

INCH-POUND

MIL-DTL-11040F

2 MAY 2006

SUPERSEDING

MIL-B-11040E

15 OCTOBER 1980

## DETAIL SPECIFICATION

## BELT, V: ENGINE ACCESORY DRIVE

This specification is approved for use by all Departments and Agencies of the Department of Defense.

## 1. SCOPE

1.1 Scope. This specification covers endless, V-type engine accessory drive belts

1.2 Classification. Belts will be of the following grades and nominal cross-section designation. Unless otherwise specified (see 6.2), grade A belts will be supplied.

Grade A – Standard duty.

Grade B – Heavy duty.

.380 – inch nominal belt width x 5/16 – inch nominal belt thickness (MS51065).

.500 – inch nominal belt width x 13/32 – inch nominal belt thickness (MS51066).

11/16 – inch nominal belt width x 13/32 – inch nominal belt thickness (MS51067).

3/4 – inch nominal belt width x 7/16 – inch nominal belt thickness (MS51068).

7/8 – inch nominal belt width x 1/2 – inch nominal belt thickness (MS51069).

1 – inch nominal belt width x 9/16 – inch nominal belt thickness (MS51070).

## 2. APPLICABLE DOCUMENTS

2.1 General. The documents listed in this section are specified in sections 3, 4, or 5 of this standard. This section does not include documents cited in other sections of this standard or recommended for additional information or as examples. While every effort has been made to ensure the completeness of this list, document users are cautioned that they must meet all specified requirements of documents cited in sections 3, 4, or 5 of this standard, whether or not they are listed.

Comments, suggestions, or questions on this document should be addressed to Defense Supply Center Philadelphia (DSCP), ATTN: DSCP-ITAA, 700 Robbins Avenue., Philadelphia, PA 19111-5096 or e-mail to [dscpg&inspeccomments@dla.mil](mailto:dscpg&inspeccomments@dla.mil). Since contact information can change, you may want to verify the currency of this address information using the ASSIST Online database at <http://assist.daps.dla.mil>.

## MIL-DTL-11040F

2.2 Government documents

2.2.1 Specifications, standards, and handbooks. The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those cited in the solicitation or contract.

## DEPARTMENT OF DEFENSE STANDARDS

MIL-STD-129	Military Marking for Shipment and Storage
MIL-STD-130	Identification Marking of U.S. Military Property
MS51065	Belts, V: Engine Accessory Drive (.380 Inch Nominal Width)
MS51066	Belts, V: Engine Accessory Drive (.500 Inch Nominal Width)
MS51067	Belts, V: Engine Accessory Drive (11/16 Inch Nominal Width)
MS51068	Belts, V: Engine Accessory Drive (3/4 Inch Nominal Width)
MS51069	Belts, V: Engine Accessory Drive (7/8 Inch Nominal Width)
MS51070	Belts, V: Engine Accessory Drive (1 Inch Nominal Width)

(Copies of these documents are available online at <http://assist.daps.dla.mil/quicksearch/> or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

2.3 Non-Government publications. The following documents form a part of this specification to the extent specified herein. Unless otherwise specified, the issues of these documents are those cited in the solicitation or contract.

## American Society for Testing and Materials Standard (ASTM)

ASTM D471	Standard Test Method for Rubber Property – Effect of Liquids
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(Copies of this document are available from [www.astm.org](http://www.astm.org) or ASTM, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959.)

## American Society for Quality Control (ASQC)

ASQ Z1.4	Sampling Procedures and Tables for Inspection by Attributes
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(Copies of this document are available from the American Society for Quality Control, 611 East Wisconsin Avenue, Milwaukee, WI 53202.)

## Society of Automotive Engineers (SAE)

SAE J636	V-Belt and Pulley
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(Copies of this document are available from [www.sae.org](http://www.sae.org) or the Society of Automotive Engineers, Inc., 400 Commonwealth Drive, Warrendale, PA 15096-0001.)

2.4 Order of precedence. In the event of a conflict between the text of this document and the reference cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

## 3. REQUIREMENTS

3.1 Descriptions. Each belt shall be an endless loop having a trapezoidal cross section.

## MIL-DTL-11040F

3.2 Qualification. Belts furnished under this specification shall be products which are qualified for listing on the applicable Qualified Products List (see 4.2 and 6.3).

3.3 Material. Material shall be as specified herein. Materials not specified shall be selected by the contractor and shall be such as to enable the belts to meet all requirements of this specification (see 6.6).

