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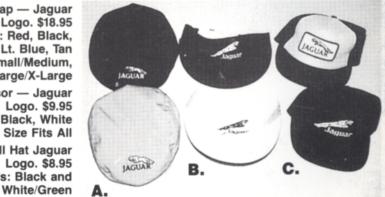
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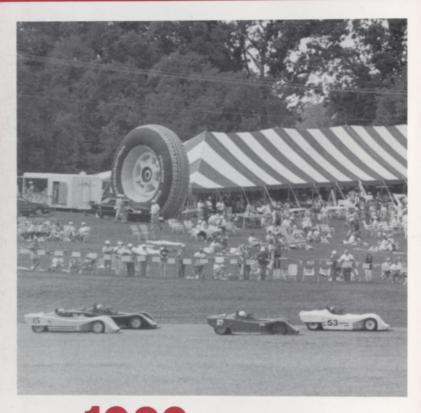
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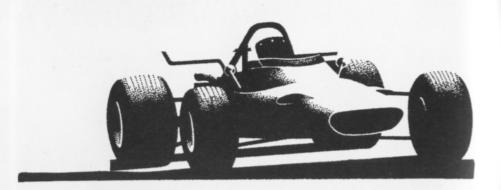
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DON CASTLE

Above Photo by DON CASTLE Cover Photos by DON CASTLE

4



The Inside Line

Welcome to Waterford Hills Road Racing! Well, it's August again and you know what that means. You DO don't you? It means the possibility of hot weather, the likelihood of a substantial crowd on the Hill, and the CERTAINTY of plenty of action on the track. So find yourself a good spot and settle in. The fun's about to start.

We'd like to extend a special welcome to staff and clients of the Uniroyal-Goodrich Tire Company, here to enjoy their annual motorsports outing. Waterford style. Prior to the adoption of the Club Ford racing class by the Sports Car Club of America, B.F. Goodrich ran a contingency program to assist and award those racing in the Formula Ford Radial class. Following the deletion of that class, a plan was devised for last season to provide the same services to those using BFG tires in the Showroom Stock and Improved Touring groups here at Waterford Hills. The smiles seen last year when the checks were passed out are typical of racer response to BFG support throughout the country. Thanks folks! We're glad you're here. We hope you'll find your day enjoyable.

If your regular viewing spot is already taken today, I tried one for a while last race weekend that you might want to check out. The fence or stands along the short straight between Archers Corner and Paddock Curve (see the course map on page 35) gives a very different perspective from that of the Hill Side spectator area. For one thing, you are fairly close to the cars as they attain their highest speeds just before braking for Archers. Secondly, you will get to see many passing maneuvers (both successful and unsuccessful) undertaken here. Most significantly, however, you will once and for all solve for yourself the mystery of the source of those voluminous dust clouds which you have seen rising from behind the tower. Our answer to the Gobi Desert... and somebody WILL get there. Guaranteed!!

WATERFORD DIGEST

Don't miss our season finale, September 26-27. All the class championships and the Top Ten driver placings will be settled in our last run before the cars go up on jackstands until next year. Have a safe trip home. We hope to see you again in September.

Cal Cortright

PHOTO BY AL BIZER



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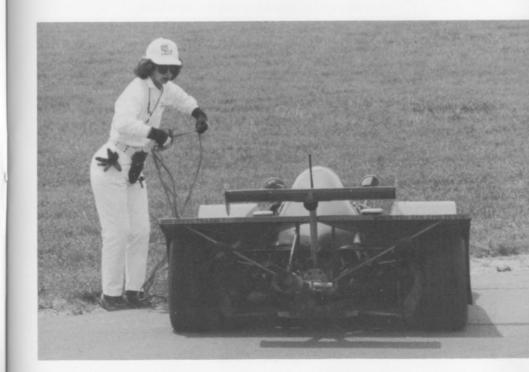
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Technically Speaking

Aspect ratio plays major role in footprint area, hydroplaning and plus sizing

By Dave McKibben, Tire Development Engineer, Tire and Vehicle Dynamics BFGoodrich

Many people use low aspect ratio tires because they want to achieve a wide, high performance look. In fact, aspect ratio has a significant impact on tire performance.

