



THE IMMANUEL DOWNHILL DERBY

1300 East Beltline SE
Grand Rapids, MI 49506

Race Day - Saturday, September 16, 2017

This event is open to the entire community!

General Information:

Drivers must be age 6 or older to race.

Drivers must complete the registration form and liability waiver form on page 2.

Registration fee is **\$15** per driver. Checks should be made payable to Immanuel Reformed Church.

Car Building

Car Specifications for building a derby car are available in a separate packet.

Questions concerning building instructions or supplies please call Bob Hager (contact information below).

A car building day is available if you need help. **YOU MUST** contact Bob Hager by **August 23** if you plan to be there so we have the necessary parts available for the build day on **Wednesday, August 30**

Time: **6:00-8:00 pm** Place: **Garage-upper level parking lot at church.**

Cost: \$40 charge for materials. Scholarships are available to help cover this cost.



Immanuel will also have cars available to use for the race. Please contact Bob or Linda Hager by **September 1 to reserve one for you.** (616)949-0719 or (616)890-5122 or (616) 890-5014.

Competitors are divided into four classes.

Colt class: Ages 6-11 years

Stallion class: Ages 18-49 years

Mustang class: Ages 12-17 years

Super Stallion class: Ages 50 years and older

Note: Age classes may be rearranged or combined based on registrations.

A single car may compete in multiple age classes but a car may not be registered more than once in the same age class.

Practice Runs

AT LEAST ONE PRACTICE RUN is REQUIRED for all new drivers and encouraged for returning drivers.

Bring your car and helmet to Immanuel Reformed Church upper Parking Lot on the any of these dates.

Wednesday, September 6, Thursday, September 14 and Friday, September 15 5:30-7:00 pm

Please contact Bob or Linda Hager if you cannot practice on any of the above dates.

The 2017 derby committee

Bob and Linda Hager: 616-949-0719, Bob (616)890-5122, Linda (616)890-5014 or rlhager@sbcglobal.net

Dan Haskins: 616-365-0030 or dhaskins@procaresystems.com

Jill Le: 616-340-6495 or jillellenle@gmail.com

Mike Nitz: 616-957-9117 or facilities@immanuelreformedchurch.net

Fred Winter: 616-466-3085 or f_winter@msn.com

**IMMANUEL DOWN HILL DERBY
DRIVER REGISTRATION FORM**

Name of Driver:	Age of Driver:
Mailing Address:	Telephone Number: E-Mail:
Car number, name and/or identifying information	
Name of Parent or Legal Guardian:	Telephone Number: E-Mail:
<p>Please check each box indicating you have read the information below:</p> <p><input type="checkbox"/> I have read and understand the rules and regulations of the derby and agree to comply.</p> <p><input type="checkbox"/> I agree to pay the required registration fee. (checks payable to Immanuel Reformed Church)</p> <p><input type="checkbox"/> I agree to conduct myself in an appropriate manner and demonstrate good sportsmanship.</p> <p><input type="checkbox"/> I or my legal guardian have signed the appropriate waiver/release form and agree to abide by it.</p>	
<p>This completed form and Registration fee of \$15 per driver can be turned in to the derby committee or mailed to Immanuel Reformed Church DERBY, 1300 E. Beltline SE, Grand Rapids, MI 49506</p>	

Activity Participation Agreement
Immanuel Reformed Church 2017 Downhill Derby

Participant Information *(To be completed by participant or authorized guardian)*

Name of participant: _____

Name of parents/guardians: _____

Participation Agreement

I acknowledge that participation in the activity identified above involves risk to the Participant and may result in various types of injury including, but not limited to, the following: sickness, bodily injury, death, emotional injury, personal injury, property damage and financial damage.

In consideration for the opportunity to participate in the activity described above, the Participant (or parent/guardian if Participant is a minor) acknowledges and accepts the risks of injury associated with participation in the Activity.

The Participant (or parent/guardian) accepts personal financial responsibility for any injury or other loss sustained during the Activity, as well as for any medical treatment rendered to the Participant that is authorized by the Sponsor or its agents, employees, volunteers, or any other representatives (collectively referred to hereinafter as the "Activity Sponsor").

Further, the Participant (or parent/guardian) releases and promises to indemnify, defend, and hold harmless the Activity Sponsor for any injury arising directly or indirectly out of the described Activity, other than for the willful, wanton or reckless misconduct of the Activity Sponsor.

The Participant (or parent/guardian if Participant is a minor) also gives permission to the Activity Sponsor to photograph the Participant during these activities and to use those photographs in Sponsor publications or media presentations.

If a dispute over this agreement or any claim for damages arises, the Participant (or parent/guardian) agrees to resolve the matter through a mutually acceptable alternative dispute resolution process. If the Participant (or parent/guardian) and the Activity Sponsor cannot agree upon such a process, the dispute will be submitted to a three-member arbitration panel for resolution pursuant to the rules of the American Arbitration Association.

