

ALLISON CONVERTER
ABSORPTION CHART SUMMARY
(TWIN TURBINE)

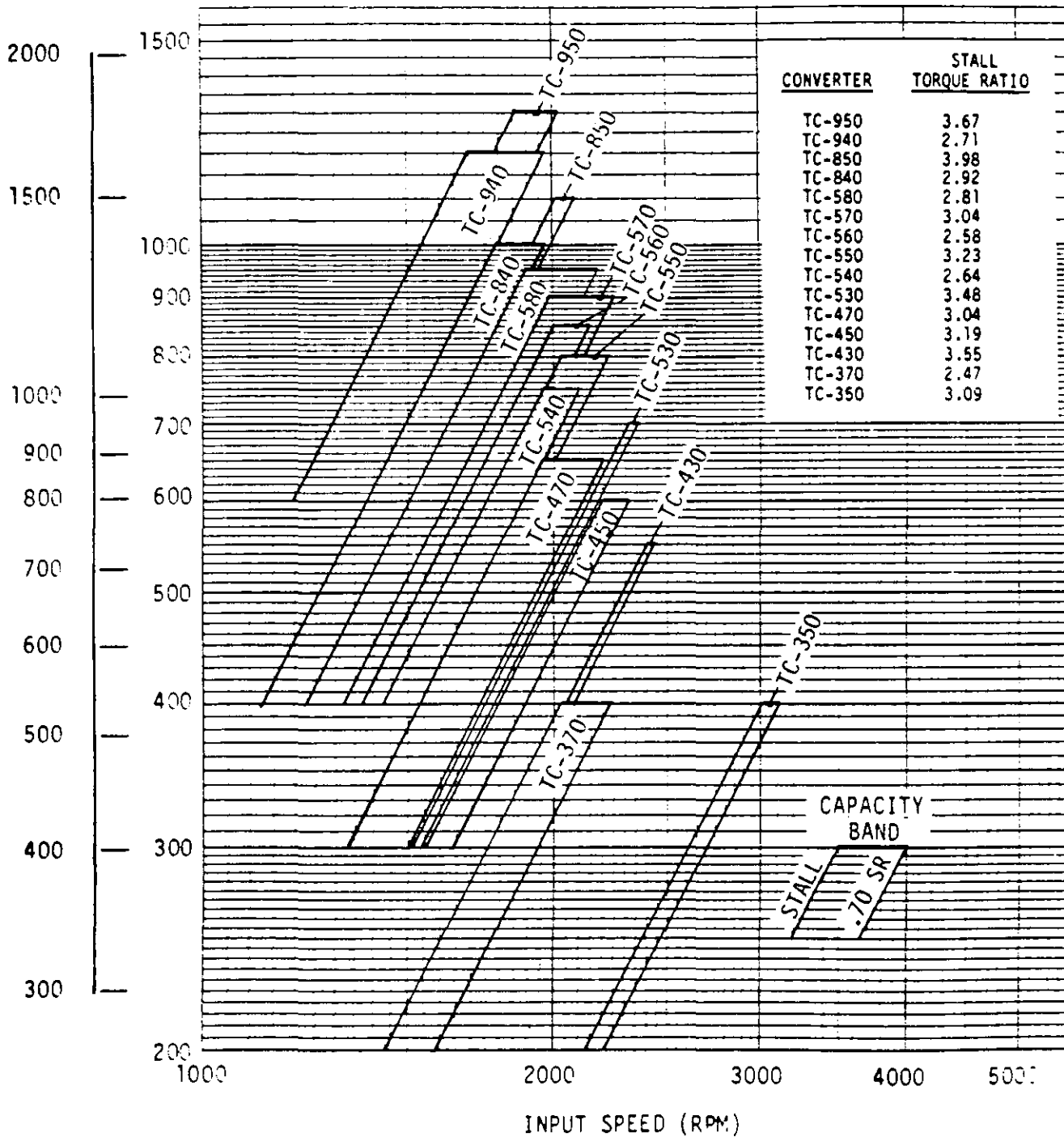
DATE: 10-12-83

				TRANSMISSION			
CONVERTER		SALES CURVE		T(R)/T2000 T ₂ =0.826	T(R)/T2000 T ₂ =1.21	T(R)/T3000	T(R)/T4000
STR	MODEL	TC-REF	DATE				
5.47	TT-220	9026	1-26-74	X		N	
7.53	TT-230	8857	1-26-74	N		N	
5.44	TT-240	7100	1-26-74	X		N	
3.52	TT-242	11556	2-23-68		N		
7.45	TT-250	18428	10-13-76	N		N	
5.09	TT-252	11557	2-23-68		X		
5.11	TT-260	7101	1-26-74	X		X	
3.32	TT-262	11558	2-23-68		X		
6.97	TT-270	8858	1-26-74	X		N	
4.81	TT-272	11559	2-23-68		X		
6.70	TT-424	13870	1-26-74	N		N	
5.18	TT-425	8859	2-11-74	X		X	N
4.78	TT-426	11560	2-23-68		X	N	
3.40	TT-427	11561	2-23-68		X	N	
6.61	TT-430	9058	2-11-74				N
6.79	TT-444	17710	3-08-76	X		X	
4.92	TT-445	8860	2-11-74	X		X	X
3.34	TT-447	11562	2-23-68		X	X	
6.34	TT-450	9060	2-11-74				X
6.72	TT-464	18854	11-04-77	N		N	
4.67	TT-465	9062	2-11-74	X		X	X
4.38	TT-466	18918	2-24-78		N	N	
3.19	TT-467	18919	2-24-78		N	N	
6.01	TT-470	9063	2-11-74				X
5.42	TT-615	18920	12-18-81				X
5.21	TT-625	10010	1-26-74				X
4.91	TT-645	10011	1-26-74				X
2.86	TT-646	19059	11-12-80				N

NOTE: "N" INDICATES CONVERTER NOT PRODUCTION RELEASED

ALLISON INDUSTRIAL TORQUE CONVERTER FAMILY

INPUT TORQUE
(N·M) (LB·FT)