In this article, I want to talk about aspect ratio in relation to a tire's footprint area, hydroplaning and "plus-sizing."

As an example, let's look at the P235/60R13 and the P205/70R13. Both of these tires have the same outside diameter and approximately the same total footprint, or contact area. However, the P205/70R13 has a long, narrow footprint area, while the P235/60R13 has a shorter, wider footprint. It is important to understand that each of these footprint shapes has its own unique performance characteristics.

When cornering at a large slip angle, a tire with a short, wide footprint holds a greater percentage of its tread elements to the road surface at the point of maximum. force. This is one of the primary reasons why a low-aspect-ratio tire corners significantly better than a higheraspect-ratio tire.

On the other hand, a highaspect-ratio tire, because it has a long, narrow footprint, does a better job of cutting through water and snow.

Here's why: A tire moves through water by pushing it ahead and away. Obviously, a tire with a narrower leading edge will have less water to move. The rest of the water is channeled into the grooves of the tread pattern and expelled at the trailing edge of the footprint or through the lateral grooves.

The process of the tread elements pushing the water out of the way in order to get to the pavement takes time to occur. This results in a lack of traction at the leading edge of the footprint. As the speed of the car increases and the water becomes deeper, the distance back into the footprint where

BFGoodrich

traction is lost becomes longer until it reaches the rear of the footprint and hydroplaning occurs.

As you can see, a high-aspect-ratio tire with its long, narrow footprint has a better chance of maintaining contact with the road surface. The length of the footprint gives the tread elements a longer time to maintain contact with the road surface as the tire rids itself of the water in its path.

Now we have a better understanding of aspect ratios, their effect on performance, load-carrying capacity and the footprint area. But how do we choose a replacement tire with a lower aspect ratio that has approximately the same overall diameter as the O.E. tire, that isn't too wide and has the same, or greater, load-carrying capacity? The answer is to choose another wheel size.

By checking the T/A data book, you will see that a P215/60R14 has approximately the same overall diameter as the P205/70R13.

This tire, the P215/60R14, is only 3/8 in. wider than the P205/70R13, so chances are good that it will fit the vehicle.

You still may have to physically check clearances on the car. Then, add one psi to adjust the load-carrying capacity upward. (Note that the one psi you're adding is one psi higher than the manufacturer's recommended inflation pressure for the 70-series tire. One pound of air pressure is required because, at the same pressure, the 60-series tire has a bit less load-carrying capacity than the 70-series tire.)

With the extra pound of inflation pressure, the 60-series tire will have a slightly higher load-carrying capacity than the 70-series tire it replaced.

Proper load-carrying capacities can be found in the tire load and inflation tables in the *Tire Inflation and Substitution Guide*.

This, of course, is a Plus 1 conversion. The rule of thumb for a plus conversion is to add one inch to the wheel diameter, subtract 10 from the aspect ratio and add 10 mm to the section width.

Applying this rule twice (or by reapplying the formula to the Plus 1 size) yields a Plus 2 conversion. The Plus 2 replacement size, for example, would be a P225/50R15.















