

# 1928-1934 Ford Car/Truck - Independent Front Suspension

Installation Instructions

Tech line: 1-855-693-1259

www.totalcostinvolved.com

#### Read and understand these instructions before starting any work!

CHECK ALL PARTS INCLUDED IN THIS KIT TO THE PARTS LIST BEFORE INSTALLATION. IF ANY PIECES ARE MISSING, PLEASE CONTACT: TOTAL COST INVOLVED 1-855-693-1259



#### PREPARING THE FRAME

-Place vehicle on jack stands preferably with roughly 2-3 degree ride rake

-Mark the factory axle centerline. An old trick we use is to drill a very small hole at the axle centerline so no amount of grinding will remove the mark.

-Remove all of the old steering and suspension components;

-Tack weld two braces to the top and bottom of the frame rails in front of the original cross member to insure that frame rails do not move

-Remove original cross member by drilling out the rivets

-It is a good idea to box the frame rails (boxing plates not included)

-Weld up all the rivet holes left by the original crossmember

-Finish grind all welds



## INSTALLLING THE IFS CROSS MEMBER

-Mark your NEW axle centerline on the frame rails as per the diagram above

-Fit IFS cross member squarely on rails, top and bottom, with the centerline of the cross member located <sup>1</sup>/<sub>4</sub>' forward of the stock axle centerline.

-This is where the frame being at ride rake will be important. With the frame sitting at roughly 2-3 degrees the crossmember needs to be level to the ground.

-In some cases you may need to trim our crossmember to fit it into place in other cases metal may need to be added -Tack weld IFS cross member to boxed frame rails

-Recheck all measurements, including vehicle wheel base. (Check measurements diagonally to check for squareness). -Weld cross member to rails on all sides









#### SETTING RIDE HEIGHT

-With full car weight on suspension. Lower control arm pivot should be  $\frac{1}{2}$  to 1" lower than the center of the ball joint sleeve. To adjust, jack up the car to remove the weight and then turn the lower rings on the coil-overs. The lower control arms will angle slightly uphill towards the wheels when properly set

### SETTING CAMBER

-Loosen set screw locks on eccentric housing

-Rotate eccentric by inserting the provided tool or an equivalent <sup>1</sup>/<sub>4</sub>" diameter object (Phillips screwdriver) into the hole on the side of the eccentric. Rotating eccentric is easier with car jacked up, but camber must be checked at ride height. -Camber should be set at <sup>1</sup>/<sub>4</sub> degree negative

#### SETTING CASTER

-With set screw locks still loose, caster is set by sliding eccentric slightly fore or aft within its housing. Gentle tapping with a soft hammer may be required.

-Set caster at 2-3° positive with a manual rack and 4-6° positive with a power rack, making sure that both left and right sides are set the same.

-Tighten set screws to lock in caster and camber settings

#### SETTING TOE-IN

-Set toe-in by adjusting the tie rod ends on the rack & pinion steering gear -Toe-in should be set at 1/32" for radial tires and 1/16" to 1/18" for bias-ply tires

### AXLE STUD SIZES:

4.5" Bolt circle rotors =  $\frac{1}{2}$ "x20('75-'80 Ford Granada) 4.75" Bolt circle rotors = 12mmx1.5('82-'87 Camaro) ALL Wilwood hubs = 7/16"x20

> No returns or exchanges without a RMA#. Packages must be inspected upon receipt & be reported within 10 days. If you are missing parts from your kit, TCI Engineering will send the missing parts via FedEx or U.S. mail ground. Returned packages are subject to inspection before replacement/refund is given.(Some items will be subject to a 15% restocking fee)

> > Thank you for your business!



