



**Local Manufacture
of Workshop Equipment**

WORKSHOP
EQUIPMENT
for
Local Manufacture



VOLKSWAGENWERK AG WOLFSBURG

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Local Manufacture of Workshop Equipment

The publication "Local Manufacture of Workshop Equipment" has been brought up to date. Please note the following alterations:

1 — List of contents

Please replace the "List of Drawings for Local Manufacture" with the enclosed edition, as at September 1967.

2 — New tools introduced

The following have been introduced since the May 1966 edition of the list of drawings for local manufacture was issued:

- VW 612/3 — Additional Transmission Support for Engine Support Plate
- VW 771 — Multi-Purpose Tool
- VW 772 — Crift for Installing DU Bushes and Needle Bearings, upper and lower
- VW 777/7 — Tool Clips and Hooks
- VW 779 — Welding Appliance for Mounting Plate for the Front Transmission Mounting
- VW 781 — Pressure Piece for Clutch
- VW 782/1 — Measuring Bridge and Cranking Handle for Clutch
- VW 783 — Riveting Tools for Clutch Plate with Double Lining Springs
- VW 784 — Support for Transmission
- VW 785 — Transmission Support

3 — Modified tools

During the same period - as mentioned under point 2 - the following pages were altered and distributed:

- VW 612/2 — Engine Support Plate for Trolley Jack
- VW 637/2 — Hub Cap Puller
- VW 640/1 — Bead Breaker
- VW 652/4 — Assembly Rack (engine)
- VW 653/2 — Valve Spring Compressing Tool
- VW 655/3 — Spring Plate and Torsion Arm Tensioner
- VW 659/2 — Dial Indicator Bracket
- VW 689/1 — Mounting Plate for Cylinder Head with Valve Guide
Wear Measuring Appliance
- VW 758/1 — Adaptor for Steering Worm
- VW 774 — Tool for Checking Disc Brake Pad Wear
- VW 777/1 — Pedestal Type Tool Racks No. 1 and 2
- VW 777/2 — Mobile Tool Rack
- VW 777/4 — Rack for Cleaned Oil Strainers and Cylinder Head Covers

4 — Tools which have been discontinued:

The following illustrated pages and drawings are no longer valid and should be removed from the book:

- VW 605 ✓ — Gantry Crane
- VW 606 ✓ — Front End Lifter
- VW 611 ✓ — Movable Disassembly Locker
- VW 630 ✓ — Wash Plant
- VW 631 ✓ — Oil Tray for Repair Stand
- VW 633 ✓ — Trestle
- VW 638 ✓ — Drift for Torsion Arm Bushes
- VW 639 ✓ — Torsion Arm Bush Extractor
- VW 642 ✓ — Tool for Swing Lever Shaft
- VW 652/2 ✓ — Disassembly Rack for Transmission
- VW 658 ✓ — Gear shift Test Appliance (synchromesh transmission)
- VW 665 ✓ — Oil Pump Pilot
- VW 666 ✓ — Engine Test Stand
- VW 673 ✓ — Drilling Jig for Spring Plate
- VW 675 ✓ — Guide Shaft for the Face Cutter VW 217
- VW 694 ✓ — Puller for Sealing Cap; replaced by special service tool VW 228 b in conjunction with W 151 (Matra)
- VW 707 ✓ — Body Alignment Gauge for Convertible
- VW 731/1 ✓ — Tool for Body Straightening; replaced by W 35 (Matra)

*Missing
anyway*

} Replaced by Multi-purpose tool VW 771

Local Manufacture of Workshop Equipment

- ✓ 1. - Please replace the January 1962 list of drawings with the one enclosed.
2. ✓ Insert page VW 751 in the correct sequence.
- ✓ 3. - The following have been discontinued and should be removed from the book:
 - ✓ VW 701 - Engine Compartment Template
 - ✓ VW 702 - Front Wing Template
 - ✓ VW 703 - Rear Wing Template
 - ✓ VW 704 - Body Front End Template
 - ✓ VW 706 - Rear Side Panel Bracket Template

LOCAL MANUFACTURE OF WORKSHOP EQUIPMENT

- ✓ 1 - Please replace the July 1963 list of drawings with the one enclosed.
- 2 - The following have been discontinued and should be removed from the book:
 - ✓ VW 647 - Clip for Fuel Tube
 - ✓ VW 648 - Steering Gear Mounting Tube

List of Drawings for Local Manufacture

As at: September 1967

(replaces May 1966 edition)

LOCAL MANUFACTURE OF WORKSHOP EQUIPMENT

The list of drawings for local manufacture is generally reprinted and distributed once a year. In the meantime new items should be entered in the list in handwriting as they appear. Each new list gives you a chance to check the contents of your book. Items of local manufacture not included in this list have been discontinued and should be removed from the book.

