, then sharply to the right (nearly a J-turn) at Turn 6. Moderate braking is required for all corners.

Straightaway: This next straightaway is fairly long and contains fades to the right and to the left. The fade to the left is more of a dogleg than a fade, so some minor tapping of the brakes may be warranted here. However, this dogleg is a good marker for the braking zone for Turn 7.

Turns 7-10: This right-hand corner is nearly a double-apex corner, making it somewhat lengthy; moderate braking is needed here. Turns 8 and 9 are moderate-braking left-hand corners, with Turn 9 fairly lengthy in comparison with Turn 8. Turn 10 is a tight, sharp right-hand J-turn requiring heavy braking.

Turns 11-12: This is a pair of right-hand corners connected by a very brief straightaway. Moderate braking is needed for both, but strong power is required out of Turn 12 to set up passing opportunities along Pit Straight.

ROUND 9: PORTLAND



A look at a track map reveals a few slow corners and two high-speed runs at Portland Raceway. However, a typical track map will NOT show the elevation changes, which are what make a given lap at Portland so tricky. The elevation changes create many blind corners, especially those corners just beyond the crest of a hill. Intimate knowledge of this venue is a requirement for success... or else the corner workers will be scraping the car off the barriers.

Pit Straight: Pit Straight is fairly long, and has somewhat of an uphill climb, significant enough to make Turn 1 extremely dangerous and unexpected. The Start/Finish Line is approximately located at Pit Exit.

Turns 1-3 (Festival Curves): This nasty chicane is practically unsighted on approach, with Turn 1 just beyond the crest of Pit Straight. The chicane itself is located in a natural dip, which makes hard braking even more of a requirement to keep from banging the barrier blocking a shortcut of Festival Curves. This right-left-right chicane will require braking through Turns 1 and 2, but Turn 3 can

be taken at full throttle due to the slow speed required for the first two corners. The course returns uphill exiting Turn 2.

Turns 4-5: This is a long sweeping right-hand hairpin-plus corner (at a little more than 180 degrees in total angle). While really just one corner, this is given two corner numbers in the same fashion as the banked turns of oval tracks. Light braking should be used for Turn 4, but a little beyond the first ninety degrees of the corner, the radius suddenly decreases, requiring moderate braking to keep the car on the track and out of the kitty litter.

Turn 6: This left-hand 135-degree J-turn quickly follows Turn 5 and renews the circuit's uphill climb, making the corner a little trickier than it appears. The hill crests at the exit of Turn 6, but those who begin braking for Turn 7 AT the crest will likely overshoot the next corner.

Turn 7: This right-hand corner immediately follows the crest at the exit of Turn 6. As such, this corner is truly only seen (especially from driver view) when it is too late to brake properly for the turn. Turn 7 is also the valley between two hills.

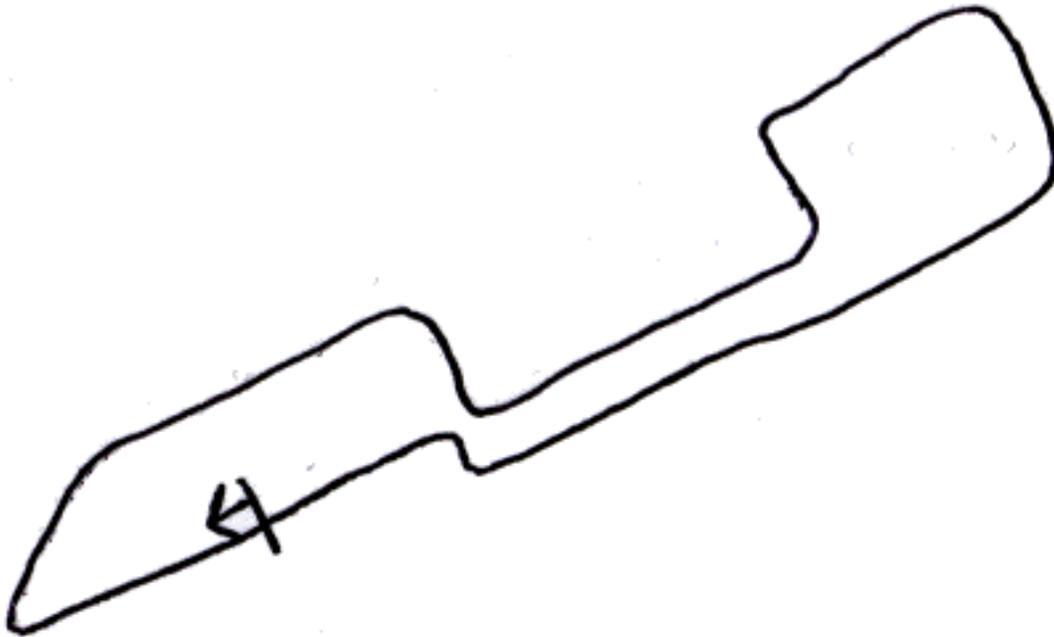
Straightaway/Turns 8-9: Not straight at all, this long, gentle uphill climb includes a fade to the left almost immediately after Turn 7. There are two other gentle fades, this time to the right, and both of these are indicated as official corners on the course map. Along much of this straightaway/Turns 8-9, the right-side barrier rests directly or almost directly against the pavement, so it is important to not get squeezed here on the right side while trying to make passes, especially in the area of Turns 8 and 9. This high-speed section of the circuit crests around Turn 9 and dips again, with another uphill segment beginning at the left-hand fade before Turn 10.

Turn 10: The slope of the climb lessens in this right-hand corner, making light or moderate braking very important.

Turn 11: Almost immediately upon exiting Turn 10, the course returns downhill for the final time, making light or (more likely) moderate braking key to staying on the track as the pavement turns right again.

Turn 12: This is really non-existent, but the official course map indicates that there IS a right-hand corner here. It is so slight that it is not even a fade. Pit Entry is on the right on corner exit, with both Pit Straight and Pit Lane heading up the long hill climb toward the Start/Finish Line.

