



European Tractor Pulling Committee

Tech and Safety Board

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All Mini Modifieds with a transmission must shield the transmission with a transmission safety blanket.

New rule is going in effect per 28 July 2018

- Blanket must cover the full width of the transmission and 360 degrees around with at least 150 mm overlap.
- Blanket must be as close as possible around the transmission.
- Blanket must be connected to the frame or bellhousing/engine in such a way that the blanket cannot move to the back or to the front.
- Minimum requirements of the blanket: 15 layers of Kevlar/Aramide or 20 layers of ballistic nylon.
- Secured with min. 2 straps around the transmission .
- top of the blanket secured with two straps to bellhousing bolts and at the bottom 2 straps to the tractor frame on each side.

Example of Blanket around an SCS gearbox and a Vreeman gearbox



Because some **planetary gear transmissions behind a bellhousing** are very narrow a blanket is not a good option.

- Most of these gearboxes have a stationary ring gear of **8 mm steel** around the rotating gears **and** around that **10 mm billet Aluminium** housing.
 - This is 2 times the strength of Crossbox Shielding (ETPC Rulebook page 25 D.) and is enough to drive without the blanket.
 - Every team with such a transmission must ask permission (with pictures and drawings) of the ETPC Tech & Safety board before driving with it.
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Example of planetary gear transmission



Example of internals of this transmission; Ring gear is stationary, Sun gears are driven by the Clutch and Gear in the middle is driving the shaft to the rear axle.



After talking to teams and specialists it is also very important that in every gearbox there must be very **high quality bearings** because of the high rpm's, temperatures and forces.
Also the **correct level of lubrication oil** in all gearboxes is very important.

On behalf of the ETPC Tech & safety Board
Willem Wempe

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