DETROIT DIESEL ALLISON TRANSMISSION ADAPTATIONS

AS 04 ADAPTATION DRAWING LISTING

CURRENTLY RELEASED

DRAWING NO.	ALLISON PRODUCT	ENGINE	MODEL
AS 04-002	HT 70, 4460	DETROIT DIESEL	71 SERIES
AS 04-003B	HT 70, 4460, 700 SERIES (SAE #1 HSG.)	CUMMINS (SAE #1 HSG.)	N&H IN-LINE MODELS (855 CU.IN.) (SAE #1 RING GEAR)
AS 04-004	HT 70, 4460, 700 SERIES	IHC	D817
AS 04-006	CLT 3341, 3441	IHC	RD406, U 372 UR 450 RD 501
AS 04-008C	TC-400	DETROIT DIESEL	6V-53
AS 04-009A	CLT-3341, 3441	ALLIS-CHALMERS	3500, 7000
AS 04-010	HT 70, 4460, 700 SERIES	WAUKESHA	TH-844, TH-884
AS 04-014	500 SERIES	CUMMINS	V8-350, VT8-430
AS 04-015B	CLT 3341	CUMMINS	J&C SERIES
AS 04-016A	CT 3341	CATERPILLAR	D-330
AS 04-017	CLT-3341, 3441	IHC	UV-401, 461, 549
AS 04-018B	CLT 3341, 3441	DETROIT DIESEL	3-52, 4-53, 6V-53
AS 04-019	500 SERIES	DETROIT DIESEL	71 SERIES
AS 04-020	CT 3341	CONTINENTAL	T, TD-6427

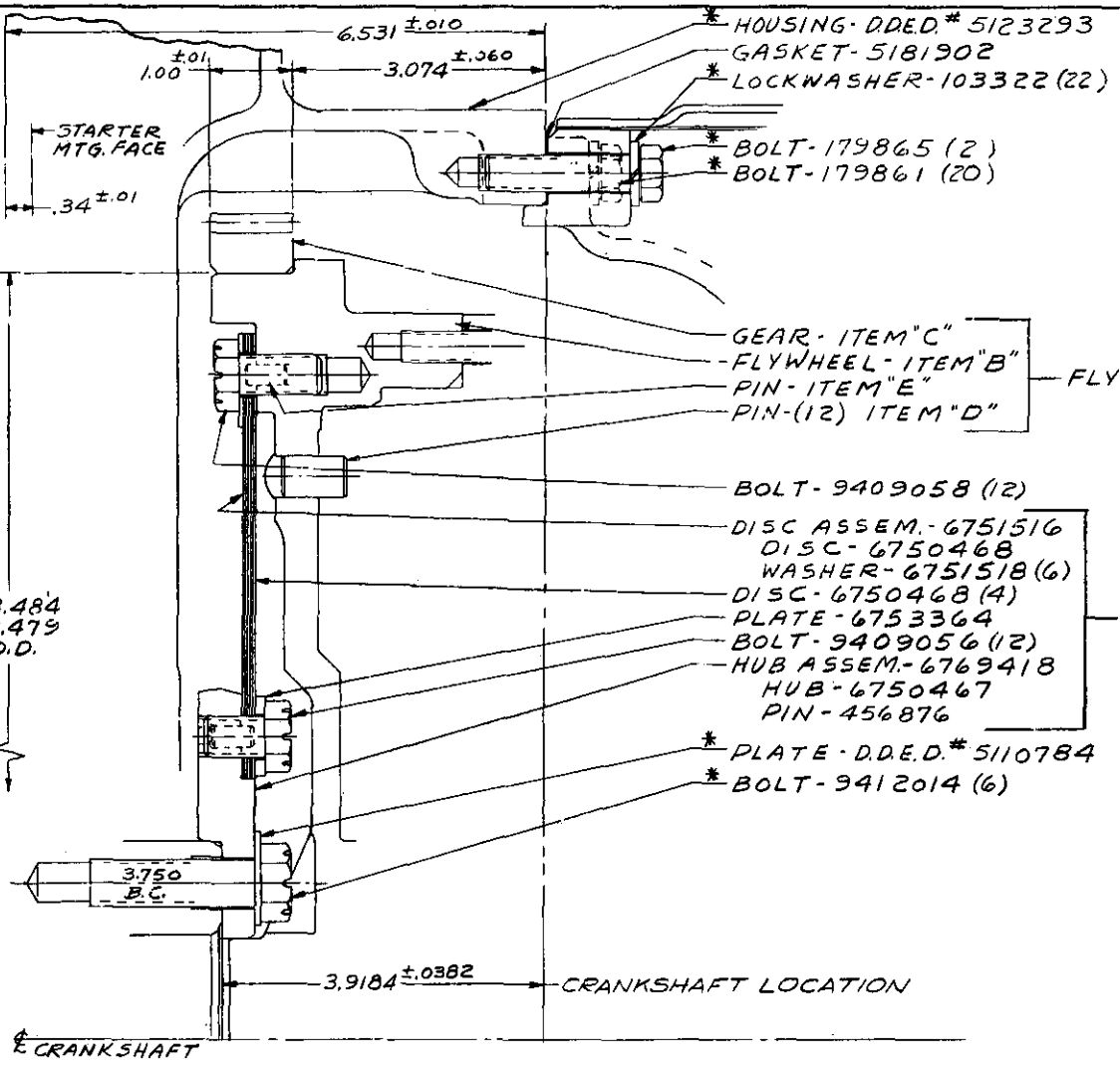
ON-HIGHWAY	OFF-HIGHWAY	AS NUMBER	SUBJECT	TRANSMISSION MODEL
	X	00-021A	Physical Adaptation	DP-8000
	X	00-026E	Shift Tower Gating Patterns	TT-2000, 3000, 4000
	X	00-027C	Air Actuated Clutch Cutoff Option	TT-2000, 3000, 4000
	X	00-028E	Inching Control Valve Body	TT-2000, 4000
	X	00-029	Selector Lever Chart	CLBT-4460, CLT-3460
X	X	00-031C	Installation Requirements for Electric Shift Control	Various
	X	00-032A	Off-Highway Transmission Gauges	See Chart
	X	00-033B	Wire Harness, Manual Electric	CLBT-5000, 6000, DP-8000
	X	00-034A	Electric Shift Inhibitor Switch Installation Rqmts.	DP-8000
	X	00-036	Flex Drive Characteristics	TT-2000, CRT-3000
	X	00-038B	Installation Requirements for SPG	DP-8000
	X	00-039C	Installation Requirements for Auto Shift Tower	DP-8000
	X	00-040C	Installation Requirements for Throttle Potentiometer	DP-8000
	X	00-041D	Installation Requirements for Cab Harness	DP-8000
	X	00-042B	Installation Requirements for Vehicle Harness	DP-8000
	X	00-043C	Installation Requirements for 12-24 Volt Converter	DP-8000, CLBT-5/6000
	X	00-044A	Range Restricter Harness	DP-8000
	X	00-045A	Off-Highway Transmission Gauges	See Chart
	X	00-046	Filter By-Pass Switch	CLBT-5000

DRAWING NO.	ALLISON PRODUCT	ENGINE	MODEL
AS 04-044	HT 70, 4460, 700 SERIES	CUMMINS	V8-350, VT8-430
AS 04-045	TC-400	CUMMINS	N&S IN-LINE MODELS
AS 04-046	TC-8/900	DETROIT DIESEL	71 SERIES
AS 04-047	TC, TCL 8/900	DETROIT DIESEL	6-110
AS 04-048	TC-500	ROLLS-ROYCE	C6S
AS 04-049	TC-400	IHC	UV-549
AS 04-050	HT-70, 4460, 700 SERIES	HERCULES	HS6156, 6182
AS 04-051B	CT-5000	CATERPILLAR	1673, D-333
AS 04-052	CT-3341, 3441	HERCULES	WXLC-3
AS 04-053A	CT-3341, 3441	DETROIT DIESEL	71 SERIES (NO. 2 HSG.)
AS 04-054	500 SERIES	DETROIT DIESEL	6-110
AS 04-055F	CLT-5/6000	CATERPILLAR	D-343
AS 04-056	CT-3341, 3441	HERCULES	HS-590
AS 04-057	CT-3341, 3441	HERCULES	G-339/3400
AS 04-059C	DP 8000	CUMMINS	VT-12-700 (PHASE I ENGINES)
AS 04-060B	HT 70, 4460, 700 SERIES	MACK	END-673, END(T)-707, 711
AS 04-062A	HT 70, 4460, 700 SERIES	WAUKESHA	F 817 GU
AS 04-064A	TC 400	DEUTZ	F8L-714
AS 04-065	TC-500	DEUTZ	F12L-714
AS 04-066E	CLT 5/6000	CATERPILLAR	1693
AS 04-068C	HT-70, 4460, 700 SERIES	MACK	END(T)-864, 865, 866
AS 04-069	CT-3341, 3441	CUMMINS	V6-200

ON-HIGHWAY	OFF-HIGHWAY	AS NUMBER	SUBJECT	TRANSMISSION MODEL
X		02-026	Mechanical Modulator Installation	V-730
X		02-027B	Output Flange Delineation	V-730
X		02-028B	Engine Driven PTO	V-730
X		02-030A	Shift Modulator Rquirements	V-730
X		02-033D	Basic Installation	V-730
X		02-034A	Pneumatic Modulator Installation	V-730
X		02-035A	Oil Level and Dipstick Requirements	V-730
X		20-007P	Basic Installation Drawing (Shts. 1 & 2)	AT-500
X		20-008M	Physical Adaptation Requirements	AT-540
X		20-009B	External Hydraulic Circuit Requirements	AT-540/543
X		20-010D	Transmission Driven Side PTO Option	AT-500
X		20-011D	Provision for Parking Brake	AT-500
X		20-012C	Manual Range Selector Control Data	AT-500
X		20-013C	Speedo Driven Gear Design Requirements	AT-500
X		20-014D	Output Drive Flange Data	AT-500
X		20-016D	Neutral and Reverse Signal Provision	AT-540/543
X		20-023B	Modulator Design Requirements (Shts. 1 & 2)	AT-540/543
X		20-024B	Physical Adaptation Requirements	AT-543
X		20-025A	Oil Pan Pre-Heat Provision Option	AT-540/543

DRAWING NO.	ALLISON PRODUCT	ENGINE	MODEL
AS 04-092A	VH	DETROIT DIESEL	71 SERIES
AS 04-094	CRT-5631	DEUTZ	F8L-714
AS 04-095	HT-70, 4460, 700 SERIES	MAN	D2156 HM3
AS 04-096	HT-70, 4460, 700 SERIES	SEAGRAVE	906
AS 04-097B	VS2-8	DETROIT DIESEL	71 SERIES
AS 04-098	TC 500	CONTINENTAL	S6820
AS 04-099	CLT-5/6000	MWM	TD232-12
AS 04-102	M & MH	DETROIT DIESEL	71 SERIES
AS 04-103	MS	DETROIT DIESEL	71 SERIES
AS 04-110A	5/6000	CUMMINS	V1710, VT1710, VTA1710, PHASE III
AS 04-111	DP 8000	CATERPILLAR	D348-E225
AS 04-114B	TC 400/700 SERIES	CATERPILLAR	C SERIES
AS 04-118B	CLT 5/6000	CATERPILLAR	D346-E231
AS 04-119	HT-70, 4460, 700 SERIES	SCANIA	DS-11
AS 04-120A	VS2-6, VS2-8, (NO DAMPER)	DETROIT DIESEL	71 SERIES
AS 04-123C	DP-8000	CUMMINS	VTA 1710 (PHASE III)
AS 04-125A	TC 8/900	CATERPILLAR	D-343-C
AS 04-126	VS 1-8	DETROIT DIESEL	71 SERIES
AS 04-133	CT-3000	CUMMINS	V-504
AS 04-134	CT 5/6000	MACK	ENDT-866
AS 04-136A	HT 70, 4460, 700 Ser.	CAT	1693

DRAWING NO.	ALLISON PRODUCT	ENGINE	MODEL
AS 04-137A	700 SERIES	DETROIT DIESEL	71 SERIES
AS 04-139A	HT 70, 4460, 700 SERIES	VOLVO	TD, THD100 & TD, THD120
AS 04-148	700 SERIES	SCANIA	DS 14
AS 04-155B	HT 700D (SAE #1 HOUSING)	CUMMINS (SAE #1 HOUSING)	N&H IN-LINE (855 CU.IN.) (SAE #2 RING GEAR) (PAC CAR ONLY)
AS 04-158A	HT-70, 4460, 700 SERIES	FIAT	8210, 02
AS 04-160E	700 SERIES	DETROIT DIESEL	92 SERIES
AS 04-161A	DP-8961	CUMMINS	KT 2300
AS 04-162D	V-730	DETROIT DIESEL	71 SERIES
AS 04-163A	HT 70, 4460, 700 SERIES	CUMMINS	"K" SERIES
AS 04-164A	5/6000 SERIES	CUMMINS	"K" SERIES
AS 04-165A	CRT-5000	DETROIT DIESEL	92 SERIES
AS 04-168A	MT 654CR	DETROIT DIESEL	71 SERIES (SAE #1)
AS 04-172	MT 654CR	DETROIT DIESEL	92 SERIES (SAE#1 FLY HSG.
AS 04-173	MT 654CR	DETROIT DIESEL	92 SERIES (SAE #2 FLY HSG
AS 04-176A	MT 654CR	DETROIT DIESEL	71 SERIES (SAE #2)
AS 04-180A	V-730	DETROIT DIESEL	6V71
AS 04-181	HT 700/5000	CATERPILLAR	3406/3408
AS 04-185A	CLBT 5/6000	DETROIT DIESEL	92 SERIES
AS 04-186	HT 700	UNIVERSAL FLYWHEEL ADAPTATION REQ.	
AS 04-196A	5/6000 SERIES	CATERPILLAR	3406/3408
AS 04-198	TC 800/900	CATERPILLAR	3408/3412



ITEM	UNIVERSAL STARTER GEAR		BENDIX STARTER GEAR	
	LOCKUP CLUTCH	NO LOCKUP CLUTCH	LOCKUP CLUTCH	NO LOCKUP CLUTCH
A	6772491	6772956	6776526	
B	6772485	6772954	6772485	6772954
C	5184773	5184773	5166664	5166664
D	6773176	NONE	6773176	NONE
E	456876	NONE	456876	NONE

AS04-002

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE DWG. AS00-001

BASIC INSTALLATION DWG.
4460 = AS44-001 OR AS44-005
HT-70 = AS40-001

* DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY.

CHANGES			
J			
H			
G			
F			
E			
D			
C			
B			
A			

DRAWN	CHECKED	CHIEF DRAFTSMAN
SWEANY 6-20-61	R.L.H. 5-7-63	R.T.S. 5-7-63
SCALE FULL	PROJ. ENGR. ST. VOHN 6-21-61	APPL. ENGR. ROBINSON 5-2-63

GM GENERAL MOTORS

Allison TORQMATIC Drives

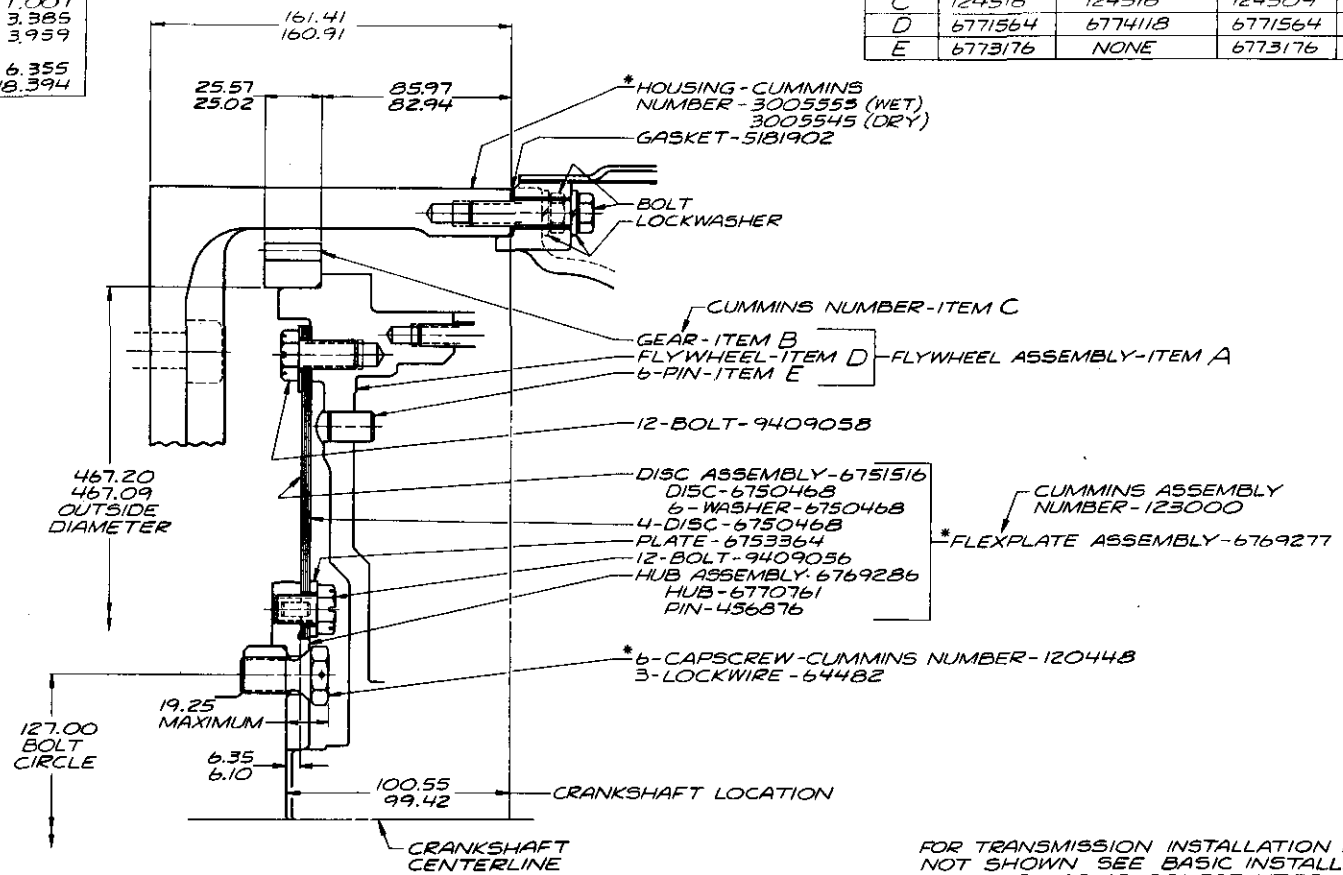
TITLE: DETROIT DIESEL "4-71, 6-71 6V-71 & 8V-71" PHYSICAL ADAPT.

MODEL HT-70 & 4460 | AS04-002

ALLISON DIVISION · GENERAL MOTORS CORPORATION · INDIANAPOLIS, INDIANA ·

MILLIMETRES TO INCHES			
mm MIN/NOM	mm MAX	in. MIN/NOM	in. MAX
6.10	6.35	.240	.250
	19.25		.758
25.02	25.57	.985	1.007
82.94	85.97	3.265	3.385
99.42	100.55	3.914	3.959
127.00		5.000	
160.91	161.41	6.335	6.355
467.09	467.20	18.389	18.394

ITEM	DYER TYPE STARTER GEAR		BENDIX TYPE STARTER GEAR	
	LOCKUP	NO LOCKUP	LOCKUP	NO LOCKUP
A	6771565	6777536	6773781	6774193
B	6751948	6751948	6752502	6752502
C	124516	124516	124509	124509
D	6771564	6774118	6771564	6774118
E	6773176	NONE	6773176	NONE



AS04-003

FOR TRANSMISSION INSTALLATION DATA NOT SHOWN SEE BASIC INSTALLATION DRAWING — AS 40-001 FOR HT 70
AS 44-001 AND AS 44-005 FOR 4460
AS 45-030 FOR 700 SERIES

THIS DRAWING ILLUSTRATES DESIGN STATUS ONLY AVAILABILITY OF PARTS MUST BE OBTAINED FROM DETROIT DIESEL ALLISON SALES AND THE ENGINE MANUFACTURER

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE DRAWING — AS 00-001

* DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY

METRIC
ALL DIMENSIONS ARE IN MILLIMETRES, UNLESS OTHERWISE SPECIFIED

THIRD ANGLE PROJECTION

CHANGES			
B	9-10-98	REDRAWN TO METRIC NO LOCKUP ADDED TO CHART	JWC

DRAWN	CHECKED	CHF DRAFTSMAN
SHEAHY 1-26-62	HIGGINS 4-20-62	RTS 4-23-62
SCALE FULL	PROJ ENGR ST JOHN 4-19-62	APPL ENGR BONHAM 4-19-62

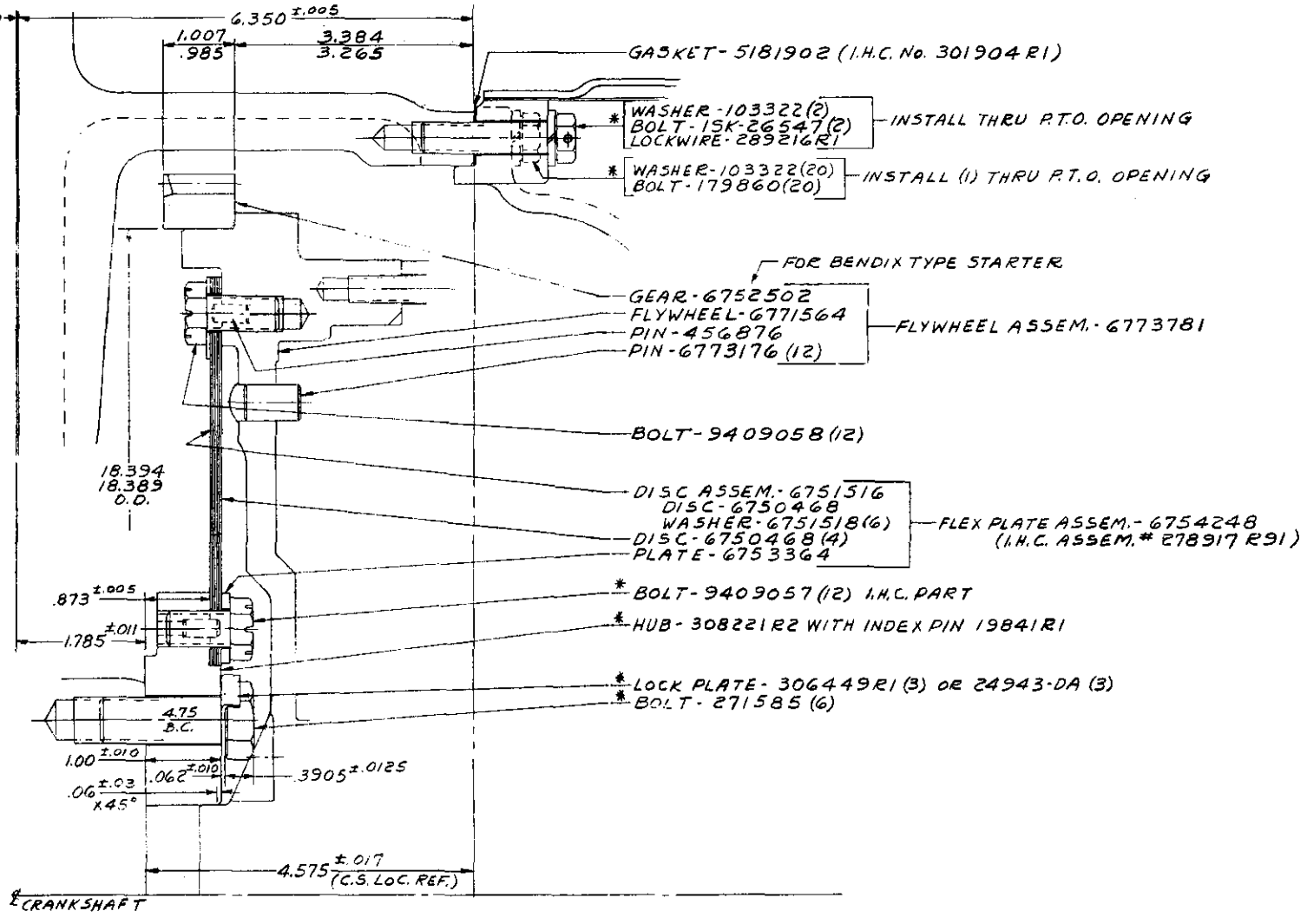
Allison Transmissions

TITLE: CUMMINS N IN LINE PHYSICAL ADAPTATION

MODEL HT 70, 4460, AND 700 SERIES | AS04-003

Detroit Diesel Allison Division of General Motors - Indianapolis, Indiana

FORM 8207 S



AS 04-004

BASIC INSTALLATION DWG. AS 44-001, AS 44-005 OR AS 40-001

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE DWG. AS 00-001

* DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY.

CHANGES	DRAWN	CHECKED	ENG. RELEASE
J	SWEANY 4-2-62	B HIGGINS 6-26-62	K.T.S 6-26-62
H			
G			
F			
E			
D			
C			
B			
A			

CHG ✓ | SCALE FULL | PROJ. ENGR. ST JOHN 5-29-62 | APPL. ENGR. P.B.B. 5-29-62

GM GENERAL MOTORS

Allison TORQMATIC Drives

TITLE: INTERNATIONAL HARVESTER "D-817" PHYSICAL ADAPT.

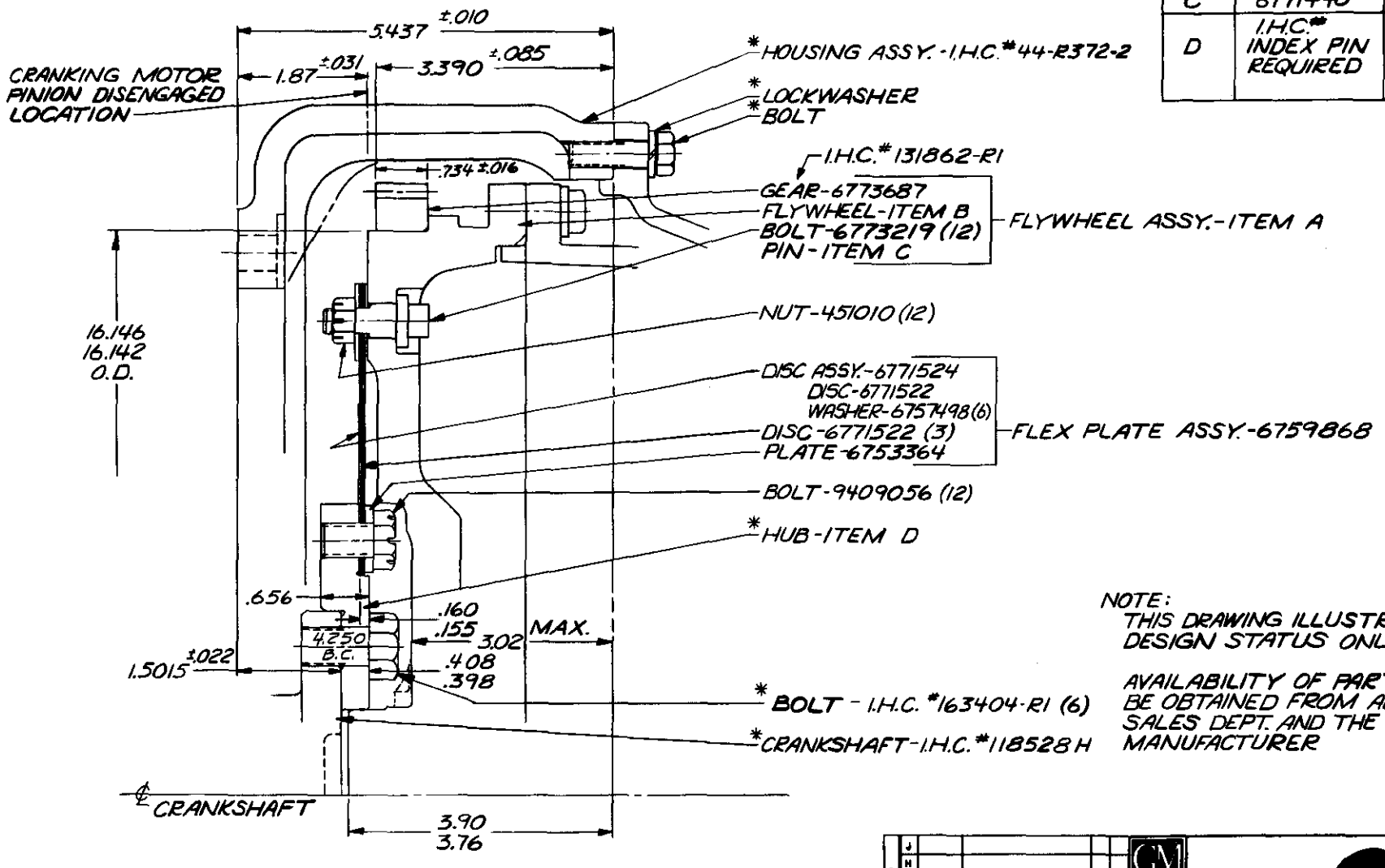
MODEL 4460 & HT-70 | AS 04-004

ALLISON DIVISION - GENERAL MOTORS CORPORATION - INDIANAPOLIS, INDIANA

REF. I.H.C. # 1SK-26521 AS 04-030 24-115

LPR-178

ITEM	LOCK-UP CLUTCH	NO LOCK-UP CLUTCH
A	6776725	6773688
B	6776720	6773682
C	6771440	NONE
D	I.H.C.* INDEX PIN REQUIRED	I.H.C.# 44-R372-3 OR 968-344-R1



AS04-006

NOTE:
THIS DRAWING ILLUSTRATES DESIGN STATUS ONLY

AVAILABILITY OF PARTS MUST BE OBTAINED FROM ALLISON SALES DEPT. AND THE ENGINE MANUFACTURER

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE AS00-001

BASIC INSTALLATION DRAWING: AS34-004

* DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY

REF.-I.H.C.*44-R372-1 AND LETTER OF 2-23-62

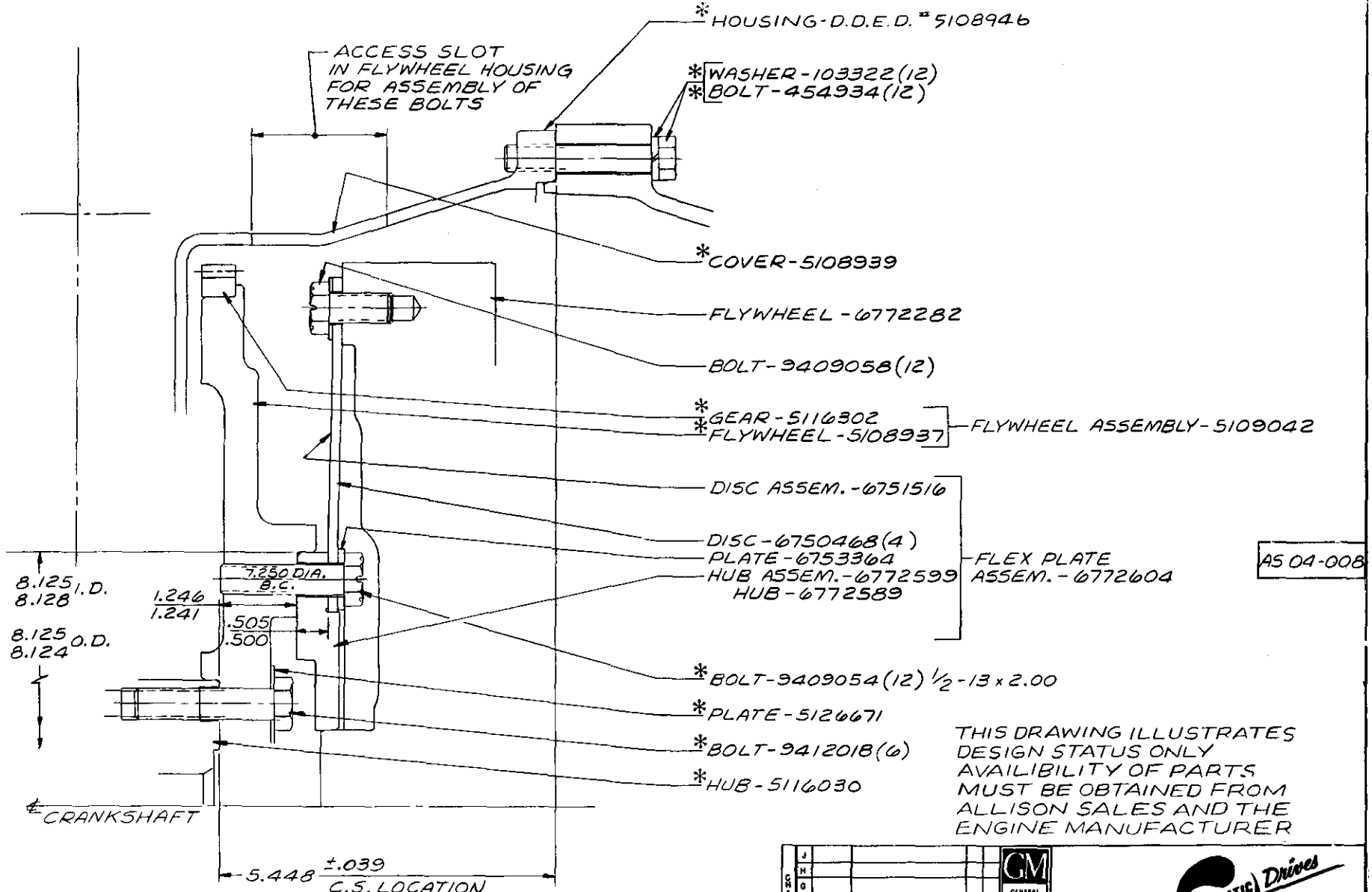
DRAWN SWEANY 10-27-60	CHECKED B. HIGGINS 11-9-60	GRP. ENGR. R.T.S. 11-9-60
SCALE FULL	PROJ. ENGR. D.H. St JOHN 11-1-60	APPL. ENGR. P.B. BONHAM 11-1-60

GM GENERAL MOTORS — Allison TORQMATIC Drives

TITLE: INTERNATIONAL HARVESTER RD-406 U,UE AND RD-372 450,501 PHYSICAL ADAPT.

MODEL 3441-3341 AS04-006

ALLISON DIVISION-GENERAL MOTORS CORPORATION-INDIANAPOLIS, INDIANA



FOR CONVERTER DRIVE DATA NOT SHOWN SEE DRAWING AS 00-001

*DENOTES PARTS NOT SUPPLIED WITH CONVERTER ASSEMBLY

BASIC INSTALLATION DRAWING AS 51-003

THIS DRAWING ILLUSTRATES DESIGN STATUS ONLY AVAILIBILITY OF PARTS MUST BE OBTAINED FROM ALLISON SALES AND THE ENGINE MANUFACTURER

REF. AS 04-007 & DDED # L-11-490D

CHANGES			
J			
H			
G			
F			
E			
D			
C	7-16-62	REV. TO DATE	
B	10-19-61	REV. TO DDED # L-11-490	
A	12-28-60	WAS 5.855 ± .039 DIM	

DR. MAN.	CHECKED	CHF. DRAFTSMAN
SWEANY	G.E. HIGGINS	RT'S B
11-9-60	10-30-61	10-31-61
SCALE	PROJ. ENGR.	APPL. ENGR.
FULL	D. ST. JOHN	P.B. BOHMAN
	10-24-61	10-24-61

GM GENERAL MOTORS

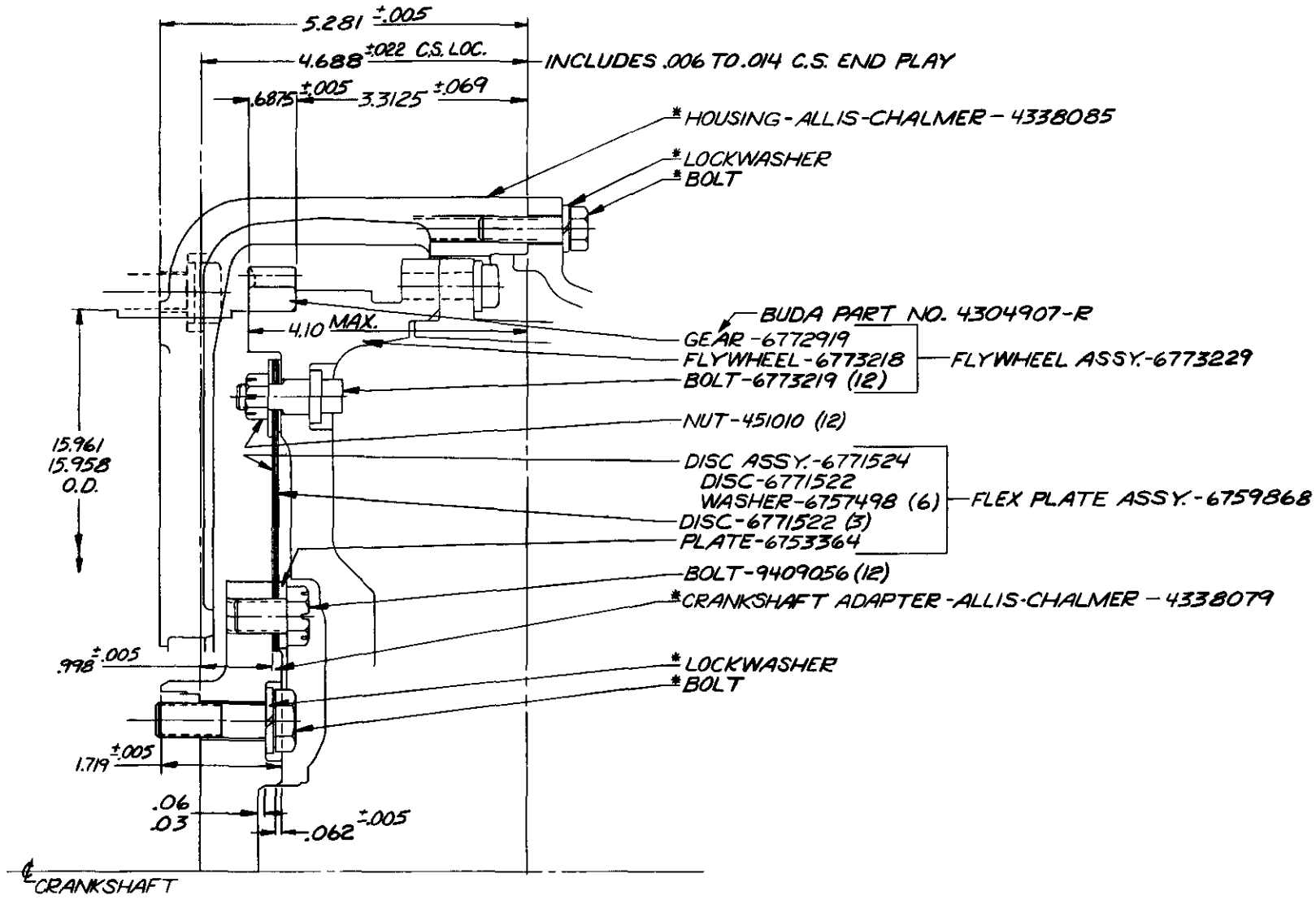
Allison TORQMATIC Drives

TITLE: PHYSICAL ADAPTATION TO D.D.E.D. 6V-53

MODEL TC-400 AS 04-008

ALLISON DIVISION · GENERAL MOTORS CORPORATION · INDIANAPOLIS, INDIANA

FORM 1068-C REV 8-59



NOTE:
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AVAILABILITY OF PARTS MUST BE OBTAINED FROM ALLISON SALES DEPT. AND THE ENGINE MANUFACTURER

BASIC INSTALLATION DRAWING AS 34-002

*DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE DRAWING AS 00-001

DRAWN SWEANY 9-28-61	DESIGNED R.L. 10-25-61	CHK. DESIGN R.T.S. 10-25-61	
SCALE FULL	PROJ. ENGR. ST. JOHN 9-28-61	APPL. ENGR. MUELLER 9-28-61	

A 10-2-67 REVISED AND REDRAWN

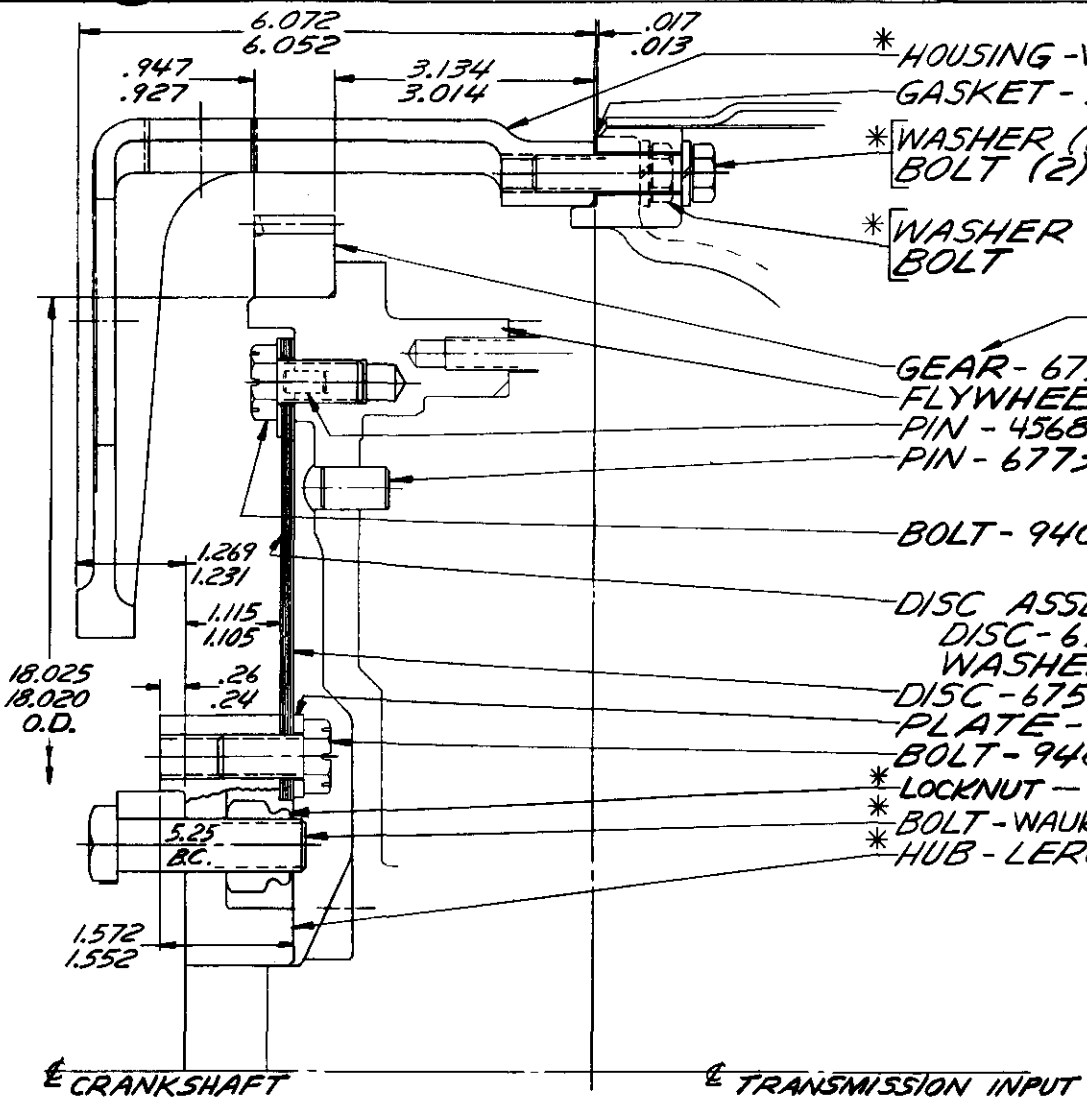
TITLE: ALLIS CHALMERS 3500 AND 7000 PHYSICAL ADAPT.