ROUND 10: CLEVELAND (BURKE LAKEFRONT AIRPORT)



Burke Lakefront Airport, located on the southern shore of Lake Erie in Cleveland, Ohio, USA, is one of the few world-famous airport circuits. While not quite as popular overall as Silverstone in the United Kingdom, Burke Lakefront Airport is actually more challenging, especially due to its incredible bumpiness. When not in use, this is an actual working Airport servicing Cleveland and extreme northern Ohio.

Turn 1: This is by far the most difficult corner of the circuit. This is a right-hand J-turn of MORE THAN 135 DEGREES!!! This requires severe braking and a wide approach from the far-left of the Pit Straight. This also means that cars exiting Pit Lane have a FAR better approach angle or racing line for Turn 1, since the angle of the corner for them is only approximately fifty degrees (which inherently means that the potential for collisions with cars exiting Pit Lane is rather great here).

Turn 2: This is really a dogleg to the right onto one of the wider runways at Burke Lakefront Airport.

Turns 3 and 4: This is a glorified right-left chicane onto another runway. These are perpendicular corners requiring

moderate or heavy braking. Turn 3 especially will require heavy braking, since a lot of speed can be gained on the run from Turn 1.

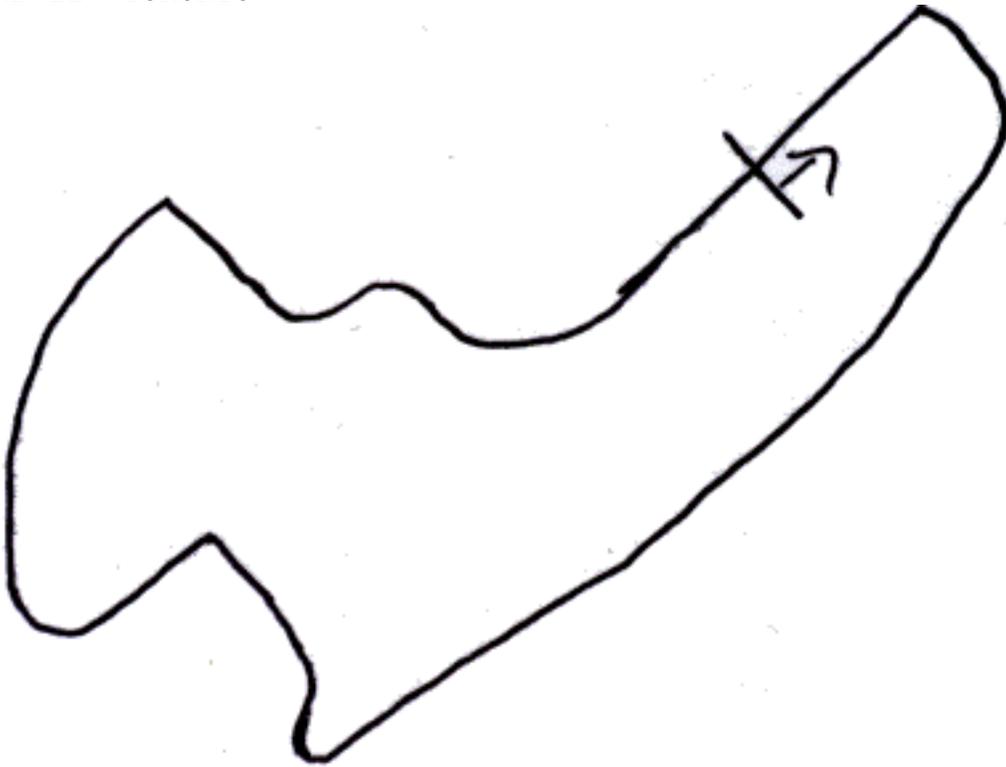
Turns 5 and 6: after a moderate straightaway, this is a glorified left-right chicane back onto the previous widened runway. These are perpendicular corners requiring moderate or heavy braking. Turn 5 especially will require heavy braking, since a lot of speed can be gained on the run from Turn 4.

Turn 7: After a short straightaway, this is a perpendicular turn to the right.

Turn 8: After a short straightaway, this is a perpendicular turn to the right leading onto the single longest straightaway of this race venue.

Turns 9 and 10: The final two corners of the Burke Lakefront circuit form a tight right-left chicane. Due to the intense speeds gained coming down the long straightaway from Turn 8, VERY HEAVY braking is required for Turn 9. However, it is important to not overcommit at Turn 9, as Turn 10 follows immediately. Adding to the difficulty of Turn 9 is that Pit Entry continues running straight ahead beyond the actual chicane, so there may well be VERY slow cars on the left side of the straightaway on approach clogging the optimal racing line.

ROUND 11: TORONTO



Toronto is a narrow street circuit - narrow enough that two-wide racing is difficult, thus passing is generally quite difficult. Granted, passing here is far easier than at Monaco, but it is still very important to qualify at the front of the grid here and then have patience in passing cars (especially slow backmarkers). The circuit is generally three lanes wide, but the high speeds and tight corners make passing tough nonetheless.

Pit Straight: A moderate straightaway, those able to carry good speed out of the final corner and NOT hit the outside barrier protecting Pit Lane can create good passing opportunities. Pit Exit is just beyond the Start/Finish Line.

Turn 1: This right-hand right-angle corner requires moderate braking on entry, then powerful acceleration on exit, as the brakes should not be used again until Dodge Corner.

Turn 2: Shortly after Turn 1, the course makes a wide right-hand sweep onto the back straightaway. Braking is not needed here unless an accident occurs ahead. This makes the area between Turn 1 and Turn 3 (Dodge Corner) the fastest and longest sustained acceleration zone of the Toronto venue.

Straightaway: There is a quick fade to the right about halfway along the straightaway. Cars can reach close to 200MPH before braking for Dodge Corner.

Turn 3 (Dodge Corner): This nasty right-hand 135-degree J-turn requires moderate or even heavy braking after such a long sustained acceleration zone.

Turn 4: Shortly after Dodge Corner, the circuit curves gently to the left. No braking should be needed here.

Turn 5: Moderate braking is needed for this tight left-hand corner. The ensuing straightaway is just long enough to pass ONE car if it is going really slow.