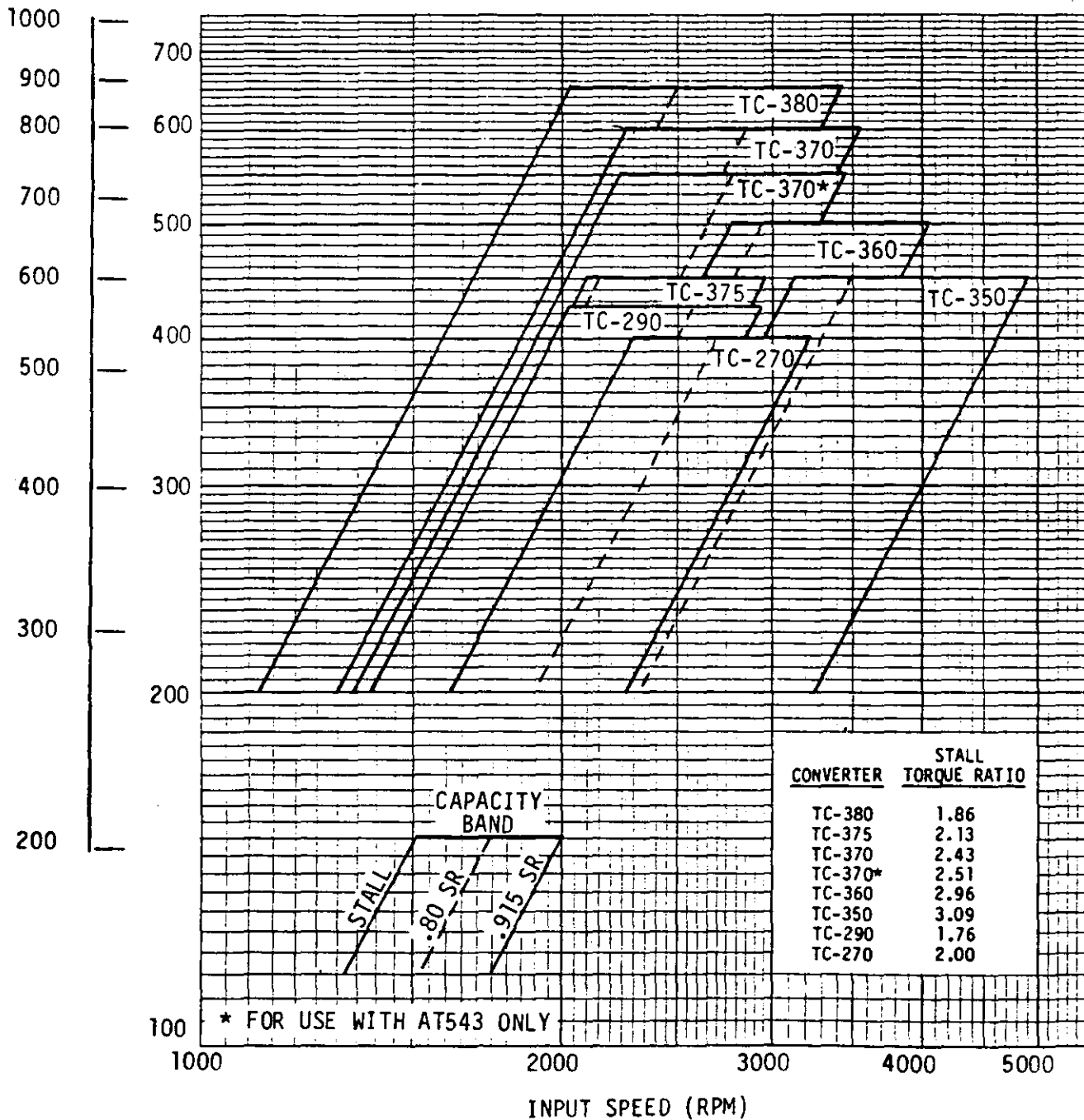


ALLISON TRANSMISSION

TORQUE CONVERTERS

(TC-200/300 SERIES)

INPUT TORQUE
(N·M) (LB·FT)

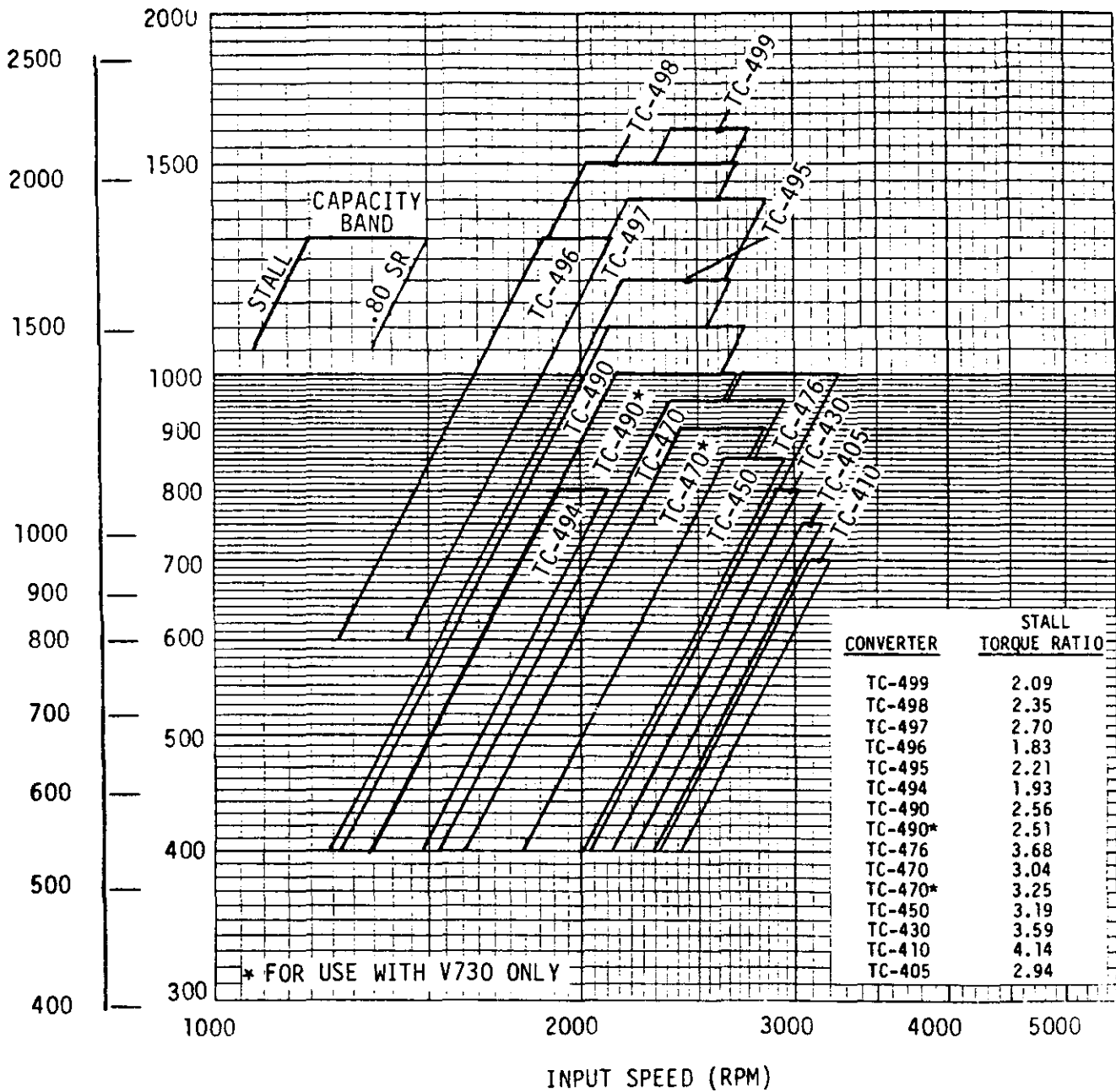


ALLISON TRANSMISSION

TORQUE CONVERTERS

(TC-400 SERIES)