MODEL 3341-3441 AS04-009

ALLISON DIVISION · GENERAL MOTORS CORPORATION · INDIANAPOLIS, INDIANA

REF: XAS04-009 (REF: FLYWHEEL 'BUDA' DWG. #4349766-Y)

24-108



* HOUSING - WAUKESHA NO. 37-253-6
GASKET - 5181902
* WASHER (2)
* BOLT (2) — INSTALL THRU PTO OPENING
* WASHER
* BOLT — INSTALL (1) THRU PTO OPENING
LEROI NO. 26-270 (CHG E)
GEAR - 6757504
FLYWHEEL - 6774518
PIN - 456876
PIN - 6773176 (12) — FLYWHEEL ASSEM-6774519
BOLT - 9409058 (12)
DISC ASSEM. - 6751516
DISC - 6750468
WASHER - 6751518 (6)
DISC - 6750468 (4)
PLATE - 6753364
BOLT - 9409058 (12)
* LOCKNUT — WAUKESHA NO. 53-285 (6)
* BOLT - WAUKESHA NO. 34-424 (6)
* HUB - LEROI NO. 132-130 (CHG D)

AS04-010

THIS DRAWING ILLUSTRATES DESIGN STATUS ONLY. AVAILABILITY OF PARTS MUST BE OBTAINED FROM ALLISON SALES DEPT. AND THE ENGINE MANUFACTURER

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE AS00-001

BASIC INSTALLATION DWG.:
4460 = AS 44-001 OR AS 44-005
HT-70 - AS 40-001

* DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY

REF LEROI NO. H-844-16E SHEET NO. 1 (CHG A), CS 793-48

CHANGES			
J			
H			
G			
F			
E			
D			
C			
B			
A			

DRAWN	CHECKED	CHF. DRAFTSMAN
SWEANY 6-21-61	HIGGINS 4-3-63	R.T.S. 4-4-63
SCALE FULL	PROJ. ENGR. ST. JOHN 10-1-63	APPL. ENGR. WELCHER 10-1-63

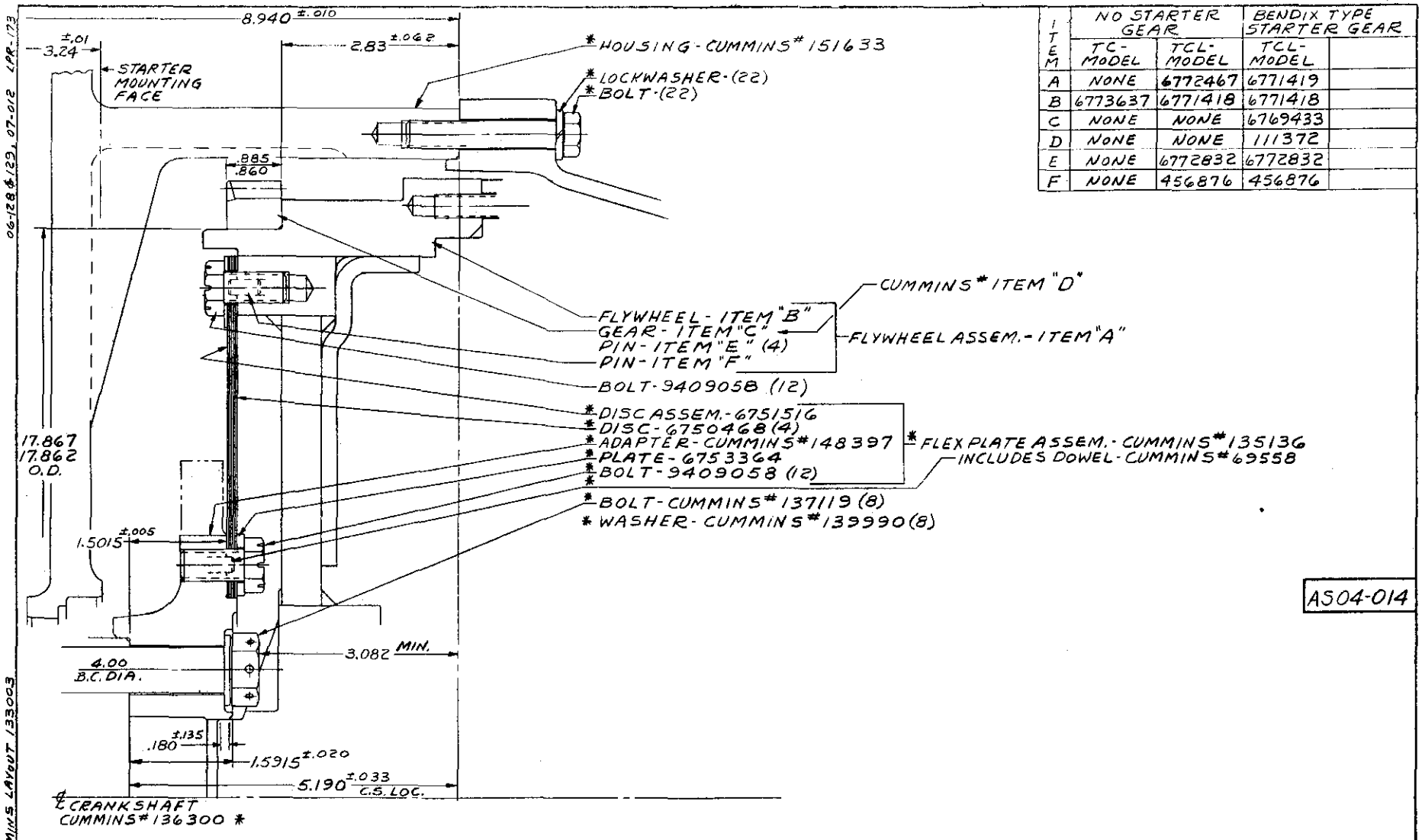
GM GENERAL MOTORS

Allison TORQMATIC Drives

TITLE: WAUKESHA MOD TH-844 AND TH-884 PHYSICAL ADAPTATION

MODEL HT-70 AND 4460 | AS04-010

ALLISON DIVISION - GENERAL MOTORS CORPORATION - INDIANAPOLIS, INDIANA



ITEM	NO STARTER GEAR		BENDIX TYPE STARTER GEAR	
	TC-MODEL	TCL-MODEL	TCL-MODEL	
A	NONE	6772467	6771419	
B	6773637	6771418	6771418	
C	NONE	NONE	6769433	
D	NONE	NONE	111372	
E	NONE	6772832	6772832	
F	NONE	456876	456876	

AS04-014

BASIC INSTALLATION DWG. AS51-003

FOR CONVERTER DRIVE DATA NOT SHOWN SEE DWG. AS00-001

* DENOTES PARTS NOT SUPPLIED WITH TORQUE CONVERTER ASSEMBLY.

CHANGES			
J			
H			
G			
F			
E			
D			
C			
B			
A			

DRAWN	CHECKED	ENGR. APPROVAL
SWEANY 11-12-62	HARPER 2-3-65	Gelner 2-3-65
SCALE FULL	PROJ. ENGR. ROBINSON 10-30-64	APPL. ENGR. WELCHER 10-30-64

CHG ✓

GM GENERAL MOTORS

Allison TORQMATIC Drives

TITLE: " V8-350 & CUMMINS VT8-430 " PHYSICAL ADAPT.

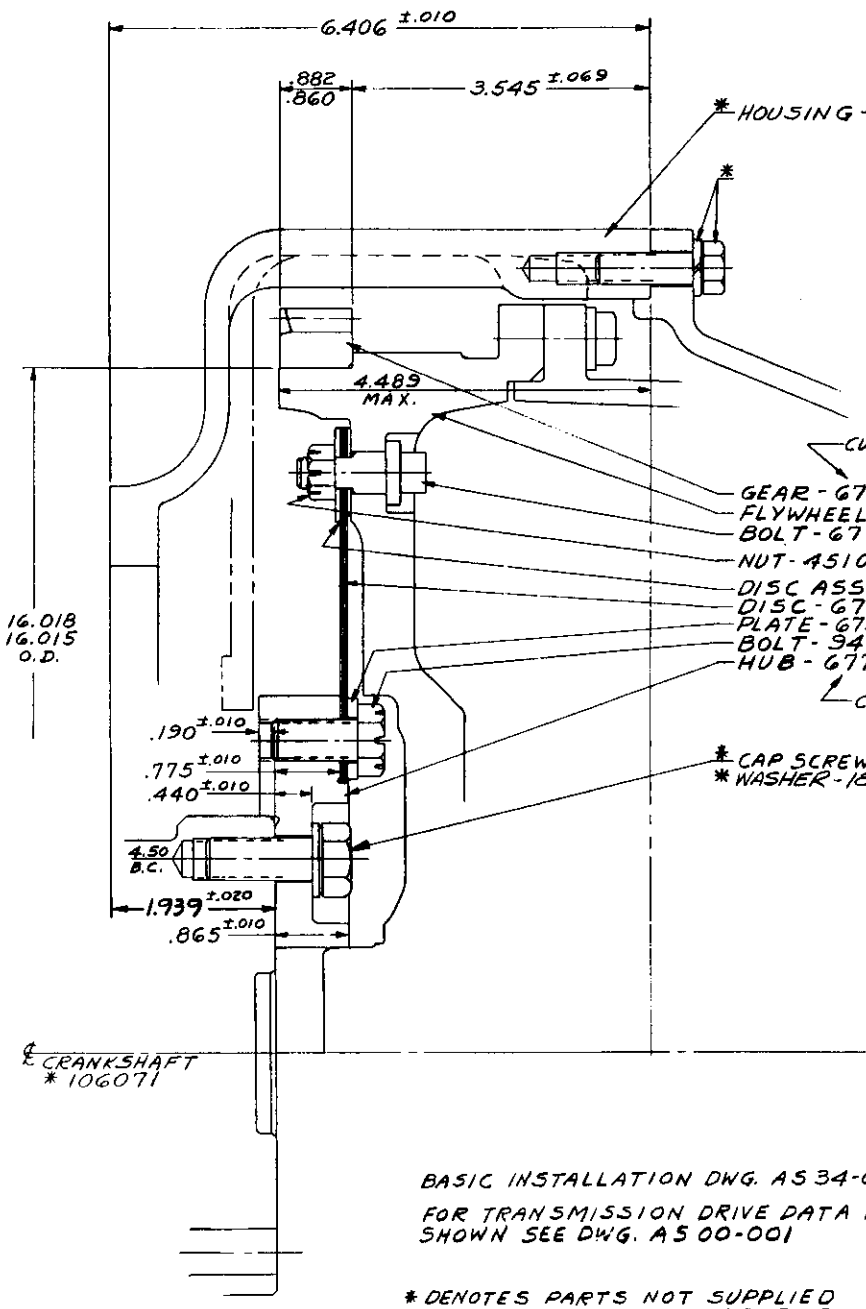
MODEL 500 SERIES CONVERTER AS04-014

ALLISON DIVISION · GENERAL MOTORS CORPORATION · INDIANAPOLIS, INDIANA

REF. CS 793-/22 & CUMMINS LAYOUT 133003

06-128 & 129, 07-012 LPR-173

ITEM	MODEL CT	MODEL CLT
A	6773223	6832604
B	6773213	6832605



CUMMINS No. 4797 (BENDIX TYPE) REF. CUMMINS No. 4853 (DYER TYPE)

GEAR - 6771283
FLYWHEEL - ITEM B
BOLT - 6773219 (12)
→ FLYWHEEL ASSEM. ITEM A

NUT - 451010 (12)
DISC ASSEM. - 6771524
DISC - 6771522 (3)
PLATE - 6753364
BOLT - 9409058 (12)
→ FLEX PLATE ASSEM. - 6771477 (CUMMINS ASSEM. - 135938)

HUB - 6771451
CUMMINS HUB NO. 134315

AS 04-015

* CAP SCREW NO. 180176 (6)
* WASHER - 182086 (6)
→ *ADAPTER ASSY CUMMINS NO. BM 66844

THIS DRAWING ILLUSTRATES DESIGN STATUS ONLY. AVAILABILITY OF PARTS MUST BE OBTAINED FROM ALLISON SALES AND THE ENGINE MANUFACTURER

BASIC INSTALLATION DWG. AS 34-004

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE DWG. AS 00-001

* DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY.

SHEETS				
L				
N				
G				
F				
E				
D				
C				
B	9-24-69	SEE REV. NOTICE	KS	HH
A	10-6-66	SEE REV. NOTICE	KS	RH

DRAWN	DESIGNED	CHK'D PROJ. ENGR.
SWEANY	HIGGINS	RTS
1-18-62	4-20-62	4-20-62
SCALE	SPEC'L. DRAWN	APPL. ENGR.
FULL	ST. JOHN	BONHAM
	4-20-62	4-20-62

GM GENERAL MOTORS

Allison TORQMATIC Drives

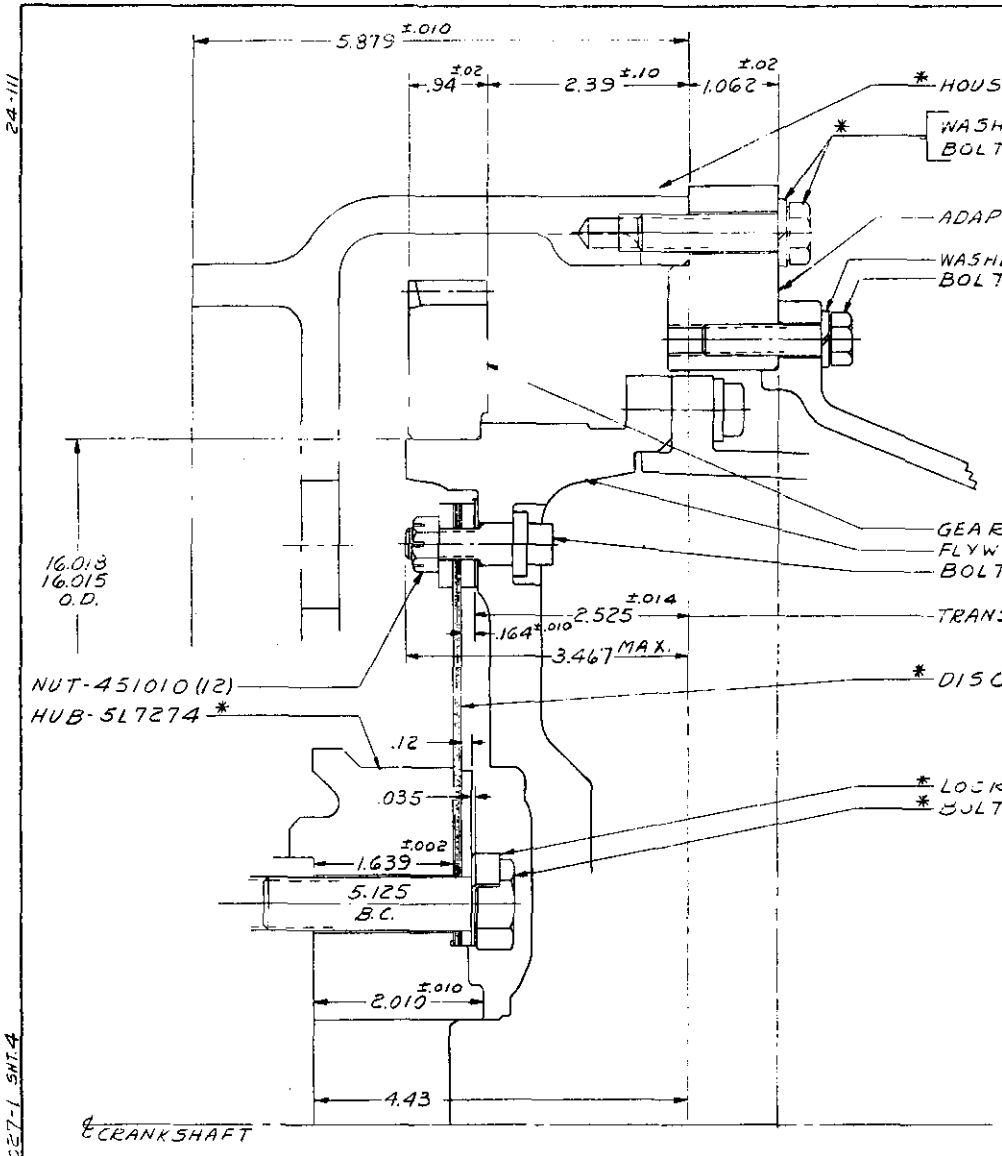
TITLE: CUMMINS "J & C" PHYSICAL ADAPT.

MODEL 3341 AS 04-015

ALLISON DIVISION · GENERAL MOTORS CORPORATION · INDIANAPOLIS, INDIANA

24-085

REF. CUMMINS LAYOUT #132247



AS04-016

THIS DRAWING APPLIES ONLY TO CATERPILLAR D330 ENGINES IN THE FOLLOWING SERIAL NUMBER SERIES:

56B268 AND UP
81B1 AND UP
85B1 AND UP

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE DWG. AS00-001

* DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY.

BASIC INSTALLATION DWG AS34-004

J			
H			
G			
F			
E			
D			
C			
B			
A	1-11-74	ADDED SERIAL NO. NOTE	DAV

DRAWN	CHECKED	ENGR. APPROVAL
SWEANY 1-17-62	HIGGINS 6-13-62	PTS 6-13-62
SCALE FULL	PROJ. ENGR. ST JOHN 5-29-62	APPL. ENGR. EPW 6-12-62

GM GENERAL MOTORS

Allison TORQMATIC Drives

TITLE: CATERPILLAR "D-330" PHYSICAL ADAPT.

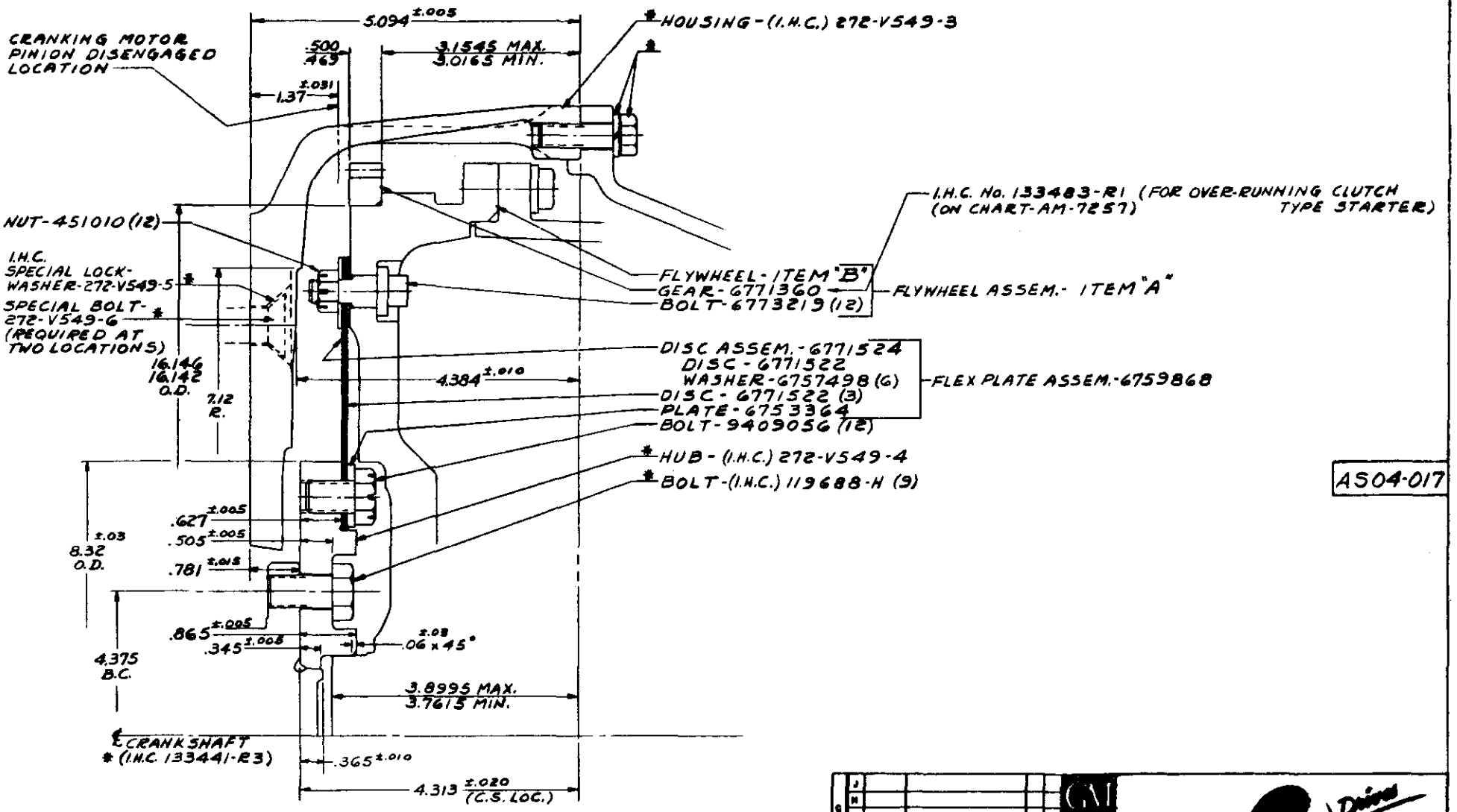
MODEL CT-3341 | AS04-016

ALLISON DIVISION - GENERAL MOTORS CORPORATION - INDIANAPOLIS, INDIANA

REF. CAT. LAYOUT # 2W627-1 SHT 4

24-111

ITEM	CT-MODEL	CLT-MODEL
A	6773224	6776767
B	6773214	6776768



BASIC INSTALLATION DWG. AS 34-004 & AS 34-002

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE CHART DWG. AS 00-001.

* DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY.

	SWEANY	HIGGINS	RTS
	1-26-62	2-26-62	2-27-62
CHG	FULL	ST JOHN	BONHAM
		2-28-62	2-28-62

Allison TORQMATIC Drive

TITLE: INTERNATIONAL HARVESTER UV401, 461 & 549 PHYSICAL ADAPT.

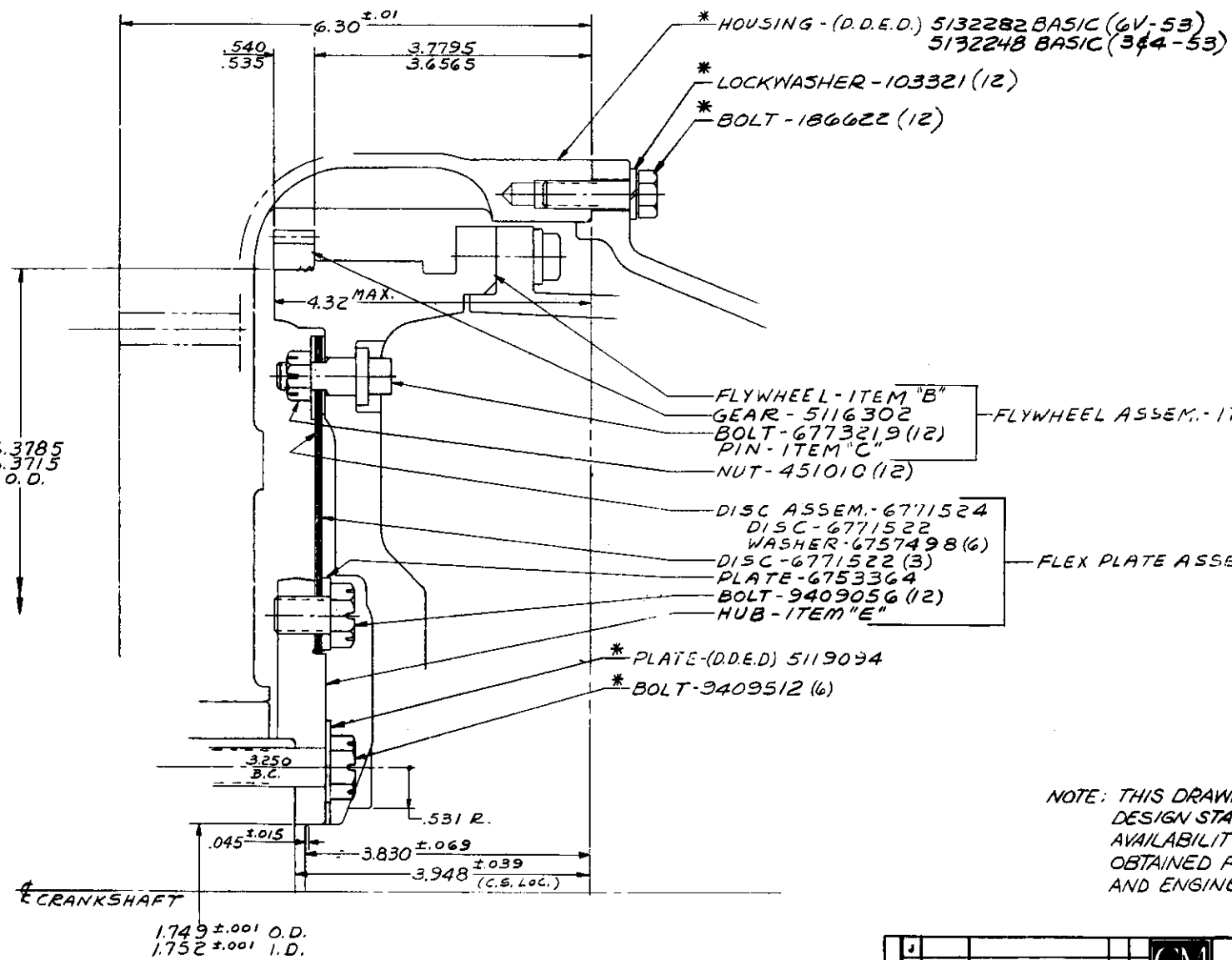
MODEL 3341 & 3441 AS04-017

ALLISON DIVISION • GENERAL MOTORS CORPORATION • INDIANAPOLIS, INDIANA

REF. CS 193-121 & I.H.C. 272-V549-2, LETTER OF 2-23-62

24-023

ITEM	LOCK-UP CLUTCH	NO LOCK-UP CLUTCH
A	6773860	6773228
B	6773851	6773217
C	456876	NONE
D	6773865	6771035
E	6773854 (WITH PIN)	6771034



AS04-018

NOTE: THIS DRAWING ILLUSTRATES DESIGN STATUS ONLY
AVAILABILITY OF PARTS MUST BE OBTAINED FROM ALLISON SALES AND ENGINE MANUFACTURER

BASIC INSTALLATION DWG. AS 34-004 OR AS 34-002

* DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY.

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE AS 00-001

CHANGES			
J			
H			
G			
F			
E			
D			
C			
B	1-21-75	HOUSING - 5132248 WAS 5119256	DR. WEB
A	5-11-66	NOTE ADDED	J.W.C.

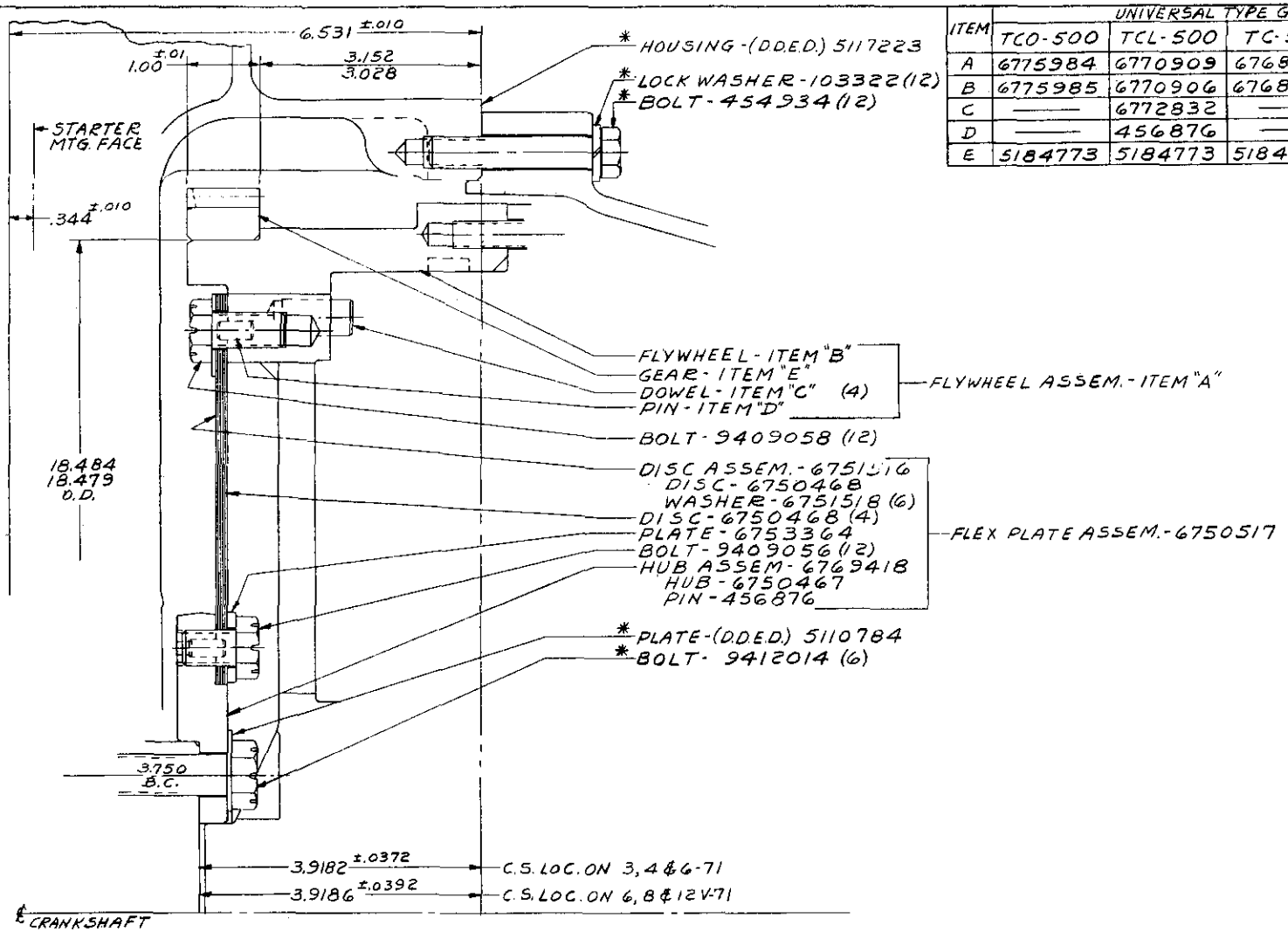
DRAWN	CHECKED	ENG. APPROVAL
SWEANY 1-23-62	WIGGINS 3-17-62	RTS 5-17-62
SCALE FULL	PROJ. ENGR. ST JOHN	APPL. ENGR.

GM GENERAL MOTORS

Allison TORQMATIC Drives

TITLE: "3 & 4-53 & " DETROIT DIESEL "6V-53" PHYSICAL ADAPT.

MODEL 3341 & 3441 | AS04-018



ITEM	UNIVERSAL TYPE GEAR			BENDIX TYPE GEAR	
	TCO-500	TCL-500	TC-500	TCL-500	TC-500
A	6775984	6770909	6768925	6773381	6773577
B	6775985	6770906	6768924	6770906	6768924
C	———	6772832	———	6772832	———
D	———	456876	———	456876	———
E	5184773	5184773	5184773	5166664	5166664

AS04-019

FOR CONVERTER DRIVE DATA NOT SHOWN SEE DWG. AS00-001

BASIC INSTALLATION DWG. AS51-003

* DENOTES PARTS NOT SUPPLIED WITH CONVERTER ASSEMBLY.

CHANGES			
J			
H			
G			
F			
E			
D			
C			
B			
A			

DR. INGR.	CHK'D	CHF. DRAFTSMAN
SWEANY 1-24-62	HIGGINS 3-17-62	PTS 3-17-62
SCALE FULL	PROJ. ENGR. ST JOHN 3-7-62	APPL. ENGR.

CHG ✓ VA 15

GM GENERAL MOTORS

Allison TORQMATIC Drives

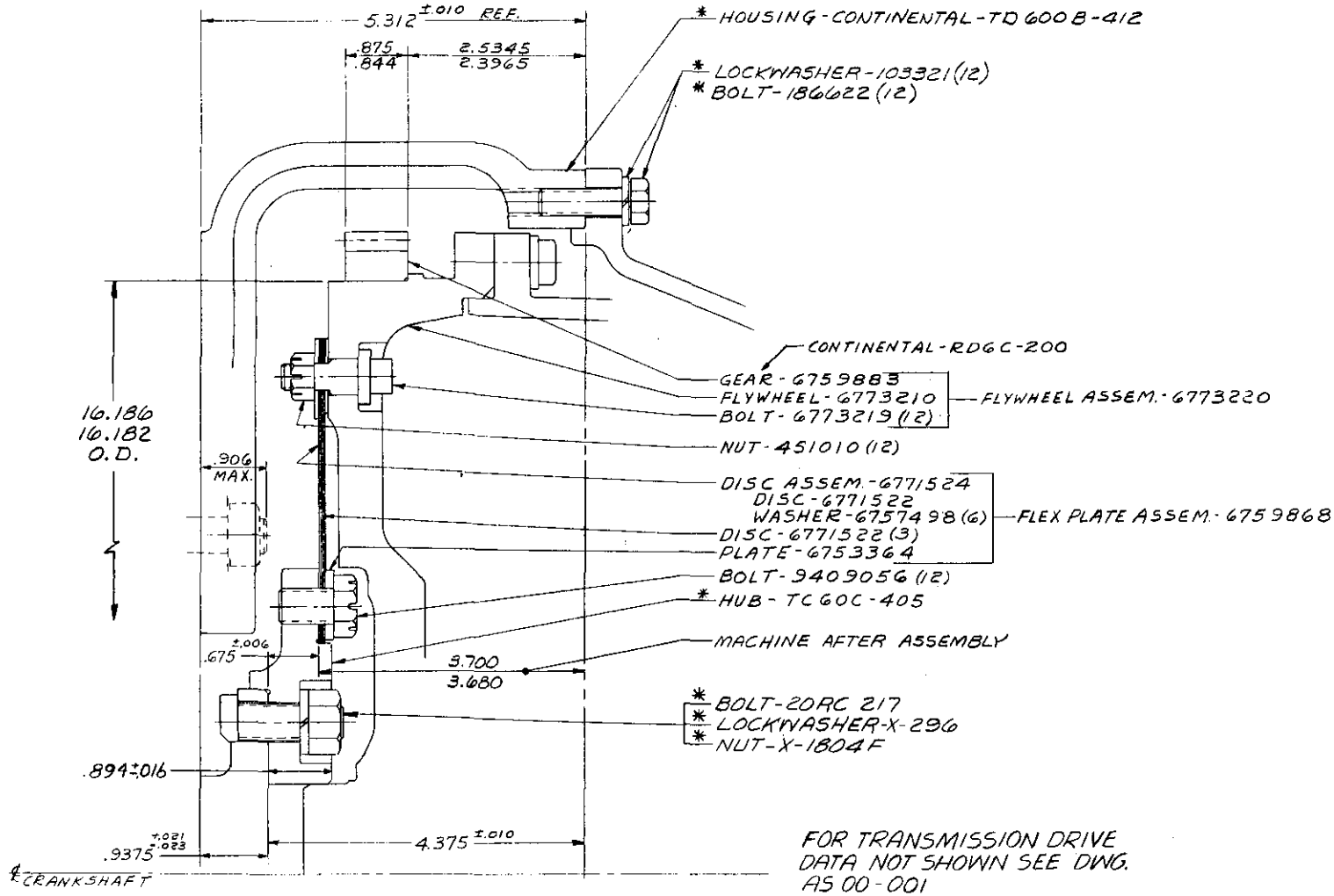
TITLE: "6, 8 & 12V-71" DETROIT DIESEL 3, 4 & 6-71 PHYSICAL ADAPT.

MODEL 500 SERIES CONVERTER | AS04-019

ALLISON DIVISION - GENERAL MOTORS CORPORATION - INDIANAPOLIS, INDIANA

REF. CS 3600-1

06-125, 06-127, 06-065, 04-092, 07-001



AS04-020

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE DWG. AS 00-001

NOTE:
THIS DRAWING ILLUSTRATES DESIGN STATUS ONLY. AVAILABILITY OF PARTS MUST BE OBTAINED FROM ALLISON SALES AND ENGINE MFR.

BASIC INSTALLATION DWG. AS 34-004

* DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY.

CHANGES			
J			
H			
G			
F			
E			
D			
C			
B			
A			

DRAWN	CHECKED	CHF. DRAFTSMAN
SWEANY 1-25-62	9-19-65	4-19-65
SCALE FULL	PROJ. ENGR. ROBINSON 4-19-65	APPL. ENGR.

GM GENERAL MOTORS

Allison TORQMATIC Drives

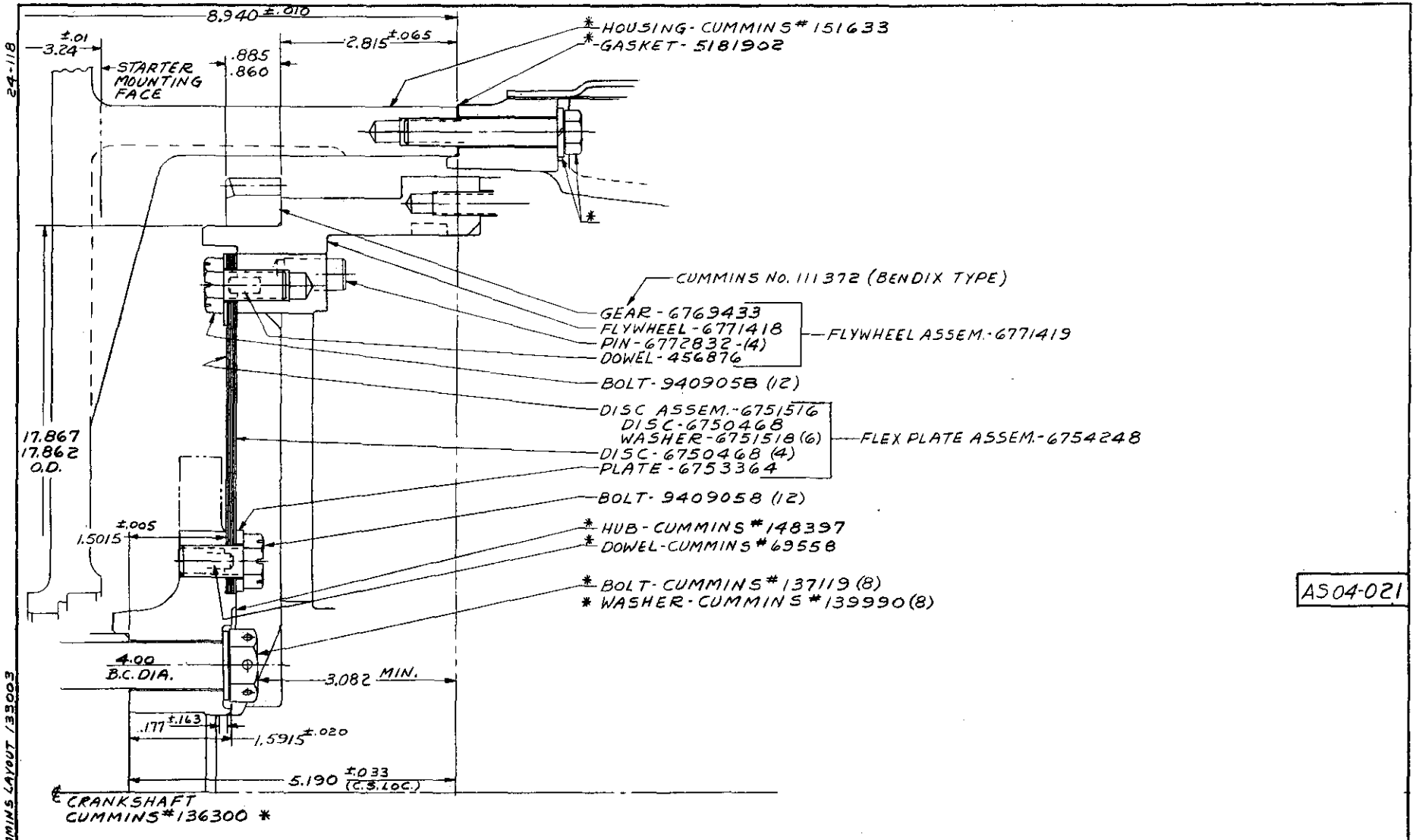
TITLE: CONTINENTAL "T" AND "TD" PHYSICAL ADAPTATION

MODEL CT-3341 AS04-020

ALLISON DIVISION - GENERAL MOTORS CORPORATION - INDIANAPOLIS, INDIANA

REF. CONT. DWG. TC 60C-4070

24-047



AS04-021

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE AS00-001

BASIC INSTALLATION DWG. AS 58-029 & AS 58-031

* DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY.