Turn 6: Only experts completely clear of traffic can power through the double-apex right-hand Turn 6 at full speed. Otherwise, light braking will be needed to keep off the barriers, as the turns here are just sharp enough to render full-throttle driving quite dangerous.

Turn 7: This is really a high-speed right-hand kink; no braking is needed.

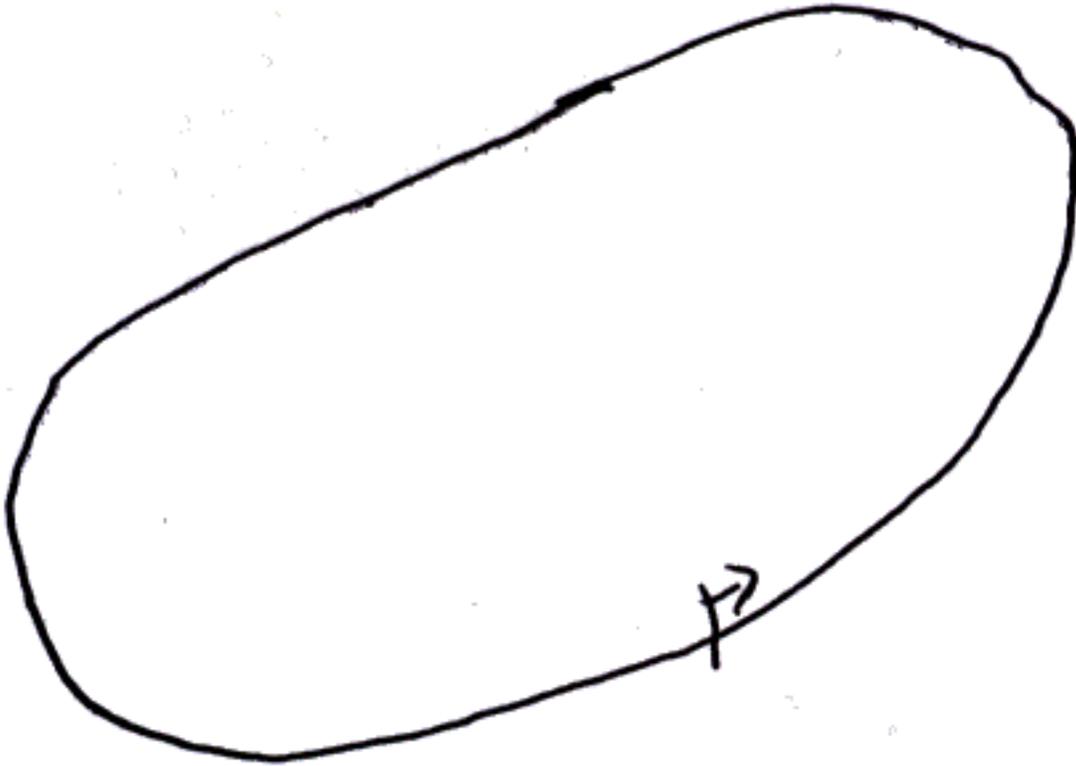
Turn 8: Entering the trickiest section of the circuit, this right-hand corner requires moderate braking and single-file driving.

Turn 9: Almost immediately following Turn 8, the course makes a left-hand right-angle turn which again requires single-file driving.

Turn 10: This is almost a mirror image of Turn 8, with Pit Entry to the right at the entry of Turn 10.

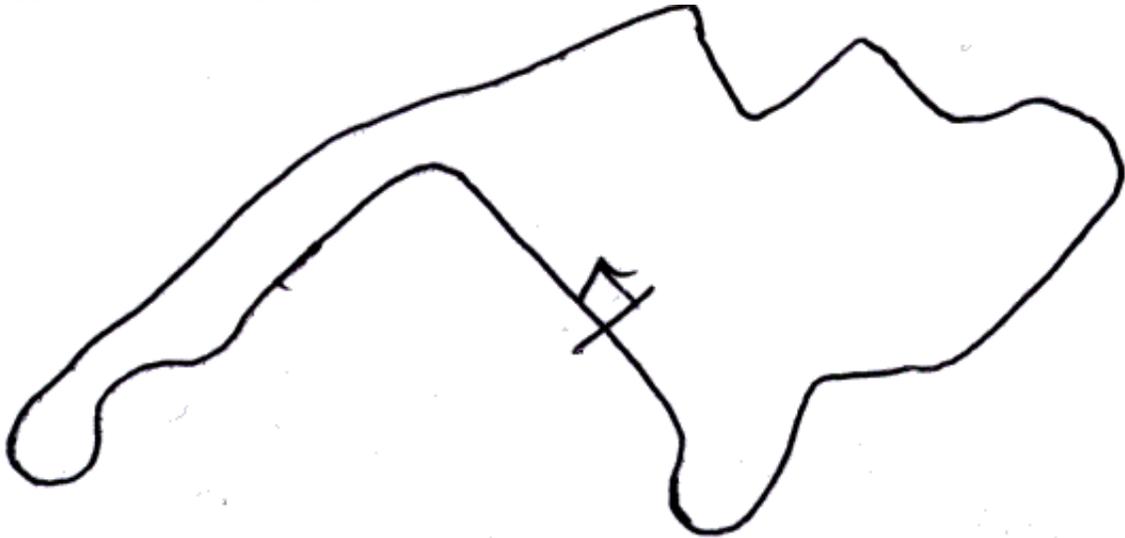
Turn 11: This is almost a mirror image of Turn 9, but slightly higher speeds can be carried here with little trouble. Powerful acceleration out of Turn 11 can pay dividends in terms of passing opportunities along Pit Straight.

ROUND 12: MICHIGAN



This is another oval circuit, with the Pit Straight bending slightly in trioval-style fashion.

ROUND 13: MID-OHIO



This world-famous racing venue hosts numerous forms of motorsport, from CART to Speed World Challenge to various motorcycle events. The track design is somewhat weird, especially since Pit Straight is one of the shortest straightaways at Mid-Ohio. Many corners have off-color strips of pavement, so these can help to mark corners on approach.

