

# Memorial Total Off-Road Rally



## Tech Inspection Guidelines

Items with \*s are required

### STEERING AND LINKAGE

- Steering box and linkage cannot be loose when turning steering wheel

### BRAKES AND LINES

- Must have front & rear brakes
- Lines must be secured to the axle and/or frame
- Pinion brakes allowed
- Pedal cannot be spongy or sink to floor; brakes must have pressure
- LUG NUTS

- No more than 1 of 5 or 2 of 8 missing per wheel

### SECURE PLACE TO HOOK

- Must have tow points front and rear
- Due to the multiple methods of vehicle recovery points, all tow points, welded or bolted, must appear structurally safe with no stress indications
- It is the responsibility and liability of each vehicle owner or driver to assess the safety of the vehicle recovery system used • Hook secured with two 1/2" or bigger, grade 5 or better bolts • Backing plates required
- Receivers following these requirements: vehicles with a gross weight over 4,000 lbs. must have a minimum 2" receiver; vehicles with a gross weight under 4,000 lbs. must have a minimum 1-1/4" receiver. All receivers must be properly bolted with grade 5 or better bolts. You may be required to remove any other style hitch
- Unsafe hooks must be removed
- Must remove trailer ball - NO trailer ball on trail
- Screw type clevis permitted in rear bumper if bumper is secured properly to the frame (must be bolted with grade 5 or better bolts)
- Cannot hook to spring, axle, shackle or factory cross member

### SUSPENSION SYSTEM & U-BOLTS

- No threaded rod for U-bolts
- No suspension damage
- No lift blocks between front axle housing and front spring

### BATTERY MOUNT

- Must be O.E.M. style or metal equivalent. No wire, rubber, or nylon straps allowed
- Battery must not move

### EXHAUST SYSTEM

- Must have minimum 10" dual, 12" single or OEM mufflers attached to engine, no open headers or straight pipes

### ADDITIONAL SAFETY FEATURES:

- Loose objects in vehicle and bed of truck must be secured • Floor boards must be able to protect passengers from bodily injury • First Aid Kit
- Skid plate under gas tank is required if below the frame unless tank is designed as a skid plate.
- No visible fluid leaks on vehicle
- No antennas over 48 inches

### SEAT BELTS

- Must be properly anchored
- Required and must be worn by all passengers
- Child seats/protection required as mandated by state law

### CLEVIS

- Must be screw type, 1/2 inch or bigger- no pin type clevises • 1/2 - 7/8 inch clevis must have stamped 10,000 lb + rating • Must have adequate size clevis for the vehicle
- \*No converted pin-type clevis

### ROLL BAR OR NON-REMOVABLE HARD TOP

- Due to modifications done structurally to each vehicle, it will be the responsibility and liability of each owner and driver of a trail vehicle for the safety of each occupant
- If fabrication is necessary, the minimum roll bar accepted on our trails is 1-3/4" cold rolled at .095 wall or better with no structural damage to the integrity of the roll over protection
- Vehicles with full removable top and previously rolled trucks must have roll bar securely mounted
- Body mounted roll bars must have backing plates at mounting point
- Vehicles with unsound body structure, fiberglass and aluminum bodies must have a roll bar frame-mounted at a minimum of 4 points
- Must have at least 1 3/4" diameter bar for main loop and kickers; no well pipe or exhaust tubing
- The main bar must be continuous loop with no welding • Kickers (roll bar supports) must be at least halfway up or higher Must have kickers
- Roll bars must have inspection hole
- Vehicles with altered body/chassis/drive train combinations are required to follow roll bar rules as stated for removable hard top or unsound body structure vehicles. (Examples of "altered body/chassis/drive train combinations" are S-10 pickup on full-size chassis; Mustang car body on full-size chassis; old style Bronco on full-size Bronco frame; etc.) Basically, any vehicle body that was not factory built to handle a roll-over with the additional modified weight will require additional roll bar protection for its occupants.