3.3.1 Cords. Cords shall be as specified herein, shall be prestretched, and shall be impregnated with a rubber compound.

3.3.1.1 Grade A. Cords for Grade A belts shall be natural or synthetic.

3.3.1.2 Grade B. Cords for Grade B belts shall be polyester.

3.3.2 Fabric. Fabric shall be woven or knit of natural or synthetic fibers, and shall be impregnated with rubber.

3.3.3 Rubber. Rubber shall be either natural or synthetic.

3.4 Construction.

3.4.1 Tension members. Tension members shall be uniformly spaced in a direction parallel to the circumference of the belt, and shall be imbedded in the belt structure.

3.4.2 Compression members. Compression members shall form the narrower trapezoidal portion of the belt in the section below the tension members and shall support the belt in the pulleys. The base that forms the inner circumference of the belt shall be plain, notched, or cogged.

3.4.3 Cover. The cover, if used, shall consist of one or more plies of bias-cut fabric or cord, frictioned or impregnated with rubber.

3.4.4 Splicing. Not more than two transverse splices shall be allowed in any ply or fabric within a length of 66 inches or less.

3.5 Sizes. Sizes of belts (nominal widths and effective lengths) shall be as shown on MS51065 through MS51070 or as specified (see 6.2).

3.5.1 Effective length tolerance.

3.5.1.1 Single belts. The effective length tolerance for Grade A single belts, when tested as specified in 4.4.2.1, shall not exceed the center distance tolerance specified in table I. the effective length tolerance for grade B single belts, when tested as specified in 4.4.2.1, shall not exceed the center distance tolerance specified in table II.

TABLE I. Effective length tolerance, grade A.

Effective belt length (inches)	Tolerance on center distance	
	Plus (inch)	Minus (inches)
40 and less	1/8	5/32
over 40 and through 50	1/8	3/16
over 50 and through 60	5/32	7/32
over 60 and through 80	3/16	9/32
over 80	7/32	11/32

## MIL-DTL-11040F

TABLE II. Effective length tolerance, grade B.

Effective belt length (inches)	Tolerance on center distance Plus or Minus (inches)
50 and less	1/8
over 50 and through 60	5/32
over 60 and through 80	3/16
over 80	7/32

3.5.1.2 Matched set. When specified (see 6.2), belts shall be furnished in matched sets of the size and number of belts required. Belts of matched sets shall conform to the effective length tolerance specified in table I for grade A belts and table II for grade B belts, except that the difference in effective length, between test pulley centers of the longest and shortest belt in any one matched set, shall not exceed 1/16 inch for grade A belts, and those shown in table III for grade B belts, when tested as specified in 4.4.2.1.

TABLE III. Matching tolerance for sets of grade B belts.

Nominal belt width	Difference in length between test Pulley centers (inch)
.380	.04
.500	.04
11/16	.06
3/4	.06
7/8	.06
1	.06

3.6 Electrical resistance. The electrical resistance, as measured between any pair of opposite electrodes after the belt is subjected to tension, shall be not more than 300,000 ohms.

3.7 Oil-Resistance. When specified (see 6.2) the belt thickness shall increase no more than 20 percent after exposure to ASTM No. 3 oil, and shall decrease (shrink) no more than 1 percent after exposure to ASTM No. 1 oil, when tested as specified in 4.4.2.4.

3.8 Resistance to temperature. The belts shall not crack, break, or require more torque to start or continue rotation than that specified in table IV when tested as specified in 4.4.2.5.

TABLE IV. Maximum torque requirements.

Nominal top width	Torque required to start (maximum)	Torque required to continue (maximum)
Less than 11/16	20 ft. lbs.	12.5 ft. lbs.
11/16 through 3/4	25 ft. lbs.	15.0 ft. lbs.
7/8 through 1	30 ft. lbs.	20.0 ft. lbs.

## MIL-DTL-11040F

3.9 Rideout. When tested as specified in 4.4.2.2, the position of the top of the belt with respect to the top of the pulley groove (ride-out) shall be within the limits specified in table V.

TABLE V. Rideout.

Nominal belt width	Rideout, plus or minus 1/32 inch
.380	1/16
.500	1/16
11/16	3/32
3/4	3/32
7/8	3/32
1	3/32

3.10 Resistance to fatigue. The belts shall not crack, break, or slip in excess of 8 percent after two permissible adjustments to compensate for slippage when tested as specified in 4.4.2.6.

3.11 Age. When specified (see 6.2), the age of the belts shall be not more than 12 months (4 quarters) old from the time of manufacture to the date of acceptance by the Government.