Pit Straight: Pit Straight is actually rather brief; however, strong acceleration out of the final corner and drafting along Pit Straight can create great passing opportunities entering and exiting Turn 1, especially if no braking is needed.

Turn 1: This semi-gentle left-hand corner can possibly be taken at full speed, especially if making use of the Pit Exit pavement as Pit Lane rejoins the main circuit. If at all possible, remain heavy on the throttle throughout Turn 1, as this will create great speed (especially if combined with drafting tactics) along the ensuing straightaway.

Straightaway: This is the second-longest straightaway at Mid-Ohio. If no braking was required in Turn 1, then slower cars can be passed with ease along this straightaway. Near its end, look for the chicane pavement on the right; while it is not used, this comes directly at

the end of the straightaway, so this is an excellent means to mark the braking zone for Turn 2.

Turn 2: This second-gear right-hand hairpin can be trickier than the standard hairpin in part due to the tremendous speeds coming off the previous straightaway. Similarly, it is also a very important corner because it empties out onto the single longest straightaway at Mid-Ohio; therefore, it is necessary to carry as much speed as possible in the hairpin without sliding or spinning the car (and this is a difficult feat to accomplish) combined with powerful acceleration exiting the hairpin.

Straightaway: This is the single longest straightaway at Mid-Ohio, so powerful acceleration out of Turn 2 is required to set up the best passing opportunities. This straightaway is about 1-2/5 times as long as the previous straightaway, with a very gentle fade to the right roughly halfway along its length.

Turn 3: After the high speeds attained on the prior straightaway, this right-hand heavy-braking corner will be even trickier due to the excessive speeds (upward of 200MPH) on the previous straightaway.

Turn 4: Almost immediately after Turn 3, the left-hand Turn 4 will require at least light braking to keep off the too-near barrier. There is a brief straightaway between Turns 4 and 5 which can afford some passing opportunities, so powerful acceleration out of Turn 4 is needed.

Turn 5: This right-hand corner needs moderate braking to keep to the pavement.

Turn 6: Almost immediately after Turn 5, this left-hand corner requires at least light braking to keep out of the kitty litter.

Turns 7-8: This fast right-hand double-apex complex requires light braking to stay on the pavement.

Straightaway: Not really straight at all, the course takes an uphill climb on a long right-hand fade.

Turn 9: Continuing the uphill climb, this left-hand corner requires moderate braking to keep to the pavement. The course crests on corner exit, making Turn 10 even trickier.

Turn 10: Just beyond the crest of the circuit, this moderate right-hand hairpin requires moderate braking to keep on the pavement. Pit Entry is a straight run after the first ninety degrees of the corner; the main course makes a full 180-degree turn.

Turn 11: Just beyond Turn 10, this final left-hand corner can be taken at full speed with enough slowing through the previous hairpin. Powerful acceleration is required coming out of Turn 11, as experts will not need to brake again until Turn 2 (the tight hairpin).

ROUND 14: ROAD AMERICA



This popular racing venue is both insanely fast and insanely tricky, making car set-ups rather difficult to achieve the right balance between speed and cornering.

Pit Straight: This is by far the longest straightaway of the circuit, leading down into a TIGHT Turn 1. Drafting tactics are extremely beneficial here to achieving low lap times and gaining valuable race positions. Pit Straight crests about halfway alongside Pit Lane, with the Start/Finish Line near the end of Pit Lane.

Turn 1: This right-hand near-perpendicular corner will require moderate or (most likely) heavy braking after reaching close to 200MPH on Pit Straight.

Turn 2: There really is not even a corner here, but more of a VERY slight bend to the right, but this is listed in Road America's official brochure as a corner. This actually runs over Briggs & Stratton Tunnel, which allows teams to get to and from the Paddock areas.

Turn 3: After a short straightaway, this right-hand J-turn leads onto another significant straightaway. Moderate

braking will likely be required for Turn 3, but powerful acceleration on exit provides for good drafting/passing opportunities along the ensuing straightaway.

Straightaway (Turns 3A and 4): At approximately 85% of the length of Pit Straight, this straightaway provides invaluable opportunities for drafting and passing numerous cars. There are extremely gentle fades to the right and the left, officially marked as Turn 3A and Turn 4, respectively.

Turn 5: This nasty left-hand J-turn requires moderate or (most likely) heavy braking after achieving close to 200MPH on the previous straightaway. This is the entrance to the technical portion of the circuit, where cars with high-downforce set-ups will likely benefit greatly.

Turn 6: After a brief straightaway, this left-hand perpendicular corner immediately follows Toyota Bridge. Moderate braking is needed to keep to the pavement here.

Turn 7 (Hurry Downs): After another brief straightaway, the course makes about a fifty-degree right-hand turn here. Light braking - if any - is used here; the key is to keep up as much speed as possible to pass slower cars on exit.

Turn 8: After a slightly longer straightaway, this left-hand perpendicular corner requires moderate braking. This is a prime place to pass on braking, especially if using a high-downforce set-up.

Turns 9-10 (The Carousel): This is essentially one long seemingly-neverending hairpin corner. Light braking is almost certainly required on entry, and likely throughout The Carousel; however, a good amount of speed can usually be carried here. Take care in passing slower cars on the racing line, as such passes require using the outside line, and The Carousel is just long enough to trick drivers into believing that they can carry more speed here than the laws of physics are willing to allow. Carrying strong speed out of The Carousel is key, as it is possible to power down to Canada Corner without ever tapping the brakes. Especially

here in The Carousel, it is very important to remember that if the tires start squealing and producing whitish-grey smoke, the car is cornering too quickly and loss of control is quite likely if speed is not quickly reduced.

Turn 11 (The Kink): This obtuse-angle right-hand corner can generally be carried at full throttle, unless there are several slower cars blocking the pavement as they race each other for position. Mind the racing line here, however, so as to not drop a wheel off the circuit.

Straightaway (Kettle Bottoms, Turns 11A and 11B): This straightaway contains a few gentle fades, officially labeled as Turn 11A and Turn 11B, respectively. This is a good section of the course for drafting as the course slowly rises in elevation.