Engine and Clutch

	Edition	Types					
		1	2	3	122	124	126
VW 600/1 — Engine Trolley	6/60	x	x	x	x	x	x
VW 612/2 — Engine Support Plate for Trolley Jack	8/67	x	x	x	x	x	x
VW 643 — Assembly Stand*	3/59	x	x	x	x	x	x
VW 644 — Exhaust Tail Pipe Removal Tool	1/62	x					
VW 645 — Push Rod Tube Centering Tool	1/61	x	x	x	x	x	x
VW 650/1 — Cylinder Retainer	6/59	x	x	x	x	x	x
VW 652/4 — Assembly Rack for Engine	9/66	x	x	x	x	x	x
VW 653/2 — Valve Spring Compressing Tool	12/66	x	x	x	x	x	x
VW 654 — Fitting Jig for Oil Filler	10/61			x			
VW 657 — Clutch Pressure Plate Compressing Tool		x	x	x	x	x	x
VW 659/2 — Dial Indicator Bracket	8/67	x	x	x	x	x	x
VW 661/2 — Oil Cooler Test Appliance	11/64	x	x	x	x	x	x
VW 662/2 — Oil Pressure Switch Tester	6/59	x	x	x	x	x	x
VW 667 — Clutch Cable Adjusting Tool		x	x	x			
VW 682 — Retaining Lever for Clutch Pressure Plate (Automatic Clutch)	6/60	x					
VW 683 — Retaining Device for Clutch Lever (Automatic Clutch)	6/60	x					
VW 684/1 — Gauge for Clutch lever (Automatic Clutch)	1/61	x					
VW 685 — Thrust Piece for Governor	1/61				x	x	x
VW 686 — Thrust Plate for Governor	1/61				x	x	x
VW 687 — Governor Adjusting Key	1/61				x	x	x
VW 688 — Checking Device for Governor Adjustment	1/61				x		x
VW 689/1 — Mounting Plate for Cylinder Head with Valve Guide Measuring Appliance	2/67	x	x	x	x	x	x
VW 695 — Governor Adjustment Test Appliance	8/63					x	

Appliances, tools and fixtures marked with* are also included in other groups according to their various uses.

	Edition	Types					
		1	2	3	122	124	126
VW 696 — Socket Wrench for the Crankshaft Pulley Fixing Bolt	8/63					x	
VW 698 — Valve Guide Replacing Tool	4/64	x	x	x	x	x	x
VW 699 — Fitting Sleeve for Oil Deflector Ring	12/63	x	x	x	x	x	x
VW 781 — Pressure piece for clutch	12/66	x	x	x	x	x	x
VW 782/1 — Measuring bridge and cranking handle for clutch	8/67	x	x	x	x	x	x
VW 783 — Riveting tool for clutch plate with double lining spring	10/66		x	x			
Fuel System							
VW 646/1 — Discharge Tube Tool — 28 PICT Carburetor —	8/61	x	x				
VW 663/1 — Fuel Pump Tester	6/60	x	x	x	x	x	x
VW 691 — Adjusting Device for the Twin Carburetor System	8/65			x			
Front Axle and Steering							
VW 610 — Front Axle Cradle for Trolley Jack	8/65	x	x				
VW 613 — Front Axle Cradle for Trolley Jack	10/61			x			
VW 637/2 — Inner Hub Cap Puller*	3/67	x	x	x			
VW 643 — Assembly Stand*	3/59	x	x	x	x	x	x
VW 649 — Guide Sleeve for Steering Roller Shaft	8/61	x		x			
VW 655/3 — Spring Plate and Torsion Arm Tensioner*	8/67			x			
VW 692 — Spring Clip Installing Sleeve	3/63			x			
VW 756 — Drift for DU Bearings and Needle Bearings, lower	8/64			x			
VW 757 — Drift for DU Bearings and Needle Bearings, upper	8/64			x			
VW 758/1 — Adaptor for Steering Worm	8/67	x		x			
VW 760 — King Pin Bush Slotting Tool	5/66	x					
VW 762 — Checking Device for Front Axle Body	3/66			x			
VW 767 — Drift for DU Bearings and Needle Bearing, lower	8/65	x					
VW 768 — Drift for DU Bearings and Needle Bearing, upper	8/65	x					
VW 769 — Dial Gauge Bracket for Wheel Adjustment	8/65	x	x	x			
VW 772 — Drift for installing DU bushes and needle bearings, upper and lower	8/67		x				
VW 776 — Retaining Bracket for Lower Torsion Arm	3/66			x			
VW 778 — Spring Clip Installing Sleeve	3/66	x					
VW 780 — Installing sleeve for Steel Spring Clip	5/66	x					
Rear Axle and Transmission							
VW 609 — Rear Axle Cradle for Trolley Jack		x	x	x			
VW 612/3 — Additional transmission support for engine support plate	8/67		x	x			
VW 643 — Assembly Stand*	3/59	x	x	x	x	x	x

Appliances, tools and fixtures marked with * are also included in other groups according to their various uses.