3.12 Marking.

3.12.1 Single belts. Unless otherwise specified (see 6.2), the belts shall be marked on the outside circumference in accordance with MIL-STD-130; in addition, the date of manufacture shall be shown by quarter and year (example 1Q 80), or month and year (example Jan 80) or week and year (example 1-80). Ink imprinting or permanent molded marking is acceptable.

TABLE VI. Classification of defects.

Defect	Major	Minor
Indentation, any side	X	
Light spot	X	
Press lap defect	X	
Flow distortion	X	
Flash distortion	X	
Flash untrimmed	X	
Misplaced brand with twist (twist revealed by bending belt)	X	
Misplaced brand without twist		X
Protrusion, any side other than top or bottom	X	
Protrusion, top or bottom		X
Blister, any side	X	
Foreign material, wearing side	X	
Foreign material, top or bottom		X
Foreign material, internal	X	
Hole, in cogging area	X	
Porosity, not in cogging area	X	
Open longitudinal seam, any side	X	
Open longitudinal seam, wearing side	X	
Open longitudinal seam, top or bottom		X
Loose longitudinal seam, any side	X	
Open transverse seam	X	
Open transverse seam, wearing side	X	
Open transverse seam, top or bottom		X
Loose transverse seam	X	

## MIL-DTL-11040F

TABLE VI. Classification of defects. (Continued)

Defect	Major	Minor
Loose transverse seam, wearing side	X	
Loose transverse seam, top or bottom		X
Torn cover	X	
Torn cover, wearing side	X	
Torn cover, top or bottom		X
Trim cut	X	
Scratch, not through a ply		X
End scrap, material missing	X	
Wrinkle in cover, tension member not distorted		X
Cogging cut-outs skipped, more than one cog	X	
Cogging cut-out overlap		X
Cogging missed, more than one cog	X	
Wavy wire in steel cable belt	X	
Mold induced ridges on top of belts		X

3.12.2 Matched sets. Each belt of a matched set shall be marked as specified in 3.12.1. In addition, all belts of a matched set shall be tied together. A tag or separate label shall include the following notice: "WARNING: THIS IS A MATCHED SET. DO NOT BREAK TIES EXCEPT AT INSTALLATION."

3.13 Workmanship. The belts shall contain no visible defects as specified in table VI.

#### 4. VERIFICATION

4.1 Classification of inspections. The Inspection requirements specified herein are classified as follows:

- (a) Qualification inspection (see 4.2).
- (b) Conformance inspection (see 4.3).

#### 4.2 Qualification inspection.

4.2.1 Quantity of belts. For the purpose of qualification, no fewer than three belts of each grade and applicable belt width (see 6.3.2), manufactured by the same process, shall be subjected to the examination and tests specified herein.

4.2.2 Examination. Each belt shall be examined as specified in 4.4.1. Presence of one or more defects shall be cause for rejection of all belts.

4.2.3 Tests. Each belt shall be tested as specified in 4.4.2.1 through 4.4.2.6. Failure of any test shall be cause for rejection of all belts.

#### 4.3 Conformance inspection.

4.3.1 Sampling. Sampling for examination and tests shall be in accordance with ASQ Z1.4, Inspection level S-3. The Acceptable Quality Levels (AQLs) listed in this inspection shall be used to establish the sample size, however, the acceptance number shall be zero.

4.3.2 Examination. Samples selected in accordance with 4.3.1 shall be examined as specified in 4.4.1. AQL shall be 1.5 percent defective for major defects and 2.5 percent defective for minor defects.

## MIL-DTL-11040F

4.3.3 Tests. Samples selected in accordance with 4.3.1 shall be tested as specified in 4.4.2.1 and 4.4.2.2. AQL shall be 4.0 percent defective.

#### 4.4 Inspection procedure.

4.4.1 Examination. The belts shall be examined for visible defects as specified in table VI.

#### 4.4.2 Tests.

4.4.2.1 Effective length. The fixture shall consist of two test pulleys having dimensions as specified in table VII. One shall be a fixed pulley and the other shall be a movable pulley which moves along a graduated scale (see Figure 1). Place the belt on the pulleys and rotate pulleys until the belt has made two complete revolutions to seat the belt, and equally divide the tension on each strand. Measure the distance between center-to-center of the test pulleys, and add the amount specified in table VII to twice the center distance to determine the effective length. Nonconformance to the length tolerance specified in table I or II, as applicable, or nonconformance of matched sets to 3.5.1.2 shall constitute failure of this test.