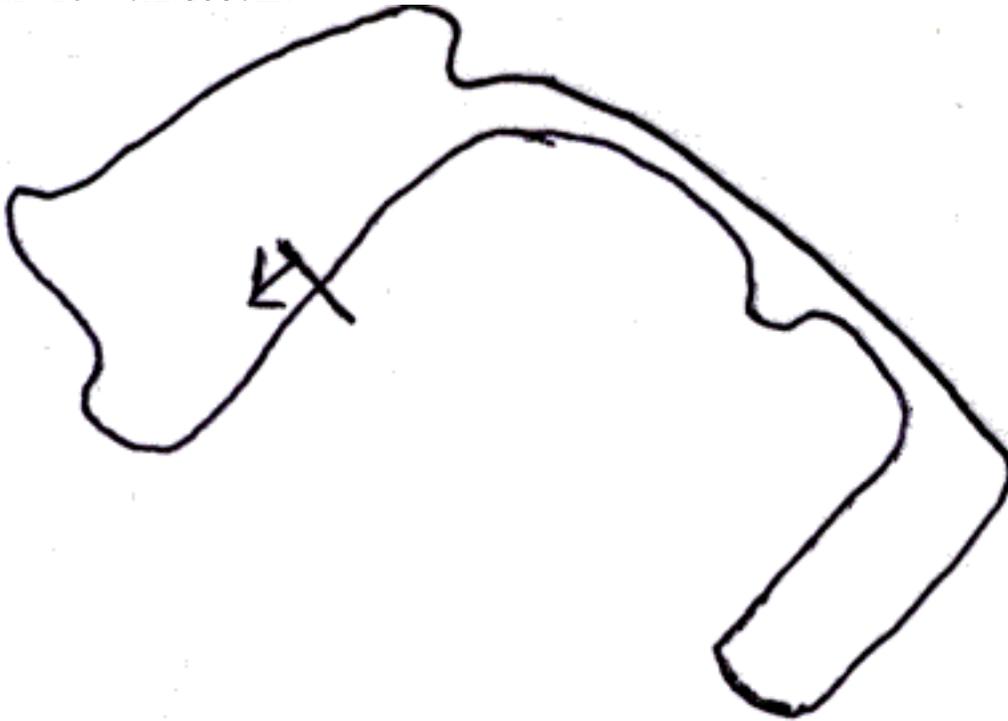
Turn 12 (Canada Corner): This right-hand near-perpendicular turn requires moderate braking on entry. After the long high-speed run from The Carousel through The Kink and Kettle Bottoms, Canada Corner can be a great place to pass on braking on corner entry.

Turn 13: Just beyond Canada Corner, the circuit fades to the right. While braking is not required here, the official Road America brochure lists this as a corner.

Turn 13A: This IS a corner, a left-hand turn requiring light braking to keep to the optimum racing line.

Turn 14: The final corner of the circuit, this right-hand J-turn leads onto the super-long Pit Straight. Strong acceleration out of Turn 14 is required as cars climb the hill toward the Start/Finish Line to pass and keep from being passed.

ROUND 15: VANCOUVER



This is a highly-challenging street circuit in Vancouver, British Columbia, Canada. The corners are tight and difficult, and the straightaways are generally fairly long and fast.

Turns 1-3: Following the Pit Straight, Turn 1 is a nasty right-hand perpendicular corner requiring heavy braking. After virtually no straightaway at all (in which Pit Exit rejoins the main circuit), the tight right-hand Turn 2 follows, followed instantly by the left-hand Turn 3. The opening laps will see A LOT of blocked traffic here until the cars can spread out.

Turn 4: This is a nasty right-hand 135-degree J-turn. The corner itself fortunately is a bit wider than the straightaways leading up to and away from it, but that can trick drivers into overcommitting and then banging the outside barrier on corner exit. The corner itself is instantly followed by a quick fade to the left.

Straightaway: Turn 4 leads onto a long straightaway which actually curves gently to the right.

Turns 5 and 6: This is a nasty right-left triangle-shaped chicane designed to slow the cars. Moderate braking is needed on entry, and perhaps heavy braking will be needed for Turn 6 depending on the amount of speed carried through Turn 5. The exit of the chicane instantly fades to the right, completing the triangular nature of the chicane. This opens onto the single longest straightaway at Vancouver... and it really is not very long in the overall scheme of things :-)

Turn 7: This is a nasty right-hand perpendicular corner requiring moderate or heavy braking.

Turns 8 and 9: This is a pair of right-angle right-hand corners requiring moderate braking. By using a VERY wide racing line and coming just millimeters from the outside barriers, these two corners can essentially be treated as one wide, extended hairpin corner.

Turn 10: Here, the circuit turns to the left. Moderate braking is still needed here, although it is not nearly as tight as the preceding corners.

Turns 11 and 12: This is another triangular chicane, this time left-right. A dogleg to the left instantly follows the chicane. Moderate braking will be needed throughout.

Turns 13 and 14: Finally, the circuit heads back to the left to rejoin Pit Straight. This is a pair of left-hand doglegs which essentially form a single double-apex corner. Slight braking may be warranted in either or each of these doglegs.

ROUND 16: LAGUNA SECA



Located in Monterey, California, USA, Laguna Seca Raceway hosts many events every year, including the Grand Prix of Monterey featuring the Shell 300 (part of the CART/FedEx Championship Series), the International Superbike Classic (SBK/AMA Superbike Series), Rolex Monterey Historic Races, and Monterey Sports Car Championships (the American Le Mans Series). In terms of aesthetics, Laguna Seca is itself not a really beautiful circuit. There is generally ample recovery room along both sides of the pavement. However, there is a lot of sand just along the pavement around much of the circuit, so dropping the right-side or left-side wheels off the pavement can both slow the car, and kick up a lot of dust to obscure the vision of trailing vehicles. Without question, the most famous and most difficult section of the circuit is the Corkscrew, a moderate left-right chicane on a nasty downhill mini-mountain just meters beyond the crest of the circuit. Also difficult is the final corner, a tight left-hand perpendicular corner with a concrete barrier almost flush up against the pavement to block any attempts at shortcutting the corner.