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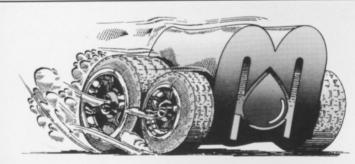
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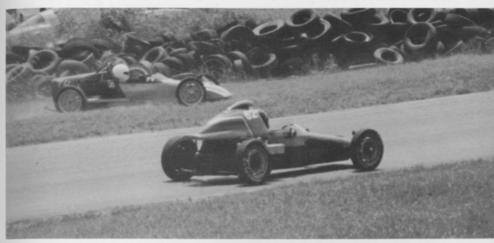
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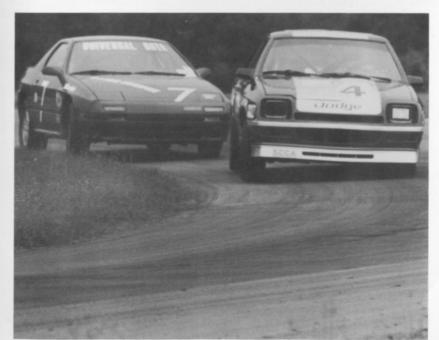
SIDEWALL	Serrated black letters	Raised white letters or serrated black letters	Raised white letters or serrated black letters	Raised white letters on one side, serrated black letters on the other side	Serrated black letters
SPEED-RATING	Z Speeds over 149 mph V Speeds over 130 mph	## Speeds up to 130 mph	H Speeds up to 130 mph	5 Speeds up to 112 mph	5 Speeds up to 112 mph
RIDE	GOOD	VERY GOOD	VERY GOOD	EXCELLENT	SUPERIOR
TREAD LIFE	GOOD	EXCELLENT	EXCELLENT	SUPERIOR	VERY GOOD
WET & DRY TRACTION	SUPERIOR	EXCELLENT	VERY GOOD	GOOD	GOOD
SNOW TRACTION	GOOD	EXCELLENT	VERY GOOD	SUPERIOR	VERY GOOD
HANDLING	SUPERIOR	EXCELLENT	VERY GOOD	GOOD	VERY GOOD

NOTE: RANKINGS ARE ORDERED FROM GOOD, VERY GOOD, EXCELLENT TO SUPERIOR









SATURDAY CLASS RACES JULY 8 & 9 1989 CLASS WINNERS

CLASS	DRIVER	CAR	BEST LAP
RACE 1			
SREN	SEAN MACNEALY	SPEC RACER-RED	1:21.18
RACE 2			
ITA ITB ITC SSA SSB SSC	JAMES MORRIS J DIXON HALL JERRY MORLEWSKI GARY RAY MICHAEL MEIMAR ERIN PASSARELLI	BMW 2002 – SILVER CHARGER-LT BLUE COLT – GREEN MAZDA RX7 – RED SHELBY – SILVER/BLUE TOYOTA MR2 – SILVER	1:27.11 1:28.45 1:26.85 1:26.28 1:26.16 1:29.56
RACE 3			
FA FC CSR S2	ARMEN MEGREGIAN TERRY ABBOT GARY BENNETT RON GRIFFIN	LOLA – WHITE SWIFT – RED LOLA T328 – BLUE LOLA – YELLOW	1:12.92 1:08.59 1:13.85 1:12.32
RACE 4			
FP GP HP ITS SSX SSGT	JOHN KUBIAC ROBERT OHNECK II JIM MILLER DION JOHNSTON GARY JOHNSON MICHEAL ST. LOUIS	TRI. SPITFIRE – BLUE SPITFIRE – RD/SIL/BLK SPRITE – BL/GOLD NISSAN 280Z – RED DODGE GLH – YEL/WHT CORVETTE – WHITE	1:20.73 1:20.53 1:28.55 1:23.35 1:23.76 1:20.37
RACE 5			
FF CFF	LEW COOPER III TOM LEATHLEY	VAN DIEMAN – WHITE LOLA T204 – GREEN	1:13.52 1:15.06
RACE 6			
EP GTX GT1 GT3 GT4	JIM ARTHURS PETE MORGAN DOUG BUIST GARY HUMPHREYS DANIEL STRONG	ALFA – RED CORVETTE – ORANGE FIERO – RED/YEL PORSCHE 911 – BLUE SUNBIRD – WHT/RED	1:19.47 1:17.27 1:12.48 1:17.50 1:27.65