INPUT TORQUE
(N·M) (LB·FT)

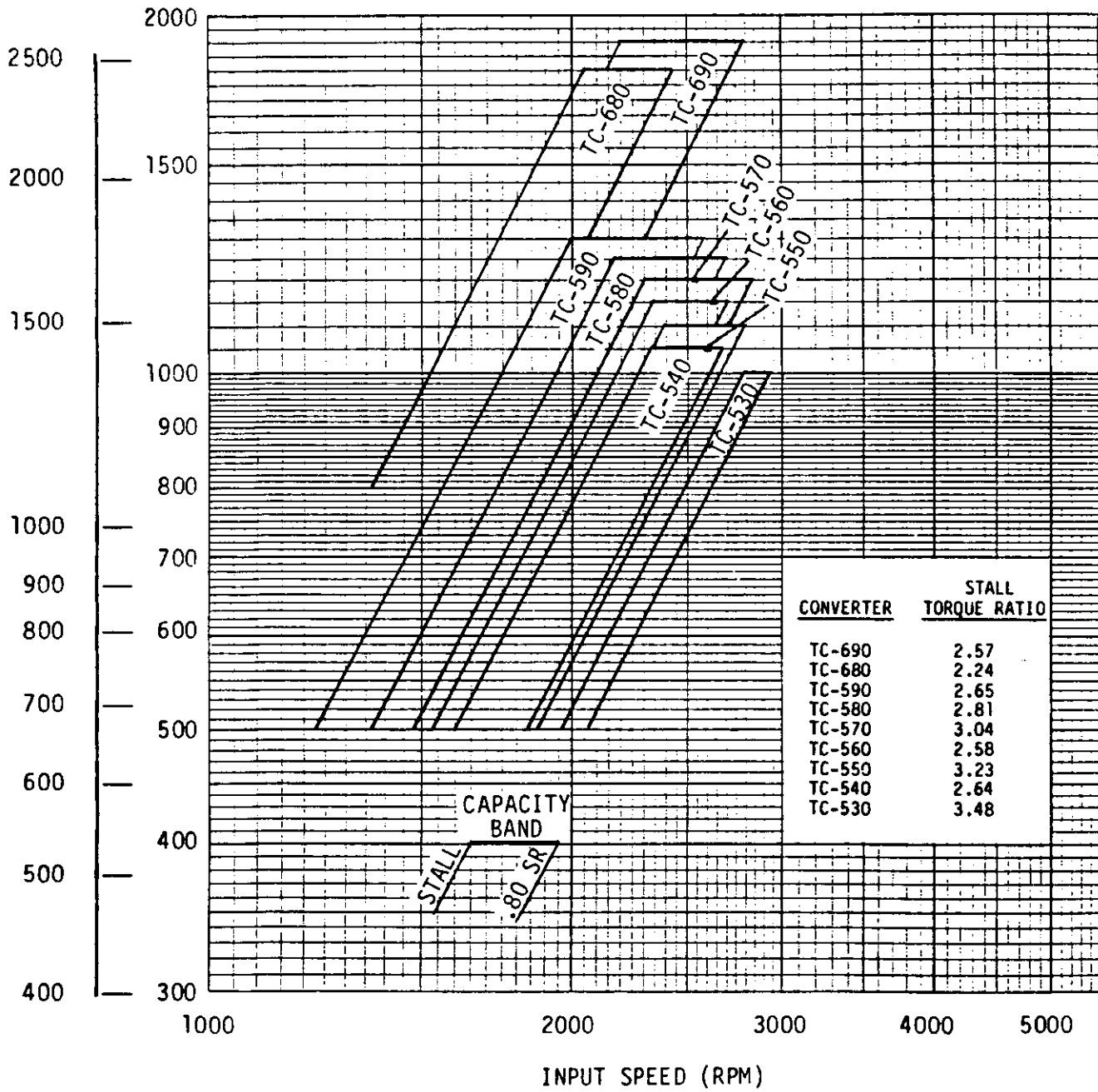


ALLISON TRANSMISSION

TORQUE CONVERTERS

(TC-500/600 SERIES)

INPUT TORQUE
(N·M) (LB·FT)