Turn 1: This is actually just a slight 'kink' to the left just underneath the pedestrian bridge at the Start/Finish Line. On exiting this 'corner,' Pit Exit rejoins the main circuit from the left. From here, the circuit slopes gently downhill to Andretti Hairpin.

Turn 2 (Andretti Hairpin): This hairpin is actually a little more than the standard 180 degrees. Moderate or heavy braking will be required on approach, especially for cars with an extremely high horsepower output (700+ HP). The best racing line is to approach from far-right, roll the left-side tires on the rumble strip at the apex, then drift back to the right on exit. The cones here block the old Pit Exit, which used to rejoin the main circuit at the exit of Andretti Hairpin. Cars which overshoot Andretti Hairpin will find themselves beached in the vast expanse of kitty litter to the outside of the hairpin.

Turn 3: This right-hand corner will require moderate braking for most vehicles in the game. Beware of sliding outward on exit, as the barrier is not very far off the pavement.

Turn 4: Another right-hand corner, this turn can be taken with either slight braking for high-power vehicles, or flat-out by all other cars; both alternatives depend upon a solid racing line. Again, beware of drifting off the pavement on exit, as the barrier is not very far off the pavement.

Straightaway: About two-thirds of the way along this straightaway (just past the end of the grandstands), the circuit bends very gently to the right. This can be a good place to judge the braking zone for Turn 5.

Turn 5: Moderate braking will definitely be required here for this left-hand corner, unless you really want to slide out into the sand on the outside of the corner and into the nearby concrete and tires.

Turn 6: A bridge marks the entry of Turn 6, which is a good reference point in case the distance-to-corner markers are

knocked down or out of position during a race. Except for the highest-power vehicles, the left-hand Turn 6 can be taken flat out by experts by using the rumble strips at the apex and exit, IF a pristine racing line can be held at full throttle. On both sides of the pavement on exit, sand awaits those who slide off the circuit or misjudge this corner. A long uphill climb begins here.

Turn 7: Literally a few meters from the highest point of the circuit, this extremely gentle right-hand 'kink' could be taken flat-out if not for the upcoming Corkscrew. For most cars, braking must begin no later than Turn 7 to avoid colliding with the barrier entering the Corkscrew.

Turns 8 and 8A (Corkscrew): This is the world-famous Corkscrew, one of the trickiest sections of racetrack on the planet. There is little run-off room through the Corkscrew, which is a moderate left-right chicane on a steep downhill mini-mountain which takes cars from the highest to the lowest point on the circuit. Cars with moderate or high horsepower output are likely to have plenty of trouble here, whereas low-power cars will not have the speed to cheat gravity (without even trying). If the tires are worn, expect plenty of trouble here.

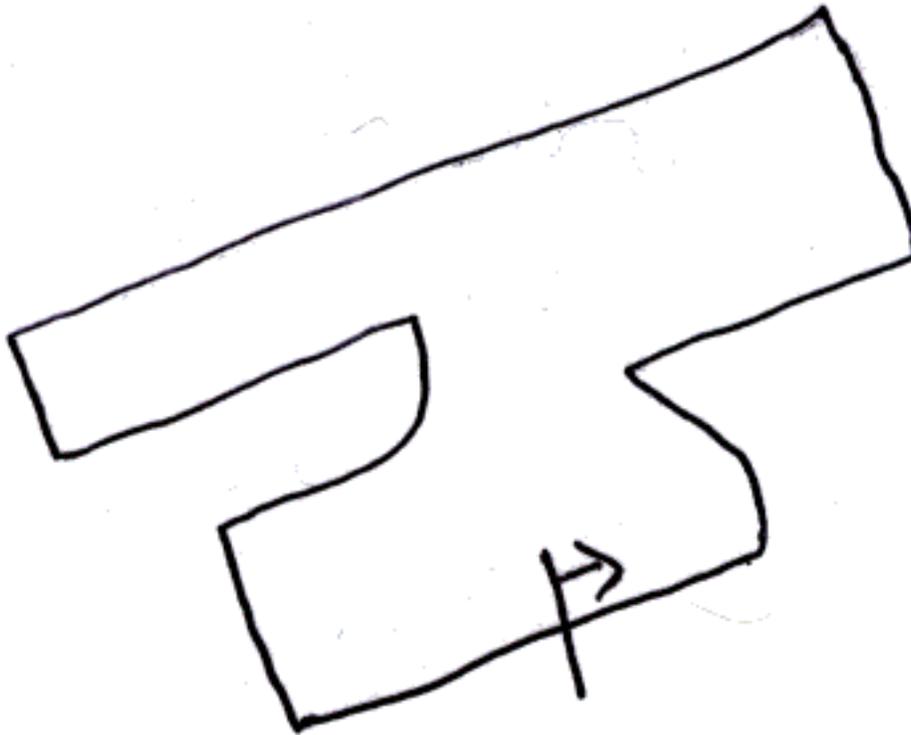
Turn 9 (Rainey Curve): This left-hand corner at first appears to be only a perpendicular corner, but continues on beyond the pedestrian bridge, making this corner trickier than one might assume. A solid racing line is key here, but may be hard to set up at high speeds coming off the Corkscrew. Those who overrun Rainey Curve will be in the grass, but the barrier is not very far away.

Turn 10: After a brief straightaway, this right-hand turn is bounded by a barrier, obscuring a clear view of traffic around the corner and blocking any shortcutting. Moderate braking is required here for most cars, although plenty of sand-infested recovery room is available to the outside of the pavement. If heading to Pit Lane, it is possible to keep up a rather fast speed to Pit Entry by purposely swinging out into the sand and passing slower cars keeping to the pavement.

Turn 11: This 125-degree left-hand corner is bounded on the inside by a concrete barrier. Those who overshoot this tight turn will be in the sand to the outside of the corner, then banging the barrier beyond. Strong acceleration out of Turn 11 will allow for good passing opportunities along Pit Straight and down to the entry of Andretti Hairpin.

