

Super Turbine "300"



AUTOMATIC CHOICE

DESCRIPTION

The Super Turbine 300 (abbreviated ST-300) was a two-speed automatic transmission built by General Motors.

The ST300 had a three-element torque converter, a front and rear multiple-disc clutch pack, and a compound planetary gear set with a front band and a clutch pack for reverse and manual low gear.

From 1964 to 1967 Buick and Oldsmobile versions of this transmission used a torque converter with a variable-pitch stator called Switch-Pitch by Buick and Variable Vane by Olds. The stator blades moved from high to low position by an electrical solenoid and a stator valve, controlled by a switch on the throttle linkage. At light to medium throttle, the stator blades were at 32°, providing a torque multiplication of 1.8:1 and a converter stall speed of approximately 1800 rpm. At two-thirds to full throttle, the blades switched to the 51° high position, giving torque multiplication of 2.45:1 and a stall speed of approximately 2300 rpm. The blades were also set to the high position at idle to limit creep when stopped in Drive. The variable-pitch stator was eliminated after 1967.

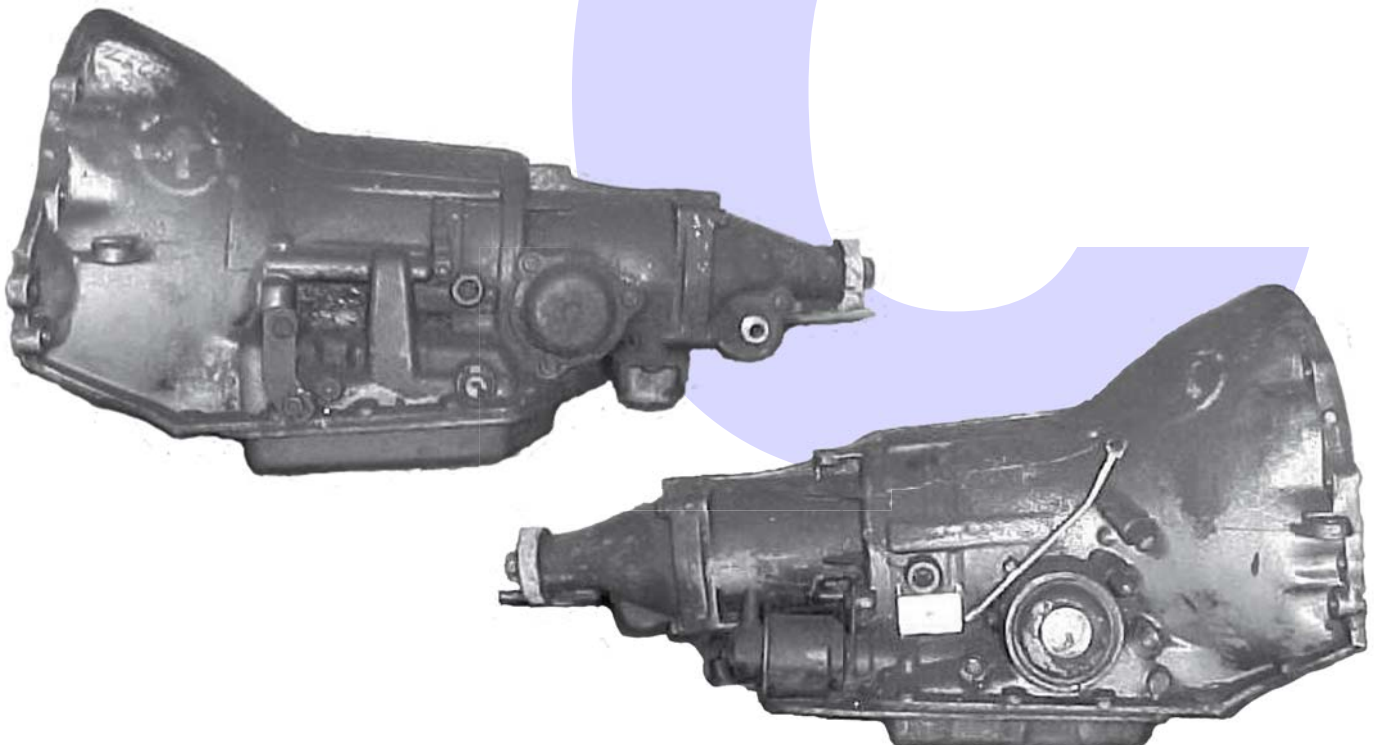
FEATURES

Has one piece aluminium case and bell housing, with 14 bolt oil pan
 Has modulator on right side rear of transmission case.
 Selector positions are P-R-N-D-L

VEHICLE FITMENT

..... Buick Special	1964-69 Oldsmobile F85	1964-69
..... Pontiac Tempest	1964-69 Pontiac Firebird	1964-69
..... Jetstar	1964-69		

TYPICAL UNIT



THE AUTOMATIC TRANSMISSION PARTS WAREHOUSE