WATERFORD DIGEST

SUNDAY CLASS RACES JULY 8 & 9 1989 CLASS WINNERS

CLASS	DRIVER	CAR	BEST LAP
RACE 1			
SREN	SEAN MACNEALY	SPEC RACER-RED	1:20.25
RACE 2			
ITA ITB ITC SSA SSB SSC	GREGORY MANKIN KEITH PRICE JERRY MORLEWSKI GARY RAY MICHAEL MEIMAR ERIN PASSARELLI	MAZDA RX2—BLUE OPEL—BRONZE COLT—GREEN MAZDA RX7—RED SHELBY—SILVER/BLUE TOYOTA MR2—SILVER	1:26.81 1:28.00 1:26.19 1:26.39 1:26.52 1:29.44
RACE 3			
FA FC S2	ARMEN MEGREGIAN TERRY ABBOT RON GRIFFIN	LOLA – WHITE SWIFT – RED LOLA – YELLOW	1:11.01 1:08.20 1:12.00
RACE 4			
FP GP HP ITS SSX SSGT	CHRIS PIKU ROBERT OHNECK II STEVE STEEB DION JOHNSTON GARY JOHNSON MICHEAL ST. LOUIS	ALFA GIULIA – RED SPITFIRE – RD/SIL/BLK SPRITE – DK BLUE NISSAN 280Z – RED DODGE GLH – YEL/WHT CORVETTE – WHITE	1:22.77 1:20.64 1:22.99 1:24.91 1:24.74 1:20.78
RACE 5			
FF CFF	LEW COOPER III TOM LEATHLEY	VAN DIEMAN-WHITE LOLA T204-GREEN	1:12.22 1:15.21
RACE 6			
EP GTX GT1 GT3 GT4	JIM ARTHURS PETE MORGAN DOUG BUIST GARY HUMPHREYS DANIEL STRONG	ALFA – RED CORVETTE – ORANGE FIERO – RED/YEL PORSCHE 911 – BLUE SUNBIRD – WHT/RED	1:19.59 1:18.26 1:13.11 1:17.47 1:28.61



FEATURE RACES
JULY 8 & 9 1989
TOP FIVE FINISHERS

CLASS	DRIVER	CAR	BEST LAP
FEATURE 1			
FEATURE 2			
SSGT SSGT ITS ITS SSB	MICHEAL ST. LOUIS ROGER MIKULAS DION JOHNSTON MIKE PINEGAR MICHAEL MEIMAR	CORVETTE – WHITE TRANS AM – WHITE NISSAN 280Z – RED MAZDA RX7 – SHELBY – SILVER/BLUE	1:21.90 1:24.10 1:25.27 1:25.85 1:26.91
FEATURE 3			
FC FC S2 S2 FC	KIP SHEWARD ROD THOMPSON RON GRIFFIN DAVID STEVENS RANDY TOLLIVER	SWIFT – RED VAN DIEMEN-WHITE LOLA – YELLOW LOLA REYNARD – WHITE	1:13.96 1:13.57 1:13.95 1:14.82 1:11.83
FEATURE 4			
GT1 GT1 GTX GT1 GT3	DOUG BUIST LOWELL JAMES PETE MORGAN JACK PRINGLE GARY HUMPHREYS	FIERO – RED/YEL CORVETTE – WHITE CORVETTE – ORANGE CAMERO – YEL/WH PORSCHE 911 – BLUE	1:15.51 1:19.10 1:20.09 1:18.96 1:18.61
FEATURE 5			
FF FF CFF CFF	JEFF HORTON LEW COOPER III JOE COELHO TOM LEATHLEY TERRY JINKS	SWIFT – BLUE/YELLOW VAN DIEMAN – WHITE REYNARD – WHITE LOLA T204 – GREEN MERLYN MR11 – RED	1:12.23 1:13.20 1:14.11 1:15.68 1:16.15

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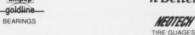
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WATERFORD DIGEST



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Average Lap Speed

Min/Sec	MPH	Min/Sec	MPH	Min/Sec	MPH
1:00	85.326	1:15	68.261	1:30	56.884
1:01	83.927	1:16	67.363	1:31	56.259
1:02	82.574	1:17	66.488	1:32	55.647
1:03	81.263	1:18	65.635	1:33	55.041
1:04	79.993	1:19	64.805	1:34	54.463
1:05	78.762	1:20	63.995	1:35	53.890
1:06	77.569	1:21	63.204	1:36	53.329
1:07	76.411	1:22	62.434	1:37	52.779
1:08	75.288	1:23	61.681	1:38	52.240
1:09	74.197	1:24	60.947	1:39	51.713
1:10	73.137	1:25	60.230	1:40	51.196
1:11	72.106	1:26	59.530	1:41	50.689
1:12	71.105	1:27	58.846	1:42	50.192
1:13	70.131	1:28	58.846	1:43	49.704
1:14	69.183	1:29	57.523	1:44	49.227

The Waterford Hills Road Course is 1.4221 miles long (7,509 ft. center line of track). To determine the speed of any individual car, time it for one complete lap and read off the speed from this table.