TABLE VII. Measuring pulleys for V-belt effective length measurement.

Nominal belt width	Width of groove	A groove angle deg. $\pm 10$ min.	Pulley outside diameter	Tension	Amount to be added to 2 times center distance to get belt length	D Minimum depth of groove
(inch)	(inch)		(inches)	Pounds	(inches)	(inch)
.380	.380	36	3.820	60	12.000	7/16
.500	.500	36	3.820	60	12.000	9/16
11/16	.597	34	3.820	60	12.000	9/16
3/4	.660	34	3.820	80	12.000	5/8
7/8	.785	34	4.775	100	15.000	11/16
1	.910	34	4.775	120	15.000	13/16

4.4.2.2 Rideout. The rideout measurement shall be obtained during the effective length measurement. With the belt mounted on the measurement pulleys under the applicable tension as specified in table V, place straightedge across the top of the belt. Measure and record the distance between the bottom of the straightedge and the outer rim of the measuring pulley (see figure 1). A rideout measurement exceeding the tolerances specified in table V shall constitute failure of this test. This method of measuring the effective length is identical to the SAE method described in SAE J636 (see figure 1). Belt widths are approximate and belt angles are not specified because both may vary to meet the requirements of this specification. Tension on each strand is one-half the amounts shown.

#### 4.4.2.3 Electrical resistance.

4.4.2.3.1 Apparatus. The apparatus shall be an electronic-type ohmmeter operating at a potential of 500 volts dc, plus or minus 100 volts. The ohmmeter shall have a range sufficiently great to measure the ohm resistance of the belt being tested with an accuracy of plus or minus 5 percent.

4.4.2.3.2 Preparation. Clean one side wall of the belt of all foreign matter.

4.4.2.3.3 Electrodes. Place eight electrodes in contact with the cleaned surface of the belt side wall. The electrodes shall be the depth of the belt and shall have a width of 1/2 inch. The electrodes shall be square or rectangular in shape and shall consist of either brass or coatings of a colloidal dispersions of graphite in distilled water. Equally space and mark the electrodes as shown in Figure 4.

## MIL-DTL-11040F

4.4.2.3.4 Conditioning and evaluating graphite electrodes. If a colloidal dispersion of graphite is used for electrodes, condition the belt at room temperature for 24 hours or until the electrodes dry. After drying, determine the resistance (from corner to corner) of each individual electrode with the test probes of the ohmmeter contacting as small an area as practicable. If the meter reading is more than 1000 ohms, apply another coating of the colloidal dispersion of graphite in distilled water to avoid erroneously high readings and repeat the drying and resistance measurement.

4.4.2.3.5 Procedure. Suspend the belt for not less than 30 seconds on two pulleys with a 150-pound weight suspended from the lower pulley (see Figure 3 and table VII). Within one minute after removal of tension, measure the resistance between opposite electrodes (A to Aa, B to Bb, see Figure 4). A resistance reading higher than 300,000 ohms shall constitute failure of this test.

4.4.2.4 Oil-Resistance Test. Three belt sections each 3 inches long, shall be immersed in ASTM Oil No. 1 and ASTM Oil No. 3 as cited in ASTM D-471, at a temperature of 158° F for 22 hours. The thickness of each belt section shall be measured at the center and 1/2 -inch from each end, before and after the immersion. The percent increase or decrease in thickness of any specimen shall be recorded as the average of the three readings for that specimen. Failure of any specimen to meet the requirements of 3.7 shall be cause for rejection.

4.4.2.5 Resistance to temperature. Place the belt in an air oven in an unrestrained horizontal position and maintain the temperature of the oven at 150° F, plus or minus 2° F, for 12 hours. At the end of 12 hours, remove the belt from the oven and allow to cool for 30 minutes at room temperature. Then install the belt on the pulley and panel assembly (see Figure 2 and table VIII) and apply belt tension with the applicable weight for the width being tested as specified in table IX. The tension weights may be applied as shown in Figure 2 or the panel may be turned 90 degrees with the tension pulley at the bottom and the tension weights suspended from the tension pulley. Lock tension pulley location and remove the tension weights from the belt. Then place the assembly of belts and pulleys in the cold chamber and maintain the chamber at a temperature of minus 65° F, plus or minus 5° F, for 12 hours. At the end of 12 hours and while in the cold chamber, rotate the pulleys by means of a torque wrench applied to the drive pulley until the belt has been rotated not less than two complete revolutions. Record the torque to start and the torque to continue rotations. Examine the belt rotation. Evidence of cracks, breakage, or torque higher than the applicable value listed in table IV shall constitute failure of this test.

