

## DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

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**STANDARDIZATION OF  
GRADER BLADE CUTTING EDGES**

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**Department of the Army, Washington 25, D. C****14 June 1954**

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This bulletin is correct to May 7, 1954

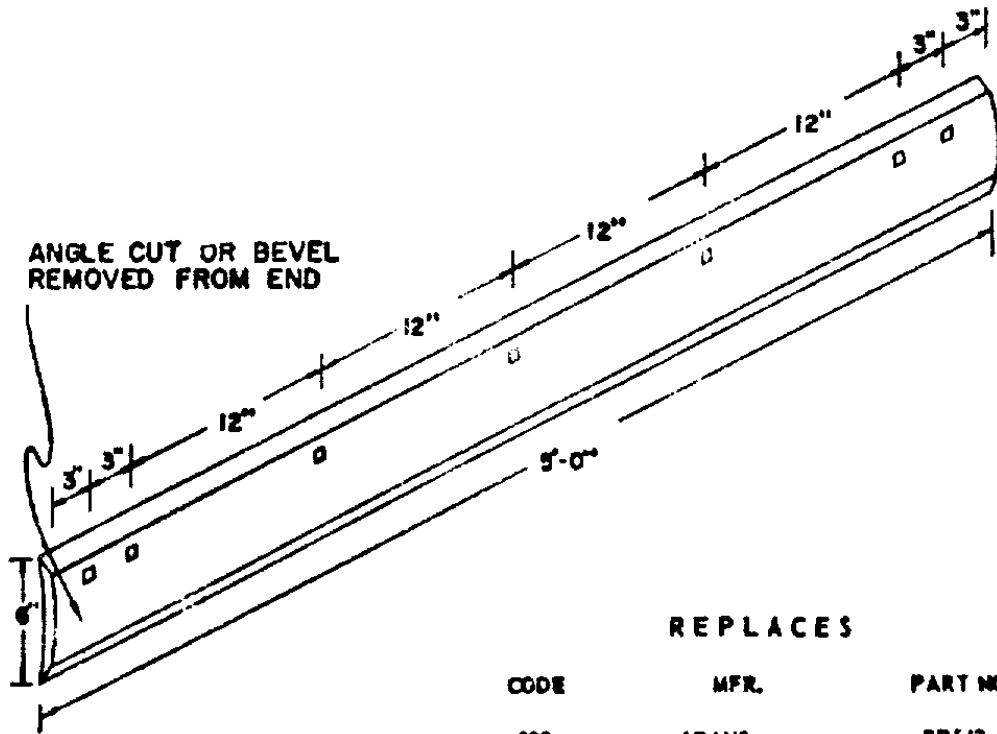
**1. Purpose.** The purpose of this bulletin is to pass on information about the standardization of grader blade cutting edges. Before the standardization program began, grader blade cutting edges were procured, stocked, and issued under 17 part numbers. Now cutting edges are procured, stocked, and issued under only three 12-digit stock numbers. Cross references between the old and the new cutting edges are found in figures 1, 2, and 3.

**2. Similarity of Former Cutting Edges.** Investigators found that all cutting edges used on Corps of Engineers grader blades were 6 inches wide, one-half or five-eighths inch thick, were of similar concave design, were beveled one and five-sixteenths inches on each edge, and were square punched and countersunk on the concave face of the blade to receive number 3 plow bolt heads. Hole spacing was found to be uniform among all blades.

**3. Changes for Standardization.** By doing away with all angle end, or bevel end cut, left hand and right hand edges have been eliminated. Thickness has been standardized at five-eighths inch. These changes will not be completely brought about in the field until all existing stocks of old cutting edges have been issued.

TAGO 6004B -June 270488°-54

GRADER BLADE CUTTING EDGE  
 SNL 78-1650.175.560  
 5 FEET  
 5/8" THICK



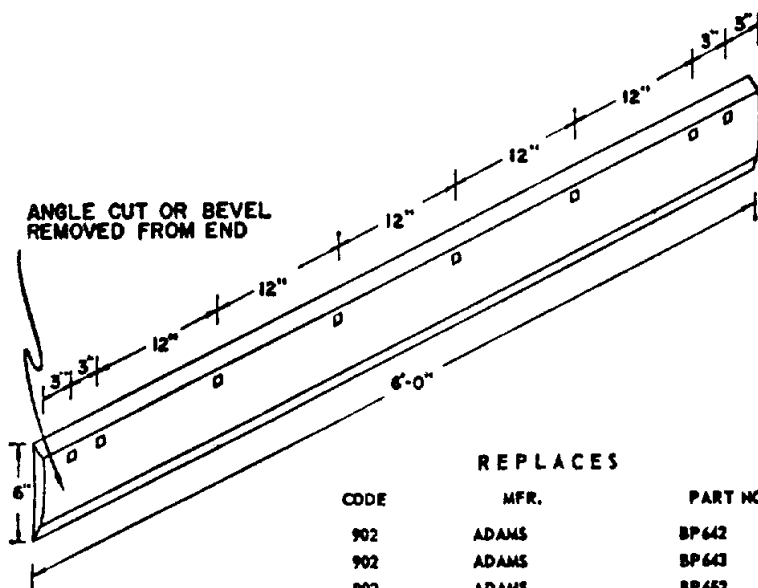
**REPLACES**

CODE	MFR.	PART NO.
902	ADAMS	BP542
902	ADAMS	BP543
902	ADAMS	BP552
902	ADAMS	BP553
140	CATERPILLAR	1D3604
140	CATERPILLAR	1D3605

Figure 1.