Class Records _

JUNE 24 & 25 1989

CLASS	DRIVER	CAR	DATE	LAP TIME
FA FC FFR FFV F440 ACSR CDSR SP FP GT2 GT3 GT4 GT5 ITA ITC FC SSA SSC SSB SSC SSB SSC SSB SSC SSB SSC SSB SSC SSB SSC SSB SSC SSB SSC SSB SSC SSB SSC SSB SSC SSB SSC SSC	DON GIBBONEY ED MURRAY CRAIG BENNETT ED MURRAY KEN WINTERS MIKE NEAL LOU LIVENGOOD BARRY HARTZEL KIRK CARLSON PAUL CAMERON DOUG BUIST DAVID BOWER CRAIG ALLEN JERRY MORLEWSKI DICK NOONAN DION JOHNSTON JAMES MORRIS MIKE JONES ROBIN BURNETTE CHUCK LITTLE MICHAEL ST.LOUIS BILL BAYLEY	VAN DIEMEN LOLA CROSSLE 32 XPIT ZINK NOVAKAR CHEVRON RALT JEDDI LOLA SP RENAULT PORSCHE 356 MG MIDGET MG MIDGET MG MIDGET SPRITE FIERO DATSUN 280Z LOTUS ELAN FIAT 124 TOYOTA DATSUN BMW 2002 TII MUSTANG FIESTA RENAULT ENCORE CORVETTE FIREBIRD CHARGER	9/88 9/88 5/884 7/83 9/88 9/88 9/88 9/88 6/89 9/88 6/89 9/88 6/89 9/88 8/88 9/88 8/88 9/88 8/88 8	1:06.80 1:09.30 1:09.60 1:17.00 1:12.50 1:15.00 1:13.20 1:09.90 1:12.80 1:09.50 1:16.30 1:16.30 1:16.20 1:17.00 1:20.40 1:12.10 1:20.90 1:18.40 1:18.40 1:18.50 1:23.70 1:26.60 1:24.70 1:25.90 1:29.20 1:29.20 1:20.40

Racing Classes

To insure fairness in competition, all road racing cars are grouped into racing classes by the Sports Car Club of America in its General Competition Rulebook (GCR). Waterford Hills Road Racing observes the GCR regulations with some minor

The cars listed below are representative of their racino classes and include most of those you will see at Waterford Hills.

SHOWROOM STOCK STREET CARS RACED AS SOLD WITH ONLY SAFETY MODIFICATIONS

SSGT	Camaro IROC-Z, Firebird T/A, Mustang GT, 300 ZX, Turbo, Porsce 944, Supra,
SSA	Daytona Turbo, Mazda RX-7, Fiero 2.8, Starion/Conquest Turbo, 300 ZX,
SSB	Charger 2.2, Toyota MRZ, Spectrum, Honda CRX SL, GTI/Scirocco 16V Cavalier Z2
000	Ciria MALCEL Chara Cariat Turba Alliana CTA Fiera

IMROVED TOURING STREET CARS RACED AS SOLD EXCEPT WITH SUSPENSION AND OTHER MINOR MODIFICATIONS ALLOWED.