TABLE VIII. Dimensions of pulleys for temperature and fatigue tests.

Nominal belt width	Diameter of pulley where specified groove width (without width tolerance) occurs		Groove		Angle	
	Driver and driven pulleys ± .010	Tension pulley ± .010	Width ± .010	Depth (Min)	Driver and driven pulleys ±30 min.	Tension pulley ±30 min.
Inch	inches	inches	inches	inches	degrees	degrees
.380	4.75	2.75	.380	7/16	36	36
.500	5.00	3.50	.500	9/16	36	36
11/16	4.66	3.16	.597	9/16	36	34
3/4	4.91	3.29	.660	5/8	36	34
7/8	5.91	3.91	.785	11/16	36	34
1	6.91	4.54	.910	13/16	36	34

4.4.2.6 Fatigue.



## MIL-DTL-11040F

4.4.2.6.1 Apparatus. The apparatus shall consist of the following:

- (a) A torque-reaction-type dynamometer.
- (b) A constant-speed motor.
- (c) A means for setting the tension at the value specified in table IX for the specific belt width.
- (d) A means of determining belt slip within an accuracy of plus or minus 1 percent. This can be determined by an electronic digital counting technique, or by calibrating the instrument being used for measuring belt slip and checking periodically by electronic digital counting.
- (e) A governor arranged to automatically stop the motor drive when the speed of the driven pulley (on dynamometer) drops 8 percent below that of the driver pulley (on motor).
- (f) Three pulleys arranged as shown in Figure 2. Pulleys for the belt widths designated shall have dimensions as shown in table VIII.
- (g) Dial indicator.

4.4.2.6.2 Procedure. Install the belt on the pulleys. Apply the applicable tension specified in table IX to the idler pulley. (NOTE: if tension is to be applied to the driven pulley, the tension values in table IX shall be multiplied by 1.21). Condition the belt by running with the tensile pulley unrestrained for 5 minutes, plus or minus 15 seconds, under the conditions specified in table IX; do not apply the dynamometer load. Stop the machine and allow the belt to condition for 10 minutes. Turn the drive manually for 2 or 3 revolutions of the belt and, by means of a dial indicator mounted in contact with the tensioned-pulley support bracket, record the maximum limits of travel. Lock the tensioned-pulley support bracket in the position midway between the two limits of travel and remove the tensioning weights. Restart the machine, bring the drive up to test speed and apply the dynamometer load specified in table IX. Continue to operate the machine for 100 hours, plus or minus 1/2 hour, in an ambient temperature of between 70° F to 90° F. If the slippage exceeds 8 percent, stop the machine, let the belt stand for a minimum of 20 minutes, unlock the tensioning pulley, restore the initial tension, determine the center position, and relock the tensioning pulley. Restart the machine, bring up to speed, reapply the dynamometer load, and continue the 100-hour run. Evidence of cracks or breakage, or more than 2 retensionings, shall constitute failure of this test.

TABLE IX. Condition of fatigue test.

Pulley diameters (inches)				Tension weight at no load (lbs.)	Horse-power load	Belt effective length (in.)
Nominal belt width	Driver and driven	Idler	Driver rpm			
.380	4.75	2.75	4900	60	6.0	under 40.0
				70	7.0	40.0-55.0
				80	8.0	55.0 & over
.500	5.00	3.50	4700	80	8.0	under 40.0
				90	9.0	40.0-55.0
				100	10.0	55.0 & over
11/16	4.66	3.16	4900	50	5.0	under 40.0
				60	6.0	40.0-55.0
				70	7.0	55.0 & over
3/4	4.91	3.29	4700	55	5.5	under 40.0
				65	6.5	40.0-55.0
				75	7.5	55.0 & over
7/8	4.91	3.91	3900	70	7.0	under 40.0
				80	8.0	40.0-55.0
				90	9.0	55.0 & over
1	6.91	4.54	3350	80	8.0	under 40.0
				90	9.0	40.0-55.0
				100	10.0	55.0 & over

## MIL-DTL-11040F

## 5. PACKAGING

5.1 Packaging. For Acquisition purposes, the packaging requirements shall be as specified in the contract or order (see 6.2). When packaging of material is to be performed by DoD or in-house contractor personnel, these personnel need to contact the responsible packaging activity to ascertain packaging requirements. Packaging requirements are maintained by the Inventory Control Point's packaging activities within the Military Service or Defense Agency, or within the military service's system commands. Packaging data retrieval is available from the managing Military Department's or Defense Agency's automated packaging files, CD-ROM products, or by contacting the responsible packaging activity.