### FIRE EXTINGUISHER

- Minimum 2 pound, type BC or Stop Fyre Extinguisher
- Must be securely mounted in a quick-release mounting bracket within reach of seat-belted driver
- Must be fully charged
- Gauge style only, no push button type Except for Stop Fyre Extinguisher
- Extraction Strap/Rope REQUIRED
- 2" minimum or 3" minimum if full-size or modified truck with 4" maximum, 10,000 pound minimum rating. No ropes over 1-1/2 inch diameter
- Strap must be in good shape; no excessive tears or fraying • Cannot have hooks attached to the strap
- No chains or tire chains
- \*No metal splicing between straps

### MISC.

- \*To fully enjoy all trail system obstacles, open body vehicles and pickups with rear seats will be required to have roll over protection for passengers in rear seats. If roll over protection is not provided, passengers will not be allowed on "Black Diamond" rated obstacles. Any trail riders in violation of this or any other rule will immediately have their wrist bands cut and be escorted out of the trails system and face the possibility of being ejected from the event.

### EXCEPTIONS

- Open headers allowed in Playground area **ONLY**
- Any body mounted in a sound and secure manner is allowed in the Troll Hole **ONLY**.

**All vehicles must go through this inspection prior to trail rides or playground activity.**



## UTV Vehicle Safety Features & Information

A UTV herein is defined as a commercially manufactured, motorized flotation-tired vehicle with at least four, but no more than six, low pressure tires. Driver shall be 16 years of age or older. (*Refer to Wisconsin Law on UTV requirements.*)

### **Front End**

- \_\_\_\_ Steering & Linkage (tight)
- \_\_\_\_ Lug Nuts (none missing)
- \_\_\_\_ Suspension system (tight)

### **Rear End**

- \_\_\_\_ Suspension system
- \_\_\_\_ Lug Nuts (none missing)
- \_\_\_\_ Antenna/flag (if used) not over 48"

### **Tires**

- \_\_\_\_ No studded tires or chains

### **Frame**

- \_\_\_\_ Cracked or broken frames are prohibited
- \_\_\_\_ Sharp corners or edges of any kind are prohibited
- \_\_\_\_ Secure Place to Hook Up
- \_\_\_\_ Snapper & Screw-Type Clevis

### **Other**

- \_\_\_\_ Have read & understood trail ride rules

### **Driver/Passenger Compartment**

- \_\_\_\_ Seatbelt for each occupant (& helmet for under 18)
- \_\_\_\_ Manufacturers Roll Cage to cover all intended passengers (Aftermarket Not Allowed)
- \_\_\_\_ Manufacturers seating only (No aftermarket)
- \_\_\_\_ Minimum 2 pound Charged BC Fire Extinguisher with Gauge or Stop Fyre Extinguisher
- \_\_\_\_ Brake Pedal Pressure

### **Engine Area**

- \_\_\_\_ Battery Mount(secure)
- \_\_\_\_ Exhaust System (Mufflers must have internal Mechanical or packed Baffling).

### **Recommended Safety Features**

- \_\_\_\_ First Aid Kit
- \_\_\_\_ Spare tire
- \_\_\_\_ State OHV sticker
- \_\_\_\_ Helmet For All Occupants

Approval of the vehicle by the safety committee or rally master shall mean that the vehicle is approved for participation on the trail ride and shall not in any way mean that the vehicle is guaranteed mechanically safe and sound. Be it further declared that the safety committee or rally master shall not be held liable for any mechanical failure of the declared vehicle nor any accident or losses resulting from the same.

# **COMING CHANGES FOR MEMORIAL TOTAL OFF-ROAD RALLY 2023**

## **CURRENT RULE:**

### **EXHAUST SYSTEM**

- Must have minimum 10" dual, 12" single or OEM mufflers attached to engine, no open headers or straight pipes

## **NEW RULE For 2023:**

### **EXHAUST SYSTEM**

- Must have minimum 10" Body Muffler for dual Exhaust System, 12" Body Muffler for single Exhaust System or OEM mufflers attached to engine, no open headers or straight pipes

## **CURRENT RULE:**

### **EXCEPTIONS**

Open headers allowed in Playground area **ONLY**

## **NEW RULE For 2023:**

Open headers are NOT allowed on any vehicle or UTV No Exceptions

### **EXCEPTIONS**

Any Noise complaint will be dealt with at the discretion of the Rally Master and/or any Board Members in attendance (Must be 2) and will be following the Noise Rules of the Wisconsin DNR Noise Measurements.