Signature: _____
(Participant)

Date: _____

Signature: _____
(Parent or guardian)

Date: _____

Signature: _____
(Parent or guardian)

Date: _____

Immanuel Down Hill Derby Car Construction and Specifications

The following specifications are designed to provide safety for the drivers and uniformity in the basic structure of the car. They are intended to create a safe and fair competition.

- Cars are to be completely gravity powered.
- All design attachments must be securely attached.
- Cars may be made of any material.
- Any metal frame elements that extend beyond the wheels must be properly blunted with a cross bar to prevent piercing in the event of a crash.
- The center of gravity of the car should be as low as possible. Road clearance must be no less than 2".
- The most forward point of the car must be no higher than 12" so the starting gate will make contact.

<u>Vehicle Specifications</u>	<u>Minimum</u>	<u>Maximum</u>
Vehicle height	-none-	60 inches
Seating surface height	-none-	12" above road surface
Total vehicle length	48 inches	84 inches
Wheelbase	48 inches	72 inches
Vehicle Width	24 inches	36 inches

**Width of car body cannot project beyond maximum width*

WHEELS

All racers must use the specified wheels.

- The wheels are to be 7" steel or plastic with a 1.5" wide solid rubber tire.
- Car must have at least 4 wheels and a maximum of 6 (tandem allowed on rear axle). This allows for a greater load capacity for the total weight of the car and driver.
- The wheels shall have a hub which will rotate on a $\frac{1}{2}$ " steel bolt or rod (axle). A typical example is the Arnold 7" Wheel.
- Wheels must have some type of locking attachment to the axle such as a locknut or cotter pin.
- Wheels may be lubricated and modifications to the bearings are allowed.

Cotter pin wheel attachment



Axle attachment



NOTE: Wheels and axles may be purchased from Immanuel Reformed Church. Contact Bob Hager (616)949-0719 or (616)890-5122 for price.

BRAKES

Each car must have a braking system attached that will completely stop the vehicle. Absolutely! NO braking with feet. This could result in very serious injury. The driver must be able to steer while braking.

Brake assembly



Brake on wheel



Brake hand control



STEERING

The driver MUST have complete control of steering at all times.

- The most popular method of steering is with feet and/or rope pull. Steering wheel attachment is also allowed.

Tied and screwed



Rope tied through metal eyelet



- To prevent jackknifing, **steering limiters** must be attached to the front axle. The limiters should keep the front axle from turning no more than 4-6 inches.



DESIGN

Any personalized design or theme of car is allowed as long as the basic construction follows the specifications listed above

For younger drivers, a seat that actually encloses them would be helpful to reduce the chance of them sliding off the seat during the race and when braking

Here is a basic example of what you might see on Race Day...





RACE DAY SCHEDULE AND INFORMATION

Saturday, September 16, 2017

Rain Day to be announced

Parking for the race will be in the Immanuel Church UPPER parking lot only. Access will be from our **Lake Drive Entrance** only which will be clearly marked for those unfamiliar with the driveway location.

2:00-2:30: Registration for **every** driver is in the church lobby. You will receive a scorecard and lanyard at this time that every driver will wear during the race.

Each car will be displayed in the upper parking lot with a sign indicating a name and/or number that is unique to your car only. During this time, people can cast votes for their favorite car design. The top 3 will be winners of the People's Choice awards.

2:30pm: Drivers meeting and opening prayer at the Finish Line

3:00pm: Races Begin! The *Colt Class* races first, followed in order by the *Mustang*, *Stallion*, and *Super Stallion* Classes.

Cotton Candy, sno-cones and popcorn will be available during the races

5:30ish: Cook-out meal with side dishes and beverages available for a free will donation.

Race procedures

For every class, each car is guaranteed 2 heats (one in each lane) with heats consisting of 2 cars each. The fastest time will be recorded for each car out of both heats, and the 4 fastest cars of all the heats will advance to the Finals, which will be done in a head-to-head elimination format. Three places will be awarded in each class.



Award ceremony will take place immediately following each race class.

Safety

- All drivers must wear a helmet!
- Knee Pads, Elbow Pads, and Long Pants are encouraged for younger riders.
- No Flip Flops or open toe shoes allowed.
- Anything inside the cockpit that could injure the driver in the event of a crash should be fastened securely and/or padded.
- Driver must be in a seated position. **No head-first configurations are allowed.** Reclining to any degree is an acceptable configuration as long as driver is not visibility impaired.
- *Colt class racers will be started on a lower ramp incline to reduce their top speed*

*In order to maintain the safety of the event the race committee may impose additional requirements as conditions warrant.

More Information for Spectators and Drivers...

Be sure to bring lawn chairs, blankets, sun umbrellas, sunscreen, cameras, etc.

There will also be games and activities available for children.