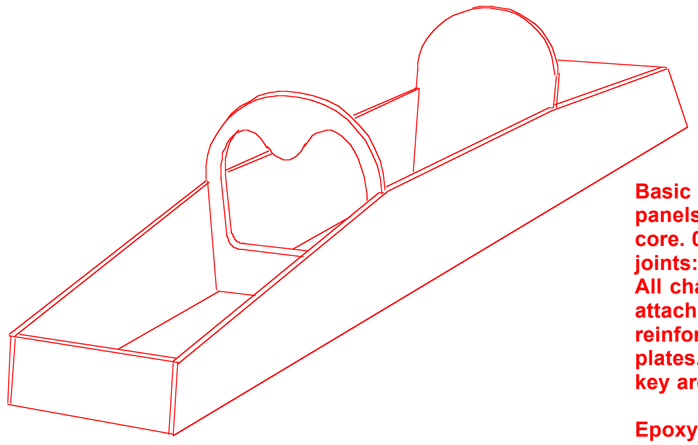
CYCLE KARTS - 1937 MERCEDES TYPE W-125 and 1946 NOVI GOVERNOR SPECIAL

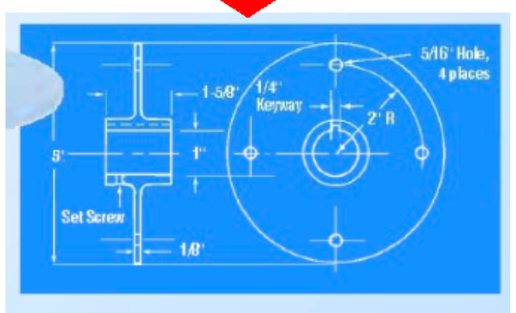


OTHER DETAILS & CONSIDERATIONS

1. Uses IRC iX05H 90/100 x 14" rear tires for all because it is in better scale for these cars, but can someone suggest a smoother version? Will probably use on pavement only.
2. 6" internal expanding drum brake shown.
3. Greyhound 6.5 HP (Honda clone) engine shown (Northern Tool). Comments Anyone?
4. My own gas tank shown. Epoxy fiberglass, 2 Pc.
5. 10° Caster angle. Camber included angle 4°.
6. Need accurate mechanical drawings for this.

7. Will use 10 tooth drive sprocket and 60 tooth driven sprocket. Is that about right?
8. Not all details shown.

This hub used for 4 wheels and driven sprocket.

