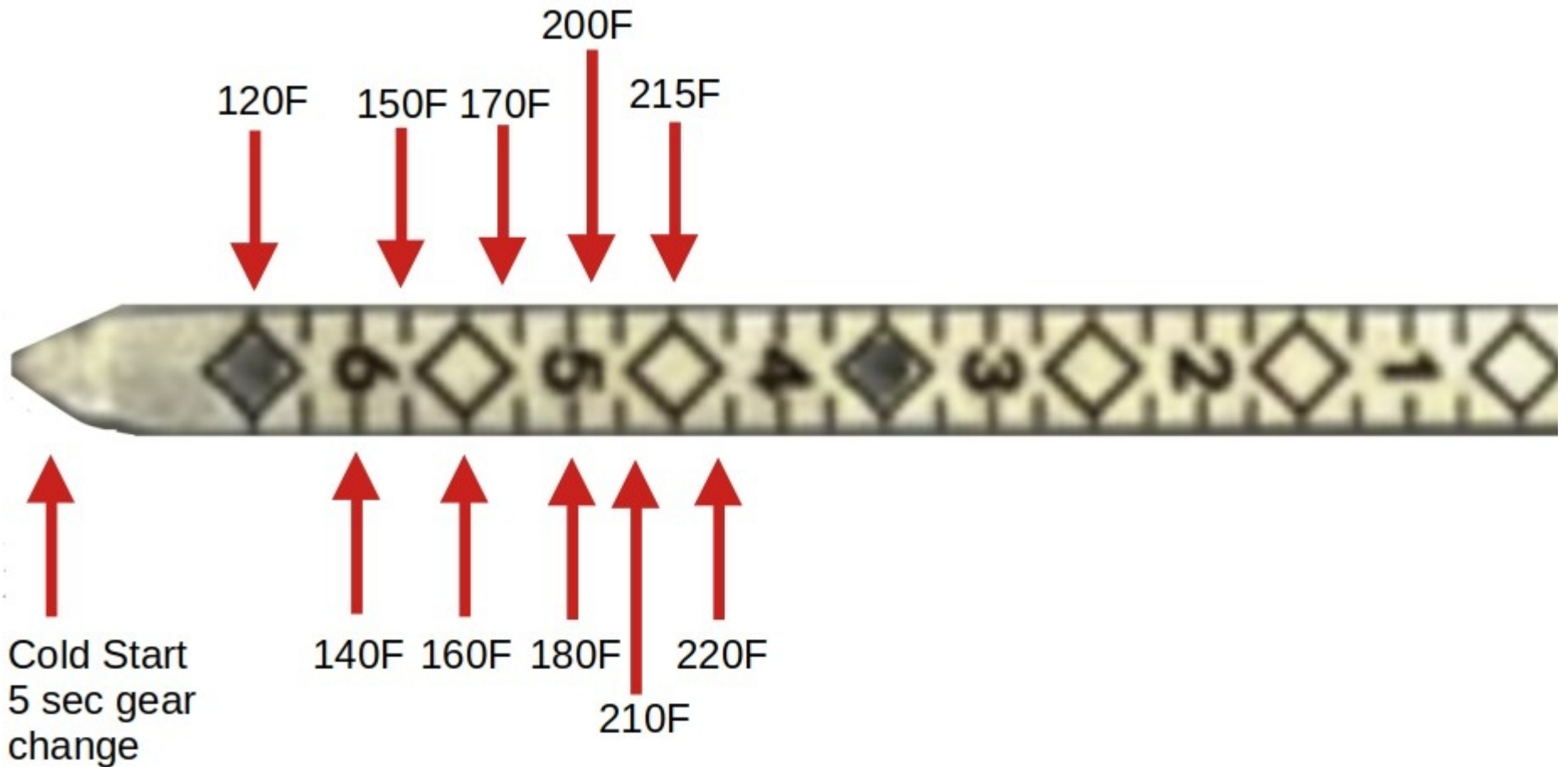


# 10R80 Transmission Fluid Levels @ Temperatures

Shown using MBS "FitzStick"

Fluid temps heated up faster below 180F  
190F was measured just above 5  
205F was indicated at the hash mark above 5



## Temperature Target Time to Target from Cold Start

Ambient Air Temp 75F Transmission Fluid Temp 77.4F

120F	11:30
140F	17:50
150F	21:30
160F	25:50
170F	30:20
180F	37:20

This procedure should work when changing transmission pans, transmission fluid & filter, or replacing fluids ***if you've pulled out at least 6 qts.*** I routinely pull out ~6-7 qts (Ford Pan) by letting my truck sit unused for several days before draining the fluid in the pan. Sitting 24 hours will net you 5qts. You can get 2 more qts over the next two days. I pump it out though the dipstick.

Ambient air temp when was 75F. Transmission Fluid temps were at 77.4F before truck was started. This procedure should be close enough to achieve satisfactory results if temps are +/- 10F from 75F. I am erring on the side of caution.

## Fill Procedure

**Tools required** - Stop Watch, MBS DipStick, Patience

1. Follow Ford's Instructions for the Initial Fill (I added an additional qt to Ford's Initial Fill)

### **Initial Fill:**

- PPE Deep Pan 7.75qt
- PPE Standard Pan 6.75qt
- Ford Pan 6qt

2. Start the truck **and** the stop watch. Then cycle through the gears at 5 second intervals ending in park. Immediately check the fluid level. It should be ~1/4" on the tip of the dipstick. An 1/8" either way is well within the 4-5 Range at 210F.
3. Check the fluid at the 11:30 minute mark, fluid should be at the middle of the first diamond at the bottom of the stick. If you are within a hash mark above or below the first Diamond your fluid level is well within the 4-5 range at at 210F.
4. Confirm the level at the 17:50 time mark. if fluid level is within a hash mark of 6, your level is well within the range at 210F. You can check the fluid level at each successive timed mark against the higher level to confirm successive times. Congratulations! You are done.

# Transmission Pan Bolt Pattern & Fill Procedure

**Initial Fill:** PPE Deep Pan 6.75qt - PPE Pan 5.75qt - Ford Pan 5qt

The **initial fill** enables the engine to be started. Filling the transmission to 1/8" - 1/4" showing on dipstick after cycling 5 seconds through the gears when stone cold gets you very close to final fill level. **Final Top Off Fill Check - Engine running, Transmission cycled 5 seconds through gears. See Cold and Hot targets below.**