TAGO 6004B

**GRADER BLADE CUTTING EDGE**  
**SNL 78-1650.175.660**  
**6 FEET**  
**5/8" THICK**

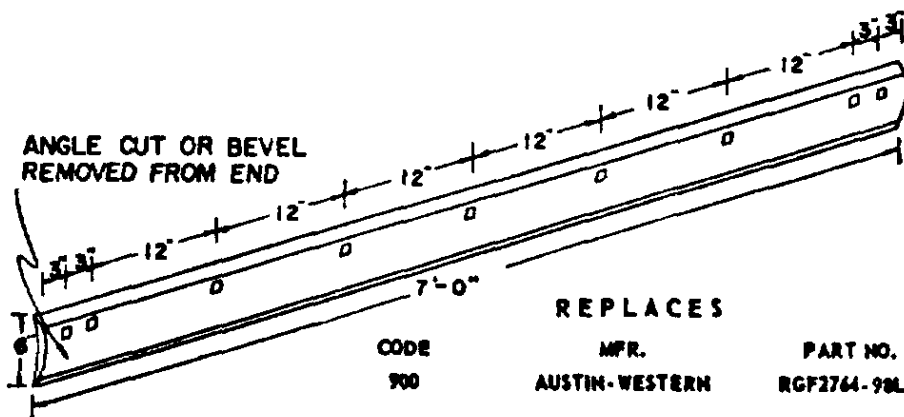


**REPLACES**

CODE	MFR.	PART NO.
902	ADAMS	BP 642
902	ADAMS	BP 643
902	ADAMS	BP 652
902	ADAMS	BP 653
140	CATERPILLAR	1D3600
140	CATERPILLAR	1D3609
962	GALION	A333
745	ROME	3008L
745	ROME	3008R
900	AUSTIN-WESTERN	RGF2760-99

Figure 2.

**GRADER BLADE CUTTING EDGE**  
**SNL 78-1650.175.760**  
**7 FEET**  
**5/8" THICK**



**REPLACES**

CODE	MFR.	PART NO.
900	AUSTIN-WESTERN	RGF2764-98LN

Figure 3.

BY ORDER OF THE SECRETARY OF THE ARMY:

M. B. RIDGWAY,  
*General, United States Army,*  
*Chief of Staff.*

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JOHN A. KLEIN,  
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5-48A, Engr Sup Point Co  
(2)  
5-1.57, Engr Fld Maint Co  
(2)  
5-262, Hq & Hq Co, Engr  
Maint & Sup Gp (2)  
5-267, Engr Depot Co (2)  
5-278A, Engr Depot Maint  
Co (2)  
5-328A, Engr Hv Eqp Co  
(2)  
5-367A, Engr Lt Eqp Co  
(2)

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For explanation of abbreviations used, see SR 320-50-1.

TAGO 6004B  
☆ U.S. GOVERNMENT PRINTING OFFICE: 1984  
803-331

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## The Metric System and Equivalents

### *Linear Measure*

1 centimeter = 10 millimeters = .39 inch  
 1 decimeter = 10 centimeters = 3.94 inches  
 1 meter = 10 decimeters = 39.37 inches  
 1 dekameter = 10 meters = 32.8 feet  
 1 hectometer = 10 dekameters = 328.08 feet  
 1 kilometer = 10 hectometers = 3,280.8 feet

### *Weights*

1 centigram = 10 milligrams = .15 grain  
 1 decigram = 10 centigrams = 1.54 grains  
 feet  
 1 gram = 10 decigram = .035 ounce  
 1 decagram = 10 grams = .35 ounce  
 acres  
 1 hectogram = 10 decagrams = 3.52 ounces  
 1 kilogram = 10 hectograms = 2.2 pounds  
 1 quintal = 100 kilograms = 220.46 pounds  
 1 metric ton = 10 quintals = 1.1 short tons

### *Liquid Measure*

1 centiliter = 10 milliliters = .34 fl. ounce  
 1 deciliter = 10 centiliters = 3.38 fl. ounces  
 1 liter = 10 deciliters = 33.81 fl. ounces  
 1 dekaliter = 10 liters = 2.64 gallons  
 1 hectoliter = 10 dekaliters = 26.42 gallons  
 1 kiloliter = 10 hectoliters = 264.18 gallons

### *Square Measure*

1 sq. centimeter = 100 sq. millimeters = .155 sq. inch  
 1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches  
 1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq.  
 feet  
 1 sq. dekameter (are) = 100 sq. meters = 1,076.4 sq. feet  
 1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47  
 acres  
 1 sq. kilometer = 100 sq. hectometers = .386 sq. mile

### *Cubic Measure*

1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch  
 1 cu. decimeter = 1000 cu. centimeters = 61.02 cu.  
 inches  
 1 cu. meter = 1000 cu. decimeters = 35.31 cu. feet

## Approximate Conversion Factors

<i>To change</i>	<i>To</i>	<i>Multiply by</i>	<i>To change</i>	<i>To</i>	<i>Multiply by</i>
inches	centimeters	2.540	ounce-inches	Newton-meters	.007062
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	yards	meters	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29.573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grams	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	Newton-meters	1.356	metric tons	short tons	1.102
pound-inches	Newton-meters	.11296			

## Temperature (Exact)

°F	Fahrenheit	5/9 (after	Celsius	°C
	temperature	subtracting 32)	temperature	

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