## 6. NOTES

6.1 Intended use. The belts covered by this specification are intended to be used on power-transmission applications that require high speed, small-pulley, short-center drives, such as drives on internal combustion engines that transmit power to generators, pumps, fans, and other accessory equipment. This specification does not apply to the light-duty or fractional-horsepower belts of the 2L through 5L cross-sectional designations, to industrial belts of the A through E cross-sectional designations, nor to the industrial narrow, 3V, 5V, and 8V cross-sectional designations. These belts are intended for use in ambient temperatures as low as -65° F. If minus 40° F is the minimum temperature requirement and electrical conductance is not a requirement, use commercial item description A-A-52155 instead of this specification.

6.2 Acquisition requirements. Acquisition documents should specify the following

- (a) Title, number and date of this specification.
- (b) Military standard part number and dash number designation or nominal belt width, grade, and effective length required (see 1.2 and 3.5).
- (c) When matched sets are to be furnished and quantity of belts per set required (see 3.5.1.2).
- (d) When oil resistance is required (see 3.7).
- (e) When the age of belts is not to exceed 12 months (see 3.11).
- (f) Packaging requirement (see 5.1).

6.3 Qualification.

6.3.1 Belts procured as end items. With respect to products requiring qualification, awards will be made only for products which are, at the time set for opening of bids, qualified for inclusion in the applicable Qualified Products List, whether or not such products have actually been so listed by that date. The attention of contractors is called to this requirement, and manufacturers are urged to arrange to have the products that they propose to offer to the Government tested for qualification in order that they may be eligible to be awarded contracts or orders for the products covered by this specification.

6.3.2 Samples for qualification. Qualification of belts of .380 inch nominal top width will be considered as qualifying all belts of nominal top widths of .500 inch or less. Qualification of belts of 11/16 inch nominal top width will be considered as qualifying all belts of nominal top width greater than .500 inch.

6.4 Effective length. The length for belts should always be expressed as "effective length" in procurement documents (see 3.5 and table I).

6.5 Belt Limitations. The low temperature requirement of MIL-DTL-11040 belts necessitates the use of special compounds in belt fabrication. Although these compounds enhance belt performance at low temperature, the belts do not perform as well as a good-quality, standard belt at normal temperatures. Under these circumstances, a belt drive designed for minus 25° F or minus 40° F should be analyzed by the belt manufacturer prior to substituting a minus 65° F belt.

## MIL-DTL-11040F

6.6 Recycled material. It is encouraged that recycled material to be used when practical as long as it meets the requirements of the specification (see 3.3).

