

530 STATE FAIR BLVD
SYRACUSE, NY 13204
1-800-634-3001 – PHONE
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SERVICE@AUTOGEAR.NET



INSTALLING YOUR AUTO GEAR “SYRACUSE” 4-SPEED TRANSMISSION

THANK YOU FOR PURCHASING ONE OF OUR NEW MODEL 18 FOUR-SPEED MANUAL TRANSMISSIONS. WE ARE CONFIDENT THAT THIS NEW DESIGN WILL GIVE YOU SATISFACTION IN YOUR DAILY MOTORING, REGARDLESS OF WHETHER THAT TAKES PLACE ON THE STREET, STRIP, OR OVAL.

WHILE WE ATTEMPTED TO MAINTAIN THE LOOK OF A '60'S DESIGN WE DID MAKE SOME CHANGES TO CORRECT FLAWS LONG EVIDENT IN THE ORIGINAL AND, IN SEVERAL INSTANCES, THESE MAY AFFECT YOUR INSTALLATION PROCEDURE. PLEASE READ THESE NOTES CAREFULLY BEFORE BEGINNING.

WE THICKENED THE FRONT CASE WALL FOR A “FULL WIDTH” 307 BALL BEARING. THE LONGER CASE (.1475”) WILL PLACE THE MAINDRIVE PILOT, EXTENSION CROSSMEMBER FOOT, SHIFT LEVER ASSEMBLY AND OUTPUT SHAFT SPLINE REARWARD BY THAT AMOUNT. WE HAVE NOT FOUND THAT THIS PRESENTS ANY PROBLEM IN SERVICE, BUT PLEASE CONSIDER THIS BEFORE INSTALLING. IN PARTICULAR, THE CROSSMEMBER HOLES MAY REQUIRE SLIGHT MODIFICATION AND IT MAY ALSO BE NECESSARY TO SHORTEN YOUR DRIVESHAFT SLIGHTLY TO INSURE ADEQUATE SLIP. IF A SCATTERSHIELD OR 'BLOCK SAVER' IS FITTED YOU MIGHT ALSO NEED TO MODIFY THE MAINDRIVE PILOT BUSHING TO PROVIDE ADEQUATE SUPPORT.

AUTO GEAR MODEL 18'S USE A COMMON EXTENSION CASTING FOR 27 AND 32 SPLINE GENERAL MOTORS APPLICATIONS. FOR THIS REASON THE LOWER TWO SHIFTER BLOCK HOLES ON THE 27 SPLINE EXTENSION ARE *THROUGH HOLES*. BOTH OF THESE MUST BE SEALED OR LEAKS WILL OCCUR.

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ASSEMBLIES ARE SHIPPED WITHOUT OIL. WE RECOMMEND FILLING YOUR NEW TRANSMISSION WITH A GOOD QUALITY PETROLEUM-BASED SAE 90 GEAR LUBRICANT MEETING API SPECIFICATIONS 'GL-4' OR 'GL-5' AND 'MT-1'. DO NOT USE GL-5 LUBRICANTS WITHOUT THE MT-1 LABEL; THE EP ADDITIVES IN UNMODIFIED GL-5 LUBRICANTS HAVE BEEN FOUND TO DAMAGE THE BRONZE USED IN BUSHINGS AND SYNCHRONIZER RINGS. SYNTHETIC LUBRICANTS SHOULD BE AVOIDED UNLESS YOU KNOW THE FORMULATION SELECTED WILL NOT PREVENT SYNCHRONIZATION; THE WRONG SYNTHETIC MAY REQUIRE A COMPLETE REBUILD TO RESTORE PROPER FUNCTION.

THE FILL AND DRAIN PLUGS PROVIDED MUST BE USED. THESE ARE STRAIGHT-THREAD DESIGNS AND DO NOT REQUIRE UNUSUAL TORQUE SETTINGS OR SEALANT (DO NOT REMOVE THE O-RINGS!). THE RED-TOPPED PLUG IS MAGNETIC AND SHOULD BE SET IN THE LOWER HOLE.

***RACING APPLICATIONS* CAN PLACE UNUSUAL STRESS UPON THE GEARBOX VENT SYSTEM. IF THIS APPLIES TO YOU, CONTACT US REGARDING ALTERNATE BREATHER OPTIONS PRIOR TO INSTALLATION.**