DRAWN SWEANY 1-26-62	CHECKED HARPER 2-3-65	ENG. APPROVAL Britton 2-3-65	
CHG ✓	SCALE FULL	PROJ. ENGR. ROBINSON 10-30-64	APPL. ENGR. WELCHER 10-30-64

GM GENERAL MOTORS

Allison TORQMATIC Drives

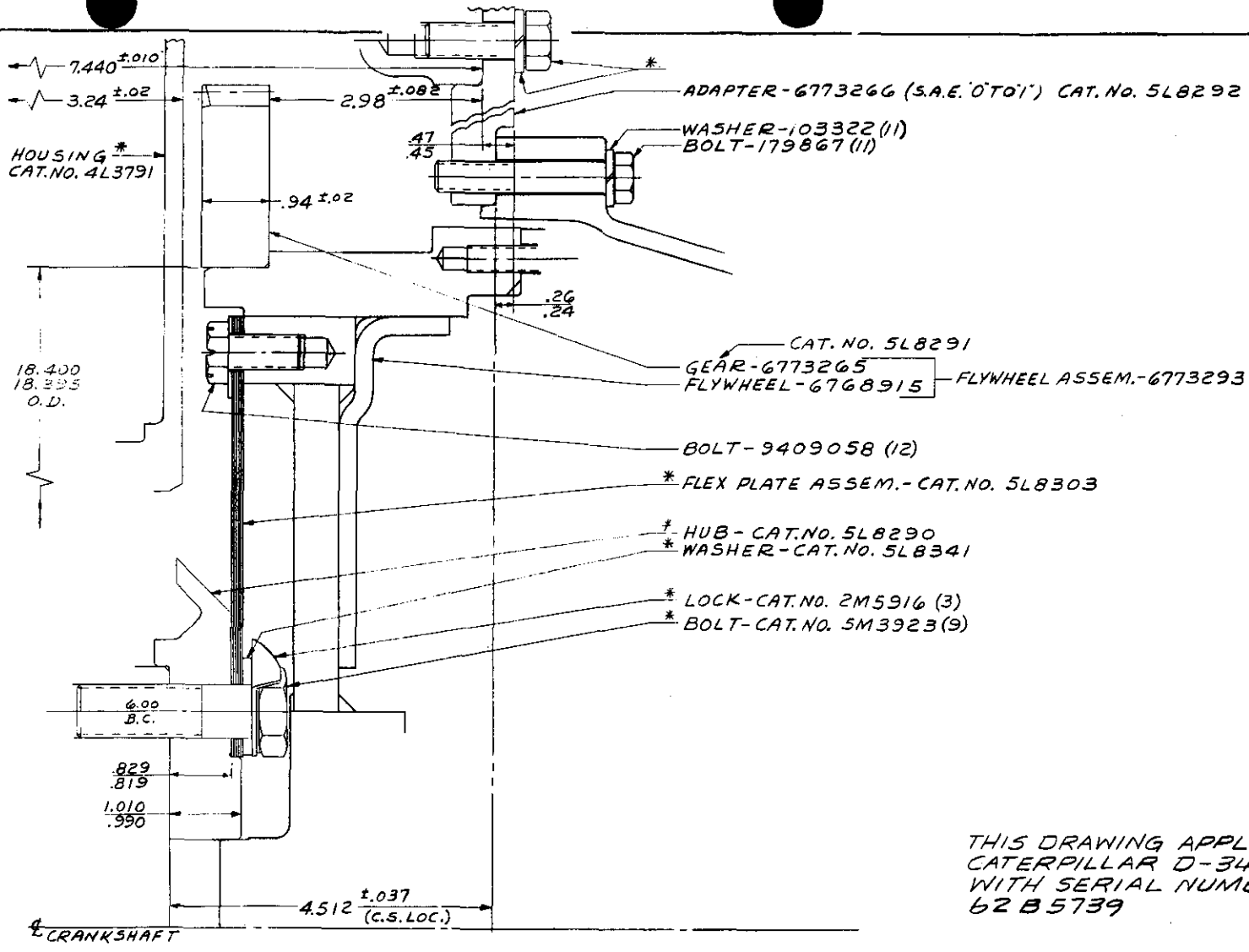
TITLE: "V8-350 & CUMMINS VT8-430" PHYSICAL ADAPT.

MODEL 5000 SERIES TRANSMISSION | AS04-021

ALLISON DIVISION - GENERAL MOTORS CORPORATION - INDIANAPOLIS, INDIANA

REF. AS04-014 & CUMMINS LAYOUT 133003

24-118



A504-022

THIS DRAWING APPLIES ONLY TO CATERPILLAR D-343 ENGINES WITH SERIAL NUMBERS BELOW 62B5739

FOR CONVERTER DRIVE DATA NOT SHOWN SEE DWG. A500-001

BASIC INSTALLATION DWG. A551-003

* DENOTES PARTS NOT SUPPLIED WITH CONVERTER ASSEMBLY.

CHANGES			
J			
H			
G			
F			
E			
D			
C			
B			
A	1-11-74	ADDED SERIAL NO. NOTE	PM

DRAWN	CHECKED	ENGR. APPROVAL	SCALE
SWEANY 1-31-62	HIGGINS 6-11-62	PTS 6-11-62	FULL
	PROJ. ENGR. ST. JOHN 3-29-62	APPL. ENGR.	

CHG ✓ 04 35

GM GENERAL MOTORS — Allison TORQMATIC Drives

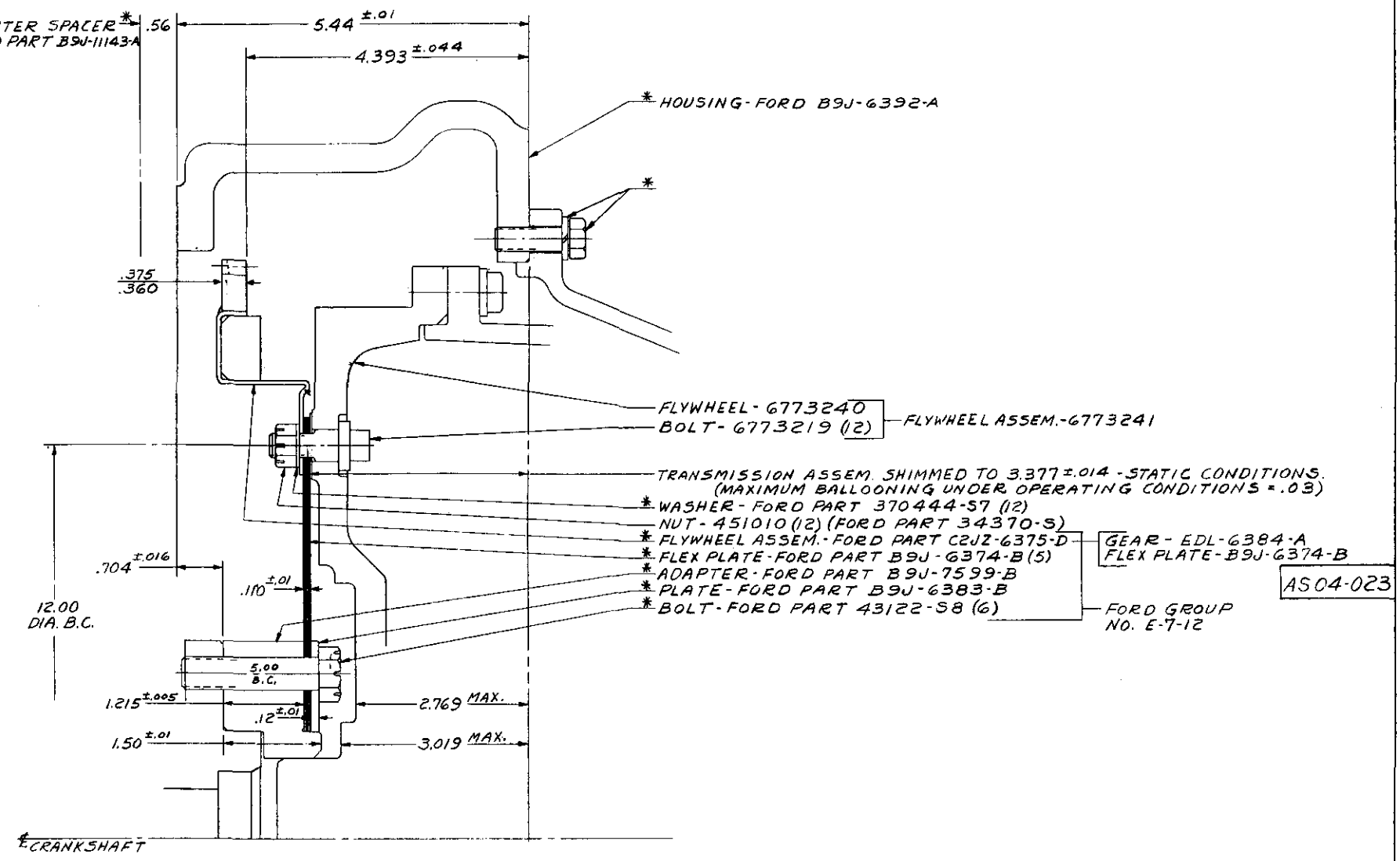
TITLE: CATERPILLAR "D-343" PHYSICAL ADAPT.

MODEL TC-500 — A504-022

ALLISON DIVISION - GENERAL MOTORS CORPORATION - INDIANAPOLIS, INDIANA

LAR 163

REF. CAT. NO. 27026-1



BASIC INSTALLATION DWG. AS 34-004

* DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY

DRAWN SWEANY 2-8-62	CHECKED WIGGINS 3-5-62	ENG. RELEASE P.T.S. 3-5-62
SCALE FULL	PROJ. ENGR. D. ST. JOHN 2-28-62	APPL. ENGR. P. BONNAM 2-28-62

GM GENERAL MOTORS

Allison TORQMATIC Drives

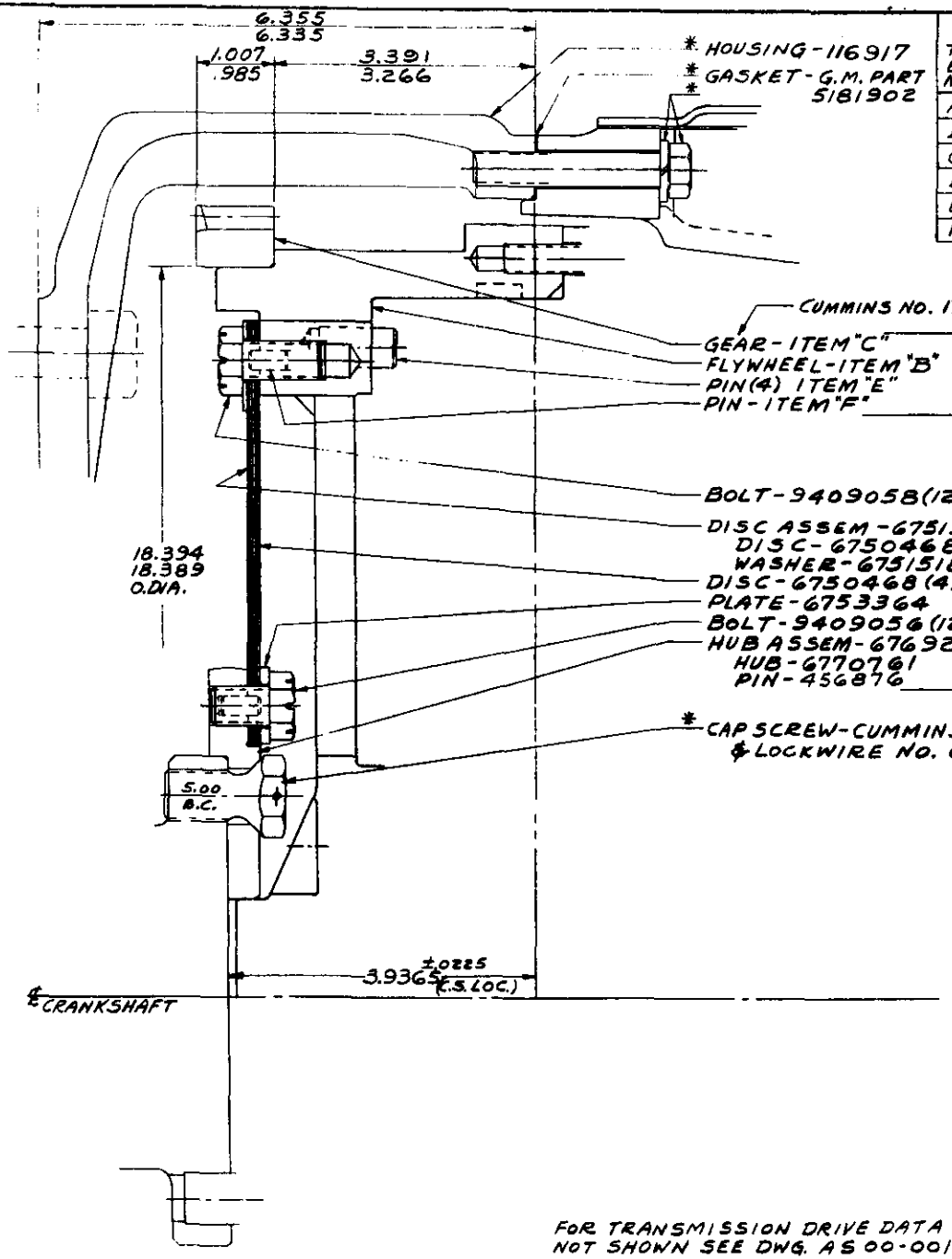
TITLE: FORD "401, 477 & 534" PHYSICAL ADAPT.

MODEL CT-3441 AS04-023

ALLISON DIVISION · GENERAL MOTORS CORPORATION · INDIANAPOLIS, INDIANA

P-V

REF. FORD ENG. ASSEM. DWG. SK-PN-986-C & SK-PQ-6375-A CS-793-119 24-106



ITEM	24-045 NO STARTER GEAR		24-030	24-016 BENDIX TYPE STARTER GEAR	24-035	72-152 DYER TYPE STARTER GEAR	
	NO LOCK-UP CLUTCH	LOCK-UP CLUTCH	LOCK-UP CLUTCH	NO LOCK-UP CLUTCH	LOCK-UP CLUTCH	NO LOCK-UP CLUTCH	LOCK-UP CLUTCH
A	NONE	6770911	6770913	6768926	6770908	6768928	6770910
B	6768918	6770891	6770891	6768918	6770891	6768918	6770891
C	NONE	NONE	NONE	6752502	6752502	6751948	6751948
D	NONE	NONE	NONE	124509	124509	124516	124516
E	NONE	6772832	6772832	NONE	6772832	NONE	6772832
F	NONE	456876	NONE	NONE	456876	NONE	456876

AS04-024

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE DWG. AS 00-001

* DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY.

REF. AS04-003 & AS04-029

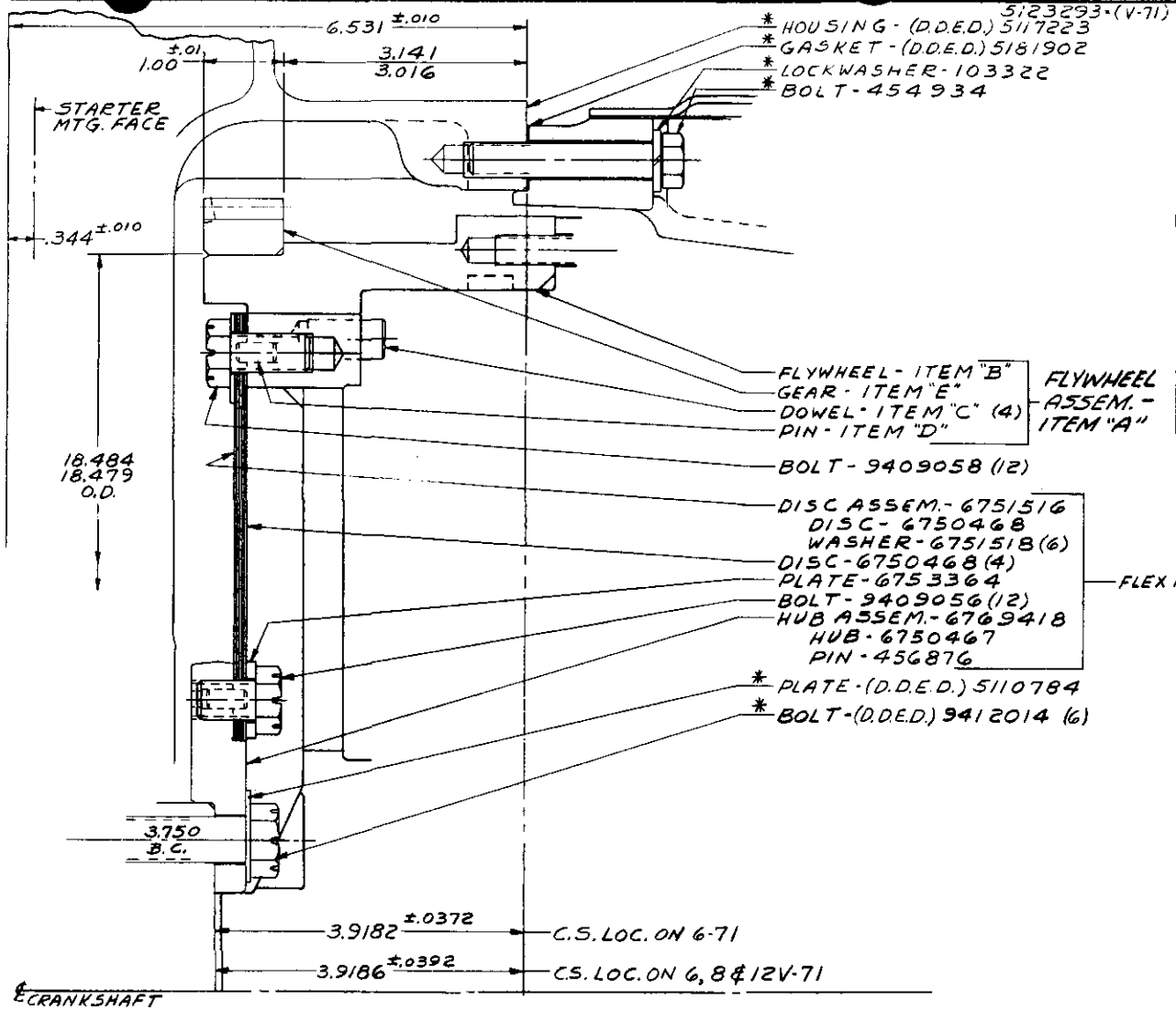
DRAWN SWEANY 2-15-62	DESIGNED HIGGINS 4-30-63	ENG. RELEASE PTS 5-1-63	
SCALE FULL	PROJ. ENGR. ROBINSON 4-30-63	APPL. ENGR. WELCHER 4-30-63	

CHG ✓

TITLE: "H & N" CUMMINS IN LINE PHYSICAL ADAPT.

MODEL 5000 SERIES TRANSMISSION AS04-024

ALLISON DIVISION · GENERAL MOTORS CORPORATION · INDIANAPOLIS, INDIANA



ITEM	UNIVERSAL TYPE GEAR		BENDIX TYPE GEAR	
	LOCK-UP CLUTCH	NO LOCK-UP CLUTCH	LOCK-UP CLUTCH	NO LOCK-UP CLUTCH
A	6770909	6768925	6773381	6773577
B	6770906	6768924	6770906	6768924
C	6772832	NONE	6772832	
D	456876	NONE	456876	
E	5184773	5184773	5166664	5166664
				MODEL CRT 7033
A				6880554
B				6880294
C				
D				
E				5166664

AS04-025

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE DWG. AS00-001

BASIC INSTALLATION DWG. AS58-029 & AS58-031

* DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY.

CHANGES					
J					
H					
G					
F					
E					
D					
C					
B					
A	10-11-73	ADDED CRT7033	COMPM	ML	JM

DRAWN	CHECKED	CHF. DRAFTSMAN
SWEANY 2-12-62	WIGGINS 5-16-63	ETS 5-16-63
SCALE FULL	PROJ. ENGR. ROBINSON 5-8-63	APPL. ENGR. WELCHER 5-8-63

CHG

GM GENERAL MOTORS

Allison TORQMATIC Drives

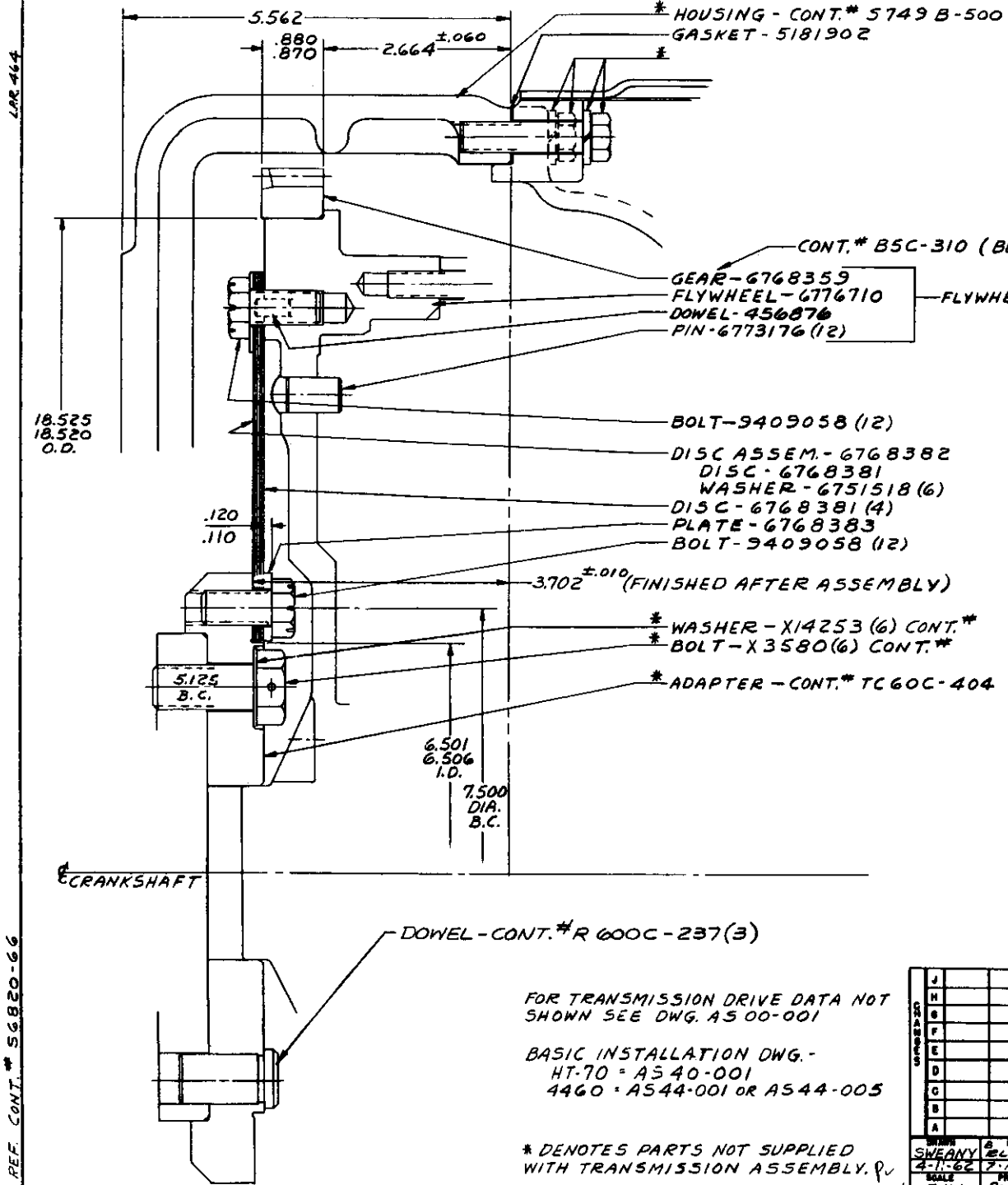
TITLE: "6, 8, 12V-71 & DETROIT DIESEL 6-71" PHYSICAL ADAPT.

MODEL 5000 & 6000 SERIES TRANSMISSION

AS04-025

ALLISON DIVISION · GENERAL MOTORS CORPORATION · INDIANAPOLIS, INDIANA

24-057 & 24-087
REF. AS04-019



AS04-027

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE DWG. AS00-001

BASIC INSTALLATION DWG. -
HT-70 = AS40-001
4460 = AS44-001 OR AS44-005

* DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY.

DRAWN SWEANY 4-1-62	CHECKED ELN 7-14-64	ENG. APPROVAL RTS 7-14-64	GM GENERAL MOTORS
SCALE FULL	PROJ. ENGR. ROBINSON 6-25-64	APPL. ENGR.	Allison TORQMATIC Drives

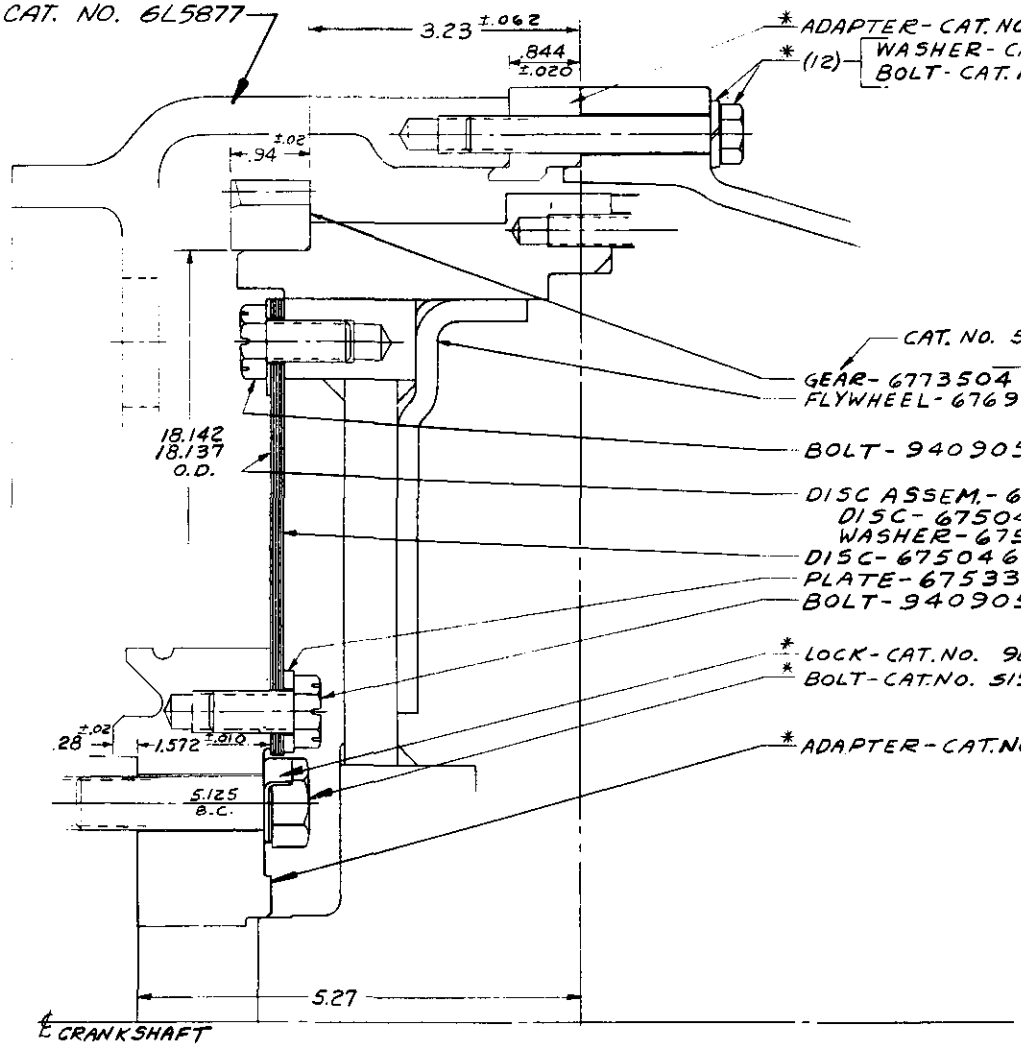
TITLE: CONTINENTAL "R6602" & "5620" PHYSICAL ADAPTATION

MODEL 4460 OR HT-70 | AS04-027

ALLISON DIVISION - GENERAL MOTORS CORPORATION - INDIANAPOLIS, INDIANA

LAR 464

REF. CONT.# 5620-66



AS 04-028

THIS DRAWING APPLIES ONLY TO CATERPILLAR D333 AND 1673 ENGINES IN THE FOLLOWING SERIAL NO. SERIES:

D333	1673
79B1 AND UP	70B1 AND UP
58B312 AND UP	78B1 AND UP
87B1 AND UP	
66D1 TO 66D1929	
23C1 TO 23C321	

NOTE:
THIS DRAWING ILLUSTRATES DESIGN STATUS ONLY. AVAILABILITY OF PARTS MUST BE OBTAINED FROM ALLISON SALES AND ENGINE MANUFACTURER

BASIC INSTALLATION DWG. AS 51-003

FOR CONVERTER DRIVE DATA NOT SHOWN SEE DWG. AS 00-001

* DENOTES PARTS NOT SUPPLIED WITH CONVERTER ASSEMBLY.

LTR	DATE	DESCRIPTION	BY	CK
J				
H				
G				
F				
E				
D				
C				
B	1-11-74	ADDED SERIAL NO. NOTE	DA	
A	10-2-67	SEE REV. NOTICE	W. BG	

DRAWN	CHECKED	ENGR. APPROVAL
SWEANY 3-6-66	HIGGINS 6-12-62	RTS 6-12-62
SCALE FULL	PROJ. ENGR. ST JOHN 5-29-62	APPL. ENGR. EPW 6-12-62

CHG V

GM GENERAL MOTORS — Allison TORQMATIC Drives

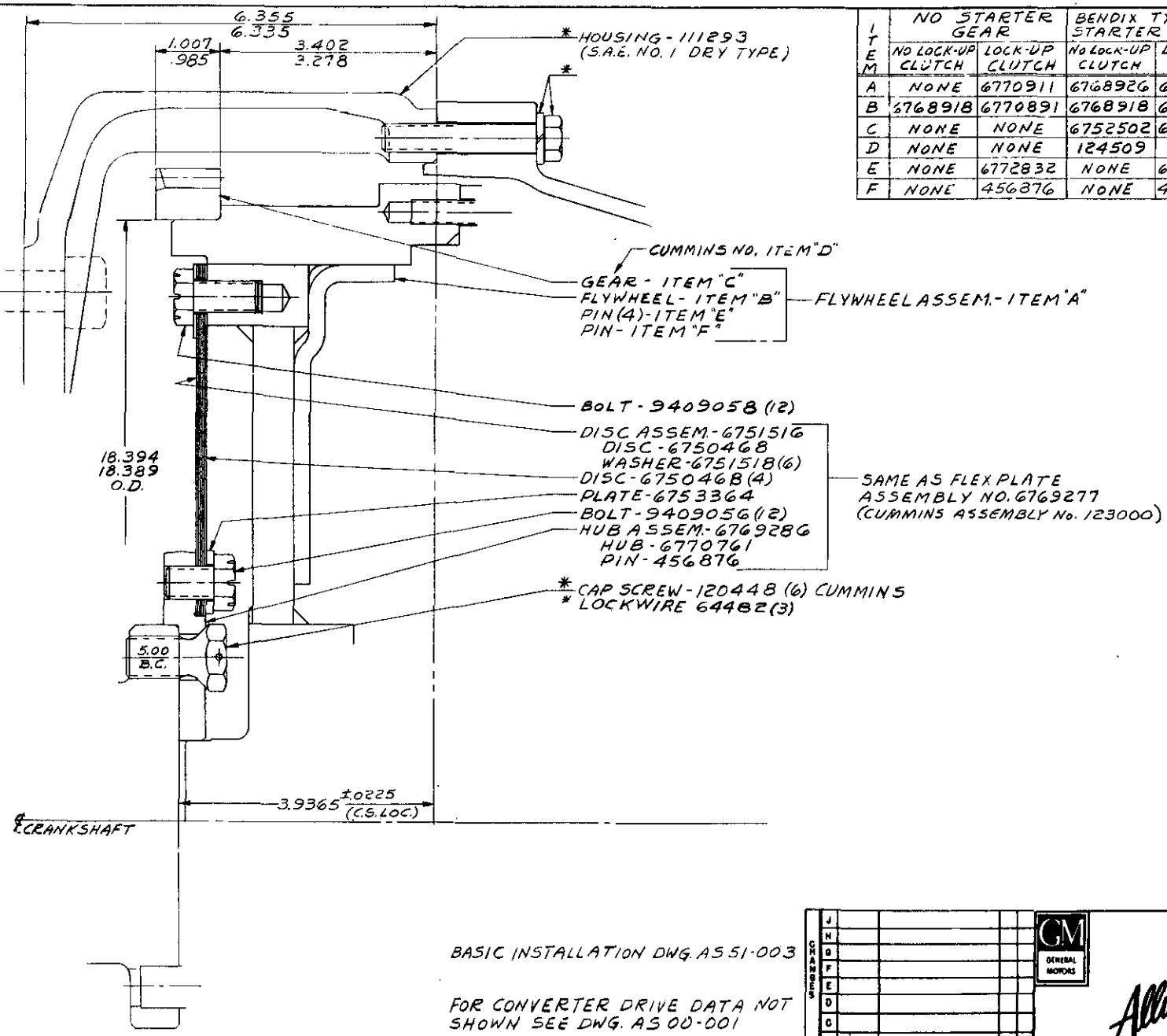
TITLE: CATERPILLAR "1673" & "D-333" PHYSICAL ADAPT.

MODEL TC-500 AS04-028

ALLISON DIVISION - GENERAL MOTORS CORPORATION - INDIANAPOLIS, INDIANA

REF CAT. NO. 15843-1

04-126 & 07-033



ITEM	NO STARTER GEAR		BENDIX TYPE STARTER GEAR		DYER TYPE STARTER GEAR	
	NO LOCK-UP CLUTCH	LOCK-UP CLUTCH	NO LOCK-UP CLUTCH	LOCK-UP CLUTCH	NO LOCK-UP CLUTCH	LOCK-UP CLUTCH
A	NONE	6770911	6768926	6770908	6768928	6770910
B	6768918	6770891	6768918	6770891	6768918	6770891
C	NONE	NONE	6752502	6752502	6751948	6751948
D	NONE	NONE	124509	124509	124516	124516
E	NONE	6772832	NONE	6772832	NONE	6772832
F	NONE	456876	NONE	456876	NONE	456876

AS 04-029

BASIC INSTALLATION DWG. AS 51-003

FOR CONVERTER DRIVE DATA NOT SHOWN SEE DWG. AS 00-001

* DENOTES PARTS NOT SUPPLIED WITH CONVERTER ASSEMBLY.

CHANGES			
J			
H			
G			
F			
E			
D			
C			
B			
A			

DRAWN	CHECKED	ENGR. SUPERVISOR
SWEANY 3-12-62	W. & G. 5-16-62	RTS 5-16-62
SCALE FULL	PROJ. ENGR. D. ST. JOHN 5-10-62	APPL. ENGR.

CHS

GM GENERAL MOTORS

Allison TORQMATIC Drives

TITLE: "H&N CUMMINS IN LINE" PHYSICAL ADAPT.

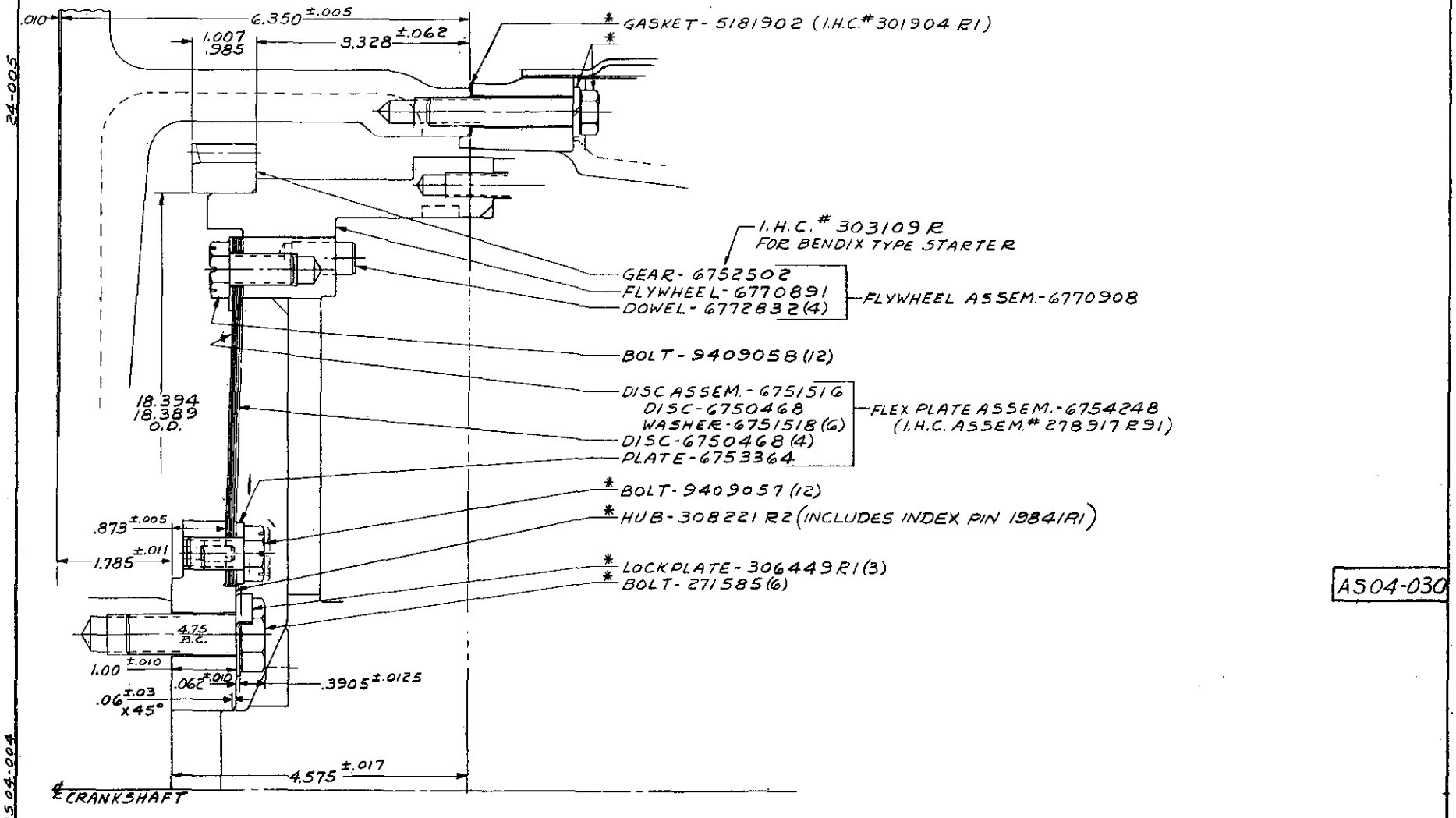
MODEL 500 SERIES CONVERTER

AS 04-029

ALLISON DIVISION · GENERAL MOTORS CORPORATION · INDIANAPOLIS, INDIANA

PER AS04-024 & AS04-003

06-072, 06-095, 06-073, 06-094, 06-071 & 06-093
07-012



AS04-030

NOTE:
THIS DRAWING ILLUSTRATES DESIGN STATUS ONLY. AVAILABILITY OF PARTS MUST BE OBTAINED FROM ALLISON SALES AND THE ENGINE MANUFACTURER

BASIC INSTALLATION DWG. AS 58-029 OR AS 58-031

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE DWG. AS00-001

* DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY

CHANGES			
J			
H			
G			
F			
E			
D			
C			
B			
A	7-20-67	REMOVED 456876M1	BH.

