



1vd Ftv Twin Turbo Diesel

**Richard Hess, Joseph F. King, James L
Harp (Jr), THERMO MECHANICAL
SYSTEMS CO CANOGA PARK CA.**

1vd Ftv Twin Turbo Diesel:

Exploratory Development of a Twin-Spool Turbocharger for a High Output Diesel Engine Richard Hess, Joseph F. King, James L Harp (Jr), THERMO MECHANICAL SYSTEMS CO CANOGA PARK CA., 1986 The analysis design fabrication and experimental testing of a twin spool turbocharger was conducted for the Cummins NTC 475 diesel engine Two major designs of the twin spool turbocharger were fabricated and tested 1 Compact design concentric shaft to shaft bearing coupled turbocharger incorporating a split 40 deg backswept impeller b split AiResearch Ti8A85 turbine rotor c adjustable vaned compressor diffuser and d nozzleless AiResearch turbine volute housing and 2 Independently supported shafts dynamically de coupled concentric shaft design incorporating a separate structures for bearing support of the inner shaft b split 25 deg backswept compressor impeller c split T18A40 Ti8A85 turbine rotor exducer combination and d divided volute adjustable nozzle turbine housing While bench tests were performed on both designs engine testing was successfully carried out using the latter designs Tests indicated that the second twin spool configuration gave performance comparable to the originally equipped two stage turbocharger system of the NTC 475 diesel engine rated BHP of 425 hp at 2100 RPM best BSFC of 0.35 at engine lug with the added benefit of extending engine lugging range to 1200 RPM from 1300 RPM as originally equipped This configuration gave peak compressor efficiency of about 75% and peak turbine efficiency of about 80% both attributed to the reduction inducer angle of attack and exducer exit swirl angle made possible by the twin spool concept

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web the control circuit is based on a cmos inverter ic1 type 40106 the motor is switched by a darlington with discrete components t1 t2 ic1a inverter operates as an oscillator whose duty cycle the t2 leads so the motor receives energy is determined by r2 c2 d3 gave the inactive signal oscillator when t2 is blocked is determined by r3 p1

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web the diagram below has two components the normally open temperature switch and the magnetic contactor the three

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