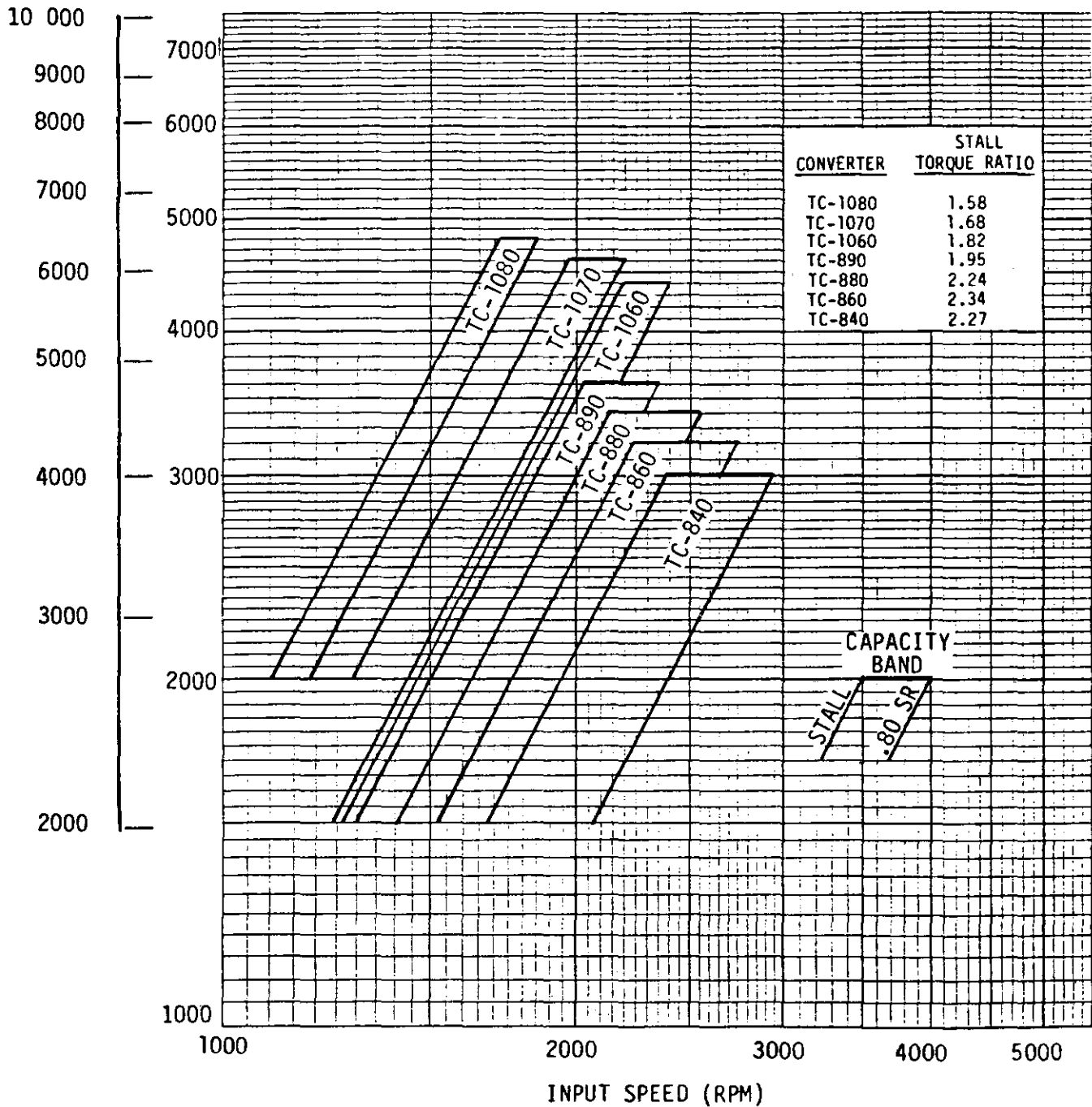


ALLISON TRANSMISSION

TORQUE CONVERTERS

(TC-800 AND 1000 SERIES)

INPUT TORQUE
(N·M) (LB·FT)