DRAWN	CHECKED	CUST. INSTALL.
SWEANY 5-27-62	B. HIGGINS 6-26-62	BTS 6-26-62
SCALE FULL	PROJ. ENGR. ST JOHN 5-29-62	APPL. ENGR. P.B.B. 5-29-62

GM GENERAL MOTORS

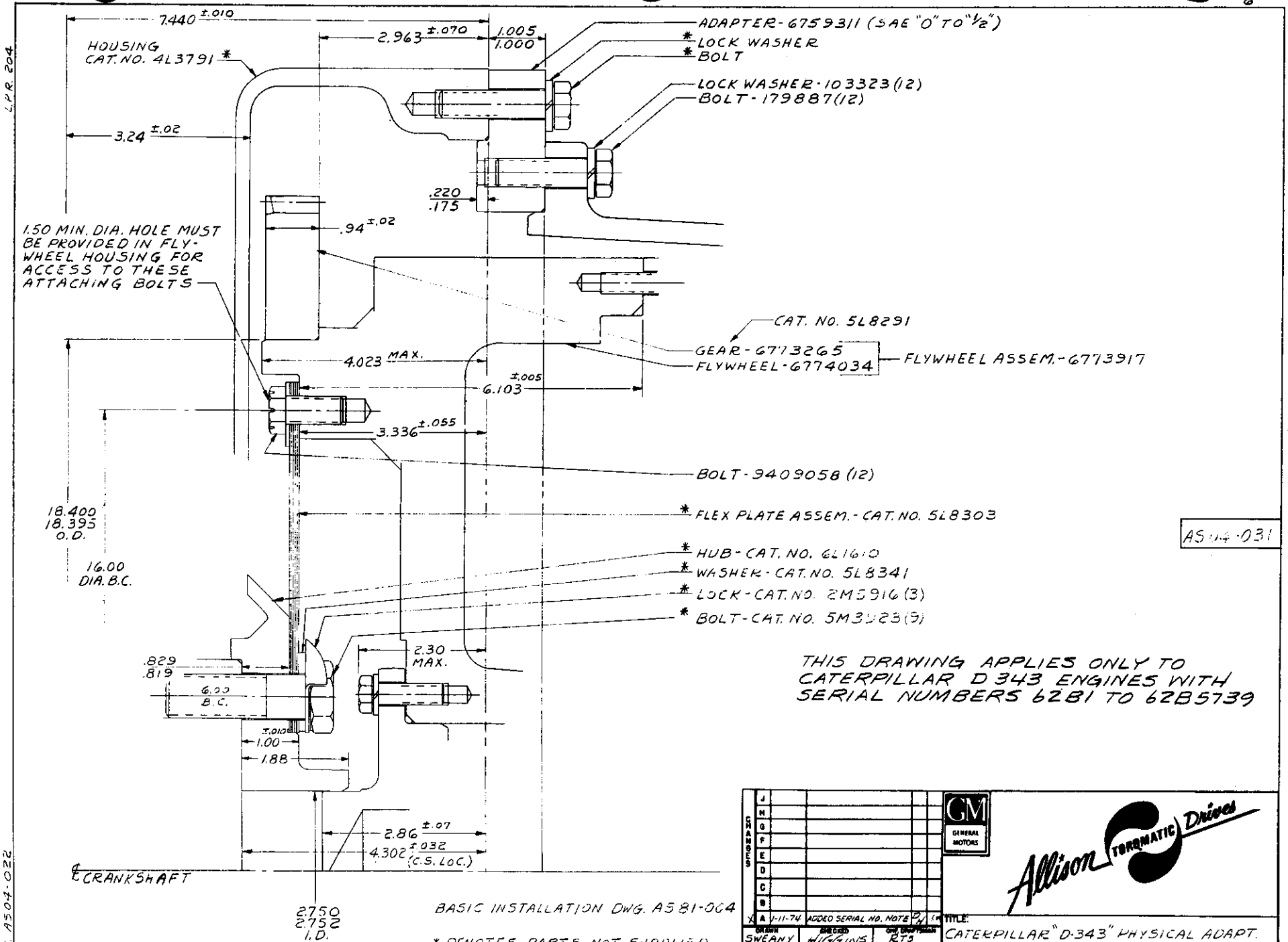
Allison TORQMATIC Drives

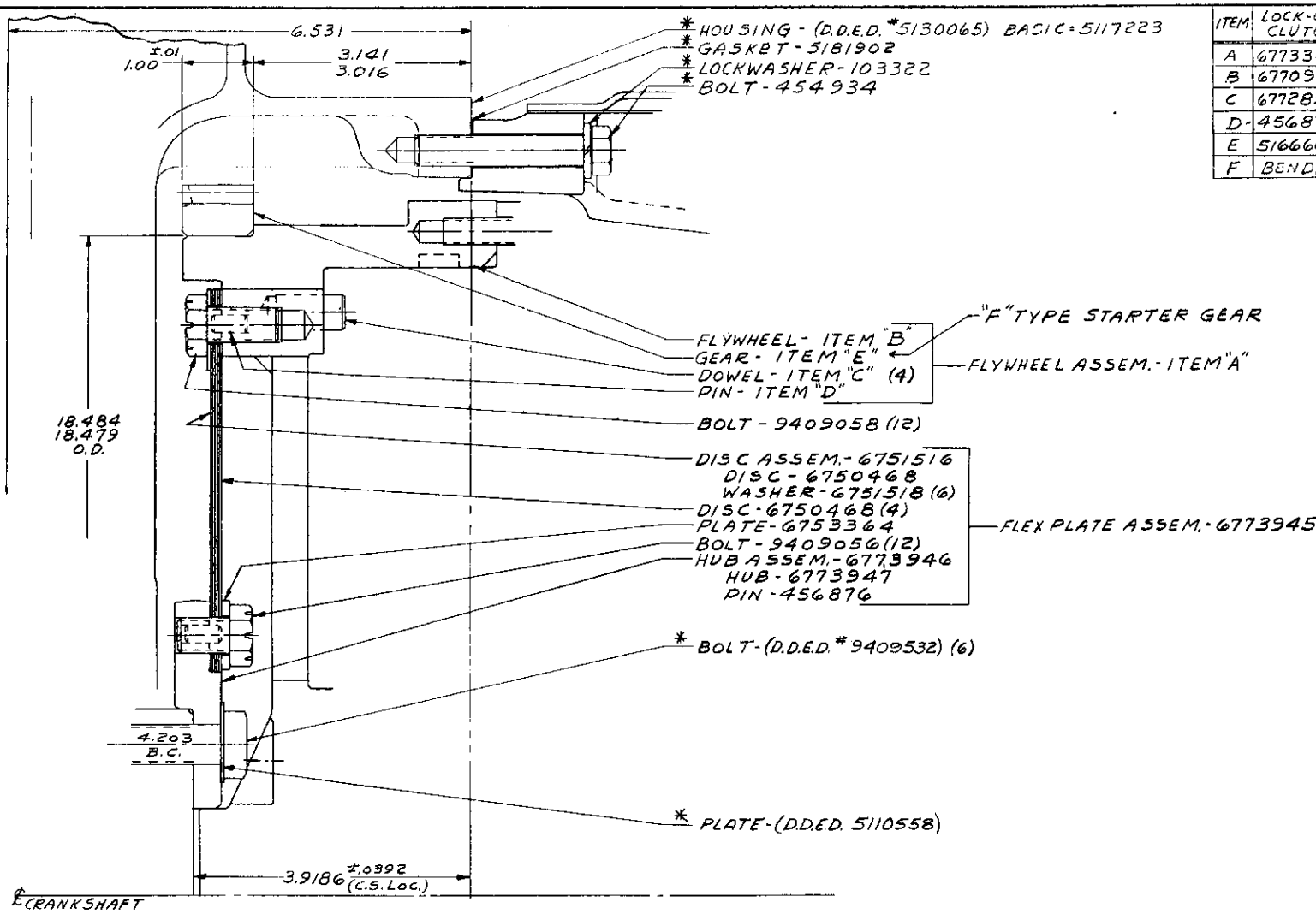
TITLE: INTERNATIONAL HARVESTER "D-817" PHYSICAL ADAPT.

MODEL 5000-6000 SERIES TRANSMISSIONS | AS04-030

ALLISON DIVISION-GENERAL MOTORS CORPORATION-INDIANAPOLIS, INDIANA

REF. I.H.C.# 1107-15-V-82 AS04-004 24-005


7.440 ±.010
2.963 ±.070
1.005
1.000
HOUSING
CAT. NO. 4L3791 *
ADAPTER - 6759311 (SAE "0" TO "½")
* LOCK WASHER
* BOLT
LOCK WASHER - 103323 (12)
BOLT - 179887 (12)
3.24 ±.02
.220
.175
.94 ±.02
1.50 MIN. DIA. HOLE MUST BE PROVIDED IN FLY-WHEEL HOUSING FOR ACCESS TO THESE ATTACHING BOLTS
CAT. NO. 5L8291
GEAR - 6773265
FLYWHEEL - 6774034
FLYWHEEL ASSEM. - 6773917
4.023 MAX.
±.005
6.103
3.336 ±.055
BOLT - 9409058 (12)
18.400
18.395
O.D.
* FLEX PLATE ASSEM. - CAT. NO. 5L8303
16.00
DIA. B.C.
* HUB - CAT. NO. 6L1610
* WASHER - CAT. NO. 5L8341
* LOCK - CAT. NO. 2M5916 (3)
* BOLT - CAT. NO. 5M3523 (9)
.829
.819
2.30
MAX.
6.00
B.C.
±.010
1.00
1.88
2.86 ±.07
4.302 ±.032
(C.S. LOC.)
℄ CRANKSHAFT
2.750
2.752
I.D.
BASIC INSTALLATION DWG. AS81-004
* DENOTES PARTS NOT SUPPLIED WITH CONVERTER ASSEMBLY.
AS 04-031
THIS DRAWING APPLIES ONLY TO CATERPILLAR D 343 ENGINES WITH SERIAL NUMBERS 6281 TO 6285739
CHANGES
J
H
G
F
E
D
C
B
A 7-11-74 ADDED SERIAL NO. NOTE
DRAWN SWEANY 3-12-62
CHECKED HIGGINS 6-12-62
ENGR. DISCIPLINE RTS 6-12-62
SCALE FULL
PROJ. ENGR. ST. JOHN 5-22-62
APPL. ENGR. EPW 6-12-62
CHG
GM GENERAL MOTORS
Allison TORQMATIC Drives
TITLE: CATERPILLAR D-343 PHYSICAL ADAPT.
MODEL 800 & 900 SERIES CONVERTER
AS 04-031
ALLISON DIVISION - GENERAL MOTORS CORPORATION - INDIANAPOLIS, INDIANA
REF. AS04-022
L.P.R. 204



ITEM	LOCK-UP CLUTCH	LOCK-UP CLUTCH	NO LOCK-UP CLUTCH
A	6773381	6770909	
B	6770906	6770906	
C	6772832	6772832	
D	456876	456876	
E	5166664	5184773	
F	BENDIX	UNIVERSAL	

AS 04-032

BASIC INSTALLATION DWG. AS 58-029, AS 58-031

* DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY.

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE DWG. AS 00-001

CHG	
J	
H	
G	
F	
E	
D	
C	
B	
A	

DRAWN	CHECKED	CHF. DRAFTSMAN
SWEANY 3-15-62	HIGGINS 6-8-64	RTS 6-9-64
SCALE FULL	PROJ. ENGR. ROBINSON 6-2-64	APPL. ENGR. WELCHER 6-2-64

GM GENERAL MOTORS

Allison TORQMATIC Drives

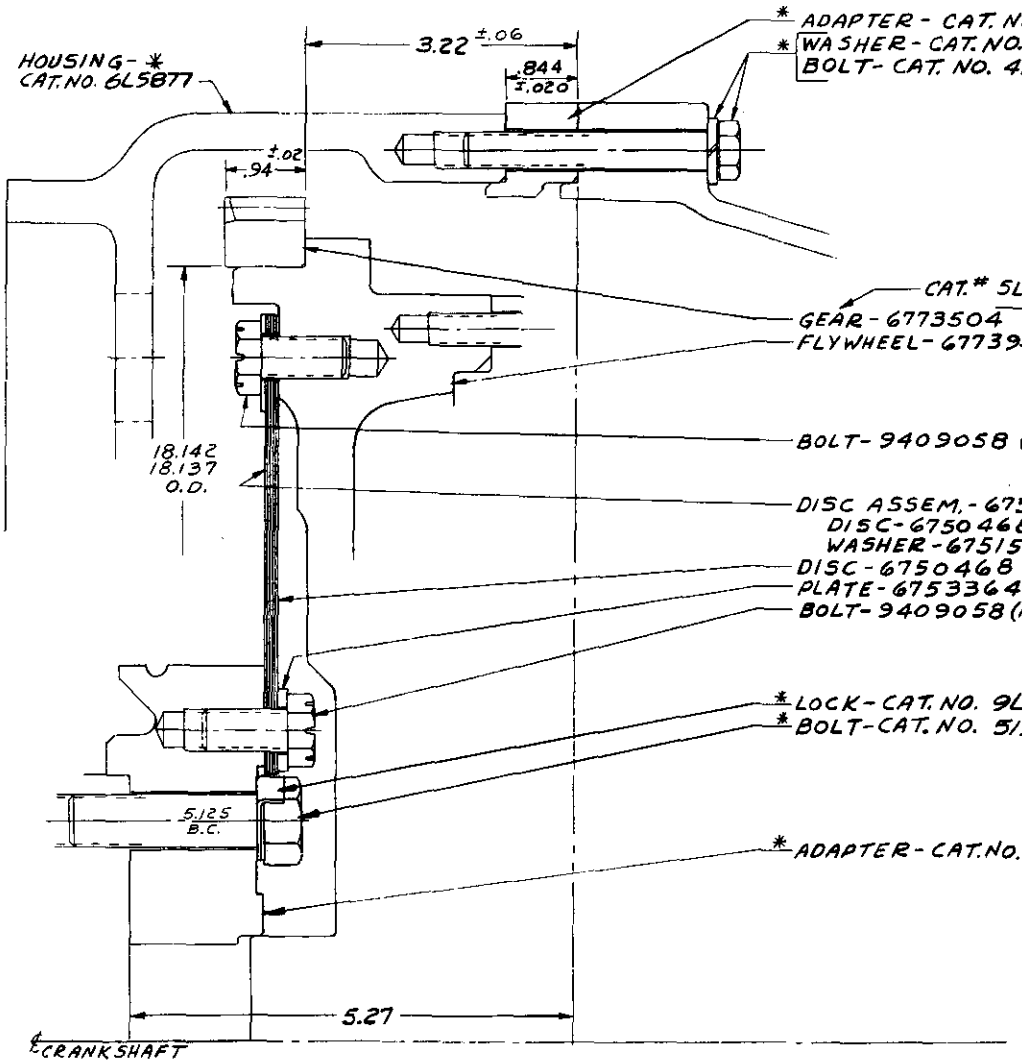
TITLE: DETROIT DIESEL 16V-71 PHYSICAL ADAPT.

MODEL 5000 & 6000 SERIES TRANSMISSION AS 04-032

ALLISON DIVISION · GENERAL MOTORS CORPORATION · INDIANAPOLIS, INDIANA

REF. AS 04-025

72-035 72-041



AS 04-033

THIS DRAWING APPLIES ONLY TO CATERPILLAR D 333 AND 1673 ENGINES IN THE FOLLOWING SERIAL NO. SERIES

D333	1673
79 B1 AND UP	70 B1 AND UP
58 B312 AND UP	78 B1 AND UP
87 B1 AND UP	
66 D1 TO 66 D 1929	
23 C1 TO 23 C 321	

NOTE :
THIS DRAWING ILLUSTRATES DESIGN STATUS ONLY. AVAILABITY OF PARTS MUST BE OBTAINED FROM ALLISON SALES AND ENGINE MANUFACTURER

FOR CONVERTER DRIVE DATA NOT SHOWN SEE DWG. AS 00-001

BASIC INSTALLATION DWG. AS 51-003

* DENOTES PARTS NOT SUPPLIED WITH CONVERTER ASSEMBLY.

CHANGES			
J			
H			
G			
F			
E			
D			
C			
X B	1-11-74	ADDED SERIAL NO. NOTE	DJ
A	10-2-67	SEE DEV. NOTICE	MKG

DESIGN	CHECKED	CHF. DRAFTSMAN
SWEANY 4-12-62	HIGGINS 6-12-62	RTS 6-13-62
SCALE	PROJ. ENGR.	APPL. ENGR.
FULL	ST JOHN 5-29-62	EPW 6-12-62

CHG ✓

GM GENERAL MOTORS

Allison TORQMATIC Drives

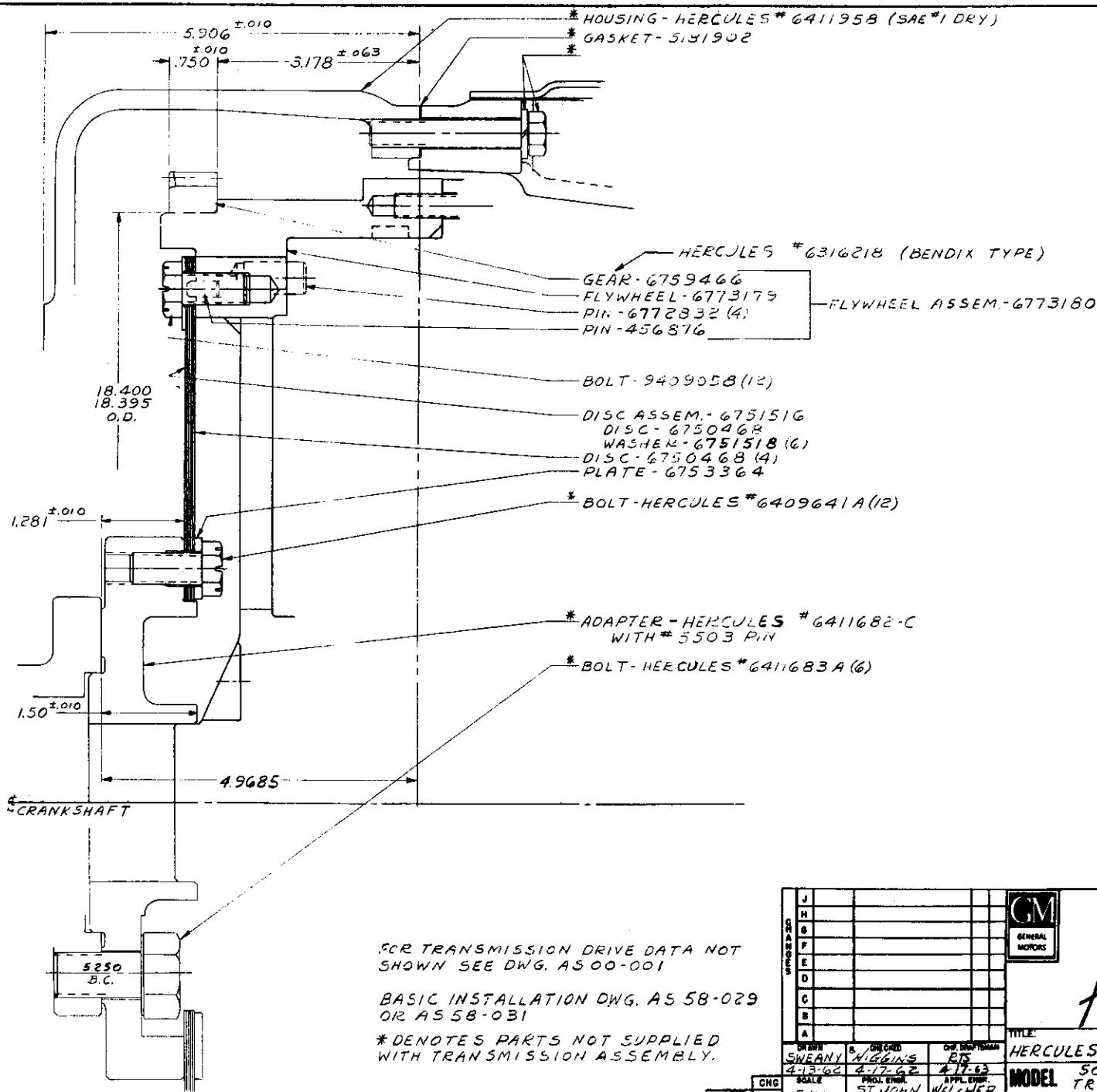
TITLE: CATERPILLAR "1673 & D-333" PHYSICAL ADAPT.

MODEL TC-400 AS 04-033

ALLISON DIVISION · GENERAL MOTORS CORPORATION · INDIANAPOLIS, INDIANA

06-31 # 07-033

REF. AS 04-028



AS 04-034

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE DWG. AS 00-001

BASIC INSTALLATION DWG. AS 58-029 OR AS 58-031

* DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY.

CHANGES			
J			
H			
G			
F			
E			
D			
C			
B			
A			

DRAWN	CHECKED	CHF. DRAFTSMAN
SWEANY 4-13-62	B. NIGGINS 4-17-62	PTS 4-17-63
SCALE FULL	PROJ. ENGR. ST. JOHN 5-7-62	APPL. ENGR. WELCHER 4-18-63

CHG /

GM GENERAL MOTORS

Allison TORQMATIC Drives

TITLE: "HS-6156" & HERCULES HS-6182 PHYSICAL ADAPT.

MODEL 5000 SERIES TRANSMISSION

AS 04-034

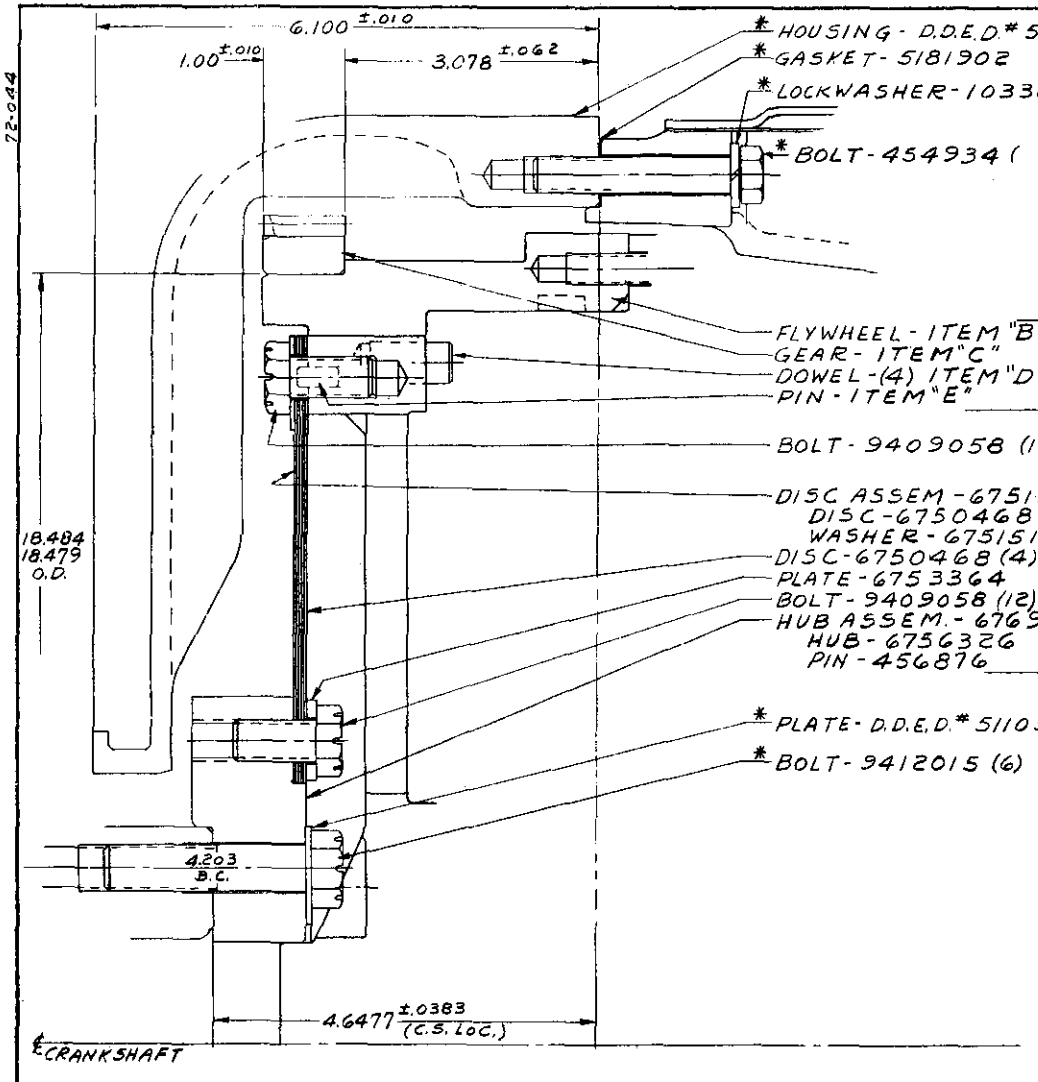
ALLISON DIVISION · GENERAL MOTORS CORPORATION · INDIANAPOLIS, INDIANA

(AA-L-SCOTT ENG. 935 & 1091)

24-109

FOR HS # 8760

5



ITEM	UNIVERSAL STARTER GEAR		BENDIX STARTER GEAR	
	LOCKUP CLUTCH	NO LOCKUP CLUTCH	LOCKUP CLUTCH	NO LOCKUP CLUTCH
A	6770909	6768925	6773381	6773577
B	6770906	6768924	6770906	6768924
C	5184773	5184773	5166664	5166664
D	6772832		6772832	
E	456876		456876	

AS 04-036

BASIC INSTALLATION DWG. AS 58-029, AS 58-031, AS 56-002 OR AS 56-003

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE DWG. AS 00-001

* DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY.

DRAWN SWEANY 4-4-62	CHECKED B. HIGGINS 5-17-62	ENG. APPROVAL R.T.S. 5-17-62	
SCALE FULL	PROJ. ENGR. ST JOHN 5-7-62	APPL. ENGR.	

CHG 34 35 ✓

GM GENERAL MOTORS

Allison TORQMATIC Drives

TITLE: DETROIT DIESEL "6-110" PHYSICAL ADAPT.

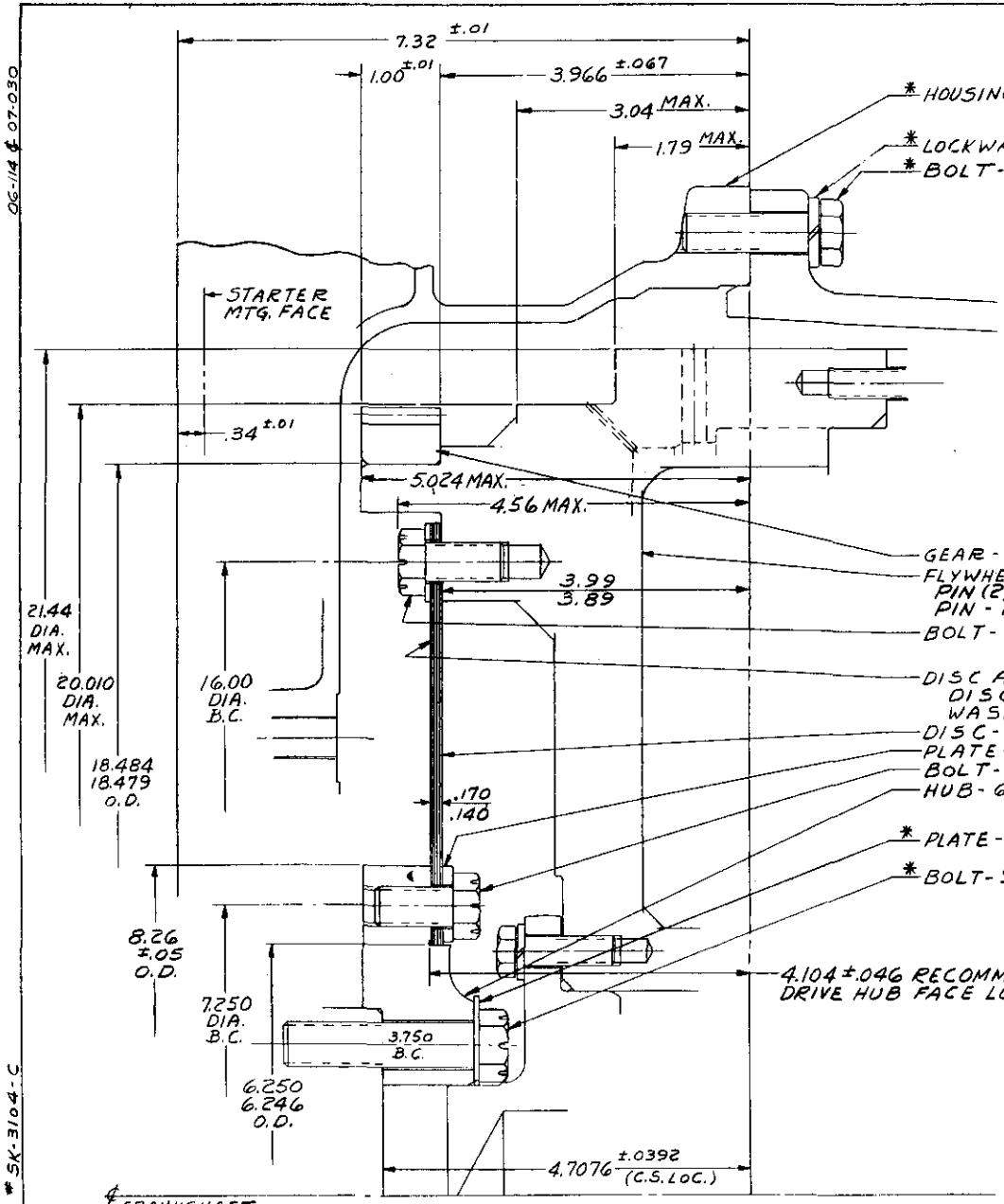
MODEL 5000 & 6000 SERIES TRANSMISSION | AS 04-036

ALLISON DIVISION - GENERAL MOTORS CORPORATION - INDIANAPOLIS, INDIANA

72-044

REF. AS 04-025

ITEM	TC	TCHD	
A	6770655	6775301	
B	6770653	6775302	
C	5184773	5184773	
D	NONE	125860	
E	NONE	6768590	



AS04-037

FOR CONVERTER DRIVE DATA NOT SHOWN SEE AS00-015

BASIC INSTALLATION DWG. AS81-004

* DENOTES PARTS NOT SUPPLIED WITH CONVERTER ASSEMBLY.

CHANGES		
J		
H		
G		
F		
E		
D		
C		
B		
A		

DRAWN	CHECKED	CHIEF DRAFTSMAN
SWEANY 4-16-62	HIGGINS 5-17-62	DTS 5-18-62
SCALE FULL	PROJ. ENGR. STYOHN 5-7-62	APPL. ENGR.

GM GENERAL MOTORS

Allison TORQMATIC Drives

TITLE: DETROIT DIESEL 8 & 12V-71 PHYSICAL ADAPT.

MODEL TC-800 & 900 CONVERTER

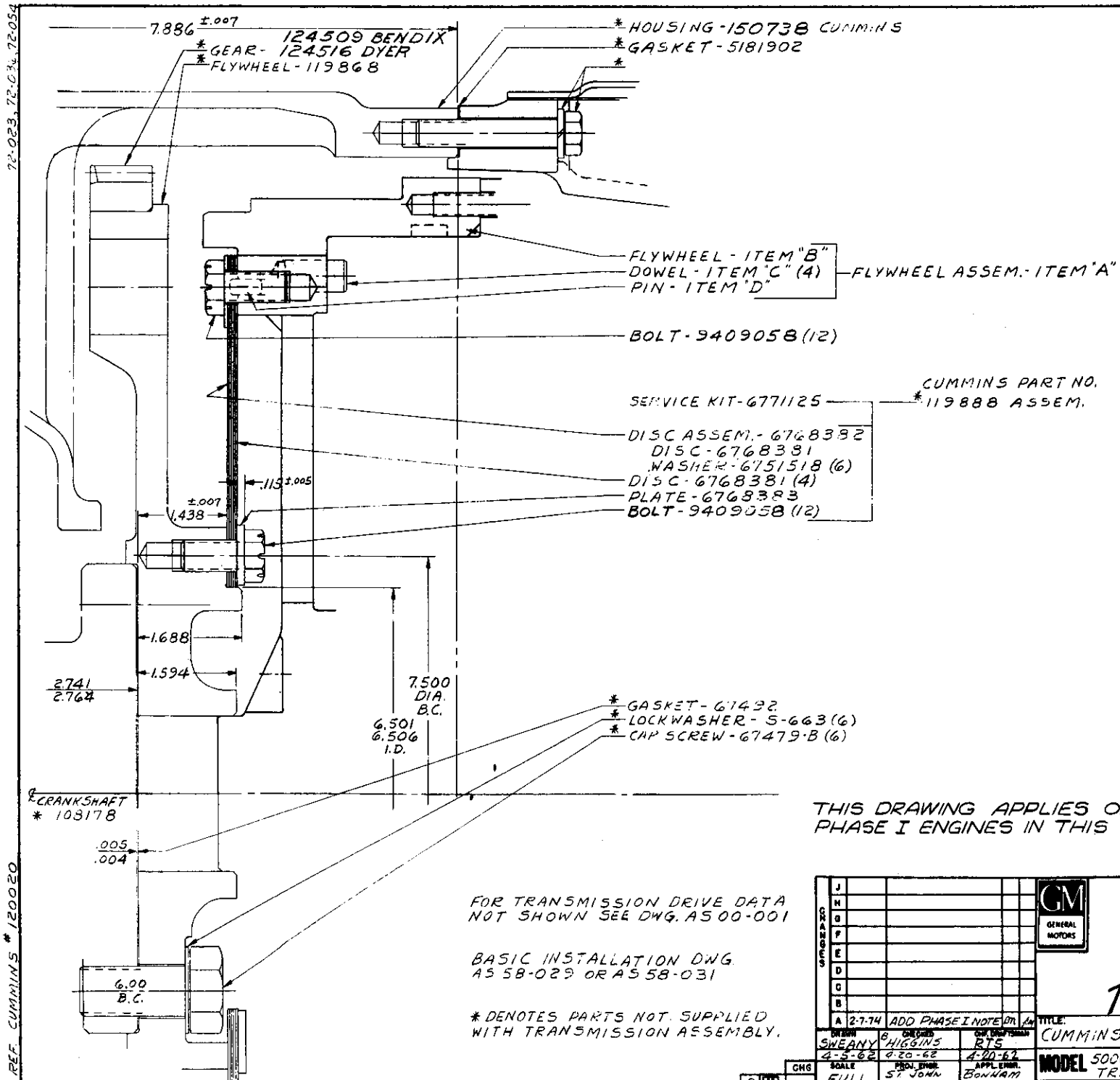
AS04-037

ALLISON DIVISION · GENERAL MOTORS CORPORATION · INDIANAPOLIS, INDIANA

REF. D.D.E.D. * SK-3104-C

06-114 & 07-030

72-023, 72-034, 72-054



ITEM	LOCK-UP CLUTCH	NO LOCK-UP CLUTCH
A	6770911	NONE
B	6770891	6768913
C	6772832	NONE
D	6761440	NONE

AS 04-038

THIS DRAWING APPLIES ONLY TO PHASE I ENGINES IN THIS SERIES

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE DWG. AS 00-001

BASIC INSTALLATION DWG. AS 58-029 OR AS 58-031

* DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY.

CHANGES			
A	2-7-74	ADD PHASE I NOTE	DR

DRAWN	CHECKED	CHK. ENGR. APPROVAL
SWEANY 4-5-62	B HIGGINS 4-20-62	RTS 4-20-62
SCALE FULL	PROJ. ENGR. ST JOHN 4-20-62	APPL. ENGR. BONHAM 4-20-62

GM GENERAL MOTORS

Allison TORQMATIC Drives

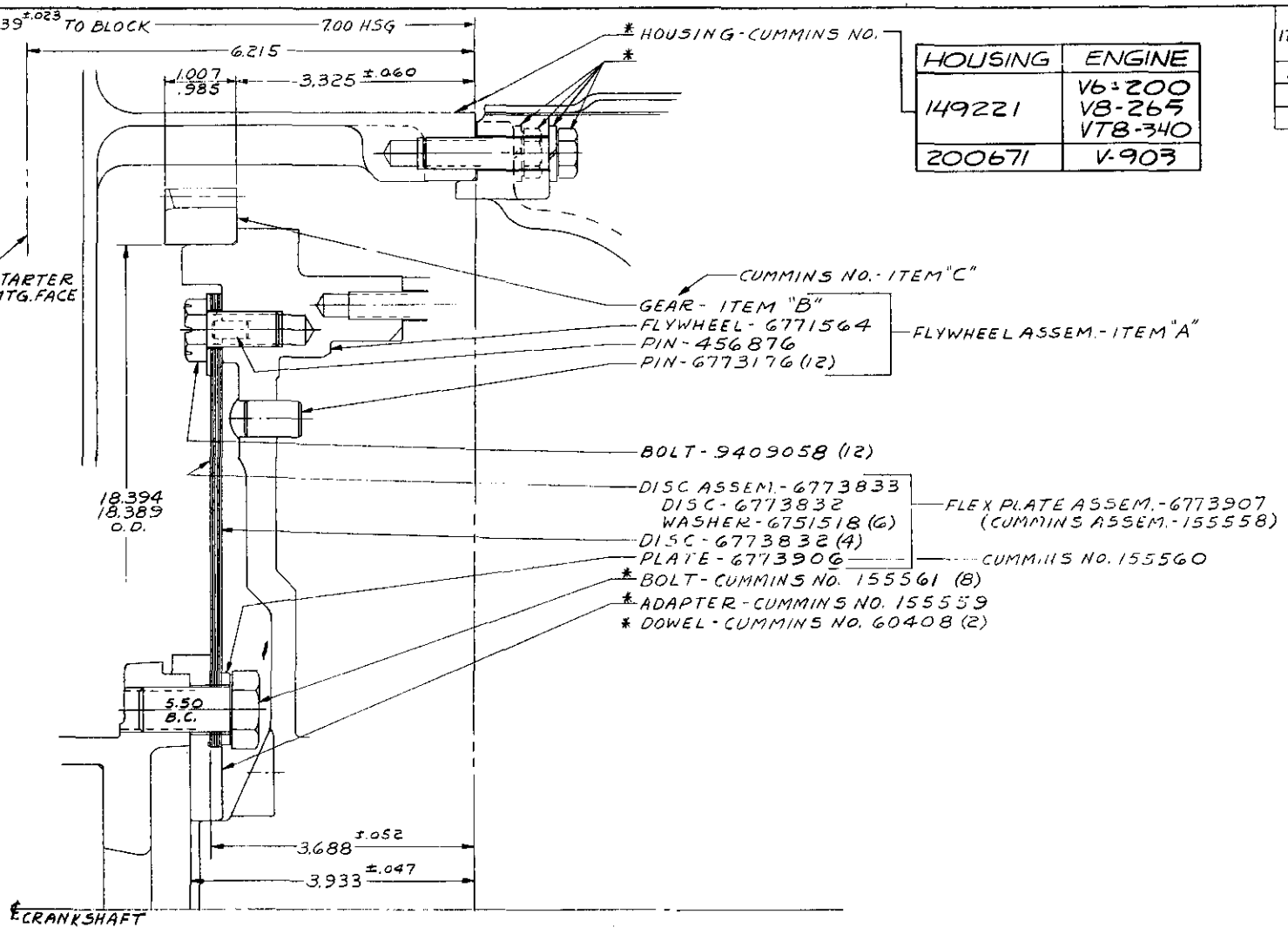
TITLE: VT-12-700 VT12 NVH-450 CUMMINS V-12525 VT12-635 PHY.ADAPT

MODEL 5000 & 6000 SERIES TRANSMISSION

AS 04-038

ALLISON DIVISION - GENERAL MOTORS CORPORATION - INDIANAPOLIS, INDIANA

REF. CUMMINS # 1200020



HOUSING	ENGINE
149221	V6-200 V8-265 VT8-340
200671	V-903

ITEM	BENDIX TYPE STARTER GEAR	DYER TYPE STARTER GEAR
A	6773781	6771565
B	6752502	6751948
C	124509	124516

AS04-039

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE AS00-001

BASIC INSTALLATION DRAWING AS40-001, AS44-001 & AS44-005

* DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY.