ITS	Datsun Z, Mazda RX-7, Porshe 914/924, Triumph TR8
ITA	Mustang/Capri V6, Mazda RX-2/RX-3, Corvair, Monza/Skyhawk V6, VW GTI
ITB	Mustang/Capri 2.3, Vega, Charger 2.2, Opel 1.9, Scirocco/Rabbit/Jetta
ITC	Alliance, Colt 1.6, Fiesta, Chevette, Arrow, Corolla, Datsun 510

PRODUCTION SPORTS CARS, MODIFIED FOR RACING

EP	Porsche 356 1.6L, 914 1.8L, Datsub 2000, Alfa 1750, Triumph TR-4, Lotus Super 7
FP	Midget 1275/1500, Spitfire 1500, Sprite 1275, Fiat X1/9 1.5L, Lotus 7
GP	Midget/Sprite 1100, Fiat X1/9 1.3L, Datsun 1600, Spitfire, Alfa 1.3L, Porsche 356 1.3L
HP	Austin Healy Sprite Mk Land II. Fiat 850, MG Midget 948, Fiat Abarth

GT CLASSES CLOSED PRODUCTION CARS, MODIFIED FOR RACING.

GT-1	Corvette, Camaro, Ford Cobra II, Shelby GT-350, Porsche 911 SC, Dodge Aspen
GT-2	Datsun Z series, Mazda RX7, Porsche 914/6 & 924 Turbo, Sunbeam Tiger,
	Triumph TR-6 & TR-8
GT-3	Opel 1900, Datsun 510 1800, Mustang 2300, Pinto 2000 & 2300, Cosworth Vega
GT-4	Fiat 124 Sports Coupe, Pinto 1600, Toyota Cellica, Dodge Colt, Toyota Corolla 1600, Renault LeCar,
	Datsun 510 1600, Ford Escort/Lynx, VW Rabbit & Scirocco
GT-5	Datsun 200SX, Austin/Morris Mini Cooper, VW 1300, NSU TT, Honda Civic, Fiat 124 1200, Toyota
	Corolla 1200

SPORTS RACING OPEN COCKPIT, CLOSED WHEEL (BODY OVER TIRES) RACE

ASR	over 1300 cc but less than 6000cc
CSR	over 850 cc up to 1600 cc (with restrictions)
DSR	below or equal to 850cc
S/2000	uses Ford 2000 cc overhead cam engines only
S/R	spec racing - identical restricted cars with 1.51 Renault engines

FORMIII A SINCLE SEAT OPEN WHEELED RACE CARS

and transmission allowed

CHIVI	SINGLE SEAL, OPEN WHEELED HACE CARS
F/ATLC	Formula Atlantic — choice of engines in over 1100 cc up to 16000 cc range, wings and other modifications allowed, not meant to be in an inexpensive race car
F/CNTL	Formula Continental — combines old Formula C (similiar to Atlantic but engines less than 1100), Super Vee (VW 1600) and F2000 (Ford 2000 cc)
FF	Formula Ford — Cortina or Pinto 1600 cc engine, strict weight to engine ratio with driver's weight included in total legal weight, very equal class
CFF	Club Formula Ford — the cars are the same as the above class but with restricted suspension geometry and tires
FV	Formula Vee — all Volkswagon components, 1200 cc engine, driver's weight included in total legal weight, very competitive class
F440	Formula 440 — utilizes Fuji two-cycle snowmobile engines and drive train, rigid suspension, wings permitted
F4	Formula Four — Canadian class, motorcycle engine power plant, engine size determines weight

Flags.

yellow with red stripes



Take care, oil has been spilled or a slippery condition exists somewhere in your vicinity. Look at the track surface.

black



Sloppy or dangerous driving. Complete the lap you are on, stop at the Start/Finish line for consultation with Chief Steward. Waving Black Flag (displayed on all corner stations) means the race is stopped. Slow down immediately and proceed around the track with extreme caution to the pit lane for a re-start.

black with orange ball



(Meatball Black Flag) There is something mechanically wrong with your car. Proceed to your pits at reduced speed.

green



(Or no flag) Course is clear.

yellow



(Stationary) Take care, danger, no passing. (Waving) Great danger, be prepared to stop, no passing.

red



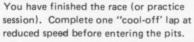
Waving red (displayed by the Starter only) means the race is stopped, slow down immediately and proceed around the track with extreme caution to the pit lane.

blue with diagonal yellow stripes



(Motionless) Another competitor is following you closely.