Pit Entry: This begins to the left just before the entry to Turn 11. However, there is virtually no deceleration room before Pit Entry has its own nasty tight left-hand corner, so adequate deceleration is a MUST while still on the main circuit or else the vehicle WILL ram the barrier in Pit Lane.

ROUND 17: HOUSTON



Set in Houston, Texas, this venue features mostly perpendicular corners - not surprising for a circuit set within a city. The back straight is the longest straightaway of the circuit, lasting for a full seven city blocks. Most corners have rumble strips and paved mini-recovery areas, but some apexes have only unforgiving barriers, so make sure the first laps at this venue are nice and slow to become familiar with where one can and cannot clip the inside rumble strips.

Turn 1: This is a left-hand perpendicular corner, with shortcutting possibilities by crossing the rumble strips. Immediately after the corner itself, the road fades to the left.

Turn 2: Immediately after the fade, the course turns sharply to the right in a J-turn. Moderate braking is needed here, although light braking can be used if shortcutting the corner.

Turn 3: This left-hand perpendicular corner does not have shortcutting possibilities, so moderate or heavy braking AND a solid racing line are required to safely clear this corner.

Turn 4: Two city blocks beyond Turn 3, Turn 4 is a shortcuttable left-hand perpendicular corner. Light or moderate braking can be used here.

Straightaway: This is the longest straightaway of the Houston circuit, covering a total of seven city blocks. Speeds approaching 200MPH are quite possible here, even without drafting.

Turn 5: After the long back straightaway, moderate or even heavy braking will be required here to keep from banging the barriers on this left-hand perpendicular corner. Shortcutting is possible here.

Turn 6: Very quickly after Turn 5, this left-hand right-angle turn requires light braking. Shortcutting is possible.

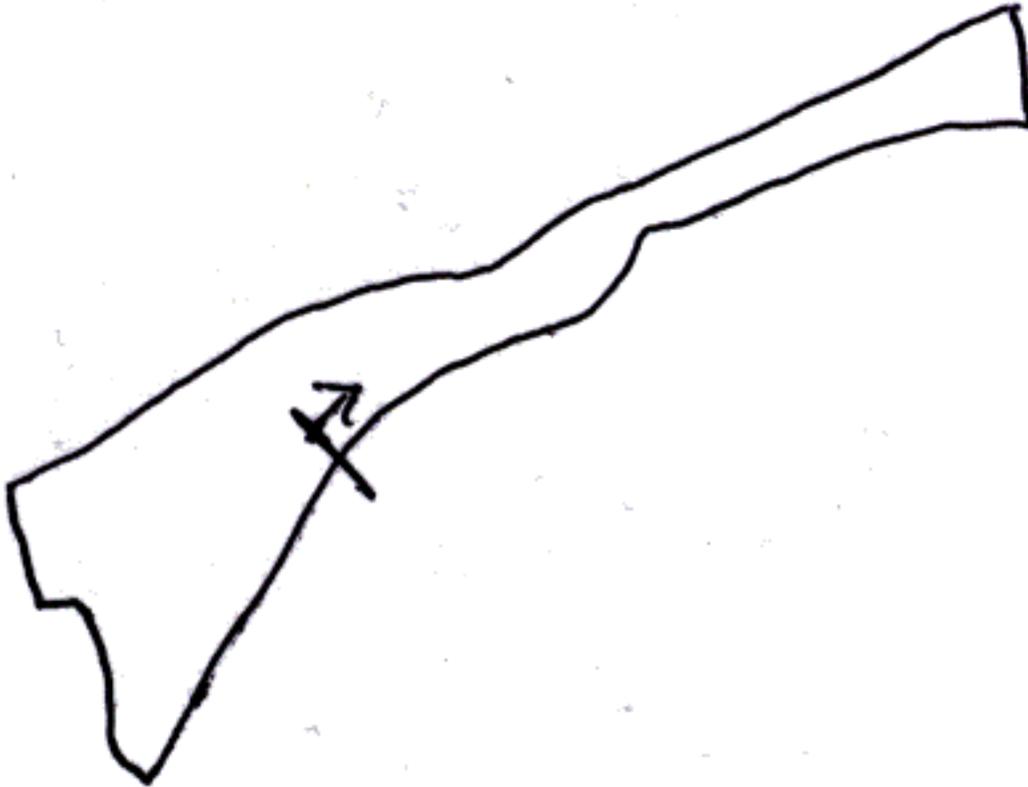
Turn 7: Moderate braking is needed for this right-angle right-hand corner; shortcutting is possible.

Turn 8: Immediately after Turn 7, the course makes a right-hand bend. Braking should not be needed here.

Turn 9: This left-hand perpendicular corner required moderate braking and does not have the possibility of shortcutting.

Turn 10: Light braking should be used for this final left-hand corner, also a right-angle corner with shortcutting possibilities.

ROUND 18: GOLD COAST (SURFERS' PARADISE)



This Australian race venue is very scenic, located very near the Pacific Ocean; television coverage always includes plenty of shots of people swimming, surfing, or tanning on the beach. However, the circuit itself is by far the trickiest on the CART circuit. A very interesting arcade-style version of Surfers Paradise appears in the PlayStation2 game CART Fury; however, the real venue and most other game renditions are far less fun to drive.

Pit Straight: Like the Long Beach venue, Pit Straight is a long gentle curve to the right, this time running along Gold Coast Highway (which does not actually run along the coast). Powerful acceleration out of Turn 11 is important to set up passing opportunities along Pit Straight. Pit Straight twice passes over Nerang River, with the actual Paddock and Main Grandstands located on Macintosh Island.

Turn 1 (Honda Chicane): This tight moderate-braking left-right-left chicane is literally created in the middle of Gold Coast Highway by rumble strips surrounding patches of

grass. In other words, the width of the available pavement narrows significantly from three lanes to one here; single-file is the ONLY way cars can pass through this area, so extremely care must be taken here at the start of a race and on restarts. Smart drivers WILL NOT attempt to pass on braking entering Honda Chicane.

Turn 2: This is another chicane, similar to Honda Chicane, but only light braking is required. Also, the chicane itself is two lanes wide, although two-wide racing through this chicane will almost certainly result in an accident.