CHANGES			
J			
H			
G			
F			
E			
D			
C			
B			
X A	3-26-70	SEE REV NOTICE	BK

DR. DESIGN	CHECKED	CHF. DRAFTSMAN
SWEANY 4-18-62	RK 5-10-62	PTS 5-12-62
SCALE FULL	PROJ. ENGR. ST JOHN 5-10-62	APPL. ENGR. E.W. 5-10-62

GM GENERAL MOTORS

Allison TORQMATIC Drives

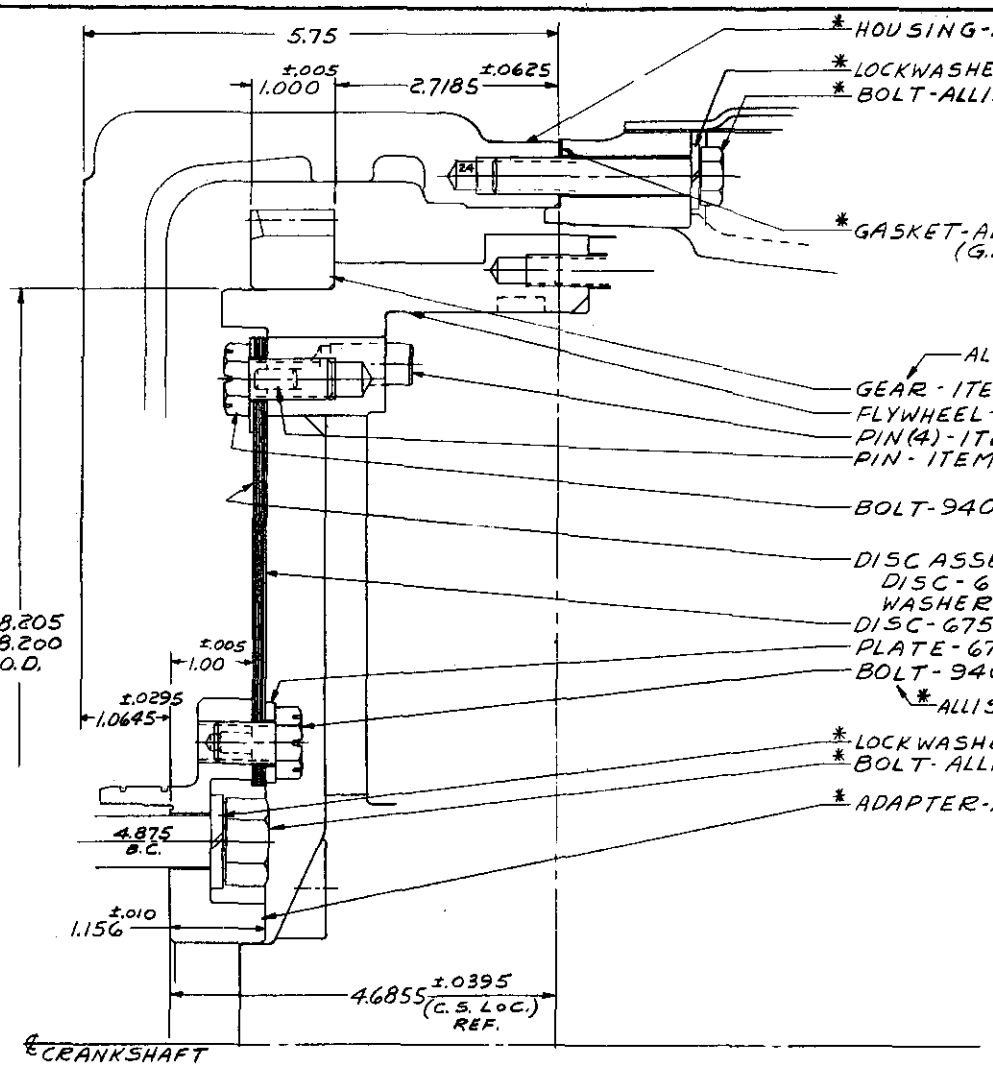
TITLE: CUMMINS "SEE ENG. CHART" PHYSICAL ADAPT.

MODEL 4460 & HT-70 AS04-039

ALLISON DIVISION - GENERAL MOTORS CORPORATION - INDIANAPOLIS, INDIANA

L.P.R. 2-14

REF. CUMMINS # 148523



ITEM	LOCK-UP CLUTCH		
A	6771466		
B	6771465		
C	6774352		
D	4303694		
E	6772832		
F	456876		

A504-041

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE DWG. A500-001

* DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY.

CHANGES			
J			
H			
G			
F			
E			
D			
C			
B			
A			
DRAWN	SWEANY 6-21-63	CHECKED	HIGGINS 7-19-63
SCALE	FULL	PROJ. ENGR.	ROBINSON 7-3-63
		APPL. ENGR.	WELCHER 7-12-63

GM GENERAL MOTORS

Allison TORQMATIC Drives

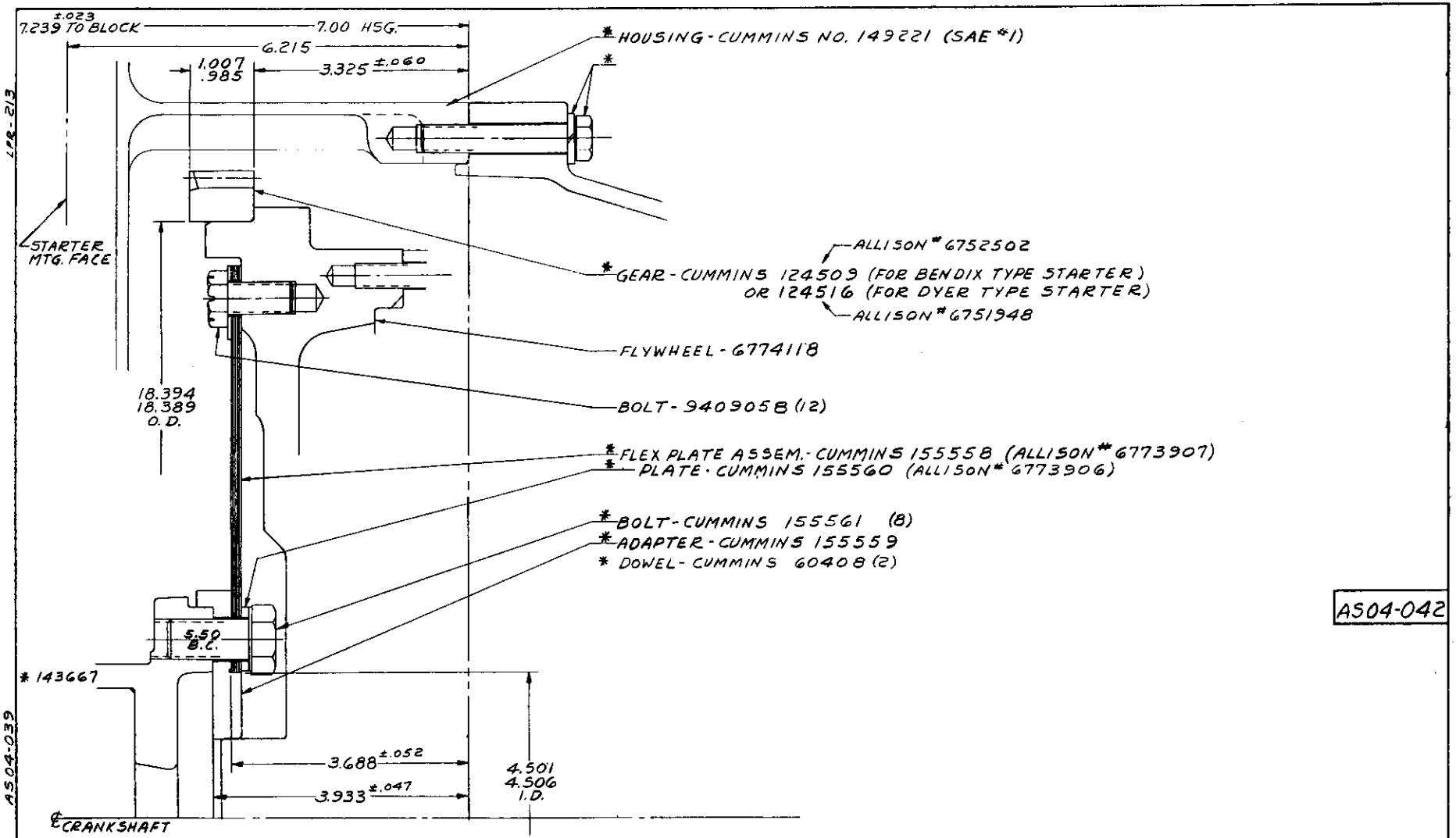
TITLE: "25000 & ALLIS CHALMERS 21000" PHYSICAL ADAPT.

MODEL 5000 SERIES TRANSMISSION A504-041

ALLISON DIVISION · GENERAL MOTORS CORPORATION · INDIANAPOLIS, INDIANA

72-113

REF. A.C.# 04-5266



AS04-042

BASIC INSTALLATION DWG. AS 51-003

FOR CONVERTER DRIVE DATA NOT SHOWN SEE AS 00-001

* DENOTES PARTS NOT SUPPLIED WITH CONVERTER ASSEMBLY.

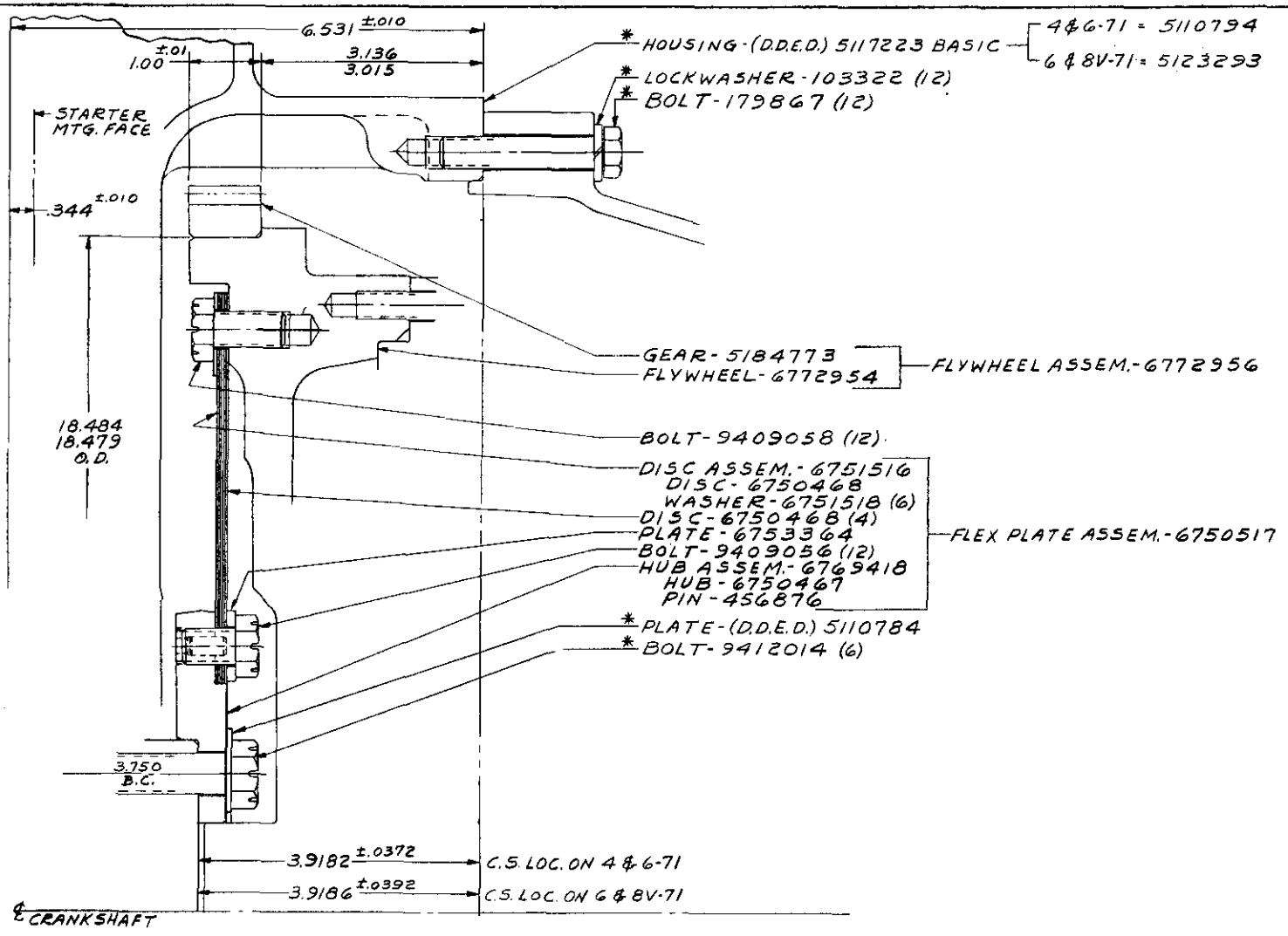
DRAWN SWEANY 5-1-62	CHECKED R.K. 9-10-62	ENG. APPROVAL P.S. 9-12-62	TITLE: "V6-200 & CUMMINS V8-265" PHYSICAL ADAPT.
SCALE FULL	PROJ. ENGR. ST JOHN 9-10-62	APPL. ENGR. E.W. 9-10-62	MODEL TC-400 / AS 04-042

ALLISON DIVISION · GENERAL MOTORS CORPORATION · INDIANAPOLIS, INDIANA

LIT. - 213

AS04-039

REF. CUMMINS #148523



AS04-043

FOR CONVERTER DRIVE DATA NOT SHOWN SEE AS00-001

BASIC INSTALLATION DWG. AS51-003

* DENOTES PARTS NOT SUPPLIED WITH CONVERTER ASSEMBLY.

DRAWN SNEAHY 5-2-62	CHECKED W. HIGGINS 5-16-62	CHG. DESIGN RJS 5-16-62	
SCALE FULL	PROJ. ENGR. D. ST. JOHN 5-7-62.	APPL. ENGR. ROBINSON 5-22-64	

GM GENERAL MOTORS

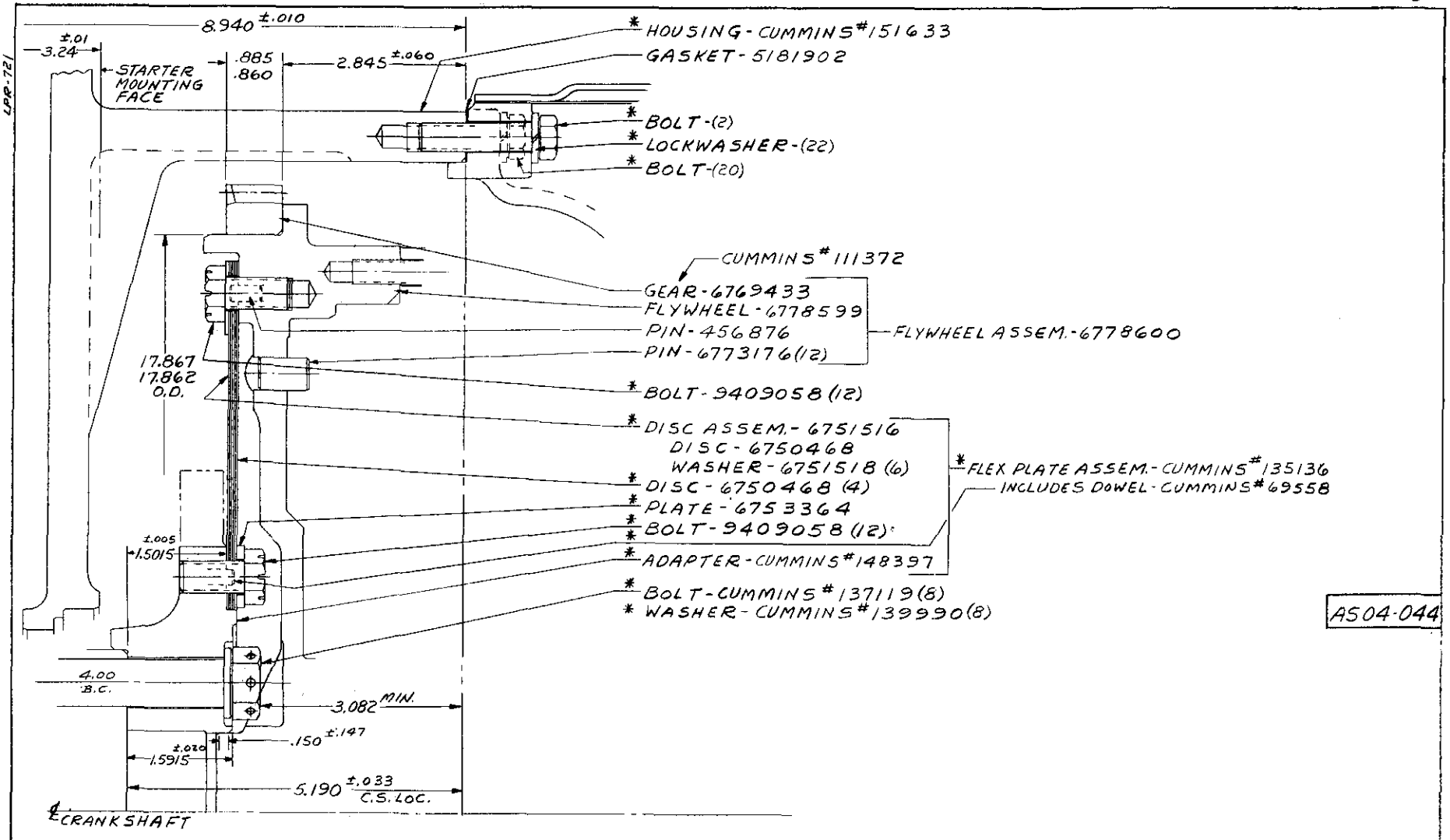
Allison TORQMATIC Drives

TITLE: DETROIT DIESEL "4-71, 6-71 6V-71 & 8V-71" PHYSICAL ADAPT.

MODEL TC-400 AS04-043

ALLISON DIVISION - GENERAL MOTORS CORPORATION - INDIANAPOLIS, INDIANA

REF. AS04-019



AS04-044

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE AS00-001

BASIC INSTALLATION DWG. AS44-001 OR AS44-005 AS40-001

* DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY.

DA-✓

CHANGES			
J			
H			
G			
F			
E			
D			
C			
B			
A			

DRAWN	CHECKED	ENG. DEPARTMENT
SWEANY 11-4-64	HARPER 2-4-65	Batiuk 2-4-65
SCALE FULL	PROJ. ENGR. ROBINSON 2-2-65	APPL. ENGR. WELCHER 2-3-65

GM GENERAL MOTORS

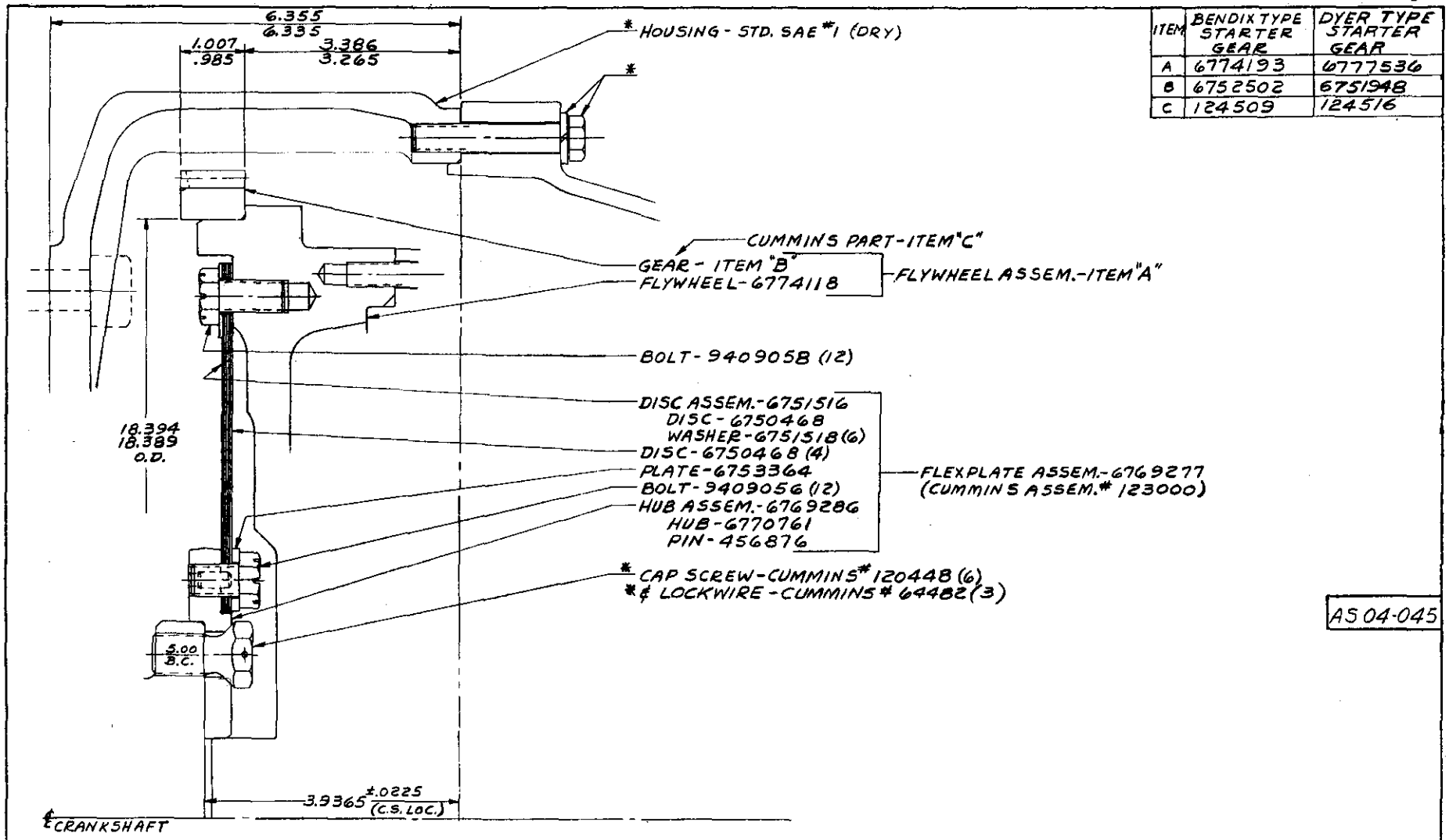
Allison TORQMATIC Drives

TITLE: "V8-350 & CUMMINS VT8-430" PHYSICAL ADAPT.

MODEL 4460 & HT-70 | AS04-044

ALLISON DIVISION · GENERAL MOTORS CORPORATION · INDIANAPOLIS, INDIANA

REF. AS04-014 & -021



ITEM	BENDIX TYPE STARTER GEAR	DYER TYPE STARTER GEAR
A	6774193	6777536
B	6752502	6751948
C	124509	124516

AS 04-045

FOR CONVERTER DRIVE DATA NOT SHOWN SEE DWG. AS 00-001

BASIC INSTALLATION DWG. AS 51-003

* DENOTES PARTS NOT SUPPLIED WITH CONVERTER ASSEMBLY.

	DRAWN	CHECKED	CHK. DESIGN
J			
H			
G			
F			
E			
D			
C			
B			
A	SWEANY 6-6-62	HIGGINS 6-12-62	RTS 6-13-62
	SCALE FULL	PROJ. ENGR. ST. JOHN 6-7-62	APPL. ENGR. EPW 6-12-62

CHG ✓

GM GENERAL MOTORS

Allison TORQMATIC Drives

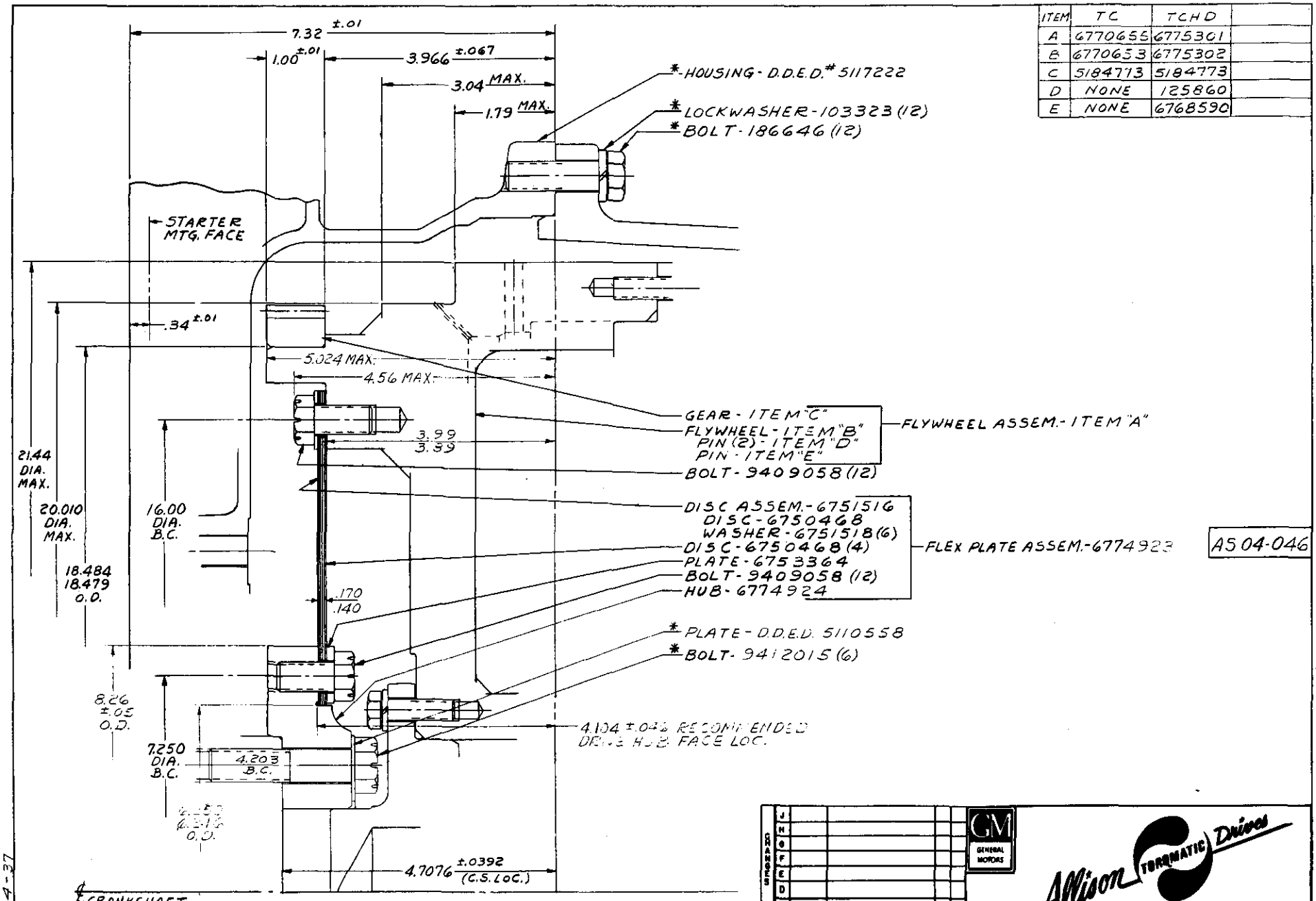
486 CYL.

TITLE: "H&N" CUMMINS INLINE PHYSICAL ADAPT.

MODEL TC-400 AS04-045

ALLISON DIVISION · GENERAL MOTORS CORPORATION · INDIANAPOLIS, INDIANA

REF. AS 04-003



ITEM	TC	TCHD
A	6770655	6775301
B	6770653	6775302
C	5184713	5184773
D	NONE	125860
E	NONE	6768590

AS 04-046

FOR CONVERTER DRIVE DATA NOT SHOWN SEE AS 00-015

BASIC INSTALLATION DWG. AS 81-004

* DENOTES PARTS NOT SUPPLIED WITH CONVERTER ASSEMBLY.

CHANGES			
J			
H			
G			
F			
E			
D			
C			
B			
A			

DRAWN	CHECKED	CHF. ENGR. APPROVAL
SWEANY	HIGGINS	RTS
6-18-62	5-16-63	5-16-63
SCALE	PROJ. ENGR.	APPL. ENGR.
FULL	ROBINSON	WAGNER
	5-10-63	5-10-63

GM GENERAL MOTORS

Allison TORQMATIC Drives

TITLE: DETROIT DIESEL "16V-71", PHYSICAL ADAPT.

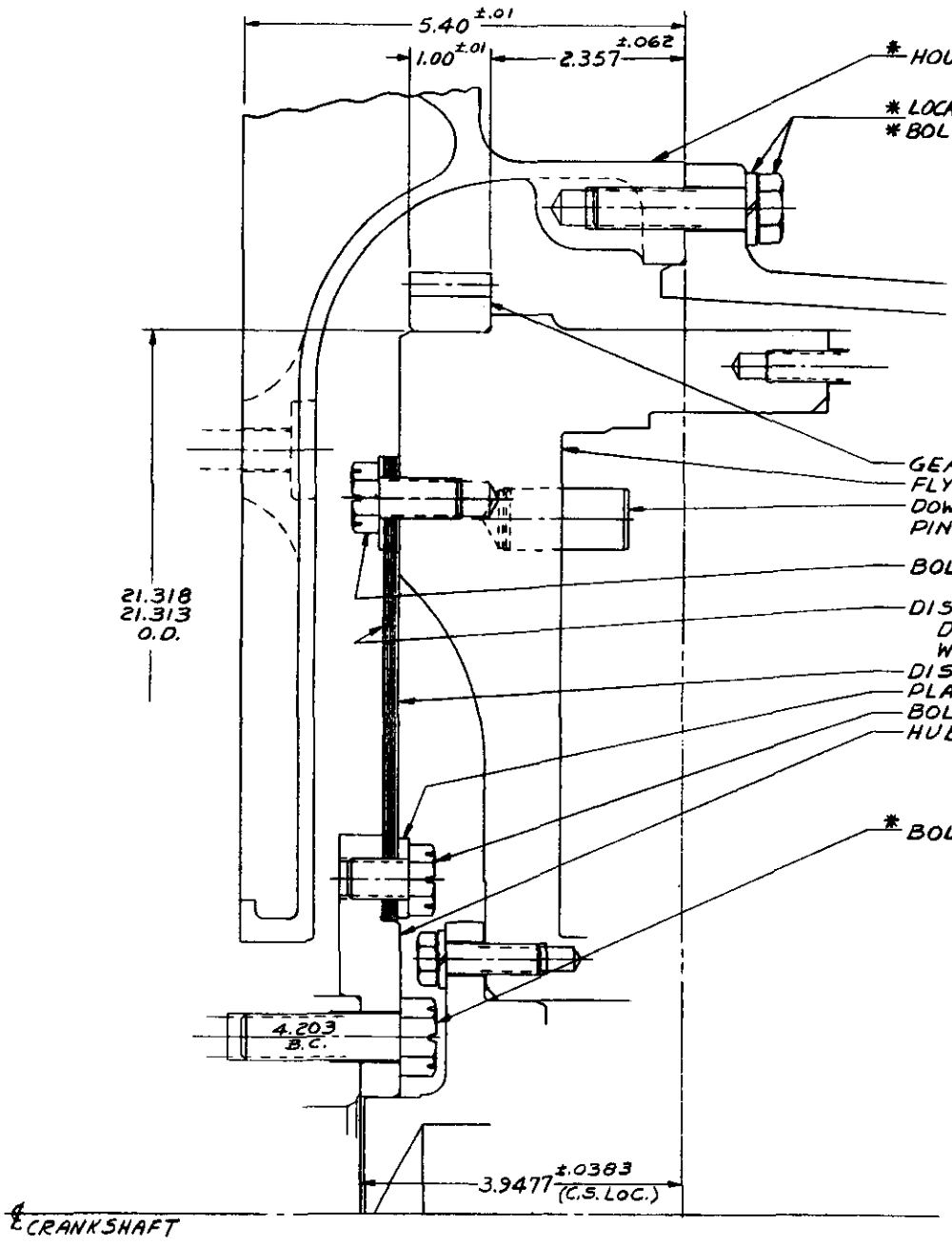
MODEL TC-800 & 900 CONVERTER

AS 04-046

ALLISON DIVISION - GENERAL MOTORS CORPORATION - INDIANAPOLIS, INDIANA

REF. AS 04-37

4-087
07-006, 06-011, -012, -086, -088



* HOUSING - 5111256

* LOCKWASHER - 103323 (12)

* BOLT - 186646 (12)

GEAR - ITEM "C"
FLYWHEEL - ITEM "B"
DOWEL - ITEM "D" (2)
PIN - ITEM "E"
— FLYWHEEL ASSEM. - ITEM "A"

BOLT - 9409058 (12)

DISC ASSEM. - 6751698
DISC - 6750529
WASHER - 6751521 (6)
DISC - 6750529 (5)
PLATE - 6750527
BOLT - 9409056 (8)
HUB - 6750574
— FLEX PLATE ASSEM. - 6752631

* BOLT - 9409532 (6)

ITEM	NO LOCK-UP CLUTCH OR START. GEAR	NO LOCK-UP CLUTCH. START. GEAR	LOCK-UP CLUTCH. NO START. GEAR	LOCK-UP CLUTCH & START. GEAR
A	——	6752079	6768606	6768604
B	6750182	6750182	6759577	6759577
C	——	5176711	——	5176711
D	——	——	125860	125860
E	——	——	6768590	6768590

ITEM	HYD. DUMP CLUTCH & START. GEAR
A	6768597
B	6768237
C	5176711
D	125860
E	6768590

AS04-047

BASIC INSTALLATION DWG. AS81-004

FOR CONVERTER DRIVE DATA NOT SHOWN SEE DWG. AS00-015

* DENOTES PARTS NOT SUPPLIED WITH CONVERTER ASSEMBLY.

CHANGES	DESIGN	DRAWN	CHK. DESIGN
J	SWEANY 6-14-62	HIGGINS 7-16-62	R.T.S. 7-17-62
H	SCALE FULL	MFG. ENGR. ST JOHN 7-11-62	APPL. ENGR. E. WELCHER 7-11-62
G			
F			
E			
D			
C			
B			
A			

CHG

GM GENERAL MOTORS

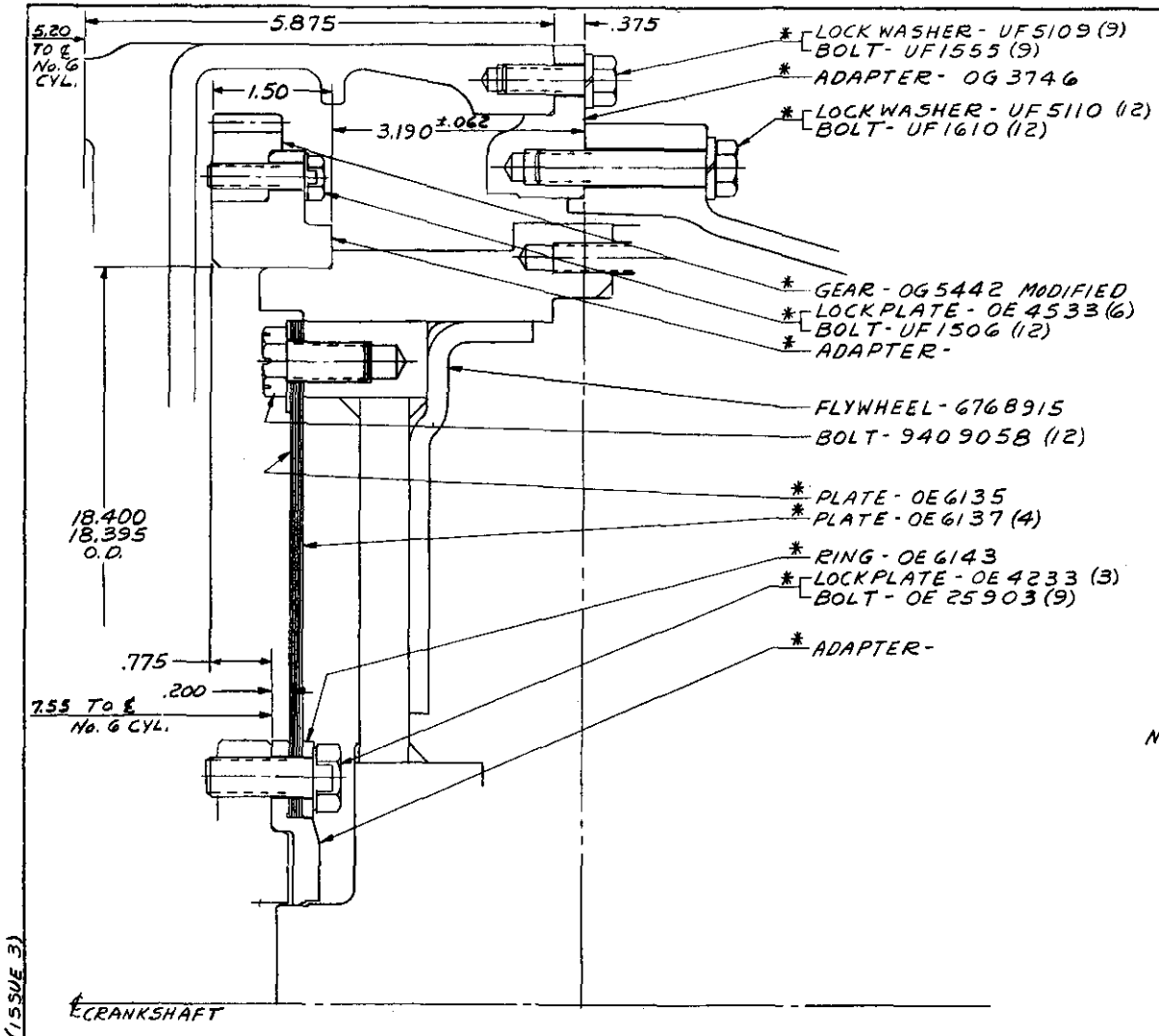
Allison TORQMATIC Drives

TITLE: DETROIT DIESEL "6-110" PHYSICAL ADAPT.

MODEL TC-800 & 900 CONVERTER

AS04-047

ALLISON DIVISION - GENERAL MOTORS CORPORATION - INDIANAPOLIS, INDIANA



NOTE: LOCK-UP OPTION CAN NOT BE PROVIDED WITH THIS CONFIGURATION.

AS04-048

FOR CONVERTER DRIVE DATA NOT SHOWN SEE DWG. AS00-001.

BASIC INSTALLATION DWG. AS51-003.

*DENOTES PARTS NOT SUPPLIED WITH CONVERTER ASSEMBLY.

DRAWN SWEANY 6-28-62	CHECKED B. HIGGINS 4-2-63	ENGR. APPROVAL ETS 4-3-63	
SCALE FULL	PROJ. ENGR. ST JOHN 5-11-62	APPL. ENGR. WELCHER 5-11-62	

GM GENERAL MOTORS

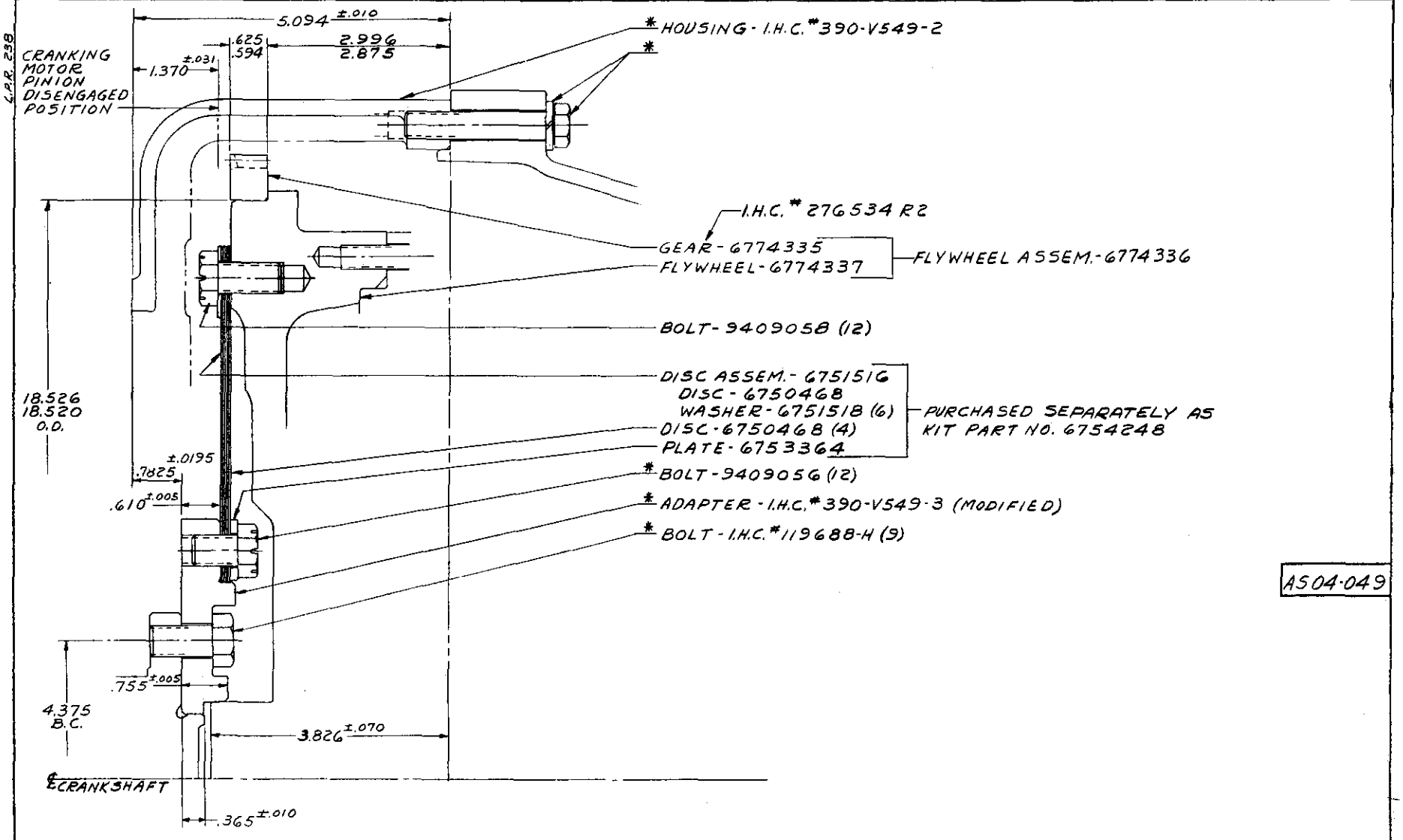
Allison TORQMATIC Drives

TITLE: ROLLS-ROYCE "C6S" PHYSICAL ADAPT.

MODEL TC-500 AS04-048

ALLISON DIVISION - GENERAL MOTORS CORPORATION - INDIANAPOLIS, INDIANA

REF. ROLLS-ROYCE #OL2422 (ISSUE 3)



AS04-049

FOR CONVERTER DRIVE DATA NOT SHOWN SEE AS 00-001

BASIC INSTALLATION DWG. AS51-003

* DENOTES PARTS NOT SUPPLIED WITH CONVERTER ASSEMBLY.

DRAWN SWEANY 12-21-62	CHECKED & NIGGINS 2-8-63	QUALITY PTS 5-8-63	
SCALE FULL	PROJ. ENGR. ST JOHN 9-10-62	APPL. ENGR. WELCHER 9-11-62	

GM GENERAL MOTORS

Allison TORQMATIC Drives

TITLE: INTERNATIONAL HARVESTER "UV549" PHYSICAL ADAPT.