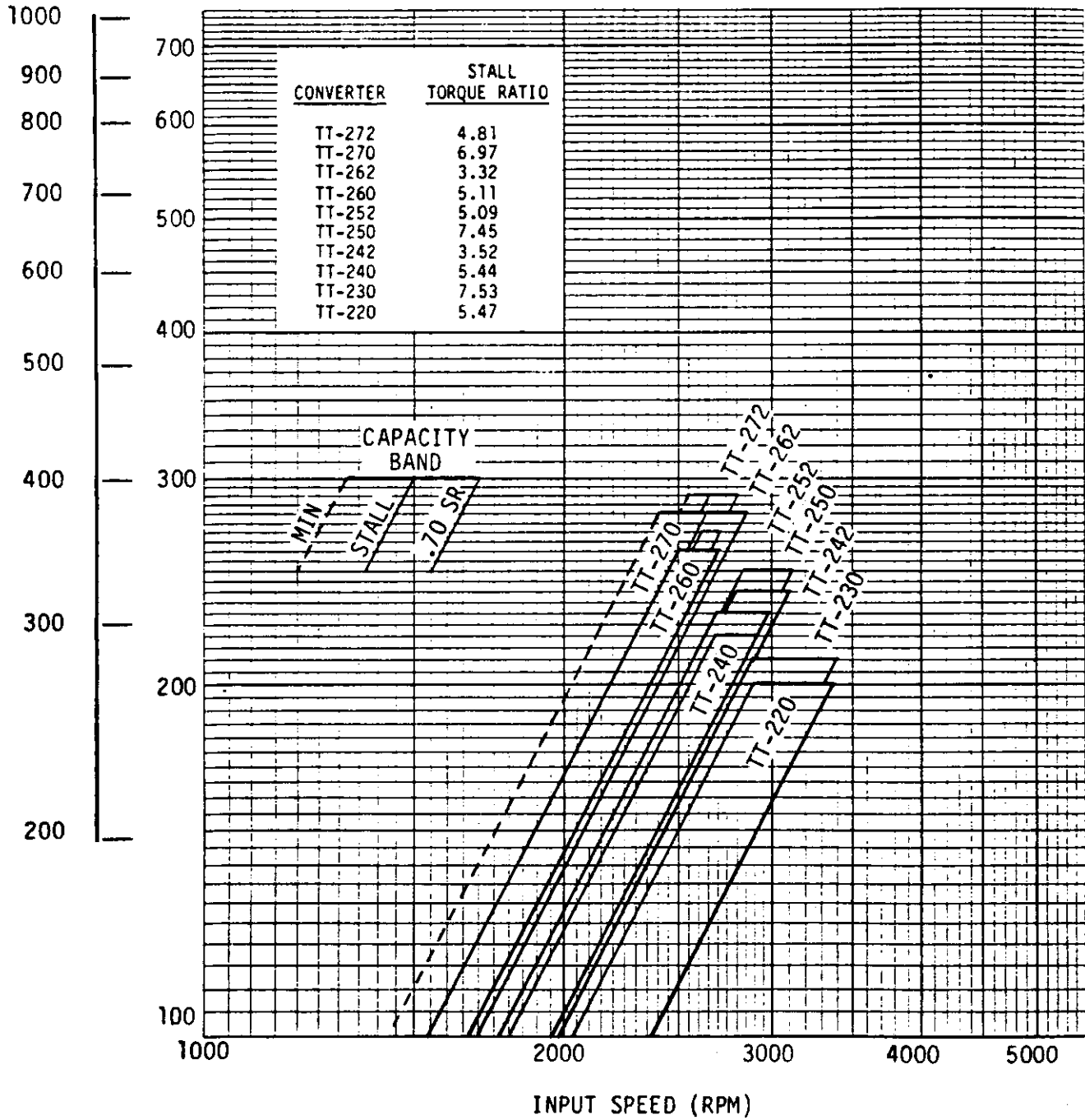


ALLISON TRANSMISSION

TWIN TURBINE TORQUE CONVERTERS

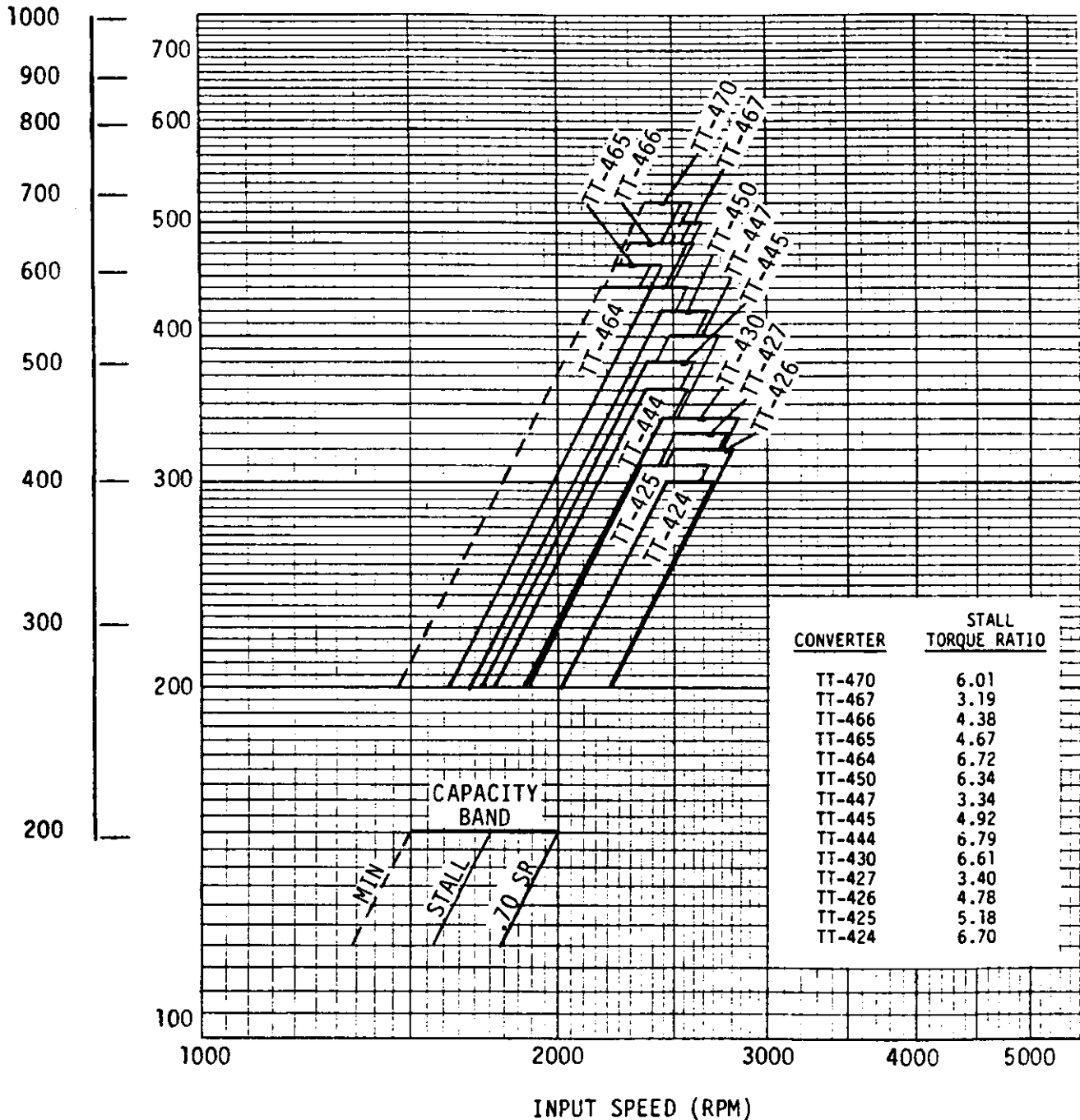
(TT-200 SERIES)

INPUT TORQUE
(N·M) (LB·FT)



ALLISON TRANSMISSION
TWIN TURBINE TORQUE CONVERTERS
 (TT-400 SERIES)

INPUT TORQUE
 (N·M) (LB·FT)