Straightaway: The circuit continues its long gentle right-hand fade. This is a great passing zone for cars able to keep up good speed through the Turn 2 chicane.

Turn 3 (Cellular One): This tight left-hand J-turn leads the cars toward the Pacific Ocean and Surfers Paradise Beach. Moderate braking is key here.

Turn 4: This left-hand perpendicular corner can likely be taken with light braking only. It is important to carry as much speed as possible through Turn 4 and onto the back straightaway to set up the best possible passing opportunities.

Straightaway: To the right is Surfers Paradise Beach and the Pacific Ocean... but the barriers block any views of bikini-clad sunbathers :-). The straightaway is three lanes wide, allowing for ample racing room.

Turns 5-6 (Worldcom Beach Esses): This left-right chicane narrows to two lanes, and is more or less constructed within the straightaway with imported grass and rumble strips. Generally, only light braking should be needed here, unless encumbered by traffic.

Straightaway: The circuit eases gently back to the right (at an angle) toward Surfers Paradise Beach again. Those able to keep good speed through the Worldcom Beach Esses can benefit in terms of passing opportunities.

Turn 7 (Fosters Chicane): This is a NASTY one-lane set of consecutive chicanes built within the confines of the straightaway with imported grass and rumble strips. Moderate or heavy braking will be required to enter this segment, and only precision technical driving will allow drivers to safely clear Fosters Chicane. It may be best to treat Fosters Chicane like a slalom, such as the slalom license tests in Gran Turismo 2; in fact, the slalom tests from GT2 can provide great benefits here for those able to keep up enough speed to score a Gold Medal in one or both of those slalom tests.

Straightaway: The course returns to three lanes here, so faster cars exiting Fosters Chicane should be able to quickly move around cars unable to keep up much speed in the tricky slalom-like section. Prepare for Turn 8 (Falken Tyres) when entering the area with the skyscrapers at the end of the straightaway.

Turn 8 (Falken Tyres): This left-hand corner can be tricky, requiring moderate braking. It is easy to miss seeing this corner until it is too late to avoid the barriers due to the color of the barriers all seemingly running together, so take care on approach. The exit of Turn 8 enters a section of two-lane racetrack, so passing will be more difficult from here to Pit Straight.

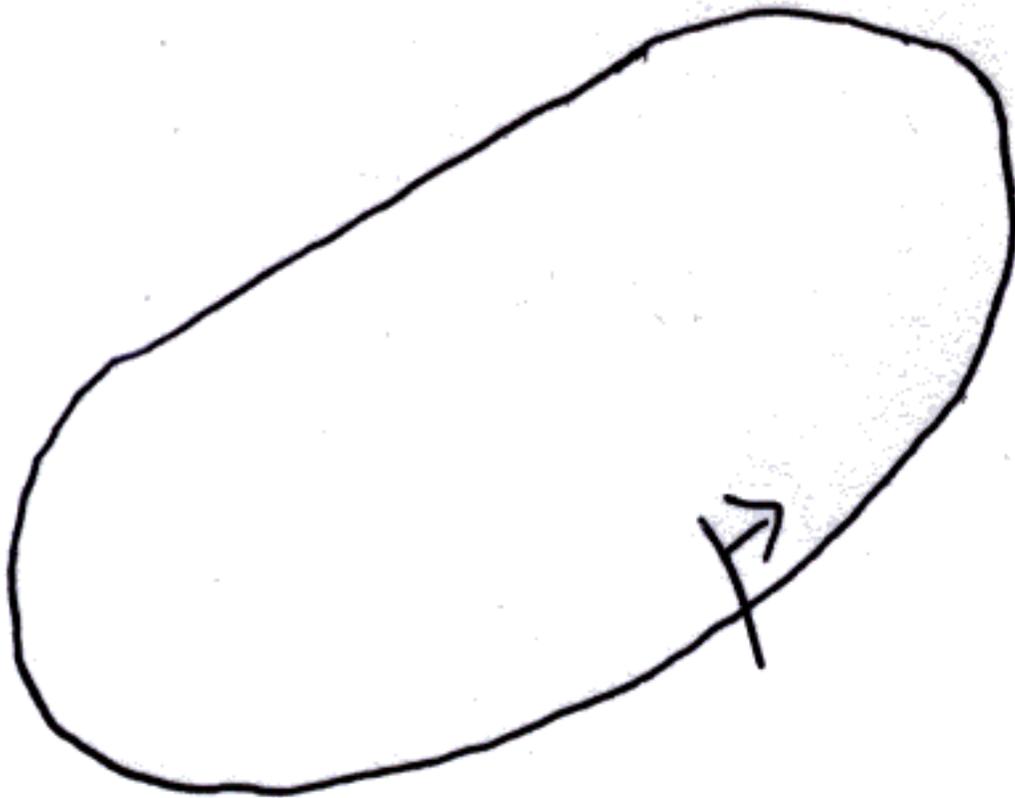
Turn 9: This left-hand turn onto Serisier Avenue requires moderate braking. Use the pedestrian bridge on approach to judge the braking zone.

Turn 10: Turning right onto Hill Pde, moderate braking will be needed. The circuit is still just two lanes wide here, yet high speeds can be attained, so take extreme care in passing.

Turn 11 (Honda Hairpin and Hill): There is a nasty kink to the right immediately before entering this left-hand double-apex 'hairpin' corner. Moderate braking will be needed before the nasty kink, and full acceleration is best delayed until at the second apex. Powerful acceleration is required to rocket out of Turn 11 and attain excellent

passing opportunities all the way along Pit Straight to
Turn 1 (Honda Chicane).

ROUND 19: FONTANA



The 1998 CART season ends at an oval circuit specifically designed to somewhat mimic Michigan.

CONTACT INFORMATION

For questions, rants, raves, comments of appreciation, etc., or to be added to my e-mail list for updates to this driving guide, please contact me at:

FEATHER7@IX.NETCOM.COM; also, if you have enjoyed this guide and feel that it has been helpful to you, I would certainly appreciate a small donation via PayPal (<http://www.paypal.com/>) using the above e-mail address.

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