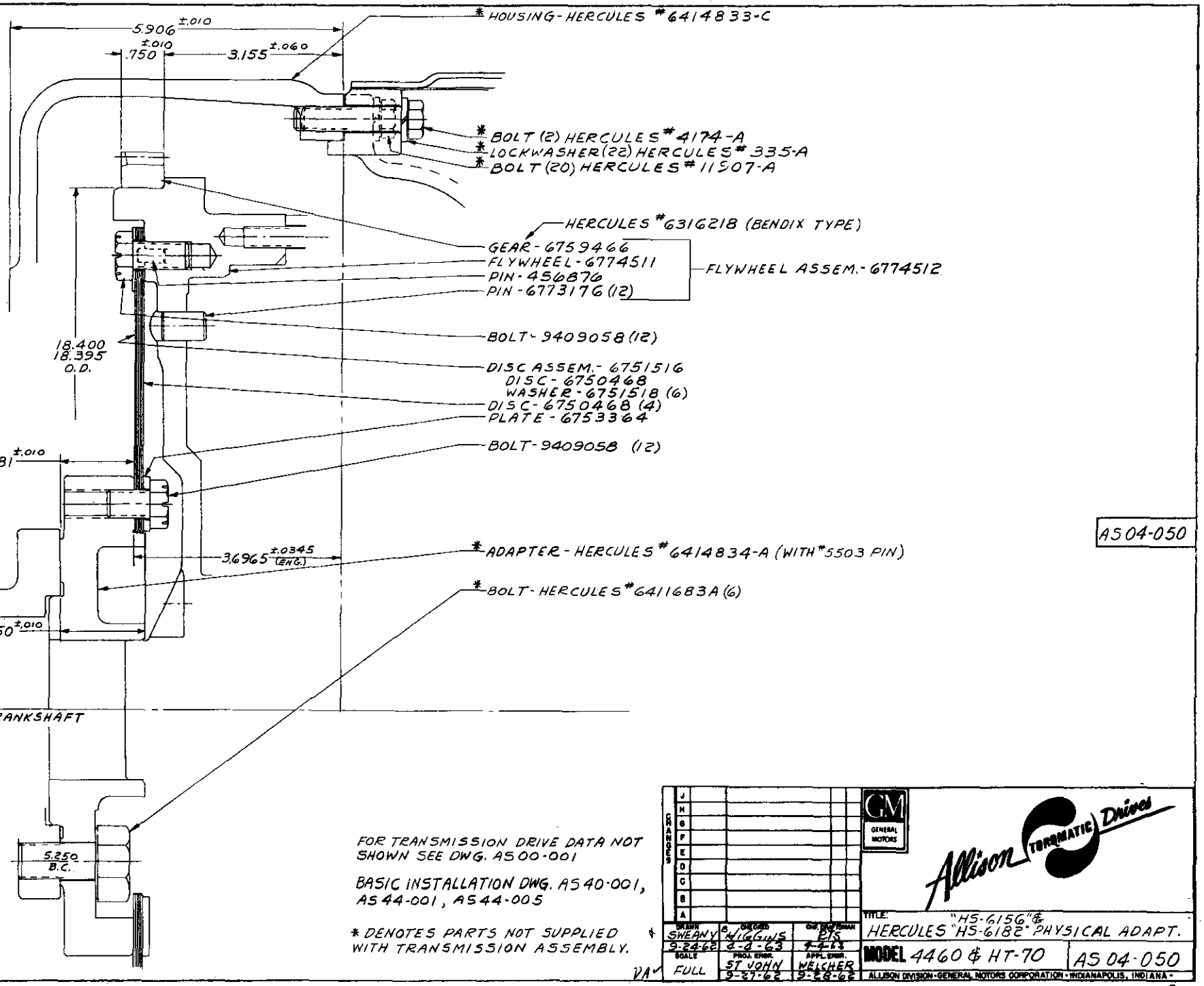
MODEL TC-400 AS04-049

ALLISON DIVISION - GENERAL MOTORS CORPORATION - INDIANAPOLIS, INDIANA

REF. I.H.C. * 390-V549-1

C.P.R. 238

3



AS04-050

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE DWG. AS00-001

BASIC INSTALLATION DWG. AS40-001, AS44-001, AS44-005

* DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY.

DIV.	ORIG. DES.	ORIG. DRAFTSMAN
SWEANY 9-24-62	HIGGINS 2-2-63	PTS 4-4-63
SCALE: FULL	PROJ. ENGR. ST JOHN 9-27-62	APPL. ENGR. WELCHER 9-28-62

VA

GM GENERAL MOTORS — Allison TORQMATIC Drives

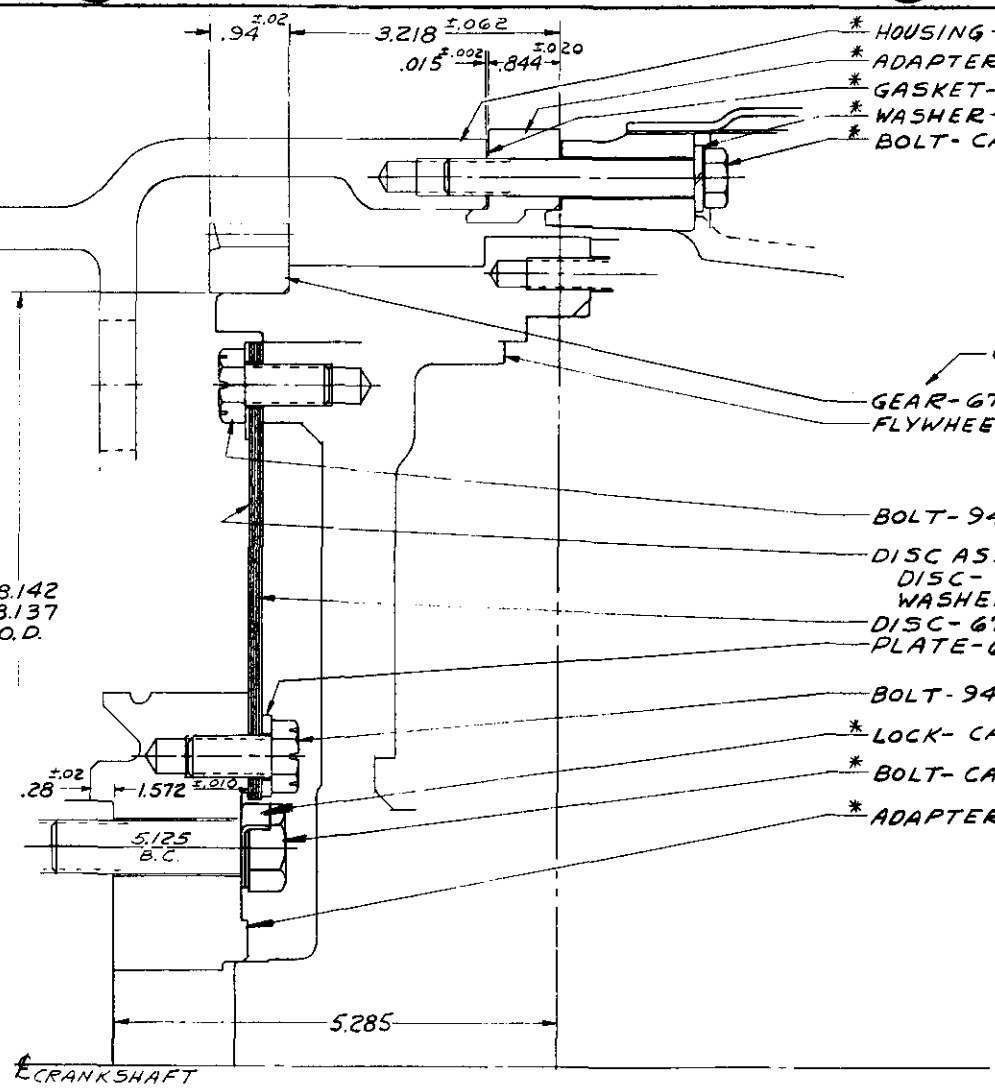
TITLE: "HS-6156" & HERCULES "HS-6182" PHYSICAL ADAPT.

MODEL 4460 & HT-70 — AS04-050

ALLISON DIVISION · GENERAL MOTORS CORPORATION · INDIANAPOLIS, INDIANA

REF: AS04-034 & HERCULES # A-16584 (HALL-SCOTT ENG. 935 & 1091)

74-021



* HOUSING - CAT. NO. 6L5877
* ADAPTER - CAT. NO. 1H3515
* GASKET - (2) G.M. No. 5181902
* WASHER - CAT. NO. 3B4507
* BOLT - CAT. NO. 4F5192

CAT. NO. SL2751 (FOR ELEC. STARTER)

GEAR - 6773504
FLYWHEEL - 6769997 — FLYWHEEL ASSEM. - 6773507

BOLT - 9409058 (12)

DISC ASSEM. - 6751516
DISC - 6750468
WASHER - 6751518 (6)

DISC - 6750468 (4)

PLATE - 6753364

BOLT - 9409058 (12)

* LOCK - CAT. NO. 9L3524

* BOLT - CAT. NO. 51577 (9) 5/8-18 x 2 1/4

* ADAPTER - CAT. NO. 9L3521

AS04-051

THIS DRAWING APPLIES ONLY TO CATERPILLAR D333 AND 1673 ENGINES IN THE FOLLOWING SERIAL NUMBER SERIES :

D333	1673
7981 AND UP	7081 AND UP
588312 AND UP	7881 AND UP
8781 AND UP	
66D1 TO 66D1929	
23C1 TO 23C321	

NOTE :
THIS DRAWING ILLUSTRATES DESIGN STATUS ONLY. AVAILABILITY OF PARTS MUST BE OBTAINED FROM ALLISON SALES AND ENGINE MFR.

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE DWG. AS 00-001

* DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY

CHANGES					
J					
H					
G					
F					
E					
D					
C					
X B	1-11-74	ADDED SERIAL NO. NOTE	D/N		
A	10-2-67	SEE REV. NOTICE	D/N	SG	

DRAWN	CHECKED	ENGR. APPD.	ENGR. APPD.
SWEANY	WIGGINS	B.T.S.	
6-25-63	9-17-68	9-17-63	
SCALE FULL	PROJ. ENGR. ROBINSON 7-9-63	APPL. ENGR. WELCHER 7-9-63	

GM GENERAL MOTORS

Allison TORQMATIC Drives

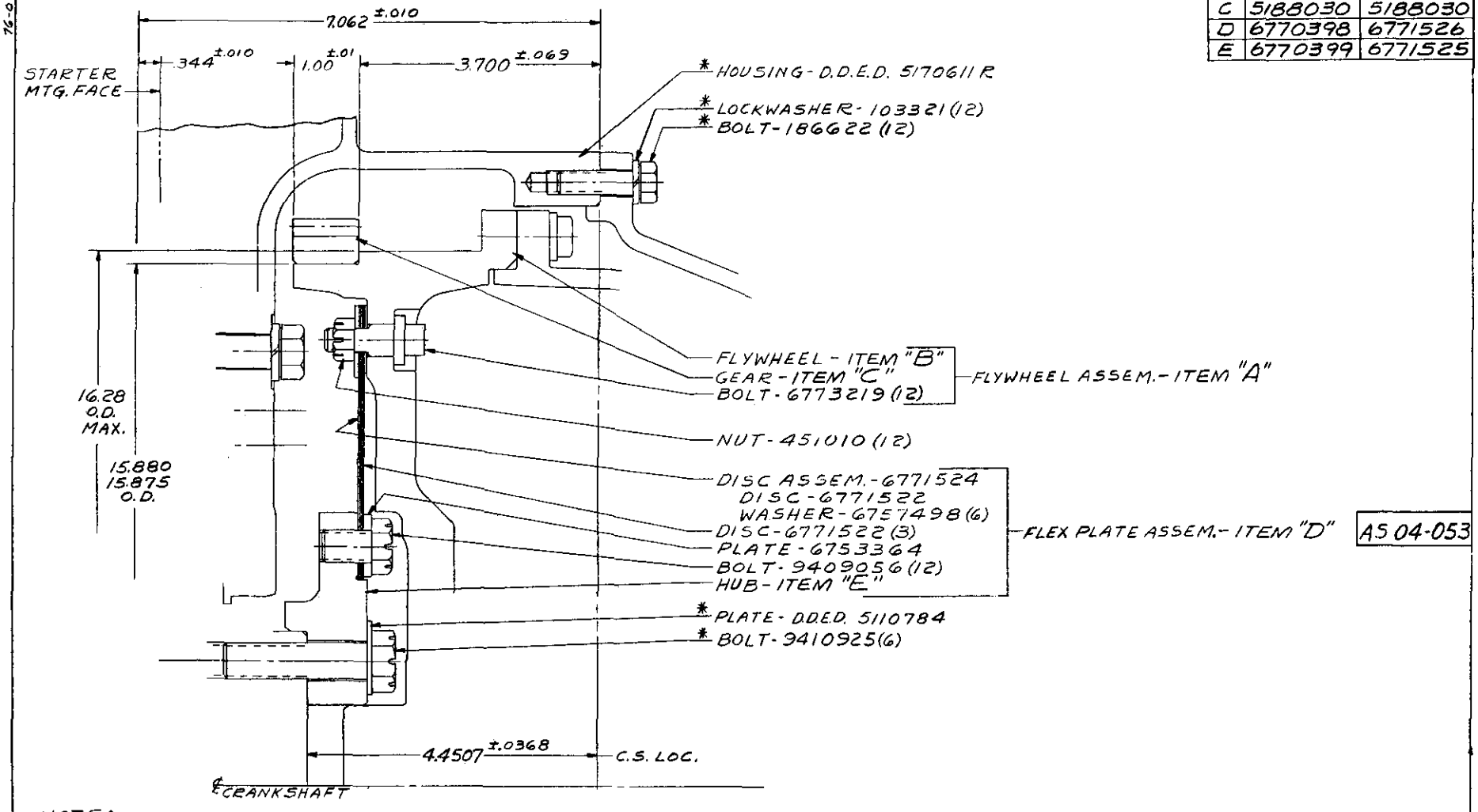
TITLE: CATERPILLAR "1673 & D-333" PHYSICAL ADAPT.

MODEL CT-5000 SERIES TRANSMISSION | AS04-051

ALLISON DIVISION - GENERAL MOTORS CORPORATION - INDIANAPOLIS, INDIANA

REF. AS 34-029

ITEM	CT	CLT
A	6773221	6773226
B	6773211	6773230
C	5188030	5188030
D	6770398	6771526
E	6770399	6771525



AS 04-053

NOTE:
THIS DRAWING ILLUSTRATES DESIGN STATUS ONLY

AVAILABILITY OF PARTS MUST BE OBTAINED FROM ALLISON SALES DEPT. OR THE ENGINE MFR.

BASIC INSTALLATION DRAWING AS 34-002 OR AS 34-004

* DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE DWG. AS 00-001

J			
H			
G			
F			
E			
D			
C			
B			
A	9-23-65	ADD CHART	DM

DRAWN	DESIGNED	CHECKED	ENGINEERING RELEASE
SWEANY 6-16-63	WIGGINS 6-26-63	BTS 6-28-63	
SCALE FULL	PROJ. ENGR. ROBINSON 6-21-63	APPL. ENGR. WOLCNER 6-21-63	

CNG V

GM GENERAL MOTORS

Allison TORQMATIC Drives

TITLE: DETROIT DIESEL "4-71" PHYSICAL ADAPT.

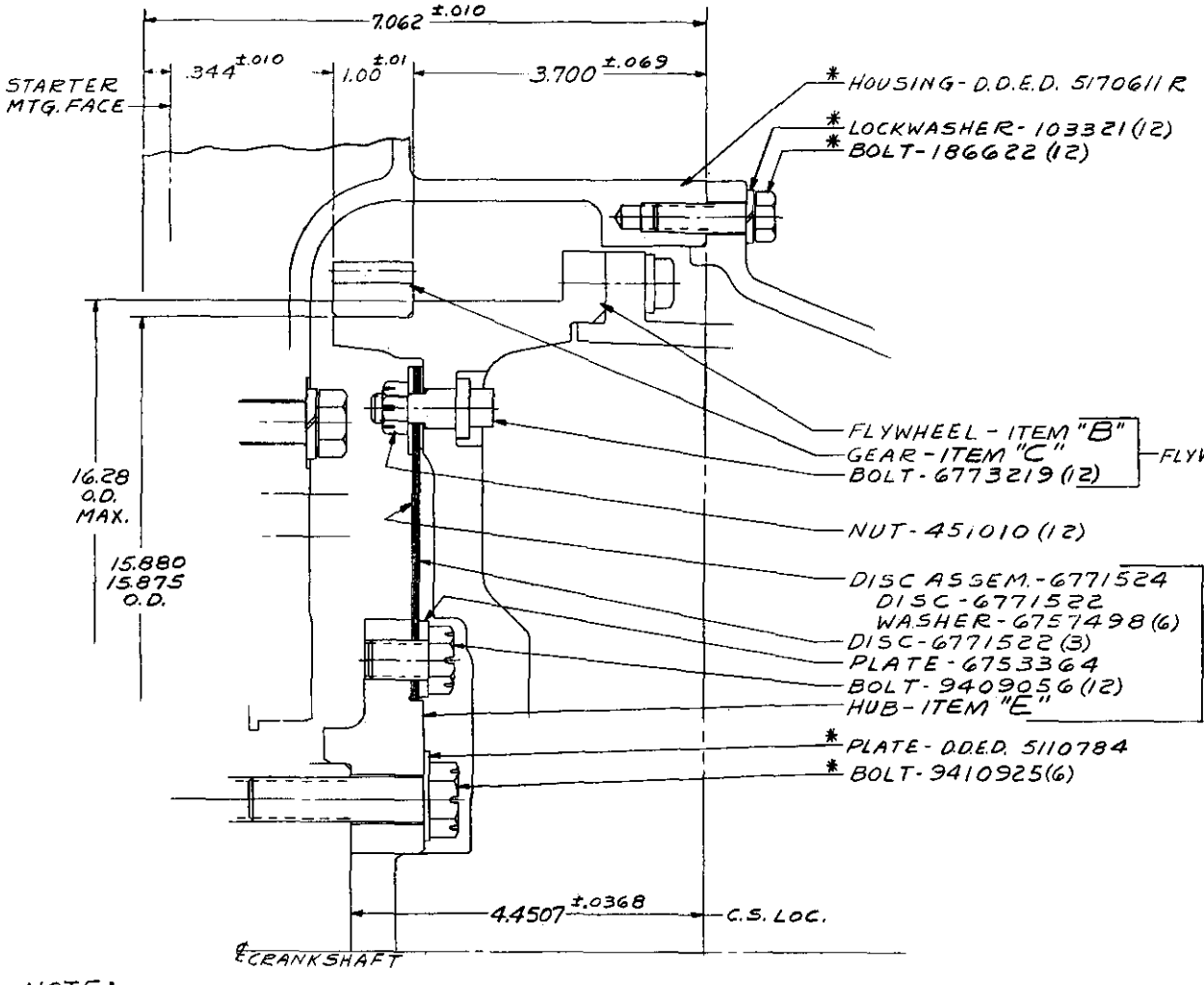
MODEL 3341 & 3441 AS 04-053

ALLISON DIVISION · GENERAL MOTORS CORPORATION · INDIANAPOLIS, INDIANA

76-025

REF. CS 793-102

ITEM	CT	CLT
A	6773221	6773226
B	6773211	6773230
C	5188030	5188030
D	6770398	6771526
E	6770399	6771525



AS 04-053

NOTE:
THIS DRAWING ILLUSTRATES DESIGN STATUS ONLY

AVAILABILITY OF PARTS MUST BE OBTAINED FROM ALLISON SALES DEPT. OR THE ENGINE MFR.

BASIC INSTALLATION DRAWING AS 34-002 OR AS 34-004

*DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE DWG. AS 00-001

CHG	DESCRIPTION	DATE	BY
J			
H			
G			
F			
E			
D			
C			
B			
A	7-23-63 ADD CHART		DH

DRAWN	CHECKED	CHF. DRAFTSMAN
SWEANY 6-18-63	B. HIGGINS 6-26-63	PTS 6-28-63
CHG	SCALE FULL	PROJ. ENGR. ROBINSON 6-21-63
DH 25 H V		APPL. ENGR. WELCHER 6-21-63

GM GENERAL MOTORS

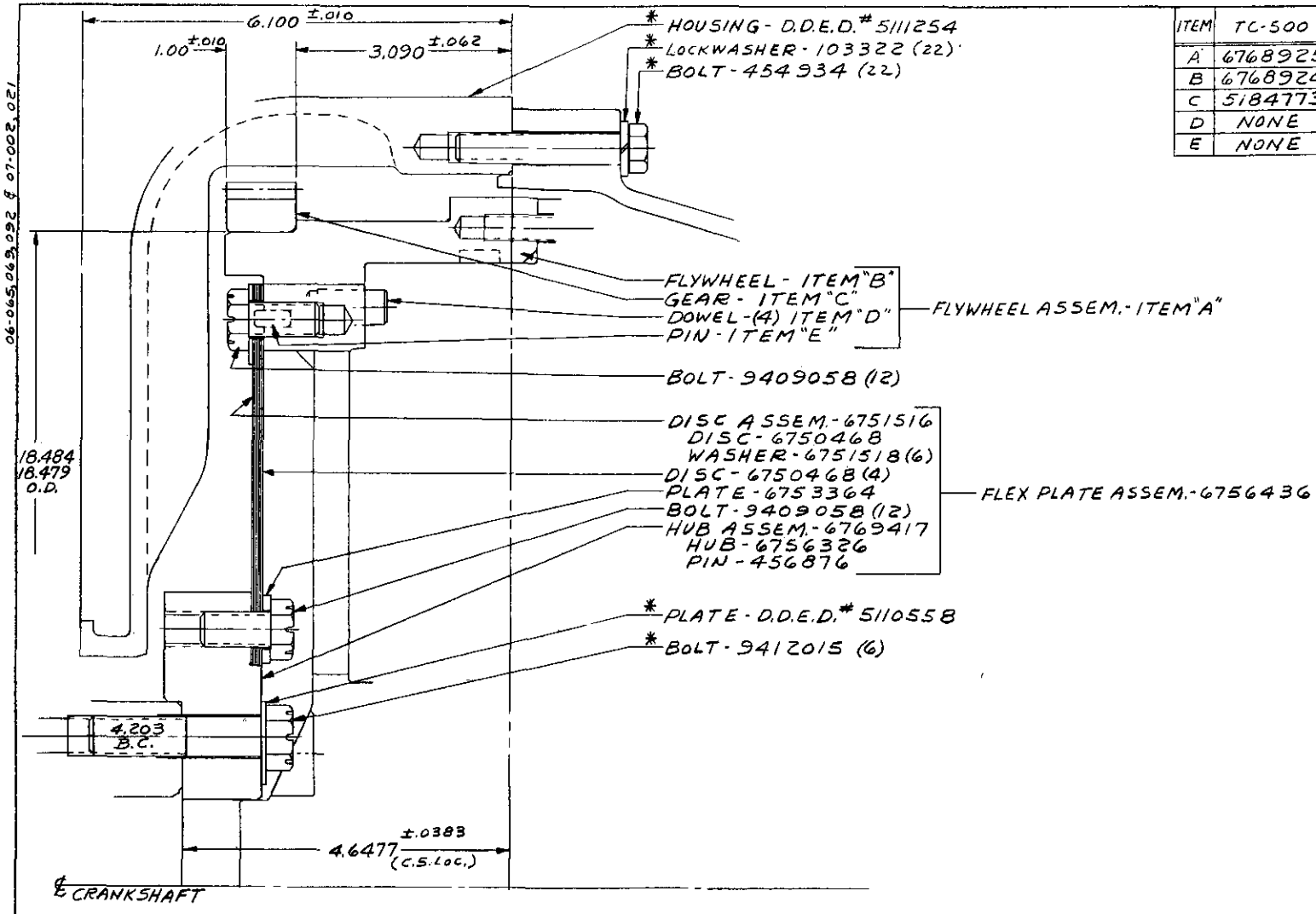
Allison TORQMATIC Drives

TITLE: DETROIT DIESEL "4-71" PHYSICAL ADAPT.

MODEL 3341 & 3441 AS 04-053

ALLISON DIVISION - GENERAL MOTORS CORPORATION · INDIANAPOLIS, INDIANA ·

16-025
REF. CS 793-102



ITEM	TC-500	TCL-500	
A	6768925	6770909	
B	6768924	6770906	
C	5184773	5184773	
D	NONE	6772832	
E	NONE	456876	

AS04-054

BASIC INSTALLATION DWG. AS51-003

FOR CONVERTER DRIVE DATA NOT SHOWN SEE DWG. AS00-001

* DENOTES PARTS NOT SUPPLIED WITH CONVERTER ASSEMBLY

DESIGNED	DRAWN	CHECKED	CHF. DRAFTSMAN
SWEANY 7-28-64		GM 8-4-64	ATS B 8-4-64
SCALE FULL	CHG V	PROJ. ENGR. ROBINSON 7-28-64	APPL. ENGR. EW 7-28-64

GM GENERAL MOTORS

Allison TORQMATIC Drives

TITLE: DETROIT DIESEL "6-110" PHYSICAL ADAPT.

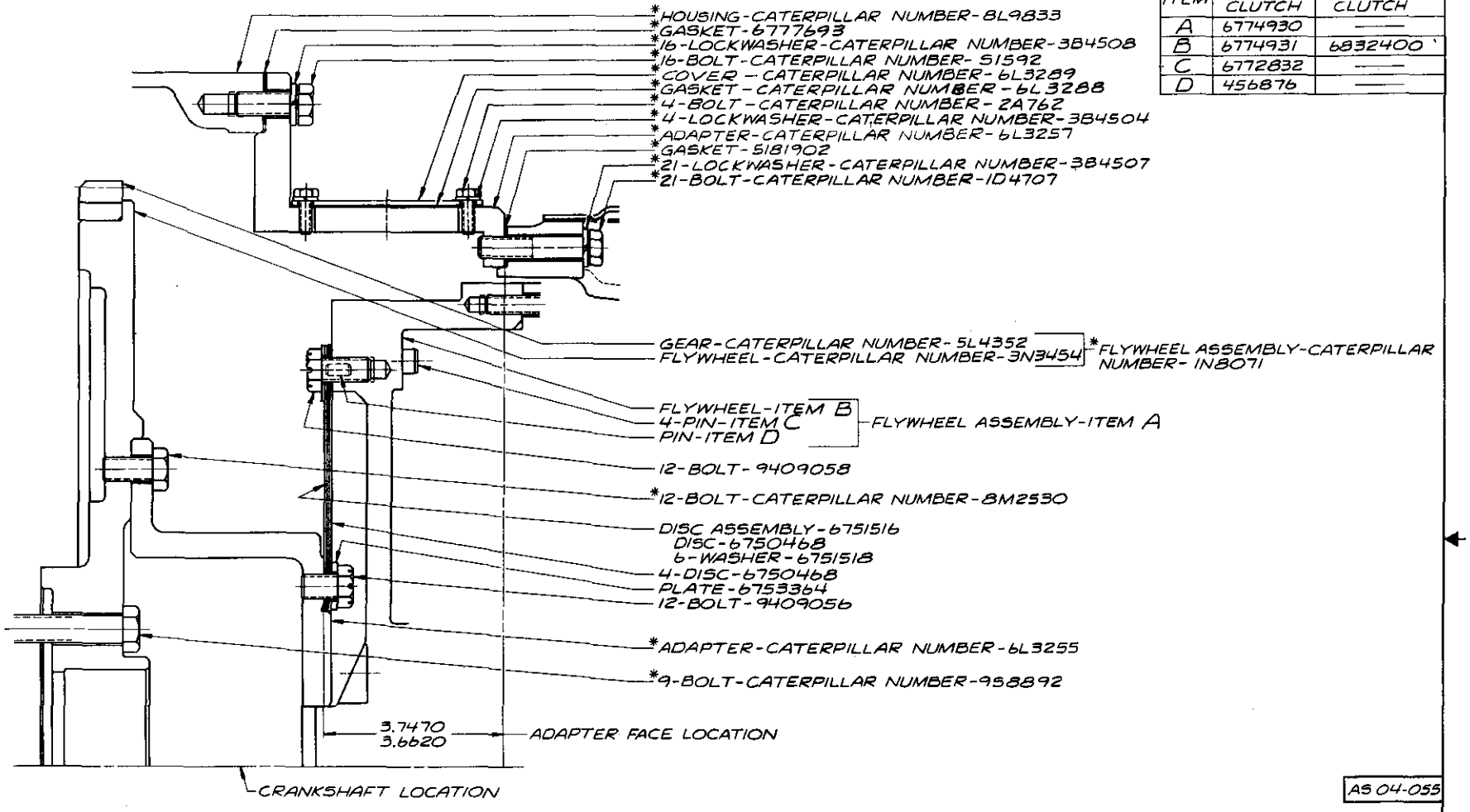
MODEL 500 SERIES CONVERTER AS04-054

ALLISON DIVISION · GENERAL MOTORS CORPORATION · INDIANAPOLIS, INDIANA

REF. AS04-036

06-065,069,092 & 07-002,021

ITEM	LOCKUP CLUTCH	NO LOCKUP CLUTCH
A	6774930	——
B	6774931	6832400
C	6772832	——
D	456876	——



AS 04-055

ENGINE FLYWHEEL HOUSING EXTERNAL DRAIN LINE REQUIRED
FOR INFORMATION, CONTACT THE ALLISON TRANSMISSION APPLICATIONS ENGINEERING DEPARTMENT

THIS DRAWING ILLUSTRATES DESIGN STATUS ONLY
AVAILABILITY OF PARTS MUST BE OBTAINED FROM DETROIT DIESEL ALLISON SALES AND THE ENGINE MANUFACTURER

FOR ENGINES FROM 6281 THRU 62B3643 USE FLYWHEEL GROUP 6L3256 AND FLYWHEEL HOUSING 4L3791

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE DRAWING — AS 00-001

* DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY

FOR TRANSMISSION INSTALLATION DATA NOT SHOWN SEE BASIC INSTALLATION DRAWING — AS 58-029 FOR 5860, 5960, AND 6061
AS 58-031 FOR 5860 AND 5960

CHANGES				
F	1-24-74	ADDED ACCESS COVER PART NO.	EJB	
E	12-3-75	REVISED AND REDRAWN ADD FLYWHEEL & BOLTS	DM/MC	

DRAWN	CHECKED	CHF DRAFTSMAN
SWEANY 10-28-64	E.B.D. 11-10-64	BETHER 11-10-64
SCALE FULL	PROJ ENGR	APPL ENGR DR/EN 11-2-64

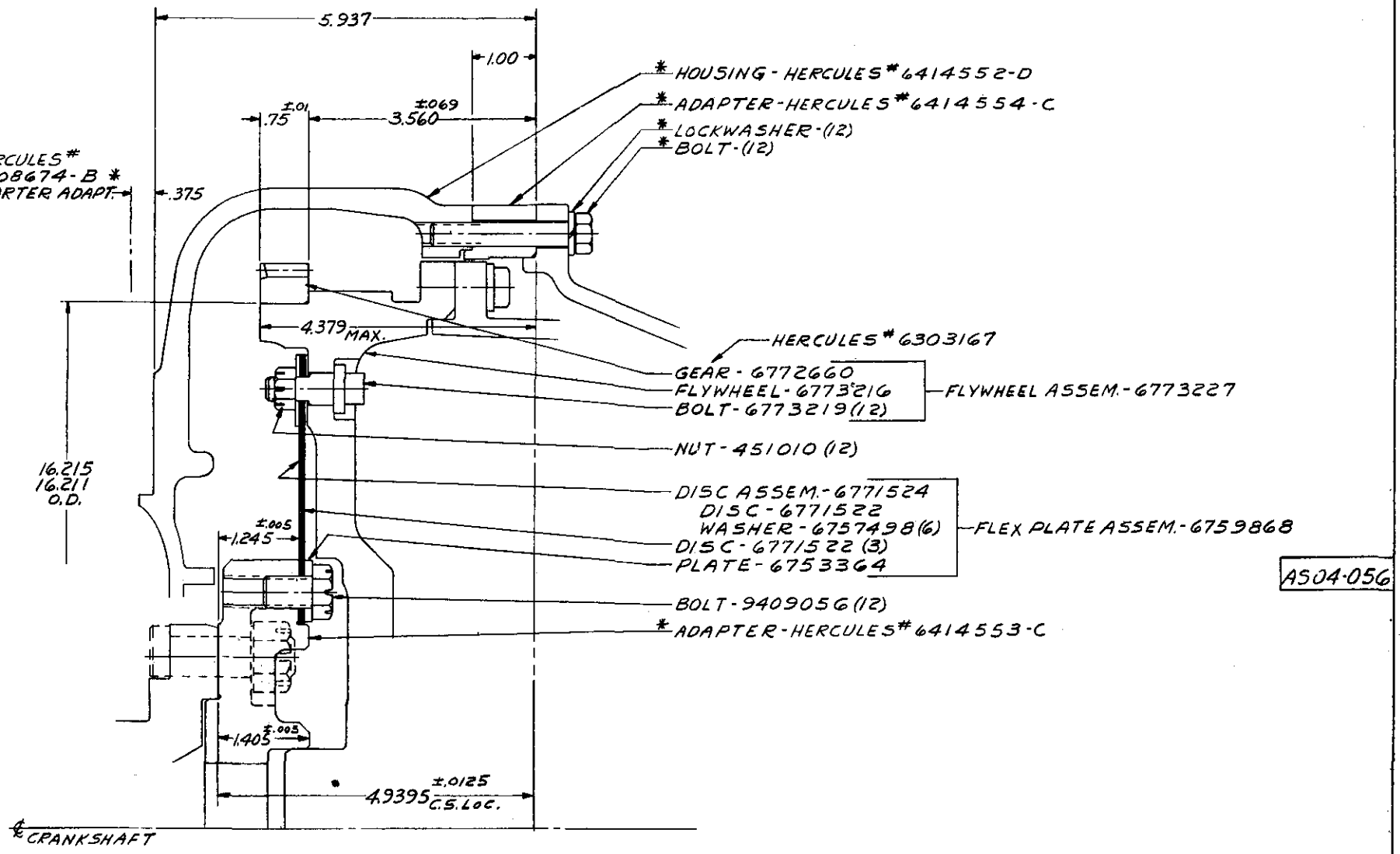
Allison Transmissions

TITLE: CATERPILLAR D 345 PHYSICAL ADAPTATION

MODEL CLBT-5860 | AS 04-055

Detroit Diesel Allison Division of General Motors - Indianapolis, Indiana

FORM B202-5



AS04-056

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE DWG. AS00-001

BASIC INSTALLATION DWG. AS 34-004

* DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY.

REF. HERCULES # A-16419

76-029

DRAWN	SNEANY 7-7-65	MATERIAL	DIS 12-15-65	
TRACED		CHECKED		
SCALE	FULL	ENGINEER APPROVAL		

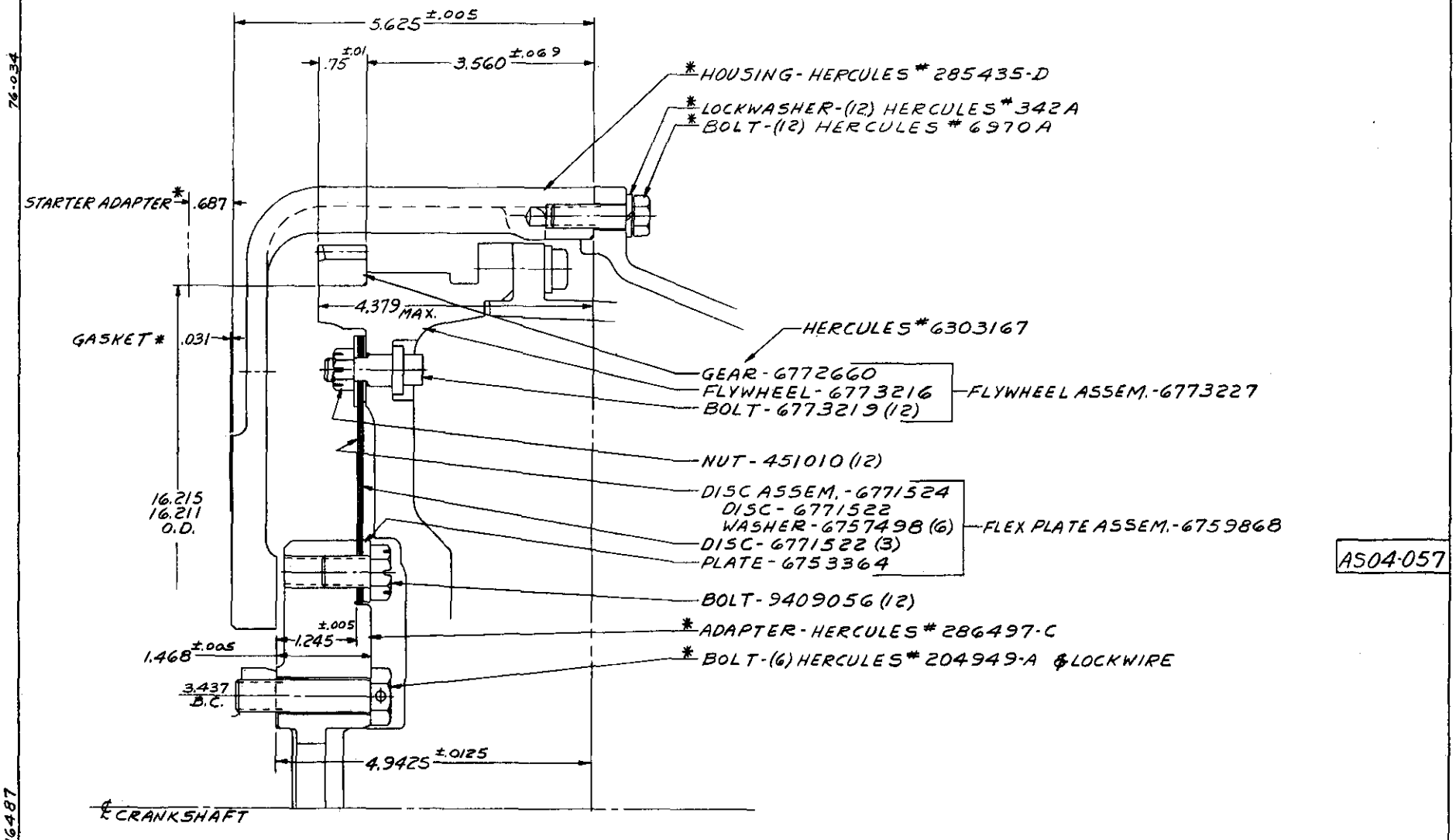
GM GENERAL MOTORS

Allison TORQMATIC Drives

TITLE: HERCULES "HS-590" PHYSICAL ADAPT.

MODEL CT-3341 & 3441 | AS04-056

ALLISON DIVISION · GENERAL MOTORS CORPORATION · INDIANAPOLIS, INDIANA



AS04-057

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE DWG. AS00-001

BASIC INSTALLATION DWG. AS 34-004

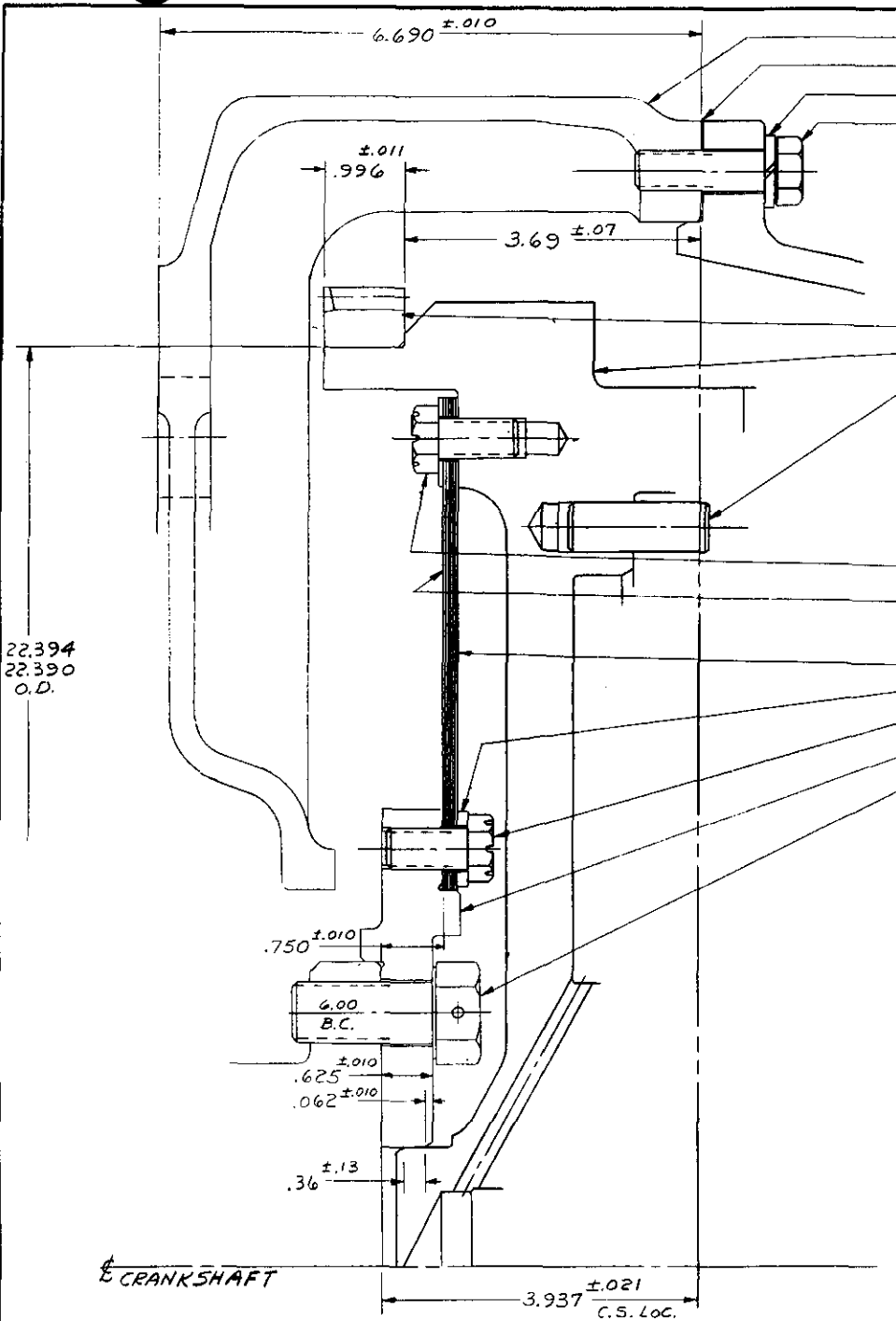
* DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY.