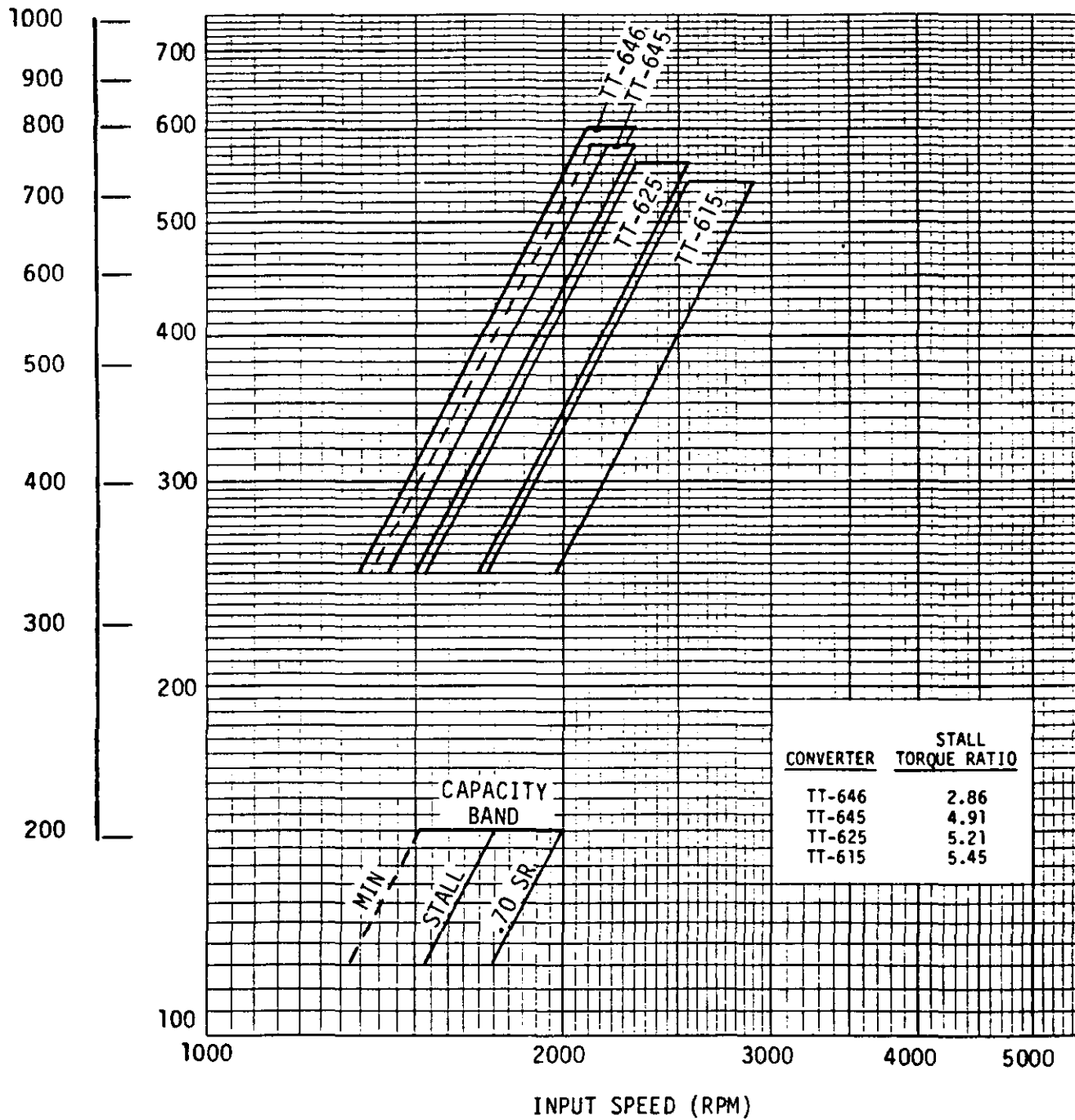


ALLISON TRANSMISSION

TWIN TURBINE TORQUE CONVERTERS

(TT-600 SERIES)

INPUT TORQUE
(N·M) (LB·FT)



Allison Transmissions

**Shift Specification and Miscellaneous Data
for Analysis of Torsional Data Tapes**

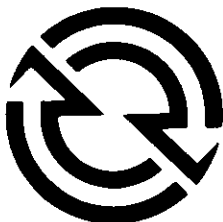
PUB. NO.

66

DATE

June 1984

FOI 514



DETROIT DIESEL ALLISON DIVISION
GENERAL MOTORS CORPORATION
P. O. BOX 894
INDIANAPOLIS, INDIANA 46206
ATTENTION: SALES DEVELOPMENT J-5

ALL TRANSMISSION MODELS

Shift Specification and Miscellaneous Data for Analysis of Torsional Data Tapes

To properly play back and analyze torsional test data tapes, the Test Department requires information regarding shift specifications and other miscellaneous data pertinent to the review of the particular tape(s). The following data sheet is to be completed by the responsible Application Engineer and submitted with the Test Request and/or the Torsional Test Data Sheet accompanying the data tape.

NOTE: The attached Shift Specification and Miscellaneous Data Sheet is to be completed only by the responsible Application Engineer. Various Field personnel are NOT responsible for completing this sheet as they do not have access to the necessary shift specification data.

The Shift Specification information should be obtained from the R02 Specifications, and not from transmission test specification drawings. All pertinent upshifts and downshifts should be indicated as shown. Any special capabilities or modifications of the shift calibration should be indicated, including calibration type - hydraulic or ATEC.

To further assist in playback of the tapes, any comments regarding transmission problems possibly due to torsional activity should be noted on the data sheet.

Date _____

Data Sheet to be completed by Application Engineer and submitted with Test Request and/or Torsional Test Data Sheet

Shift Modifications?: _____

[illegible]

Other Comments: _____



C-06-PB66-04 8/84

FORM NO.	DESCRIPTION
00SA0003	APPLICATION INSTALLATION REVIEW FORM, ON-HIGHWAY VEHICLE
00SA0004	APPLICATION INSTALLATION REVIEW FORM, OFF-HIGHWAY VEHICLE
00SA1032	PARTS CATALOG TG 600 SERIES TRANSMISSION
00SA1038	PARTS CATALOG TC 800, 900 SERIES TORQMATIC CONVERTER
00SA1039	PARTS CATALOG TC 200, 300 TORQMATIC CONVERTER
00SA1053	SERVICE MANUAL TG 604, 605, 607, 608, 609, 627 TORQMATIC TRANSMISSION
00SA1054	SERVICE MANUAL TC 800/900 TORQMATIC CONVERTER
00SA1057	PARTS CATALOG TC 500 SERIES TORQMATIC CONVERTER
00SA1058	SERVICE MANUAL TC 500 SERIES TORQMATIC CONVERTER
00SA1063	SERVICE MANUAL TG 602 TORQMATIC TRANSMISSION
00SA1067	SERVICE MANUAL TG 617, 618, 637, 647 TORQMATIC TRANSMISSION
00SA1073	SERVICE MANUAL CRT 3331 TRANSMISSION
00SA1076	PARTS CATALOG CRT 5530, 5630, 5631 TRANSMISSION
00SA1077	PARTS CATALOG CT 5600, 5800 TRANSMISSION
00SA1078	SERVICE MANUAL CT 5640, 5660, 5840, 5860 TRANSMISSION
00SA1079	PARTS CATALOG 3340, 3461 TRANSMISSION
00SA1083	SERVICE MANUAL CRT 5630, 5631 TRANSMISSION
00SA1096	SERVICE MANUAL CT, VCLT 3340, 3461 TRANSMISSION
00SA1099	SERVICE MANUAL TC 200, 300 SERIES TORQMATIC CONVERTER
00SA1104	SERVICE MANUAL CRT 3531, 3630 TRANSMISSION
00SA1110	SERVICE MANUAL 5960, 6060, 6061 TRANSMISSION
00SA1116	PARTS CATALOG TC 400 SERIES TORQMATIC CONVERTER
00SA1125	PARTS CATALOG CT 4440, 4460 SERIES TRANSMISSION
00SA1130	SERVICE MANUAL CLBT 4460 TRANSMISSION
00SA1136	SERVICE MANUAL TC 400 SERIES TORQMATIC CONVERTER
00SA1150	DP 8000 TRANSMISSION SPECIFICATION SHEET
00SA1154	TR(T) 4000 SERIES TRANSMISSION SPECIFICATION SHEET
00SA1158	PARTS CATALOG TT, TRT, CT 4000 SERIES TRANSMISSION
00SA1171	SERVICE MANUAL TRT 4000 TRANSMISSION
00SA1211	SERVICE MANUAL TT 1200, 1400 TRANSMISSION
00SA1212	SERVICE MANUAL TRT 1220-1 TRANSMISSION
00SA1216	CL(B)T 5000, 6000 TRANSMISSION SPECIFICATION SHEET
00SA1228	SERVICE MANUAL DP 8861-8961 TRANSMISSION
00SA1231	ELECTRIC SHIFT CONTROL BROCHURE
00SA1232	CYCLING AND HAULING TRANSMISSION CATALOG
00SA1244	PARTS CATALOG CRT 3321, 3331, 3531, 3630 TRANSMISSION
00SA1247	PARTS CATALOG 5900-6000 SERIES TRANSMISSION
00SA1248	PARTS CATALOG 1200, 1400, 2000 TRANSMISSION
00SA1249	PARTS CATALOG 8000 SERIES TRANSMISSION
00SA1277	SERVICE MANUAL TT, TTB, 2001 TRANSMISSIONS
00SA1280	SERVICE MANUAL TRT 2001 TRANSMISSIONS
00SA1309	TRANSMISSION PERFORMANCE CALCULATION BOOKLET
00SA1314	SERVICE MANUAL CLT, CLBT 700 SERIES TRANSMISSION
00SA1315	PARTS CATALOG SERIES CT 700 TRANSMISSION
00SA1318	OPERATORS MANUAL 5000, 6000, 8000 SERIES TRANSMISSION
00SA1324	DP 8000 TRANSMISSION AUTOMATIC/ELECTRIC SHIFT CONTROL BOOKLET
00SA1336	OPERATORS MANUAL TWIN TURBINE MODELS - 2000 - 3000 - 4000 SERIES
00SA1352	TC SERIES TORQMATIC CONVERTER SPECIFICATION SHEET
00SA1354	OPERATORS MANUAL CT, VCLT 3340, 3461 TRANSMISSION
00SA1355	OPERATORS MANUAL CRT 3000, 5000 TRANSMISSION
00SA1362	SERVICE MANUAL TT 4700 SERIES TRANSMISSION
00SA1363	SERVICE MANUAL TRT 4800 SERIES TRANSMISSION
00SA1366	MECHANICS TIPS HT 700D SERIES TRANSMISSION
00SA1388	CLBT 700 TRANSMISSION SPECIFICATION SHEET
00SA1400	SI METRIC POCKET MANUAL
00SA1405	OPERATOR'S MANUAL TC SERIES TORQMATIC CONVERTER
00SA1475	OPERATORS MANUAL OFF-HIGHWAY AUTOMATIC TRANSMISSION
00SA1488	TRANSMISSION SERVICE MANUAL & PARTS BOOK INDEX