checkered

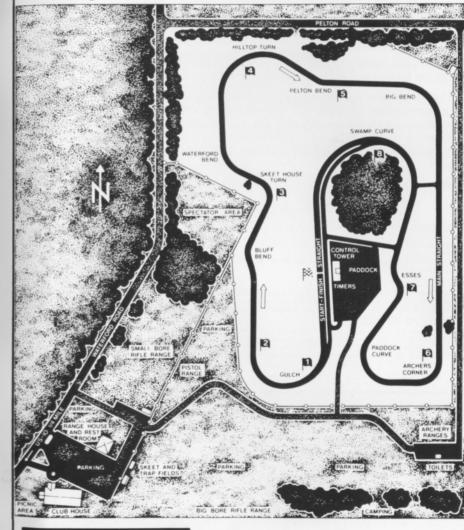




WATERFORD DIGEST

Waterford Hills Course Map

a 1.5 mile asphalt road course at waterford, michigan





Waterford Hills 1989 Road Racing Calendar Schedule

Race 1 May 27-28 Race 4 July 29-30 Race 2 June 24-25 Race 5 Aug. 26-27 Race 3 July 8-9 Race 6 Sept. 23-24

Mark your calendar now for the Fifth Annual Meadowbrook Historic Races to be held August 5 and 6 at Waterford Hills.

The races will not only feature vintage automobiles, there will also be two celebrity races on Saturday sponsored by Volkswagen. One race will feature local media representatives racing identically equipped VWs, the other will feature national media reps. in the same cars. Last year these turned into very competitive matches and it appears they will again this year.

Watch for more details in coming Digests and plan to be there.

Vintage Race Aug. 5-6

RACING RAIN OR SHINE

The hills of Waterford are being invaded . . . with any army of sports cars, sedans and formula cars in fierce, wheel to wheel competition . . . and for 1989 we we assembled the largest field in our 31 year history! Watch over 130 top drivers battle it out in the finest racing machinery from America and Europe. Corvette, Porsche, Datsun. Everything from Capris to Camaros, McLarens to MGs. All together, fighting it out on a mile-and-a-half track with 13 right and left turns that twist up and down hills like no other road course in the U.S.A.

EASY ON THE WALLET

Admission is just \$3.00 for Saturday, \$5.00 for Sunday, or \$6.00 for the entire weekend. Children under 12 are always free and a Season Ticket is only \$20.00. The track opens at 10 a.m. for practice and qualifying. Racing begins at 1:30 p.m. on Saturday (seven races) and at 11:30 a.m. on Sunday (ten races). For more information phone (313) 623-0444.

EASY TO GET TO

Chances are you live within a few minutes of the Midwest's premier road course. The W.H.R.R.I. Race Track is located just 6 miles north of Pontiac on Waterford Road, 1/4 mile each of Dixie Highway (U.S. 10) in Waterford, Michigan. The easiest route to take is I-75 to the southbound Sashabaw Exit. Take Sashabaw south to Pelton Road, then take Pelton west to Waterford Road. The total distance after exiting the expressway is 2-1/2 miles.

WILLIAM A. KIEFER President SCOTT W. KIEFER Vice-President

Micro Gauge, Inc.

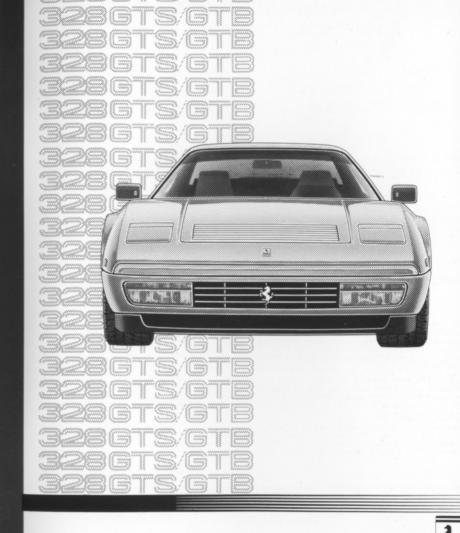
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THE WATERFORD DIGEST

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