DRAWN SWEANY 7-18-63	CHECKED HARPER 12-19-63	DWG. CLASSIFICATION RTS 74262	TITLE: "G-339 & HERCULES G-3400" PHYSICAL ADAPT.		
CHG	SCALE FULL	PROJ. ENGR. ROBINSON 12-12-63	APPL. ENGR.	MODEL CT-3341 & 3441	AS04-057

ALLISON DIVISION - GENERAL MOTORS CORPORATION - INDIANAPOLIS, INDIANA

76-034

REF. HERCULES # A-16487



* HOUSING - CUMMINS # 179869
* GASKET - 6777693
* LOCKWASHER - (16) 103323 (REF.)
* BOLT - (16) 179887 (REF.)

CUMMINS # ITEM "D"
GEAR - ITEM "C"
FLYWHEEL - ITEM "B"
DOWEL - (8) 6776328
FLYWHEEL ASSEM. - ITEM "A"

BOLT (12) 9409058
DISC ASSEM. - 6778661
DISC - 6778662
WASHER (6) 6778663
CUMMINS # 179871
DISC (5) 6778662
PLATE - 6777689 - (CUMMINS # 179872)
BOLT (12) 9409058 - (CUMMINS # 118312)
* ADAPTER - CUMMINS # 179870
* BOLT (6) CUMMINS # 67479-B
CUMMINS # 179873

ITEM	DP-8860 DP-8861	DP-8960 DP-8961
A	6777712	6830667
B	6778849	6830666
C	6778693	6778693
D	124507	124507

AS04-059

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE DWG. AS00-021

BASIC INSTALLATION DWG. AS80-001

* DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY

NOTE:
THIS DRAWING ILLUSTRATES DESIGN STATUS ONLY. PARTS AVAILABILITY MUST BE OBTAINED FROM ALLISON SALES AND THE ENGINE MFR

REF. CUMMINS LAYOUT # 177221

CHANGES			
J			
H			
G			
F			
E			
D			
C	2-7-74	REV TITLE	BM
X B	11-4-71	ADD * TO 6777693	WJ HC
A	MAR 69	ADDED DP-8861 AND NOTE	JO HC

DRAWN	CHECKED	CHF. DRAFTSMAN
SWEANY	DORAN	Batiuk
1-26-65	3-4-63	3-4-65
SCALE	PROJ. ENGR.	APPL. ENGR.
FULL	E.R.C.	E.P.W.
	3-2-65	3-2-65

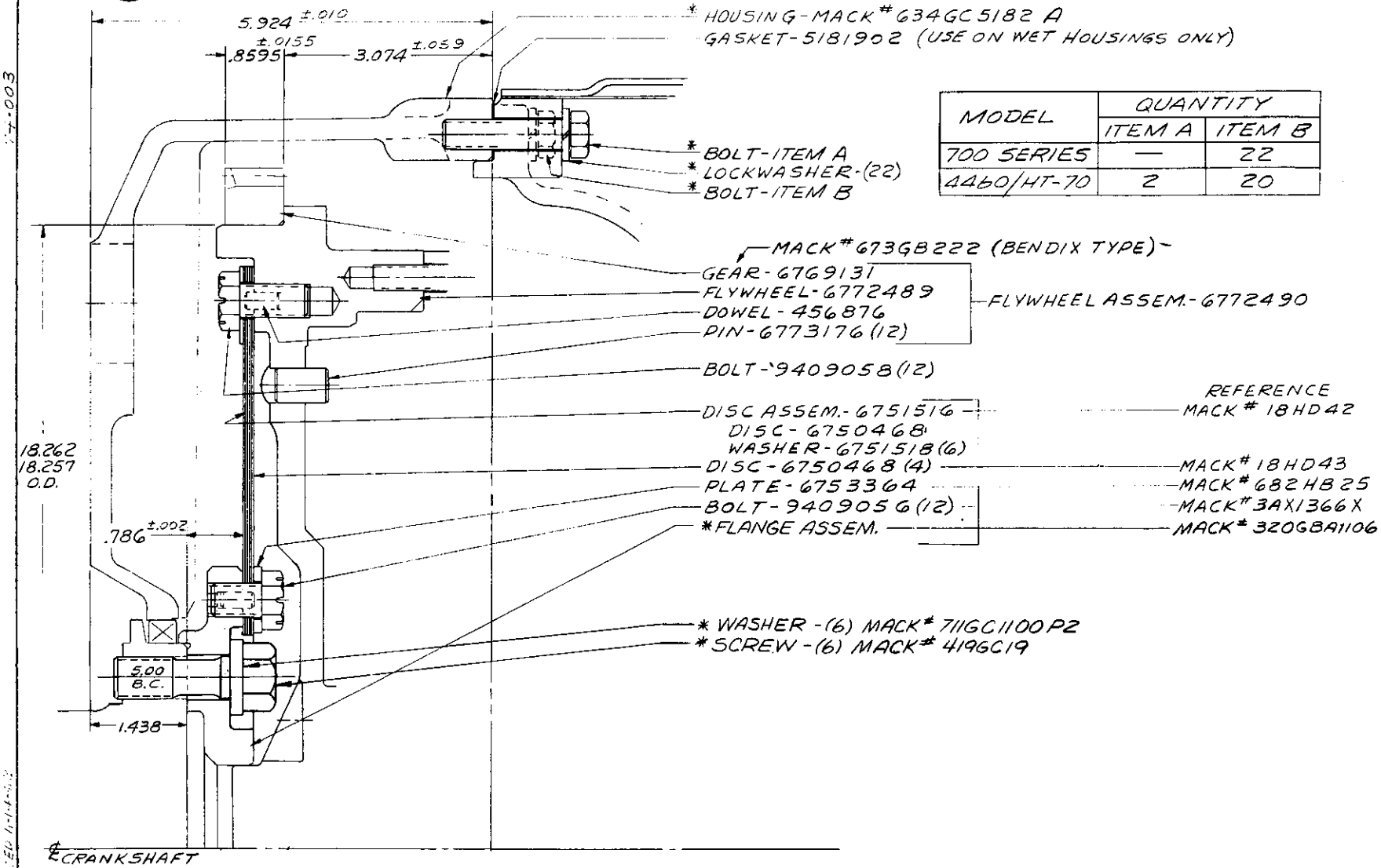
GM GENERAL MOTORS

Allison TORQMATIC Drives

TITLE: CUMMINS VT12-700 PHYSICAL ADAPTATION (PHASE I ENGINES ONLY)

MODEL DP-8000 AS04-059

ALLISON DIVISION · GENERAL MOTORS CORPORATION · INDIANAPOLIS, INDIANA



MODEL	QUANTITY	
	ITEM A	ITEM B
700 SERIES	—	22
4460/HT-70	2	20

AS04-060

NOTE : THIS DRAWING ILLUSTRATES DESIGN STATUS ONLY. AVAILABILITY OF PARTS MUST BE OBTAINED FROM DETROIT DIESEL ALLISON SALES AND THE ENGINE MANUFACTURER

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE DWG. AS00-001

BASIC INSTALLATION DWG.
HT-70 AS40-001
4460 AS44-001 & AS44-005
700 SERIES AS45-030, AS45-031 OR AS45-032

* DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY.

CHANGES				
J				
H				
G				
F				
E				
D				
C				
B	2-19-74	ADD STATUS NOTE & CHART	H	HH
A	3-6-72	SEE REV. NOTICE	WL	HH

DRAWN	CHECKED	CHF. DRAFTSMAN
SWEANY 7-22-63	HIGGINS 4-6-64	R.T.S. 4-6-64
SCALE FULL	PROJ. ENGR. ROBINSON 11-13-63	APPL. ENGR. WELCHER 11-14-63

CHG ✓

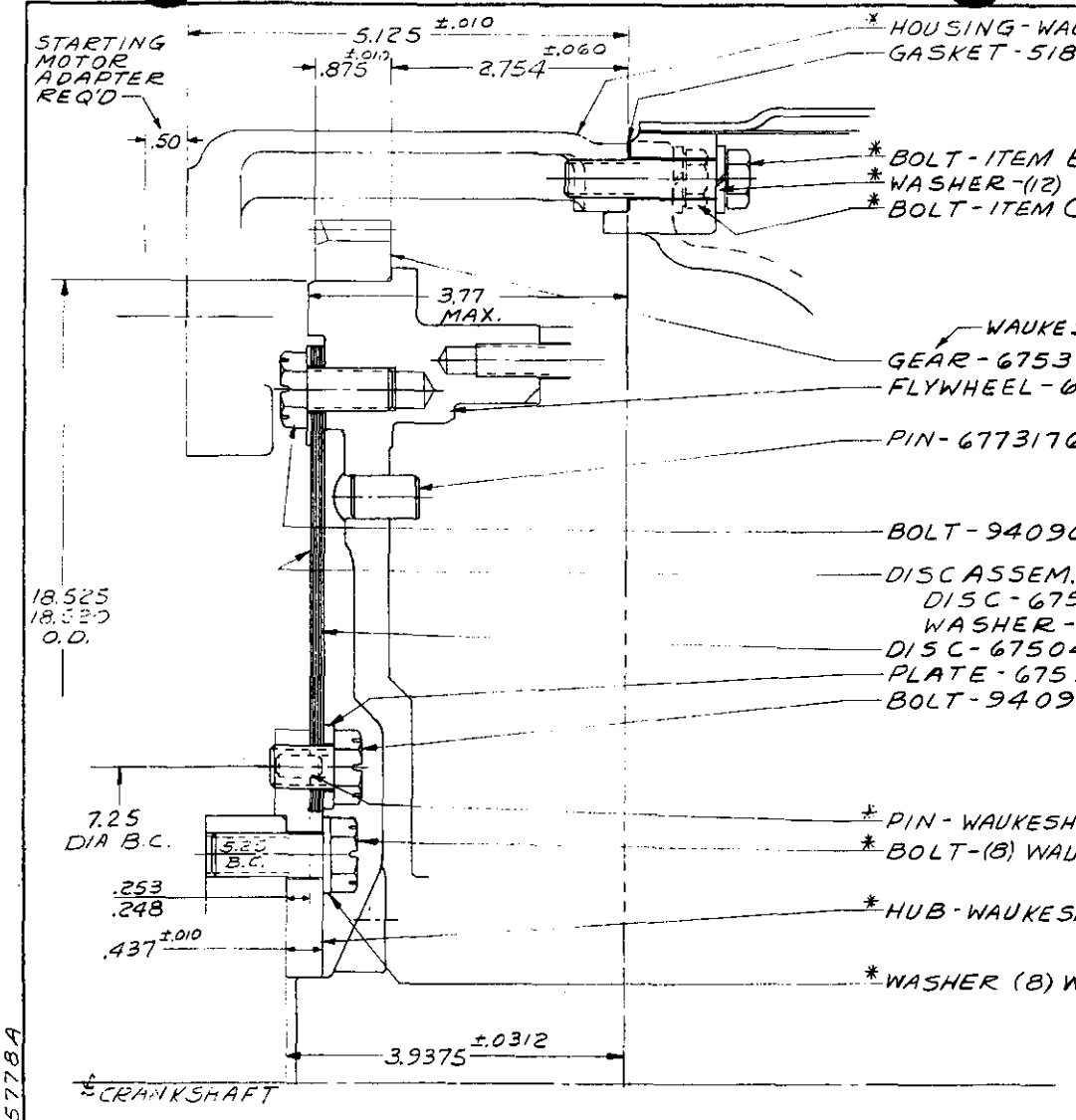
GM GENERAL MOTORS

Allison TORQMATIC Drives

TITLE: MACK END (T) 673 AND 675 AND MACK ENDT 707 AND 711 PHYSICAL ADAPT.

MODEL 700 SERIES AND 4460/HT-70 AS04-060

ALLISON DIVISION · GENERAL MOTORS CORPORATION · INDIANAPOLIS, INDIANA



MODEL	QUANTITY		
	ITEM A	ITEM B	ITEM C
700 SERIES	—	—	12
4460/HT-70	1	1	11

AS 04-062

NOTE:
THIS DRAWING ILLUSTRATES DESIGN STATUS ONLY. AVAILABILITY OF THESE PARTS MUST BE OBTAINED FROM DETROIT DIESEL ALLISON SALES AND THE ENGINE MANUFACTURER

BASIC INSTALLATION DWG.
4460 - AS 44-001 OR AS 44-005
HT-70 - AS 40-001
700 SERIES - AS 45-030, AS 45-031 OR AS 45-032

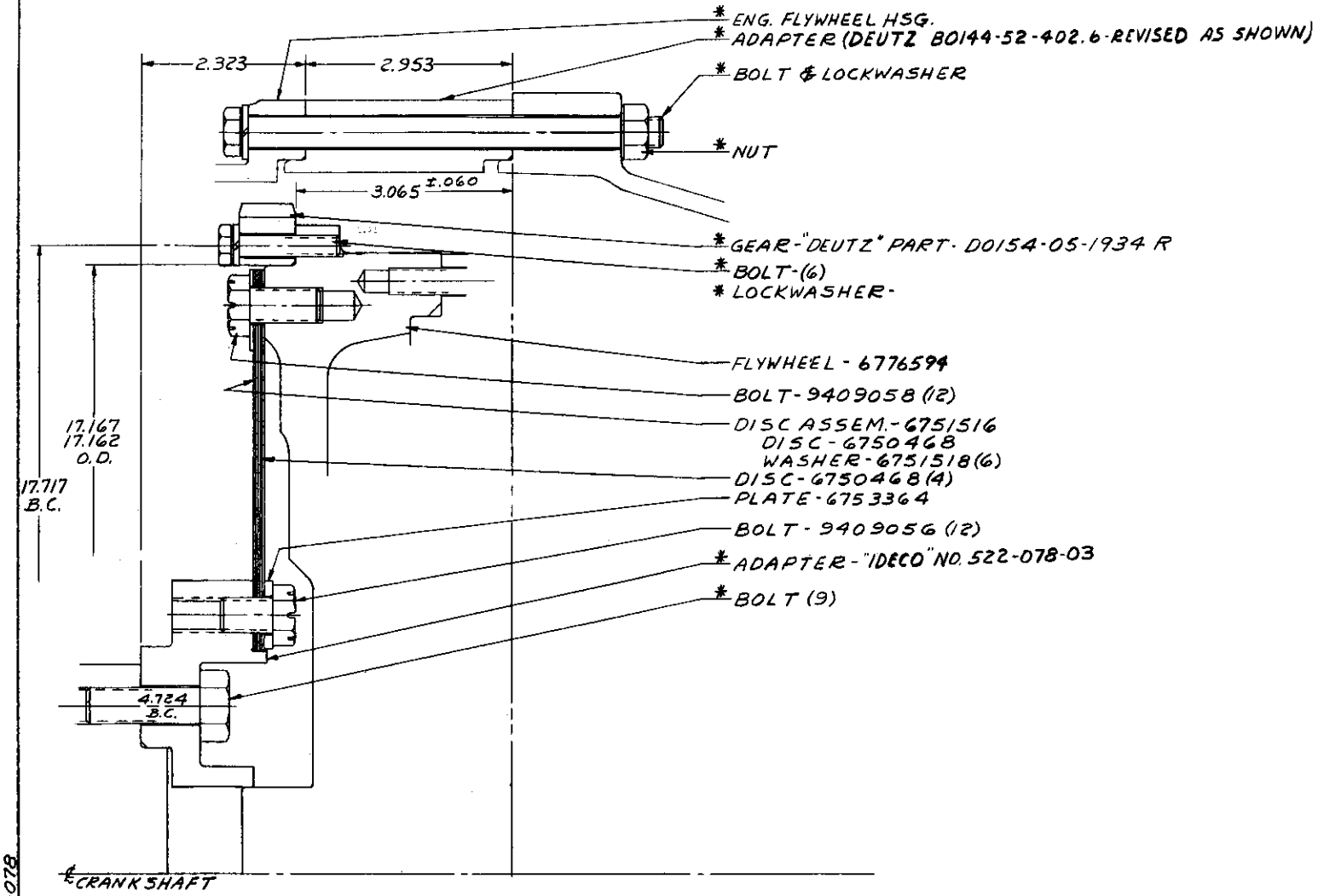
FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE DWG AS 00-001

* DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY.

CHANGES				
J				
H				
G				
F				
E				
D				
C				
B				
A	2-19-74	WAS 456876, ADD CHART	D/H	HH

DRAWN	CHECKED	CHIEF DRAFTSMAN	TITLE: WAUKESHA "F817GU" PHYSICAL ADAPT.
SWEENY 9-6-65	A.S. HARPER 8-20-65	@ ALLIS 8-20-65	MODEL 700 SERIES AND 4460/HT-70 AS 04-062
SCALE FULL	PROJ. ENGR. ROGINSON 8-11-65	APPL. ENGR.	ALLISON DIVISION · GENERAL MOTORS CORPORATION · INDIANAPOLIS, INDIANA

REF WAUKESHA LAYOUT L57784



AS04-064

NOTE: THIS DRAWING ILLUSTRATES DESIGN STATUS ONLY PARTS AVAILABILITY MUST BE OBTAINED FROM ALLISON SALES AND THE ENGINE MFR.

FOR CONVERTER DRIVE DATA NOT SHOWN SEE DWG. AS00-001

BASIC INSTALLATION DWG. AS51-003

* DENOTES PARTS NOT SUPPLIED WITH CONVERTER ASSEMBLY.

REF. "IDECO" LAYOUT # 4-522-078

CHANGES					
J					
H					
G					
F					
E					
D					
C					
B					
A	11-16-65	SEE REV. AS04-064	DH	ERA	

DRAWN	ENGINEER	ENGINEERING SUPERVISION
SWEANY 10-10-63	HARPER 12-18-63	BJS 12-19-63
SCALE FULL	PROJ. ENGR. ROBINSON 11-11-63	APPL. ENGR.

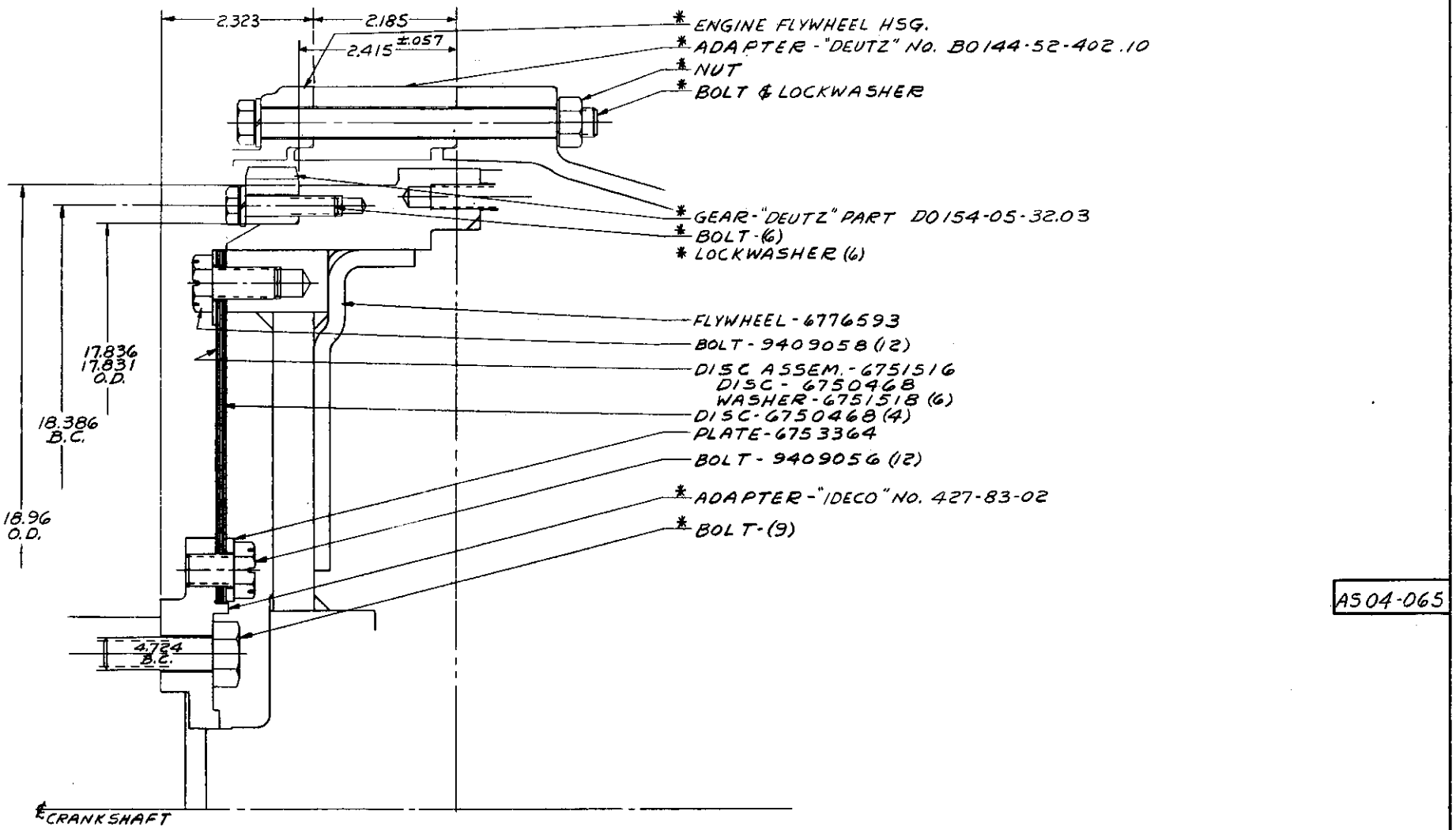
GM GENERAL MOTORS

Allison TORQMATIC Drives

TITLE: DEUTZ "F8L 714" PHYSICAL ADAPT.

MODEL TC-400 AS04-064

ALLISON DIVISION · GENERAL MOTORS CORPORATION · INDIANAPOLIS, INDIANA



AS04-065

FOR CONVERTER DRIVE DATA NOT SHOWN SEE DWG. AS 00-001

BASIC INSTALLATION DWG. AS51-003

*DENOTES PARTS NOT SUPPLIED WITH CONVERTER ASSEMBLY.

REF. "IDECO" LAYOUT # 4-522-079

DRAWN	SWEANY 10-11-63	CHECKED	HARPER 12-18-63
SCALE	FULL	PROJ. ENGR.	ROBINSON 11-11-63
CHG	1		

GM GENERAL MOTORS

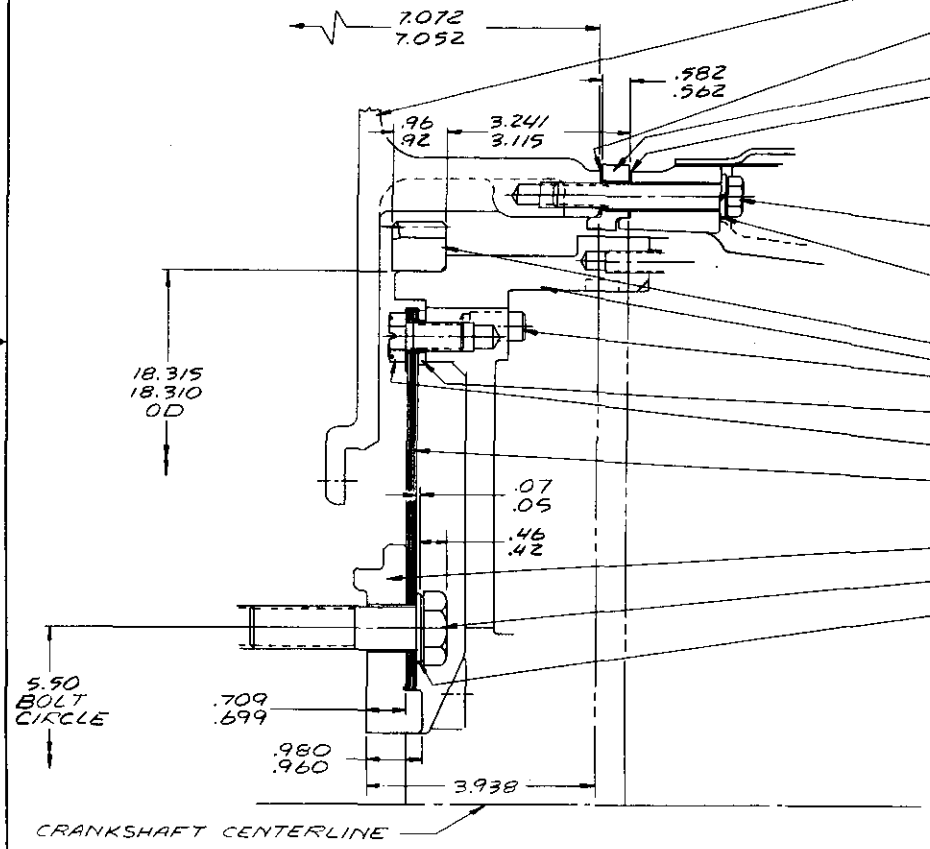
Allison TORQMATIC Drives

TITLE: DEUTZ F12L 714 PHYSICAL ADAPT.

MODEL TC-500 AS04-065.

ALLISON DIVISION - GENERAL MOTORS CORPORATION - INDIANAPOLIS, INDIANA

ITEM	ENGINE SERIAL NUMBERS							
	65B1 TO 65B486	QTY	65B487 TO 65B781	QTY	65B782 TO 65B2917	QTY	65B2918 TO 65B ——	QTY
A	9L2779	1	9L2779	1	9L5140	1	——	—
B	——	—	——	—	1D4556	19	1D4556	19
C	4F5192	21	4F5192	21	4F5192	2	4F5192	2
D	5L8303	1	2N549	1	9L5552	1	9L555 2	1
E	——	—	——	—	——	—	——	—
F	5L8290	1	9L5060	1	9L5060	1	9L5060	1
G	9L2758	9	459364	9	459364	9	459364	9
H	2M5916	3	2N546	1	2N546	1	2N546	1
J	—	—	9L5238	6	——	—	——	—



*HOUSING — CATERPILLAR NUMBER ITEM A

CATERPILLAR NUMBER 9L2777
*GASKET — 5181902
CATERPILLAR NUMBER 9L2778
ADAPTER — 6778056
GASKET — 5181902
CATERPILLAR NUMBER 9L2777
— MUST ASSEMBLE TO TRANSMISSION PRIOR TO ASSEMBLY OF FLYWHEEL ASSEMBLY

*BOLT — CATERPILLAR NUMBER ITEM B
*BOLT — CATERPILLAR NUMBER ITEM C
*LOCKWASHER — CATERPILLAR NUMBER 3B4507

CATERPILLAR NUMBER 8M6754
GEAR — 6778055
FLYWHEEL — 6778054
4 — PIN — 6772832
— FLYWHEEL ASSEMBLY — 6778053

*WASHER — CATERPILLAR NUMBER ITEM J
12 — BOLT — 9409058
*FLEXPLATE ASSEMBLY CATERPILLAR NUMBER ITEM D
INSTALL PLATE WITH .188 THICK WELDED SPACER TOWARD TRANSMISSION
*ADAPTER — CATERPILLAR NUMBER ITEM F
*BOLT — CATERPILLAR NUMBER ITEM G
*WASHER — CATERPILLAR NUMBER ITEM H

AS04-066

FOR TRANSMISSION INSTALLATION DATA NOT SHOWN SEE BASIC INSTALLATION DRAWING — AS 58-029 OR AS 58-031

THIS DRAWING ILLUSTRATES DESIGN STATUS ONLY. AVAILABILITY OF PARTS MUST BE OBTAINED FROM DETROIT DIESEL ALLISON SALES AND THE ENGINE MANUFACTURER

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE DRAWING — AS 00-001

* DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY

CHANGES

DRAWN	CHECKED	CHF DRAFTSMAN
SWEANY	HIGGINS	BETNER
9-21-64	11-30-65	11-30-65
SCALE	PROJ. ENGR.	APPL. ENGR.
FULL		R.C. BENSON 11-30-65

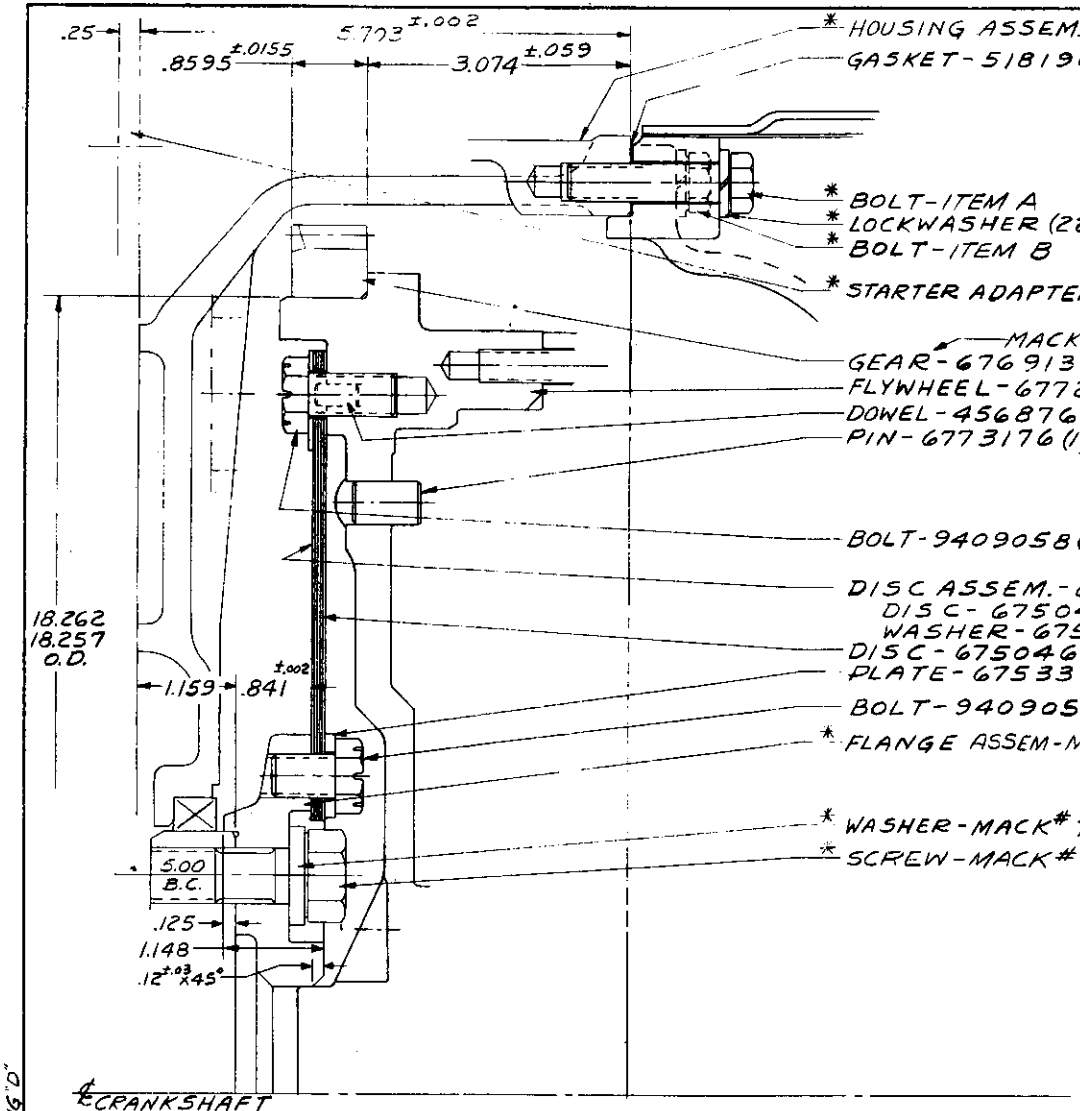
Allison Transmissions

TITLE CATERPILLAR 1693 PHYSICAL ADAPTATION

MODEL 5000-6000 SERIES TRANSMISSION AS04-066

Detroit Diesel Allison Division of General Motors · Indianapolis, Indiana

FORM 82128



* HOUSING ASSEM. - MACK # 634GC4126
GASKET - 5181902 (USE ON WET HOUSINGS ONLY)

MODEL	QUANTITY	
	ITEM A	ITEM B
700 SERIES	—	22
4460/HT-70	2	20

* BOLT - ITEM A
* LOCKWASHER (22)
* BOLT - ITEM B
* STARTER ADAPTER - MACK # 30GB235
MACK # 673GB222 (BENDIX TYPE)
GEAR - 6769131
FLYWHEEL - 6772489
DOWEL - 456876
PIN - 6773176 (12)
FLYWHEEL ASSEM. - 6772490
BOLT - 9409058 (12)
DISC ASSEM. - 6751516 — * MACK # 18HD42
DISC - 6750468
WASHER - 6751518 (6)
DISC - 6750468 (4) — * MACK # 18HD43
PLATE - 6753364 — * MACK # 682HB25
BOLT - 9409056 (12) — * MACK # 3AX13GGX
* FLANGE ASSEM - MACK # 320GBA1107
* WASHER - MACK # 711GC1100P9 (6)
* SCREW - MACK # 419GC19 (6)

REFERENCE

AS 04-068

NOTE:
THIS DRAWING ILLUSTRATES DESIGN STATUS ONLY.
AVAILABILITY OF PARTS MUST BE OBTAINED FROM DETROIT DIESEL ALLISON SALES AND THE ENGINE MANUFACTURER

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE DWG. AS 00-001

BASIC INSTALLATION DRAWING
700 SERIES - AS 45-030, AS 45-031 OR AS 45-033
4460/HT-70 - AS 44-001 OR AS 44-005

* DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY.

CHANGES				
J				
H				
G				
F				
E				
D				
C	1-3-74	SEE REV NOTICE	PN	WC
X B	2-19-74	ADD STATUS NOTE & CHART	PH	HH
X A	9-8-72	SEE REV NOTICE	WL	HH

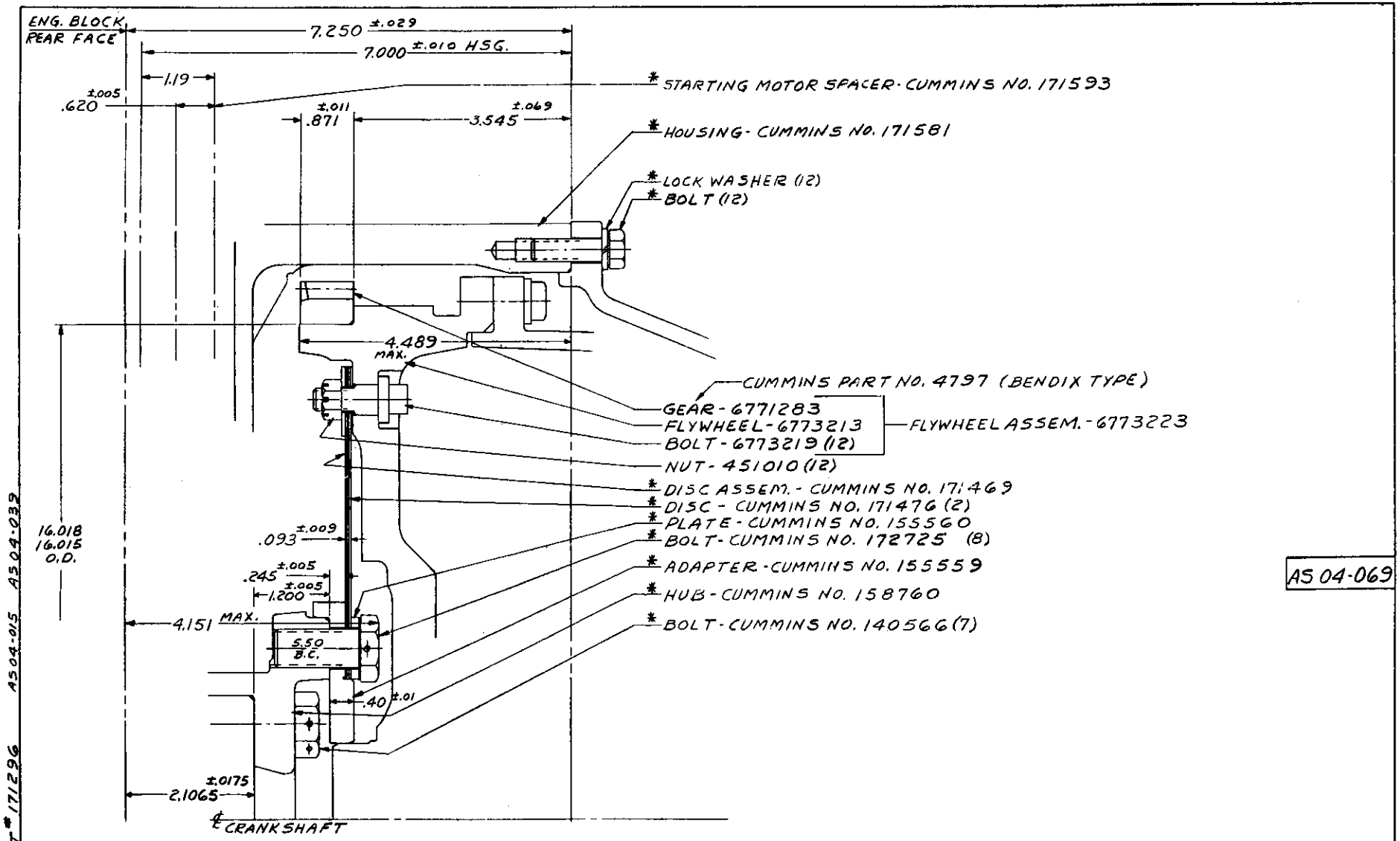
DRAWN	CHECKED	GM ENGINEERING
SWEANY	HIGGINS	BTS
1-6-64	4-30-64	4-29-64
SCALE	PROJ. ENGR.	APPL. ENGR.
FULL	ROBINSON	WELCHER

GM GENERAL MOTORS
Allison TORQMATIC Drives

TITLE: MACK END (T) 864, 865 AND 866 PHYSICAL ADAPTATION

MODEL 700 SERIES AND 4460/HT-70 | AS 04-068

REF. MACK # 12HBL4236 CHG "D"



AS 04-069

BASIC INSTALLATION DWG. AS 34-002 OR AS 34-004

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE DWG. AS 00-001

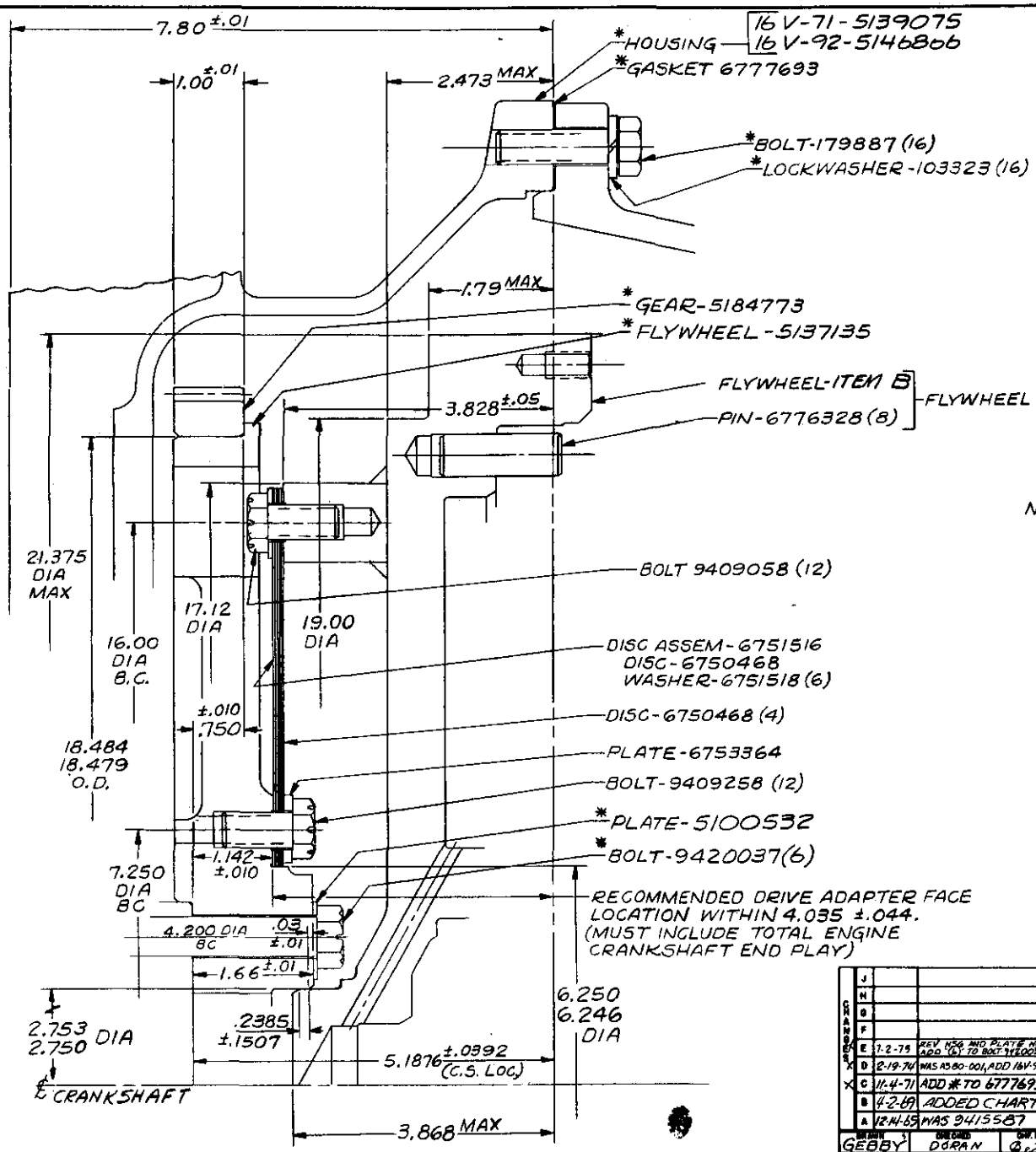
* DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY.