FORM NO.	DESCRIPTION
00SA1502	AUTO-ELECTRIC CMP REBUILD—5000, 6000, 8000 TRANSMISSION
00SA1518	TT 3000 CYCLING TRANSMISSION SPECIFICATION SHEET
00SA1519	TT 3000 PARTS CATALOG
00SA1521	TRANSMISSION ASSEMBLY NO. REFERENCE DATA FICHE
00SA1530	TRANSMISSION SERVICE INFORMATION LETTERS (75 P/PKG)
00SA1533	ASSEMBLY NUMBER TO MODEL INDEX MICROFICHE
00SA1544	MISCELLANEOUS ASSEMBLY NO. TO MODEL INDEX FICHE
00SA1545	ALLISON TRANSMISSIONS DISTRIBUTOR SALES REVIEW—APPLICATION & INSTALLATION FORM
00SA1547	CRT 5633 SERVICE MANUAL
00SA1559	PARTS CATALOG 5633 SERIES TRANSMISSION
00SA1560	CLT 654 SERVICE PARTS CATALOG
00SA1573	CRT 5000 (5633) TRANSMISSION SPECIFICATION SHEET
00SA1576	CLBT 750 SERVICE MANUAL (SPANISH)
00SA1584	TT 3000 SERVICE MANUAL
00SA1587	DETROIT DIESEL ALLISON DISTRIBUTOR TRANSMISSION PURCHASE ORDER FORM
00SA1589	QUICK REFERENCE GUIDE FOR OFF-HIGHWAY TRANSMISSIONS
00SA1610	ALLISON TRANSMISSION SPECIFICATION SHEET TT, TRT, TTB, 2000
00SA1655	TRT 2001 SERVICE MANUAL (SPANISH)
00SA1656	TTB 2001 SERVICE MANUAL (SPANISH)
00SA1659	TRT 4800 SERVICE MANUAL (SPANISH)
00SA1660	TT 4700 SERVICE MANUAL (SPANISH)
00SA1662	OFF-HIGHWAY TRANSMISSION SLIDE PRESENTATION
00SA1663	OPERATORS MANUAL 700 SERIES TRANSMISSION (SPANISH)
00SA1671	CONSOLIDATED TORQUE CONVERTER SERVICE MANUALS
00SA1672	TRT 2001 SERVICE MANUAL (FRENCH)
00SA1673	TTB 2001 SERVICE MANUAL (FRENCH)
00SA1676	CATALOG OFF-HIGHWAY TRANSMISSION (FRENCH, SPANISH, ARABIC)
00SA1697	ALLISON AUTOMATICS IN CONSTRUCTION TRUCKS
00SA1700	REGEAR YOUR FARM EQUIPMENT
00SA1716	CLT 654CR SERVICE MANUAL
00SA1727	TRT 3420-1 SERVICE MANUAL
00SA1800	ALLISON AUTOMATIC TRANSMISSION — SALES TECH DATA BOOK—VOLUMES 1, 2, 3, 4
00SA1809	5000, 6000 & 8000 TRANSMISSION ELECTRICAL TEST PROCEDURES USING N1948 TEST KIT
00SA1835	INSIDE DETROIT DIESEL ALLISON "INDIANAPOLIS OPERATIONS"
00SA1844	MILITARY APPLICATIONS BROCHURE (ENGINES/TRANSMISSIONS/GAS TURBINES)
00SA1850	ENGINES/TRANSMISSIONS ADAPTATION CHECK SHEET (100 PER PAD)
00SA1861	ALLISON OFF-HIGHWAY TRANSMISSIONS SALES TECH DATA BOOK—HAULING MODELS
00SA1862	ALLISON OFF-HIGHWAY TRANSMISSIONS SALES TECH DATA BOOK—CYCLING MODELS
00SA1866	5861, 5961, 6061 SERVICE MANUAL
00SA1904	SCAAN TRANSMITTAL FOLDER
00SA1910	DP 8962 BROCHURE

LITERATURE ORDER FORM PREPARATION

1. Orders should be submitted on Literature Order Form No. 15SP0009.
2. A purchase order number is required for every order, including orders for "no charge" material.
3. **TYPE OR PRINT** the complete "Bill to" and "Ship to" addresses in the appropriate boxes. **DO NOT USE A P.O. BOX NUMBER FOR THE "SHIP TO" ADDRESS.** Indicate in the "Attn" box the recipient's name.
4. Purchase orders are processed by computer; therefore, each numeral and letter that make up form numbers have a definite meaning and should be shown on the Literature Order Form exactly as listed in the catalog.
5. There is a minimum order charge of \$5.00 for literature orders. Orders for literature totaling less than \$5.00 will be invoiced the \$5.00 amount. A number of literature items are "no-charge." It is recommended that these items generally be included in an order of \$5.00 or more.
6. Domestic orders will be shipped via the most economical method.
7. A \$6.00 charge will be placed on all "**RUSH**" or "**URGENT**" orders that cannot be scheduled for regular computer processing. The **ROUTING** choice for these special handling orders should be indicated on the order and is to be billed to the customer. "**RUSH**" orders will be prepared and processed for material in stock only. **No back orders will be generated. Items not shipped on a "RUSH" order should be reordered as needed.**

"**NON-RUSH**" items should not be placed on the same order as "**RUSH**" items as they cannot be separated.

