



Test Monitoring Center

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HTCT Information Letter No. 09-3
Sequence No. 16
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ASTM consensus has not yet been obtained on this information letter. An appropriate ASTM ballot will be issued in order to achieve such consensus.

TO: HTCT Mailing List

SUBJECT: Revised HTCT Part Numbers

At the October 1, 2009 HTCT Surveillance Panel teleconference meeting, the panel agreed to accept the alternate Volvo part numbers reviewed and approved by Tom Bryson of Volvo. The panel also agreed to delete all references to Configuration 1 hardware due to the depletion of parts. Section 9.2.2 and Annex A2 of Test Method D 5579 have been deleted. Revised Sections 9.2.1, 9.2.2.1, Table 2 and Table 3 are attached. A new Section 9.2.2 and new Table 4 are also attached. The old Table 4 is renamed to Table 5.

This change is effective October 2, 2009.

Brian Koehler
Chairman
HTCT Surveillance Panel

Frank Farber
Administrator
ASTM Test Monitoring Center

Attachment

c: ftp://ftp.astmtmc.cmu.edu/docs/gear/htct/procedure_and_ils/il09-3.pdf

Distribution: Email

TABLE 2 Transmission Parts to Be Added or Removed Before Testing

Note—Letters in brackets, [], refer to locations indicated on Fig. 1

Parts to be Removed			
Rails, forks, springs, and ball from the main box shift cover [A]			
All main box gearing [B]			
Main shaft gears and thrust washers			
Countershaft assemblies			
Sliding clutches	Mack part numbers	(320KB3136,	(2)320KB137A)
	or		
	Volvo part numbers	(25101998,	(2)25503685)
Compound [C]			
Splitter clutch	Mack part number	320KB3141	
Splitter piston	Mack part number	336KC333	
	or		
	Volvo part number	25125890	
Splitter fork	Mack part number	575KB3378	
	or		
	Volvo part number	25502825	
Bell Housing [D]			
All clutch related parts			
Shafts	Mack part number	604KC277A	604KC34B
	or		
	Volvo part number	25085391	N/A
Yoke	Mack part number	301KD43B	
	or		
	Volvo part number	25128328	
Parts to Be Added			
Speedometer plug	Mack part number	37KC12	
	or		
	Volvo part number	N/A	
Speedometer washer	Mack part number	37AX419	
	or		
	Volvo part number	20704759	
Orifice to range valve	Mack part number	63AX3466	
	or		
	Volvo part number	25107528	
Replace cast iron piston housing cover with fabricated steel cover [E]			

TABLE 3 Part Numbers for Approved Hardware

Part description	Test Hardware Part Numbers	
	Mack part number	Volvo part number
Synchronizer clutch assembly	320KB459A	25132811
Synchronizer pin (3 each)	301KC33	25500623
Synchronizer pin (3 each)	301KC34	25498886
Synchronizer pin (3 each)	301KC35	25500385
Synchronizer pre-load spring (3 each)	107KD247	25500680
High range main shaft gear	751KB4123	25502562
Low range main shaft hub	84KC47	25502560
Compound main shaft, rear	601KC432	
Bearing, compound main shaft	46AX538	25499676
Snap ring (2 each)	97AX151 or 97AX171	25108495
Snap ring (2 each)	97AX267	
Shift rail	591KC3154A	
O-ring, low range shift piston	56AX560	25108475
Piston, high low range shift ^A	336KC318	
Cylinder housing, hi-lo shift piston	55KC46A	
O-ring, range high low shift piston	56AX588	20705679
Countershaft gear, front	757KB3322 or 757KB4108	
Countershaft gear, rear	757KB4106	
Range shift valve	216KD42	21041938

^A The piston, high low range shift, has an outside diameter of 3.740 to 3.738 in. (95.00 to 94.95 mm).

9.2.1 *General*—Assemble all parts as instructed in the Mack Transmission Service Manual T2130/2180⁶, except where the service manual applies to parts that are modified for this test method. Use test oil for lubricating parts during assembly.

Delete Annex A2

Delete Old 9.2.2

New 9.2.2 *New Parts*—Obtain the following parts from an authorized Mack truck dealer. Install the new parts listed in Table 4 for each test.

(Revises Test Method D 5579-09 as amended by Information Letters 09-1 and 09-02)

NEW TABLE 4 New Parts for Each Test

Test Hardware Configuration 2			
Name	Quantity	Mack part number	Volvo part number
Friction plate	8	N/A ⁷	N/A ⁷
Range fork	1	575KB457	25126946
Low range main shaft hub	1	84KC47	25502560
Sliding clutch	1	320KB459	25132811
Pin	3	301KC33	25500623
Pin	3	301KC34	25498886
Spacer tube	3	301KC243C	25501259
Ball/Pin	6	301KC35	25500385
Spring	6	107KD247	25500680
Reaction disk	8	495KB367	25097624

Rename old Table 4 to Table 5

9.2.2.1 Inspect the following parts after each test and replace if worn or damaged:

	Number Required	Mack Part No.	Volvo Part No.
Thrust Washer	3	223KD249	25500345
Thrust Washer	2	223KD316A	25500919
Clutch Housing	2	53KC486C	25502585
High Range Main shaft Gear	1	751KB4123	25502562