REF. CUMMINS LAYOUT # 171296 AS 04-015 AS 04-039

DRAWN SWEANY 12-5-63	CHECKED M. BIGGINS 5-21-64	ENG. APPROVAL PTS 5-21-64	TITLE: CUMMINS "V6-200" PHYSICAL ADAPT.
SCALE FULL	ENG. DEPT. ROBINSON 5-12-64	APPL. ENGR. HEFLICHER 5-12-64	MODEL CT-3341 AS 04-069

ALLISON DIVISION · GENERAL MOTORS CORPORATION · INDIANAPOLIS, INDIANA

ITEM	DP-8860 DP-8861	DP-8960 DP-8961
A	6778659	6834697
B	6778658	6834698



NOTE:
THIS DRAWING ILLUSTRATES DESIGN STATUS ONLY.
AVAILABILITY OF PARTS MUST BE OBTAINED FROM DETROIT DIESEL ALLISON SALES AND THE ENGINE MANUFACTURER

AS04-070

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE DWG. AS00-021

BASIC INSTALLATION DWG. AS80-015

*DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY.

CHANGES				
J				
H				
G				
F				
E	1-2-79	REV. MSG AND PLATE NO. ADD "G" TO BOLT 9420037	BR	HE
D	2-19-74	WAS A580-001, ADD 16V-92	DH	HH
C	11-4-71	ADD * TO 6777693	DH	HB
B	4-2-69	ADDED CHART	DH	HC
A	12-14-65	WAS 9415587	DH	HD

DRAWN	CHECKED	ENGR. SUPERVISION
GEBBY	DORAN	
1-18-65	1-29-65	2-1-65
SCALE	PROJ. ENGR.	APPL. ENGR.
FULL	ROBINSON 1-29-65	WELCHER

GM GENERAL MOTORS

Allison TORQMATIC Drives

TITLE: DETROIT DIESEL 16V-71 AND 16V-92 PHYSICAL ADAPTATION

MODEL DP-8000 AS04-070

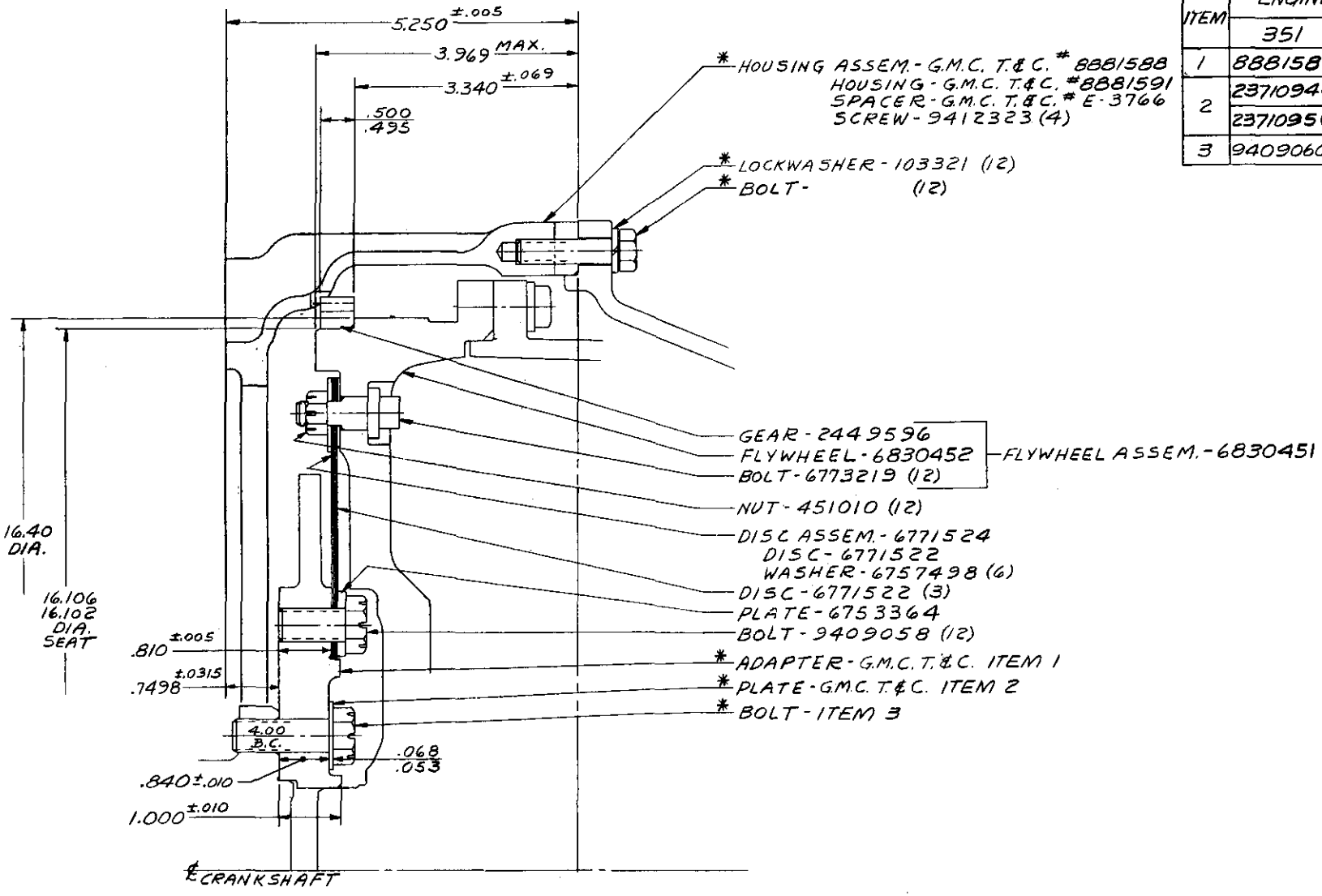
ALLISON DIVISION-GENERAL MOTORS CORPORATION-INDIANAPOLIS, INDIANA

P-A

REF XAS 04-070

FORM 1046-C REV. 2-68

ITEM	ENGINE MODEL	
	351	D478
1	8881589	
2	2371094(1)	2425259(1)
	2371095(2)	2425260(3)
3	9409060(6)	9409060(8)



AS04-071

NOTE:
THIS DRAWING ILLUSTRATES DESIGN STATUS ONLY

AVAILABILITY OF PARTS MUST BE OBTAINED FROM ALLISON SALES AND THE ENGINE MFR.

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE DRAWING AS00-001

BASIC INSTALLATION DRAWING AS34-002 OR AS34-004

* DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY

REF. G.M.C. T.&C. # 5K-806

CHANGES			
J			
H			
G			
F			
E			
D			
C			
B			
A			

DRAWN	CHECKED	ENGR. APPROVAL
SWEANY 7-14-64	ERD 9-27-65	Betner 9-27-65
SCALE FULL	PROJ. ENGR.	APPL. ENGR. Robinson 9-20-65

CHG ✓

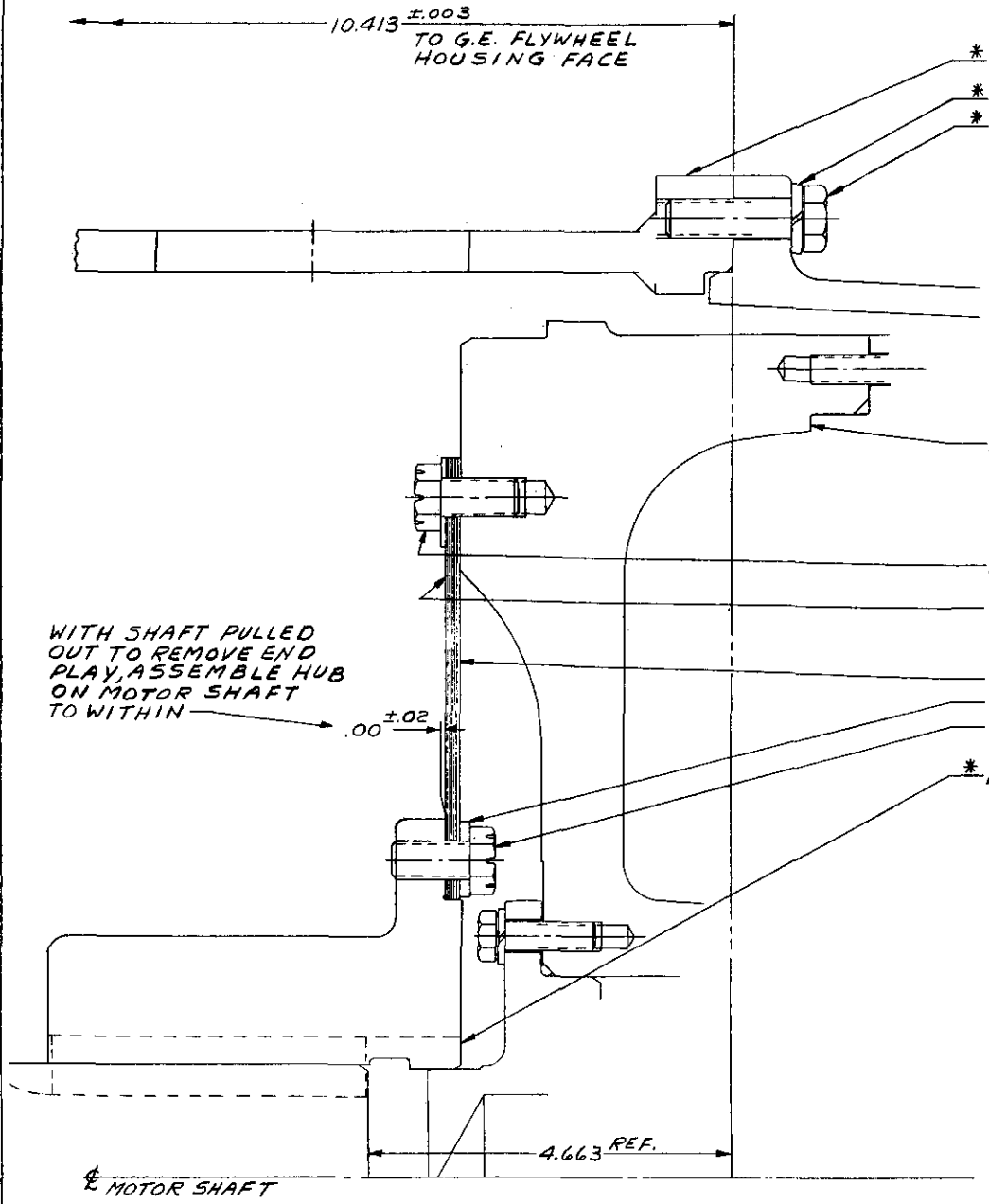
GM GENERAL MOTORS

Allison TORQMATIC Drives

TITLE: G.M.C. "351" AND "D478" PHYSICAL ADAPTATION

MODEL CT-3441 AS04-071

ALLISON DIVISION - GENERAL MOTORS CORPORATION - INDIANAPOLIS, INDIANA



AS04-072

FOR CONVERTER DRIVE DATA NOT SHOWN SEE DWG. AS 00-015

BASIC INSTALLATION DWG. AS81-004

*DENOTES PARTS NOT SUPPLIED WITH CONVERTER ASSEMBLY.

LPR # 480

REF. G.E. LAYOUT # 25-5-348

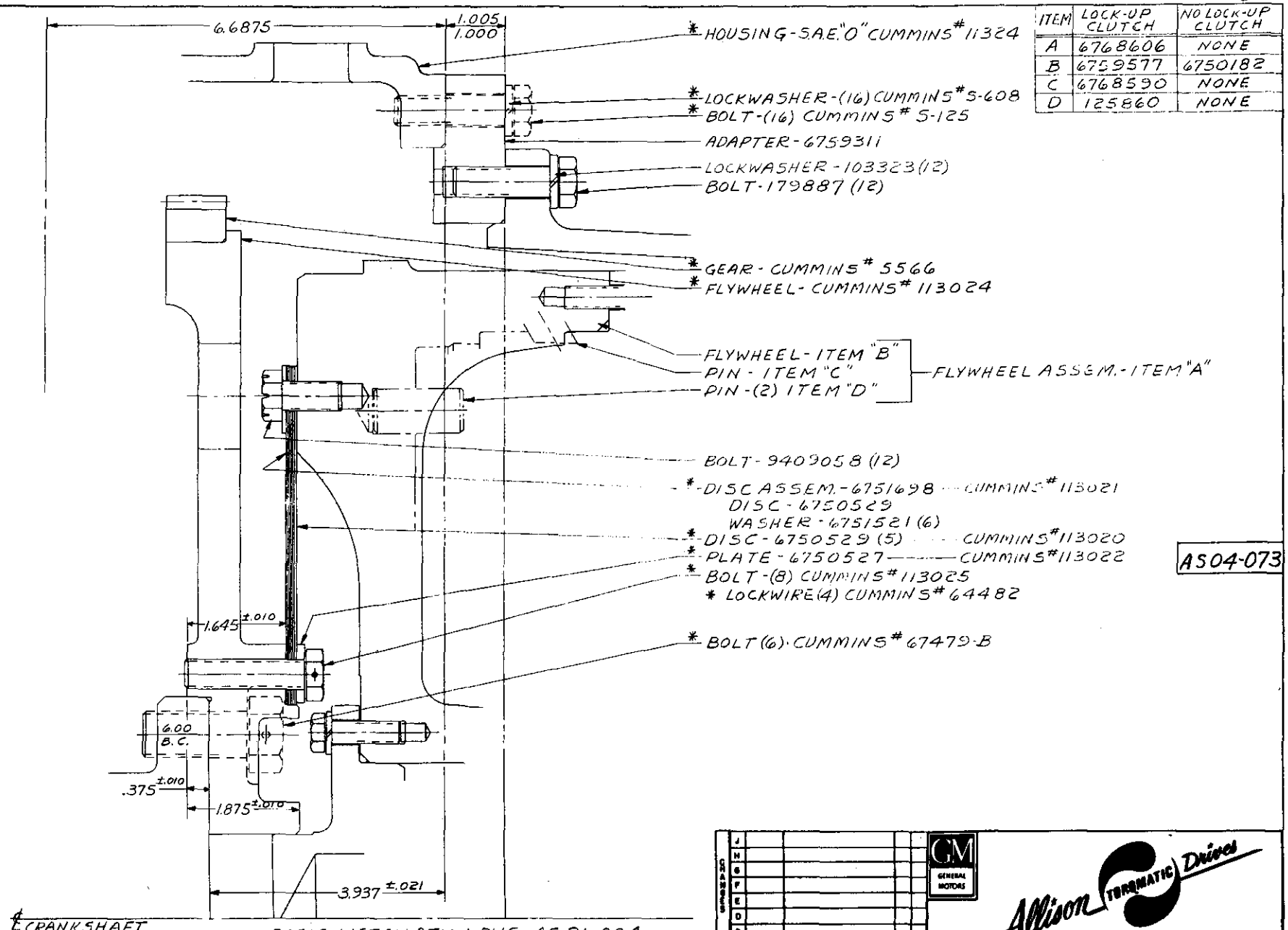
DRAWN SWEANY 10-29-64	CHECKED HARPER 12-2-64	CHF. DRAFTSMAN Barton 12-3-64	
CHG	SCALE FULL	PROJ. ENGR. ROBINSON 11-26-64	APPL. ENGR. WELCHER 11-30-64

GM GENERAL MOTORS — Allison TORQMATIC Drives

TITLE: G.E. 350 H.P. MOTOR PHYSICAL ADAPT.

MODEL TC-800 & 900 CONVERTER — AS04-072

ALLISON DIVISION - GENERAL MOTORS CORPORATION - INDIANAPOLIS, INDIANA



ITEM	LOCK-UP CLUTCH	NO LOCK-UP CLUTCH
A	6768606	NONE
B	6759577	6750182
C	6768590	NONE
D	125860	NONE

AS04-073

BASIC INSTALLATION DWG. AS81-004

FOR CONVERTER DRIVE DATA NOT SHOWN SEE DWG. AS00-015

* DENOTES PARTS NOT SUPPLIED WITH CONVERTER ASSEMBLY.

DRAWN SWEANY 7-14-64	CHECKED 8-4-64	GM DEPT. RTS B 8-4-64	
SCALE FULL	PROJ. ENGR. ROBINSON 7-28-64	APPL. ENGR. EW 7-28-64	

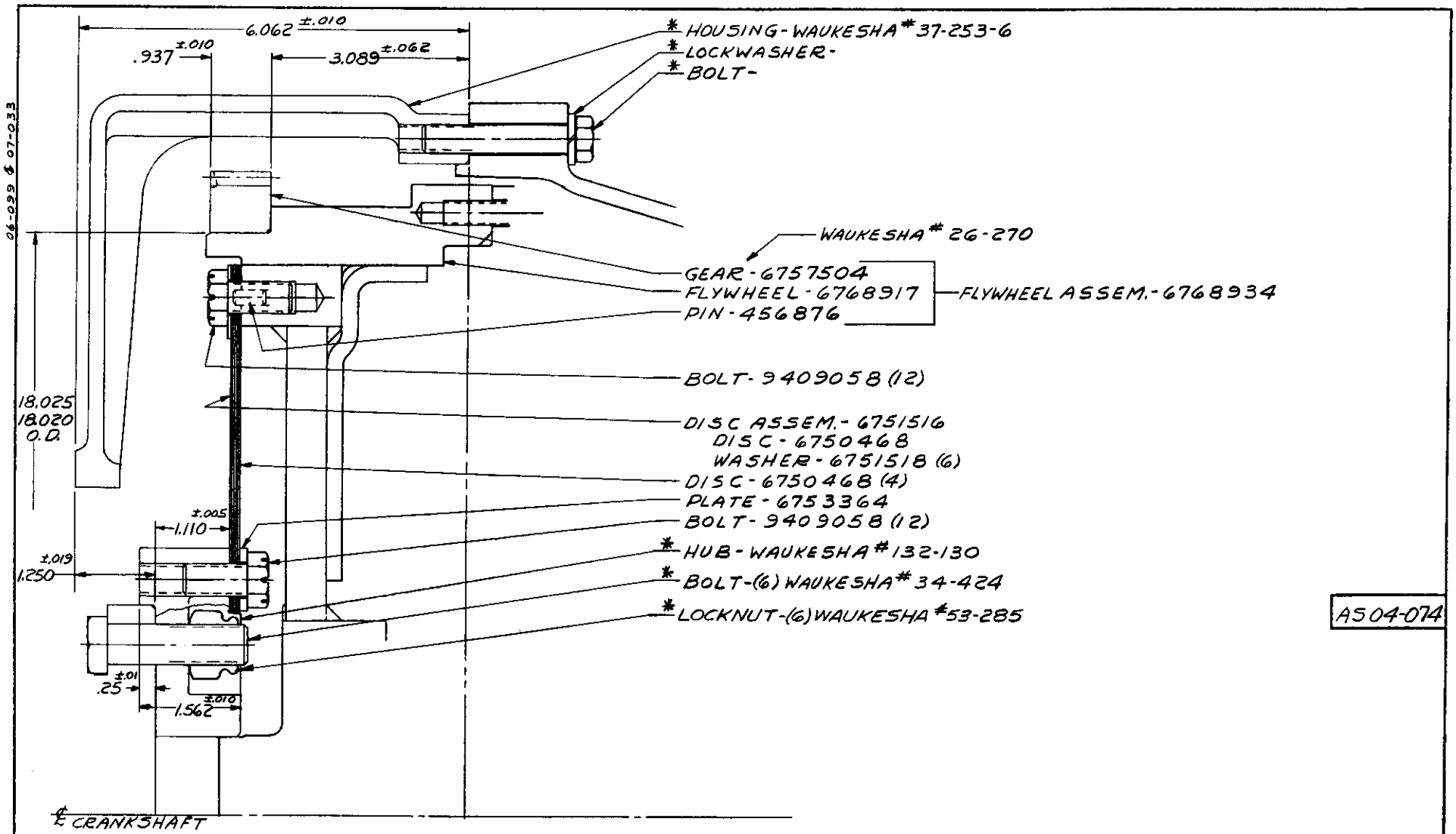
TITLE: CUMMINS "NVH" PHYSICAL ADAPT.

MODEL 800 & 900 SERIES CONVERTER AS04-073

ALLISON DIVISION · GENERAL MOTORS CORPORATION · INDIANAPOLIS, INDIANA

REF. CUMMINS# 113054

06-011-2088 07-026 04-059



AS04-074

NOTE:
THIS DRAWING ILLUSTRATES DESIGN STATUS ONLY. AVAILABILITY OF PARTS MUST BE OBTAINED FROM ALLISON SALES AND ENGINE MANUFACTURER

FOR CONVERTER DRIVE DATA NOT SHOWN SEE DWG. AS 00-001

BASIC INSTALLATION DWG. AS51-003

* DENOTES PARTS NOT SUPPLIED WITH CONVERTER ASSEMBLY.

SWEANY 6-25-64	EWH 8-7-64	BTSA 8-10-64
FULL	EW 6-24-64	ROBINSON 6-25-64

Allison TORQMATIC Drives

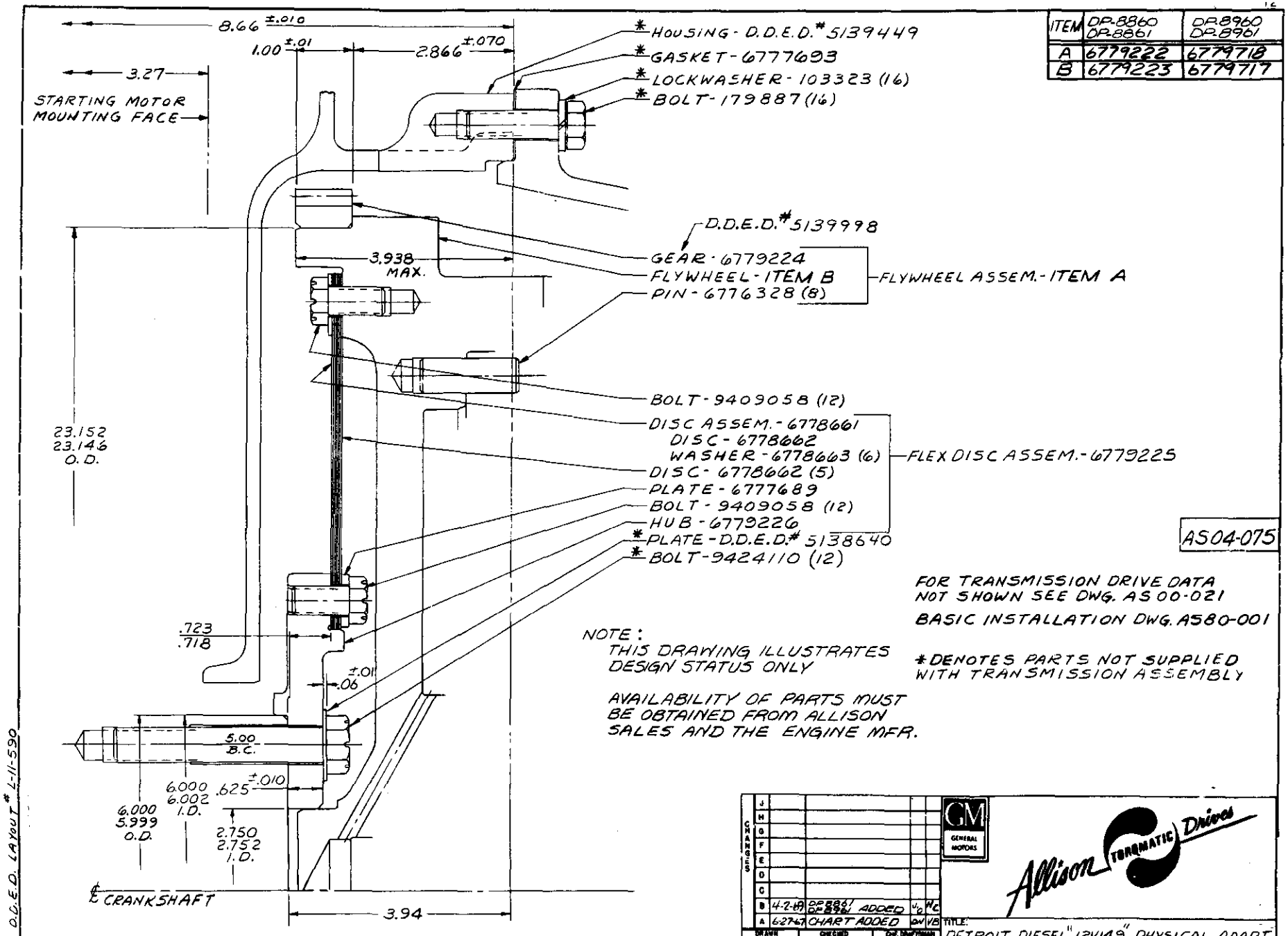
TITLE: WAUKESHA "H-844" PHYSICAL ADAPT.

MODEL TC-500 AS04-074

ALLISON DIVISION - GENERAL MOTORS CORPORATION - INDIANAPOLIS, INDIANA

REF. AS04-010

06-099 & 07-033



ITEM	DP-8860 DP-8861	DP-8960 DP-8961
A	6779222	6779718
B	6779223	6779717

AS04-075

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE DWG. AS00-021

BASIC INSTALLATION DWG. AS80-001

*DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY

NOTE:
THIS DRAWING ILLUSTRATES DESIGN STATUS ONLY

AVAILABILITY OF PARTS MUST BE OBTAINED FROM ALLISON SALES AND THE ENGINE MFR.

REF. D.D.E.D. LAYOUT # L-11-590

CHANGE				
J				
H				
G				
F				
E				
D				
C				
B	4-2-69	DP8861 DP8961 ADDED	WC	WC
A	6-27-67	CHART ADDED	DW	VB

GM GENERAL MOTORS

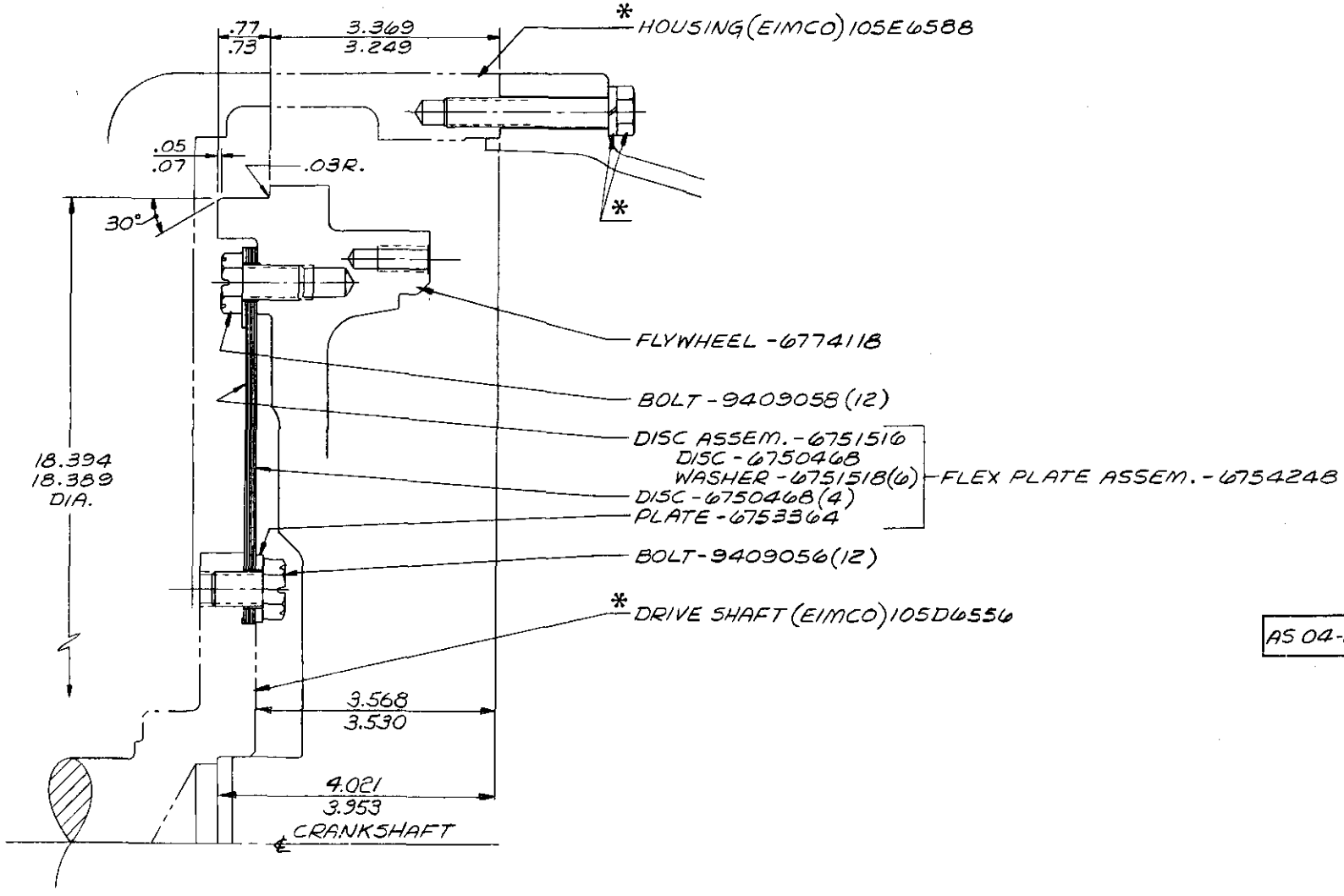
Allison TORQMATIC Drives

TITLE: DETROIT DIESEL "12V149" PHYSICAL ADAPT

DRAWN	CHECKED	CHF. DRAFTSMAN
SWEANY 10-28-64	A.S.H. 7-18-66	W.T. 7-18-66
SCALE FULL	PROJ. ENGR. D.L. ROBINSON	APPL. ENGR. C.P.W. 7-14-66

MODEL DP-8000 SERIES | AS04-075

ALLISON DIVISION - GENERAL MOTORS CORPORATION - INDIANAPOLIS, INDIANA



AS 04-076

FOR CONVERTER DRIVE DATA NOT SHOWN SEE AS 00-001

BASIC INSTALLATION DRAWING AS 51-003

* DENOTES PARTS NOT SUPPLIED WITH CONVERTER ASSEMBLY.

NOTE:
THIS DRAWING ILLUSTRATES DESIGN STATUS ONLY.
AVAILABILITY OF PARTS MUST BE OBTAINED FROM ALLISON SALES AND ENGINE MFG.

REF. AS 04-043

CHANGES				
J				
H				
G				
F				
E				
D				
C				
B				
A				

DRAWN	CHECKED	CHF. DRAFTSMAN
HUGHES	E.R.O.	E.T.V.
8-21-64	11-9-64	11-10-64
SCALE	PROJ. ENGR.	APPL. ENGR.
FULL		DR. / E.W. 9-17-64

CHG

GM GENERAL MOTORS

Allison TORQMATIC Drives

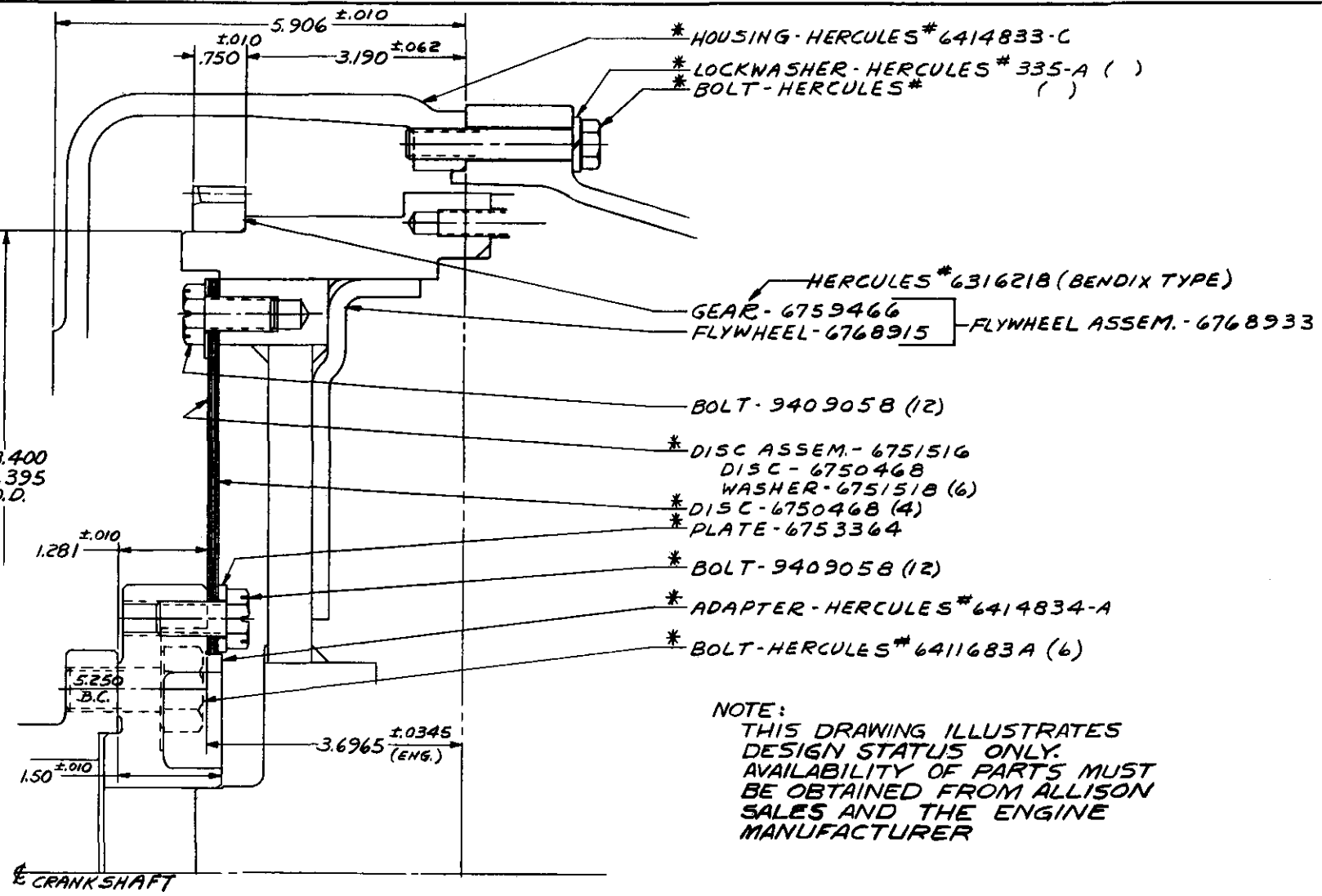
TITLE: EIMCO 115 EXCAVATOR ELECTRIC DRIVE PHYSICAL ADAPTION

MODEL TC-400

AS 04-076

ALLISON DIVISION - GENERAL MOTORS CORPORATION - INDIANAPOLIS, INDIANA

FORM 1048-C REV. 8-55



AS04-077

NOTE:
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FOR CONVERTER DRIVE DATA NOT SHOWN SEE AS00-001

BASIC INSTALLATION DRAWING AS 51-003

* DENOTES PARTS NOT SUPPLIED WITH CONVERTER ASSEMBLY

DRAWN SWEANY 7-13-64	DESIGNED HIGGINS 11 APRIL 68	CHK. DESIGN	
SCALE FULL	DETAIL CHKD. ROBINSON 11 APR. 68	APPL. ENGR. E.W. 11 APRIL 68	

Allison TORQMATIC Drives

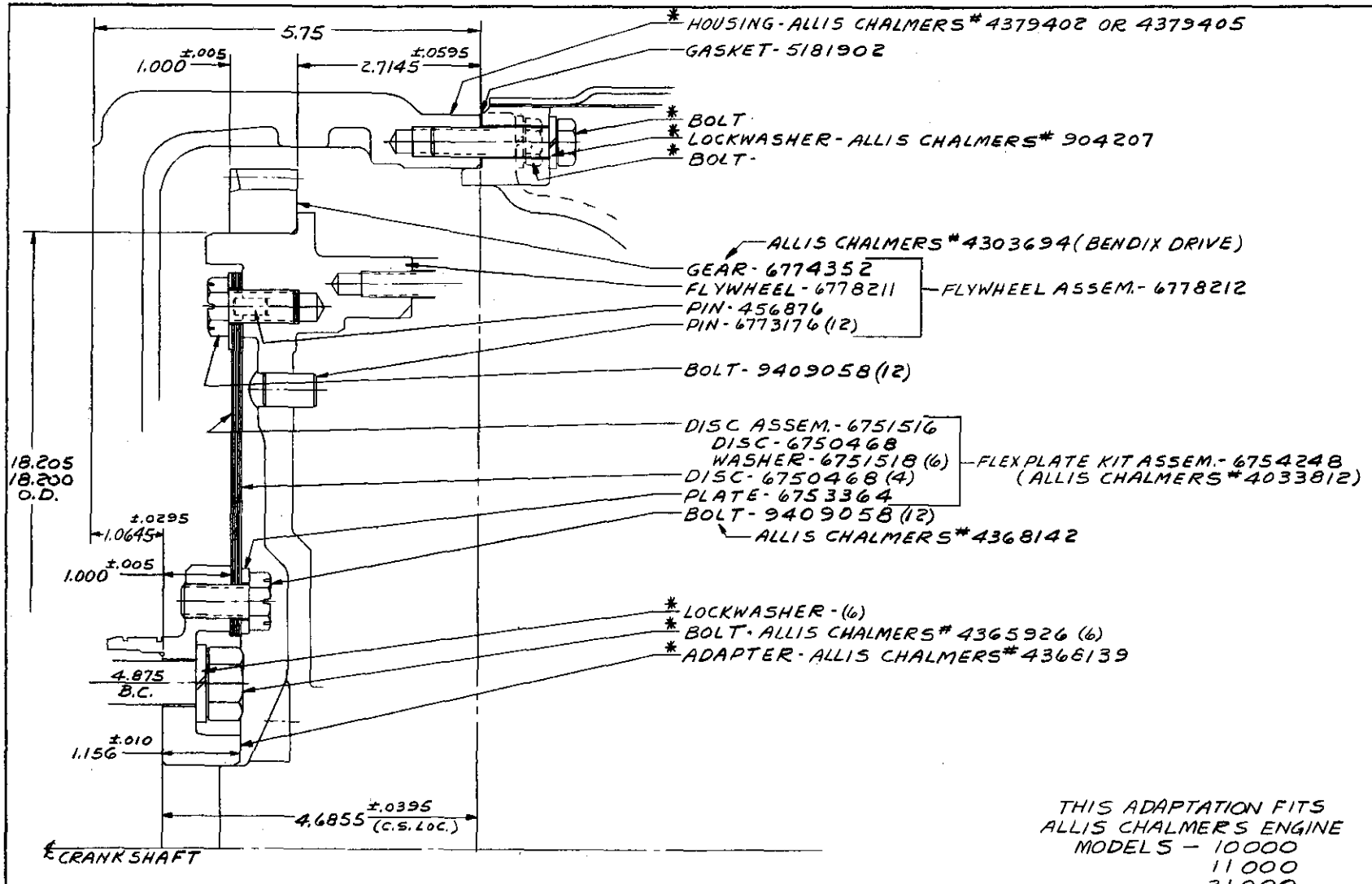
TITLE: HERCULES "HS6182" PHYSICAL ADAPT.

MODEL TC-500 AS04-077

ALLISON DIVISION - GENERAL MOTORS CORPORATION - INDIANAPOLIS, INDIANA

REF. AS04-050

06-100 07-012



AS04-078

THIS ADAPTATION FITS
ALLIS CHALMERS ENGINE
MODELS — 10000
11000
21000
25000

NOTE:
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AVAILABILITY OF PARTS MUST BE OBTAINED FROM ALLISON SALES AND THE ENGINE MANUFACTURER

FOR TRANSMISSION DRIVE DATA NOT SHOWN SEE AS 00-001

BASIC INSTALLATION DWG.
4460 - AS44-001 OR AS44-005
HT-70 - AS40-001

* DENOTES PARTS NOT SUPPLIED WITH TRANSMISSION ASSEMBLY.

CHANGES			
J			
H			
G			
F			
E			
D			
C			
B			
A	1-6-66	SEE CHANGE NOTICE LK	

DR. DATE	CHK. DATE	ENGR. DATE
SWEANY	COL	
11-6-64	2-3-65	2-3-65
SCALE	PROJ. ENGR.	APPL. ENGR.
FULL	DLR	EPW
	1-29-65	1-29-65

P S CHG A

GM GENERAL MOTORS

Allison TORQMATIC Drives

TITLE: ALLIS CHALMERS PHYSICAL ADAPT.

MODEL 4460 & HT-70 | AS04-078

ALLISON DIVISION - GENERAL MOTORS CORPORATION - INDIANAPOLIS, INDIANA

REF. AS04-041