8. If material is needed urgently for a meeting or some other reason, indicate this in the "Special Instructions" block of the literature order form.

Example: "**Need for meeting, October 2, 1982.**"

9. Back orders will be shipped in accordance with the original order routing and shipping instructions unless otherwise instructed.
10. If the materials being ordered are in pads, sets, single sheets, etc., indicate this in the description of the item.
11. To return literature, comply with all instructions shown on 17SE0091 and await authorization and shipping instructions.
12. Discrepancies to the order must be reported within 10 days after receipt. No consideration will be given for discrepancies after this time.
13. All telephone and telegraph orders should be confirmed in writing and the order form clearly marked "**CONFIRMING—DO NOT DUPLICATE.**" Orders, not so marked and duplicated, will be accepted for return less a 10% handling charge. Confirming orders should be directed to the person who received the telephone or telegraph order.
14. Only the originals of literature orders should be sent. No carbon, etc., copies.
15. Cancellation of orders should be by **TELEX** requesting confirmation, as orders may be packed and shipped. This will avoid the duplication of orders.
16. Distributor may not order upkeep material to be shipped to their dealer. Distributors must make their own distribution.

The following ordering instructions are for Detroit Diesel Allison personnel only:

1. Type or print in the "Purchase order Number" block, on the literature order form, the following information (Indianapolis Operations department numbers should have the letter "Y" preceding the number):

DIESEL OPERATIONS:

	<u>DATE</u>
	↓
<u>DEPT. NO.</u>	39/10-2-82

INDIANAPOLIS OPERATIONS:

	<u>DATE</u>
	↓
<u>YOUR DEPT. NO.</u>	Yxxx/10-2-82

2. Indicate the department number only in the "Bill to" block.
3. Type or print the complete ship to address in the "Ship to" block.

LITERATURE ORDER FORM PREPARATION

1. Orders should be submitted on Literature Order Form No. 15SP0009.
2. A purchase order number is required for every order, including orders for "no charge" material.
3. TYPE OR PRINT the complete "Bill to" and "Ship to" addresses in the appropriate boxes. DO NOT USE A P.O. BOX NUMBER FOR THE "SHIP TO" ADDRESS. Indicate in the "Attn" box the recipient's name.
4. Purchase orders are processed by computer; therefore, each numeral and letter that make up form numbers have a definite meaning and should be shown on the Literature Order Form exactly as listed in the catalog.
5. There is a minimum order charge of \$5.00 for literature orders. Orders for literature totaling less than \$5.00 will be invoiced the \$5.00 amount. A number of literature items are "no-charge." It is recommended that these items generally be included in an order of \$5.00 or more.
6. Domestic orders will be shipped via the most economical method. Rush or otherwise "expedited" orders will be on a COLLECT basis.
7. A \$5.00 charge will be placed on all "RUSH" or "URGENT" orders that cannot be scheduled for regular computer processing. The ROUTING choice for these special handling orders should be indicated on the order and is to be billed to the customer. This procedure also applies to orders for "no-charge" material. "RUSH" orders will be prepared and processed for material in stock only. No back orders will be generated. Items not shipped on a "RUSH" order should be reordered as needed.

"NON-RUSH" items should not be placed on the same order as "RUSH" items as they cannot be separated.
8. If material is needed urgently for a meeting or some other reason, indicate this in the "Special Instructions" block of the literature order form.

Example: "Need for meeting, July 15, 1982."

9. Back orders will be shipped in accordance with the original order routing and shipping instructions unless otherwise instructed.
10. If the materials being ordered are in pads, sets, single sheets, etc., indicate this in the description of the item.
11. Contact Detroit Diesel Allison at the address or phone number shown on the literature order form for prior authorization to return any material.
12. All telephone and telegraph orders should be confirmed in writing and the order form clearly marked "CONFIRMING—DO NOT DUPLICATE." Confirming orders should be directed to the person who received the telephone or telegraph order.
13. Only the originals of literature orders should be sent. No carbon, etc., copies.

The following ordering instructions are for Detroit Diesel Allison personnel only:

1. Type or print in the "Purchase order Number" block, on the literature order form, the following information (Indianapolis Operations department numbers should have the letter "Y" preceeding the number):

DIESEL OPERATIONS:

DEPT. NO. —————→ DATE
39/6-20-81

INDIANAPOLIS OPERATIONS:

DEPT. NO. —————→ DATE
Y7346/6-20-81

2. Indicate the department number only in the "Bill to" block.
3. Type or print the complete ship to address in the "Ship to" block.

LITERATURE ORDER FORM

15SP0009 Rev. January 1980

DETROIT DIESEL ALLISON
DIVISION OF GENERAL MOTORS CORPORATION
P.O. Box 2803
Livonia, Michigan 48150
Telephone A/C 313 525-8220
TWX 810 242-1448

ETROIT DIESEL ALLISON'S USE):

(FOR CUSTOMER'S USE):

* CUSTOMER SHIP CODE

SHIP VIA:

BEST WAY

* DATE ORDER RECEIVED

DATE OF ORDER:

OCTOBER 2, 1981

PURCHASE ORDER NUMBER:

Y 4321/10-2-81

* AGENCY ORDER NUMBER

ADDITIONAL INFORMATION AS REQUIRED

* CUSTOMER BILL CODE

USE OTHER SIDE OF FORM TO RECORD ADDITIONAL INFORMATION

BILL TO

ATTN:

MR. J. C. COX

CENTENNIAL DETROIT DIESEL, INC.
4747 Broadway, South
Los Angeles, CA 90037

CENTENNIAL DETROIT DIESEL, INC.
4747 Broadway, South
Los Angeles, CA 90037

[illegible]

SPECIAL INSTRUCTIONS
(45 CHARACTERS)

TOTAL

13

MINIMUM ORDER CHARGE \$5.00

RUSH ORDER CHARGE \$6.00

PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE.

*SPACES MARKED WITH ASTERISK NOT TO BE FILLED OUT BY CUSTOMER.

ALL TELEPHONE AND TELEGRAPHED ORDERS MUST BE CONFIRMED IN WRITING AND MARKED ACCORDINGLY.

AUTHORIZED SIGNATURE