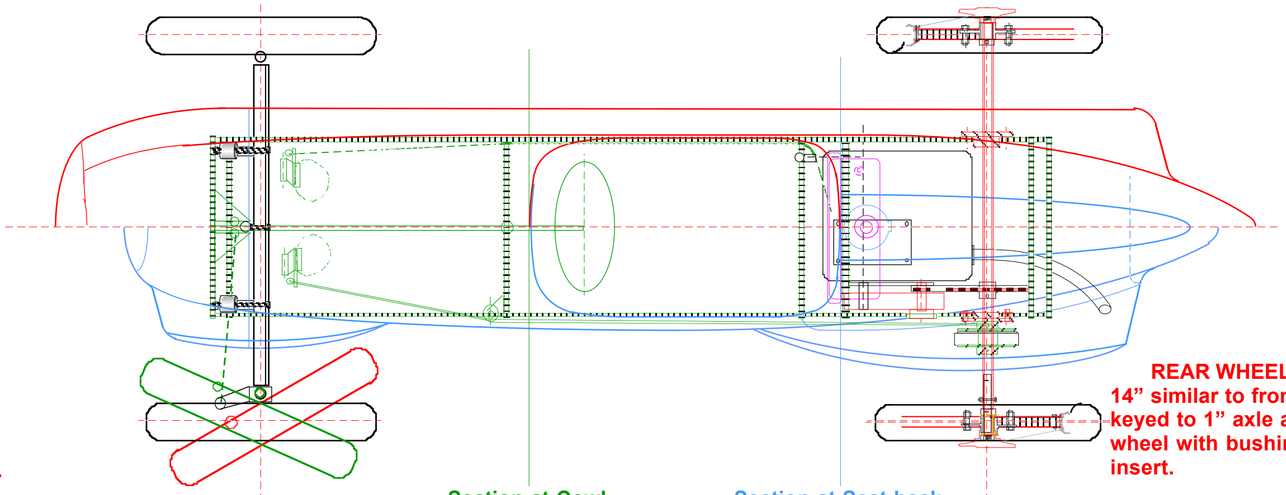


9. Would appreciate any and all comments.

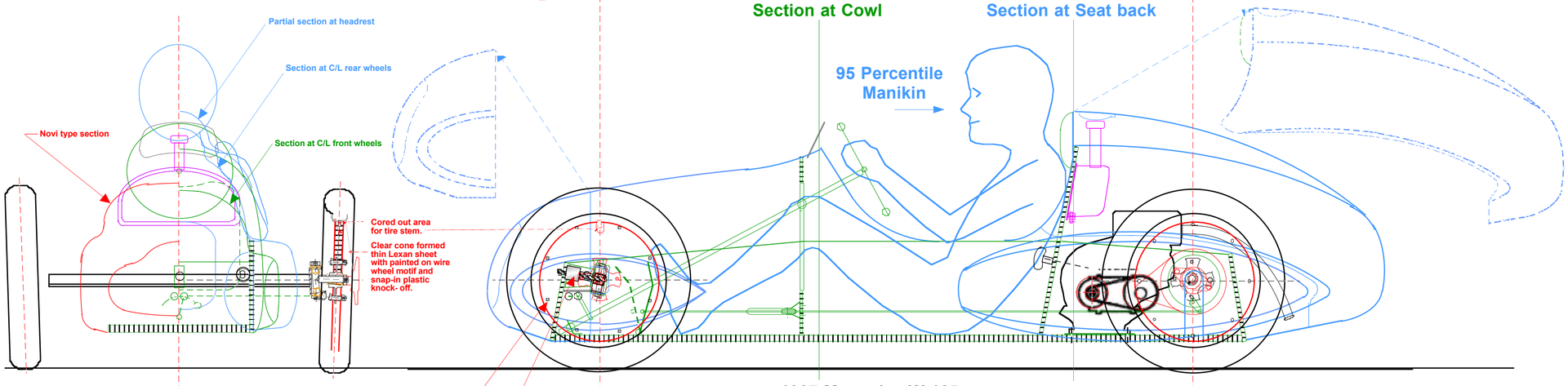
V. M. E.

Basic box frame uses fiberglass panels with aluminum honeycomb core. 0.8" Floor. All Other 0.4". All joints: glass cloth with epoxy resin. All chassis and engine component attachment points (not shown) are reinforced with molded in aluminum plates. Body laminated to frame in key areas. Frame weight: 20 Lbs.

Epoxy Fiberglass Body Wt: 40 Lbs. Will do a 1/2 scale (of the full size Kart) clay mirror model for a good surfacing guide before the full size kart clay from which to take moulds.

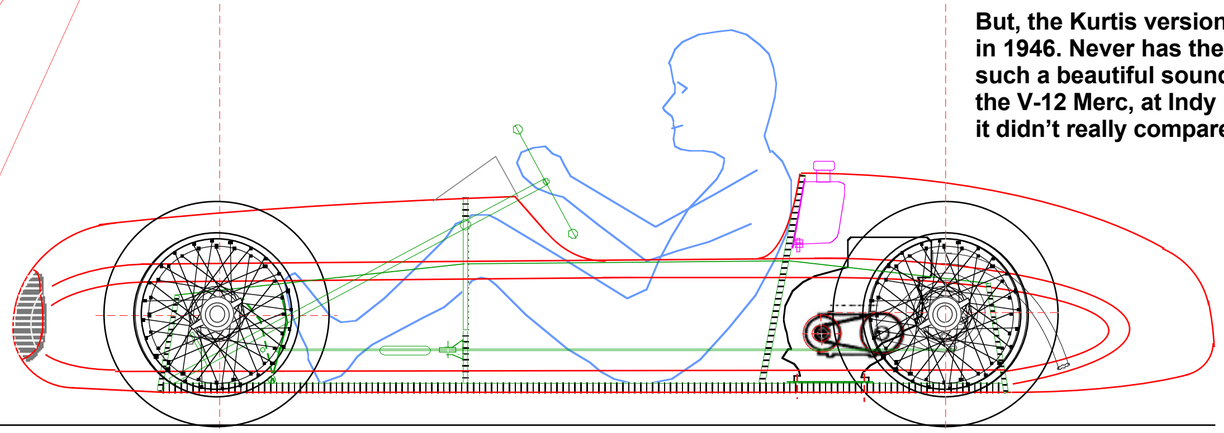


REAR WHEELS and HUBS
14" similar to front with R.H.S. hub keyed to 1" axle and L.H.S. to free wheel with bushings on 3/4" axle insert.



1937 Mercedes W-125

Wheelbase 67.8"



1946 Indianapolis Novi Governor Spl.

I am leaning toward the Novi. My first Indy 500 was in 1941 when the engine was first used in a F.W.D. 1935 Ford.

But, the Kurtis version stole my heart in 1946. Never has there ever been such a beautiful sound at Indy! I saw the V-12 Merc, at Indy in 1947, too, but it didn't really compare to the Novi.

FRONT WHEELS, HUBS, SUSPENSION

14" Wheels utilize aluminum 1.6" W rims epoxy bonded to 2 round alum. core fiberglass panel .4" thick and sandwiched wt. epoxy resin between two 1/8" epoxy fiberglass plates that are bolted through using alum. tube spacers between the plates around the periphery with 8 3/16" alum. bolts.

Modified hub is buried, bolted and epoxied in center of the wheel. 5/8" axle and kingpin shown with bronze bushings. Wheel weight 3 Lbs.

Main front axle 1.25" square .094" wall steel tube with welded on ends and steering arms made from .125" wall 2" x 4" rectangular steel tube. Axle sprung by 2 rubber Lord mounts 1.5"D x 1.5" L units and located sidewise by a ball bolted to center of axle that slides up and down within a bracket attached to front bulkhead. Minimal jounce and rebound.

1/10 Scale Presentation by Virgil M. Exner, Jr. Aug. 2010