



ZF 25DS5 transaxle



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October 2014

Early Ford SB Bell housings from my 1/24/08 musings.

It's really nice to have an extra ZF box sitting around. It gives me an opportunity to ask, "What are possible replacements to bolt up to the ZF?" The simple answer is a small block Ford V8. These include the early 60s 5 bolt 221, 260, and 289ci V8s. Direct replacements are the familiar 6 bolt 289, 302, 351W, and 351C V8s. If I wanted to consider six-cylinder power, I may select from 240 I6, 300 I6, or the 3.8 RWD/4.2 V6. Once you stop laughing, consider that the lowly 3.8L was the basis of the supercharged 89-96 T-Bird Super Coupe with more hp than its V8 brethren including the 4.6 mod. Even the 255 V8 is a direct bolt up. The 400 V8 was also available in 1973. In some full-size Ford, Mercury & Lincoln products the 400 were cast with the 302 small block bell housing pattern. It was mated to a FMX transmission like the 351C 74 Cougar I stored for years, much to Phyllis' dismay. These blocks are fairly rare.

The Mod motor pattern is fairly close to the small block Ford bell housing pattern. 1991 4.6 blocks and some 92 models were exactly the same as the 5.0/SBF. The earliest two castings for the 4.6L Mod blocks, used prior to late 11/1/91 in Lincolns and 2-18-92 in full size Fords, share the 302/351 small block bolt pattern exactly. Casting numbers are F1AE and F2VE. The change in bell housing pattern coincided with the changeover from the AOD transmission to the AOD-E. It resulted in relocating two larger bolts, hollow dowels, and changing to a three bolt starter. All subsequent Romeo mod blocks beginning with the F3VE use the AOD-E pattern, and all Windsor mod motors use it.

Bolting the engine to the ZF transaxle involves much more than just matching patterns. Issues may arise when selecting the flywheel/flexplate, clutch, starter, input shaft, pilot bearing among others. So, I'll just leave the ZF on the floor for now.

Note: this is commonly called the Ford Small-block V8 pattern, though it is used in some "big block"-sized V8's as well as some V6's and I6's.

- 200 I6 1980-1983 only, partial (4 of 6 bolts) pattern.
- 250 I6
- 255 V8
- 289 V8 - (made after August 3, 1964) - had 6 bolts holding bellhousing to block
- 302 V8 including Boss 302
- 302 Cleveland (Australia)
- 351 Cleveland V8 (not the 351 Cleveland M-block engine)
- 351 Boss
- 351 Cobra Jet
- 351 Windsor V8
- 400 Cleveland M-block V8 aka 400FMX (certain 1973 casting numbers D1AE and D3AE, mated to the FMX transmission)
- 3.8/3.9/4.2L Canadian Essex 90° V6 (RWD only)
- 240 I6
- 300 I6
- 4.6L Modular V8 (first two casting runs, numbers F1AE and F2VE)
- 5.0L V8

I know that most of us would not dream of losing our beloved Clevelands but with modern superchargers and turbochargers along with fuel injection, an alternative may be a very good thing. Consider building a monster torque engine or screaming high rev one weighing a fraction of our old iron block.

Jingle bells jingle bells is the song introducing our coming Christmas party; at least it is the one I have ringing in my head. Its lively beat expresses the excitement brought to us all during this season. Thinking of the children of serving Marines reminds me of our chance to brighten their faces by bringing, if you wish, a toy or a few dollars to our annual drive. You may bring a toy to the Wilkinson event or the Christmas Party; alternatively, a cash contribution saves you the shopping trip. Be sure to send your check to Bob Singer to reserve your table for the coming yuletide party. Remember too that everyone is invited. Visions of the Panteras' backsides loaded with gifts for Toys for Tots rival those of other rears. It is truly sexier than simply transporting such joy in a sedan trunk even a sport car's. I must confess that using an old-time woodie wagon does come very close for me.

Special Notice at the Christmas Party for long time members is being planned. Recognition for those POCA members will be a key feature of the Party. Our intent is to acknowledge, for the first time, members of 40, 30 and 20 years of participation as an expression of our gratitude.

Sam Rosman Life Celebration is tentatively scheduled for January 3rd. Details to follow. Please mark your calendars.

General Meeting (Reminder) is at Coco's (12582 Valley View St.) Garden Grove (714) 898-9719 at 7:30PM on the third Wednesday of each month except December. Scott is likely to have a video treat for us all.

Get the message? Without your current email on file, you are not getting all the communiqués that your membership dues warrant. Send Judy your latest email address for the file.

POCA Rally Scheduled for May 15-19, 2015. Jot it down on your electronic devices. I will as soon as I buy one.

Picture of Your Car is needed for our web site. Email one to Greg Ford at tpocwebmaster@gmail.com.

Reminders: from rkunishige@hotmail.com. Everyone with an interest in DeTomaso cars is always welcome.

Nov 16 ***San Diego Train*** day.

Nov 19 ***TPOC Mtg 7:30pm*** Coco's (12582 Valley View St.) Garden Grove (714) 898-9719.

Dec 6 ***Toys for Tots & Wilkinson Shop Visit*** enable us to gather needed unwrapped toys for kids as we tours his facility. Each is encouraged but not required to bring a toy or two.

Dec 14 ***TPOC Christmas Party***. Alta Vista Country Club 11-3pm. \$35pp received by Pearl Harbor day. Send money to Bob 714 960-2323 at the address in the flyer. December 7th is the due date for those of us having trouble remembering the other day in infamy when over 2,000 Americans lost their lives. We'll continue to accept toys there for our annual drive.

Dec 27 ***Gondola Cruise*** 5pm reduced fare at \$25 including tip. Send Bob even more money. He likes it.

Jan 3? ***Sam Rosman Life Celebration*** is tentatively scheduled. Details to follow.

Long Beach Swap Meet @ 6am – 1pm at Veterans' Stadium \$8. Nov 9, Nov 30, Dec 14.

Weekly Events: Friday: Garden Grove Main St, Saturday: HB Donut Derelicts, Irvine Cars n Coffee, Sunday: Woodland Hills Supercars, Topanga Canyon & Erwin St 7-11am.

Ads. A new feature for your pleasure. Submit yours via email.