6.7 Subject term (key word) listing.

Combustion engines  
Fans  
Generators  
Power-transmission  
Pulley  
Pumps

6.8 Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

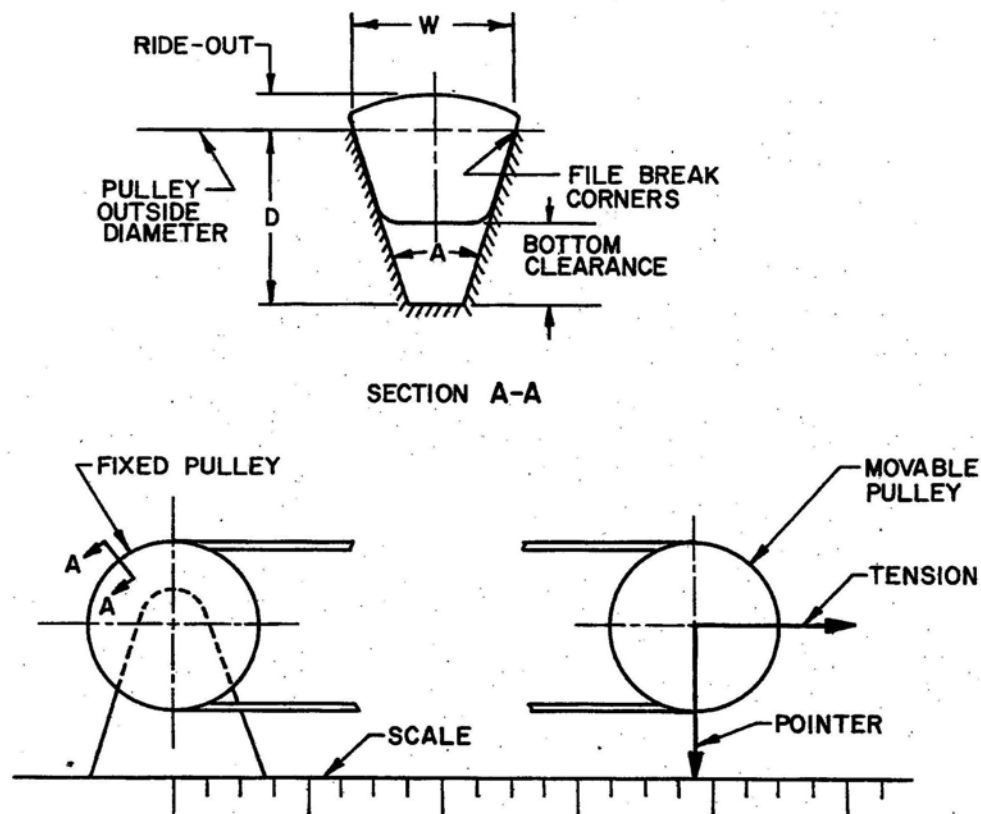
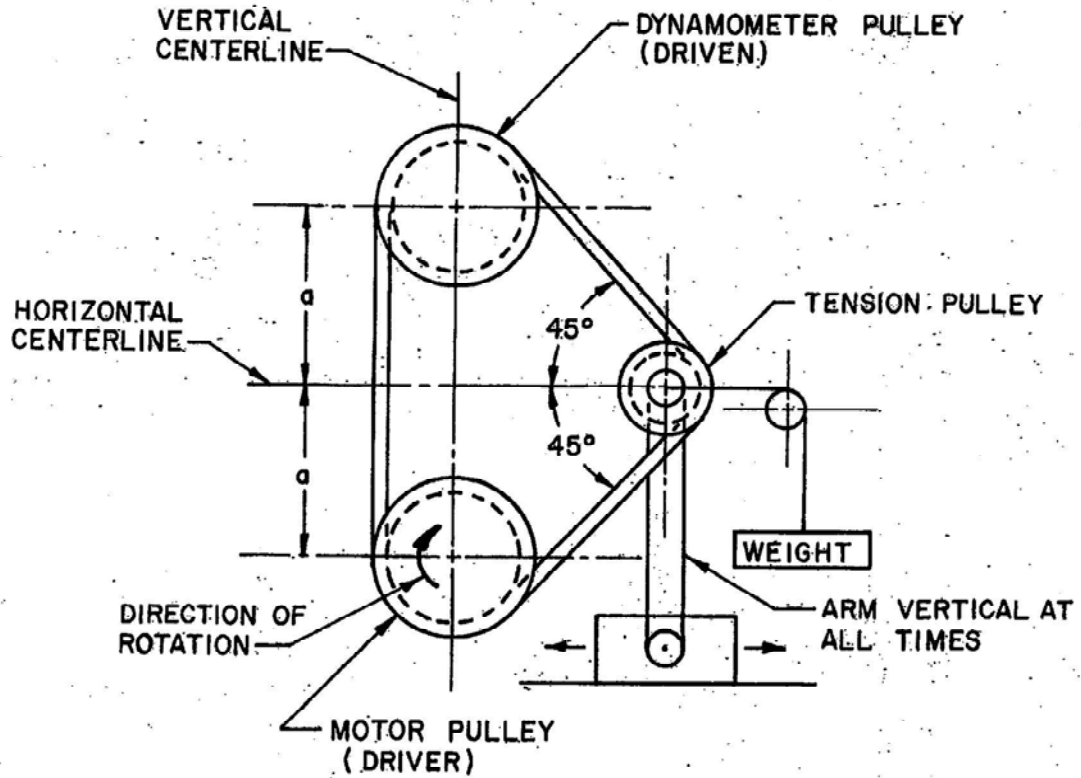


Figure 1. Test fixture and pulleys for determining belt effective length, rideout and bottom clearance.

MIL-DTL-11040F

**NOTE:**

DIMENSION "a" IS ADJUSTED FOR VARIOUS LENGTH BELTS TO MAINTAIN TENSION PULLEY MIDWAY VERTICALLY BETWEEN DRIVER AND DRIVEN PULLEYS.

FIGURE 2. General pulley arrangement for low temperature and fatigue tests.

MIL-DTL-11040F

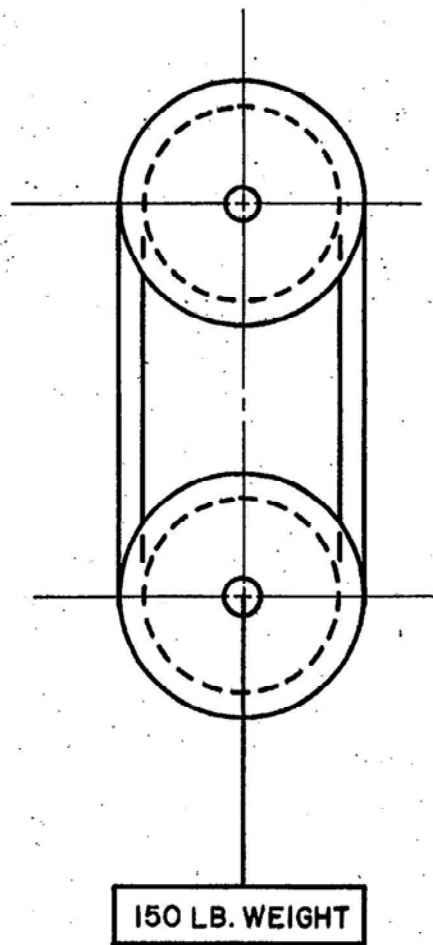


FIGURE 3. Tensioning of belt for electrical conductance test.

MIL-DTL-11040F

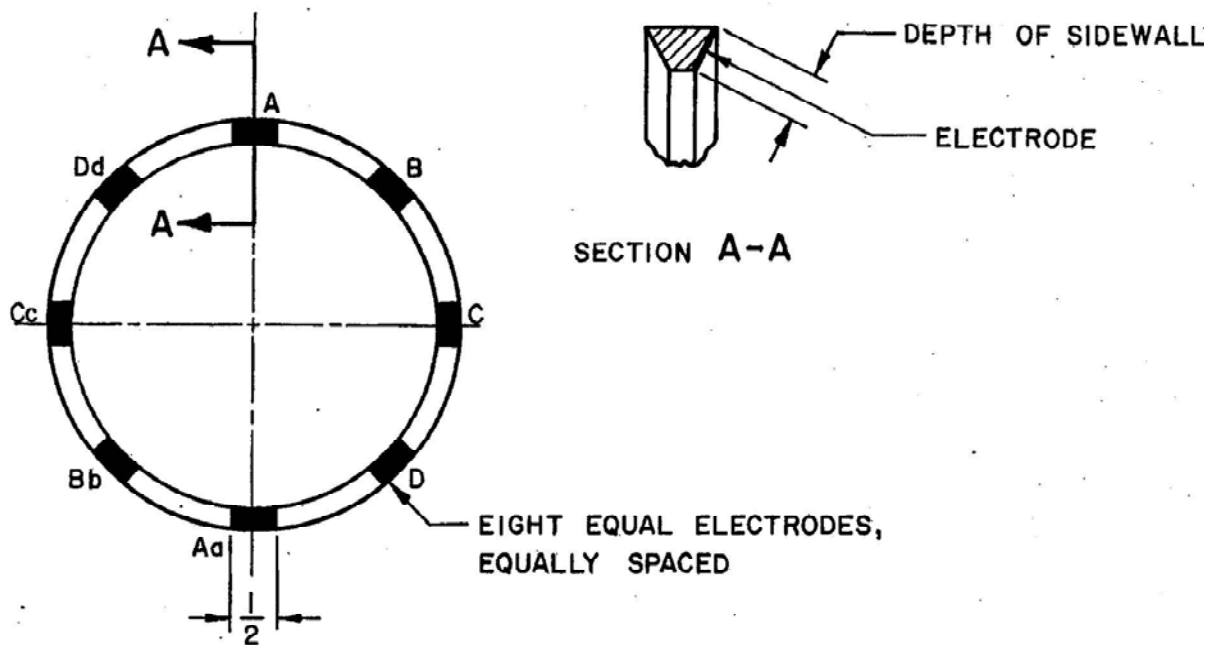


FIGURE 4. Dimensions, spacing, and marking of electrodes for electrical conductance test.

Custodians:  
 Army-AT  
 Navy - YD  
 Air Force - 99

Preparing activity:  
 DLA-IS

Review activities:  
 Army - AR, MI, SM  
 Navy - MC

(Project 3030-2005-003)

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change. You should verify the currency of the information above using the ASSIST online database at <http://assist.daps.dla.mil>.