	Edition	Types					
		1	2	3	122	124	126
VW 655/3 — Spring Plate and Torsion Arm Tensioner*	8/67	×	×	×			
VW 664 — Differential Housing Holding Fixture		×	×				
VW 664/1 — Differential Housing Holding Fixture		×	×	×			
VW 679 — Transmission Oil Dipstick	6/60	×	×	×			
VW 681 — Extractor Lever for Main Drive Shaft Oil Seal	6/60	×	×	×			
VW 690 — Installing Device for Rear Axle Shaft Ball Bearing	12/62		×				
VW 693 — Device for Pressing Out Driven Gear and Shaft	8/63		×				
VW 761 — Bracket for Dial Gauge when Checking Backlash	4/65	×	×				
VW 773 — Oil Drain Canister for Reduction Gears	3/66		×				
VW 779 — Welding appliance for mounting plate for the front transmission mounting	9/67	×					
VW 784 — Support for transmission	8/67		×				
VW 785 — Transmission support	9/67			×			
Brakes, Wheels and Tyres							
VW 637/2 — Inner Hub Cap Puller*	3/67	×	×	×			
VW 640/1 — Bead Breaker	4/67	×	×	×			
VW 753 — Appliance for Checking Brake Lining Wear	11/64		×	×			
VW 759 — Appliance for Checking Brake Drum Ovality	12/64	×	×	×			
VW 774 — Tool for Checking Disc Brake Pad Wear	11/66			×			
VW 775 — Puller for Wheel Caps	3/66	×	×	×			
Frame							
VW 614 — Sub Frame Cradle for Trolley Jack	10/61			×			
VW 697 — Alignment Gauge for Frame Head	2/65		×				
VW 755 — Outside Seat Runner Welding Jig	3/64		×				
Body							
VW 602 — Body Trolley		×					
VW 616 — Painting Trolley for Separate Parts	9/63	×	×	×			
VW 705 — Disassembly Tool for Window Handles	10/61			×			
VW 709 — Torsion Bar Tensioning Tool	10/61			×			
VW 710 — Assembly Wrench for Glove Compartment Lid Lock	11/61			×			
VW 732 — Body Parting Tool		×	×	×			
VW 733 — Body Parting Tool (Pneumatic)		×	×	×			
VW 734 — Rain Drip Mould Deflanging Tool		×	×	×			
VW 736/1 — Headlining Tool	6/60	×	×	×			
VW 737/1 — Tool for Installing and Removing Vent Wing Glass	8/64	×	×	×			
VW 738/1 — Assembly Jig for Windshield and Rear View Window of Karmann Ghia Coupé		×		×			
VW 739/1 — Installation Tools for Windshield and Windows of Karmann Ghia Coupé		×		×			

Appliances, tools and fixtures marked with* are also included in other groups according to their various uses.

	Edition	Types					
		1	2	3	122	124	126
VW 74C — Door Frame Forming Tool	6/60	×		×			
VW 741 — Berding Bar — Kamann Ghia	6/60	×		×			
VW 742 — Forming Too	6/62	×	×	×			
VW 743 — Rib Forming Tool	6/62	×					
VW 744 — Window Frame Forming Tool	6/62	×	×	×			
VW 745 — Window Frame Forming Tool	6/62	×	×	×			
VW 746 — Forming Tool for Ribs and Folded Edges	6/62	×	×	×			
VW 747 — Berding Iron	6/62	×	×	×			
VW 748 — Berding Hook (straight)	6/62	×		×			
VW 749 — Bending Hook (curved)	6/62	×		×			
VW 750 — Finishing Iron	6/62	×	×	×			
VW 751 — Hinge Pin Removal and Installation Tool	3/63			×			
VW 752 — Centering Device for Headlight Opening	4/64			×			
VW 754 — Centering Device for Headlight Housing	6/64			×			
VW 764 — Mounting Sleeve for Flexible quarter Window	11/65			×			
Electrical System							
VW 635/2 — Headlight Aiming Screen	3/63	×	×	×			
VW 660 — Ignition Timing Adjustment Gauge with Test Lamp	1/65			×		×	
VW 674 — Special Cross Key	3/59	×			×		×
General Use							
VW 601 — Trolley for Assemblies and Units		×	×	×	×	×	×
VW 603/3 — Vehicle Trolley for VW Automobile	11/63	×	×	×			
VW 603/4 — Adaptor for Vehicle Trolley	11/61			×			
VW 615 — Adaptor for Trolley Jack	12/61	×	×	×			
VW 651 — Disassembly Trolley		×	×	×	×	×	×
VW 676 — Caster and Bracket	3/59	×	×	×			
VW 763 — Vehicle Locating Guide	6/65	×	×	×			
VW 770 — Assembly Bench	11/65	×	×	×	×	×	×
VW 771 — Multi purpose tool	8/67	×	×	×			
VW 777/1 — Pedestal Type Tool Racks No. 1 and 2	12/66	×	×	×			
VW 777/2 — Tool Trolley	12/66	×	×	×			
VW 777/3 — Rack for Oil Strainers and Cylinder Covers	3/66	×	×	×			
VW 777/4 — Rack for Cleaned Oil Strainers and Cylinder Head Covers	11/66	×	×	×			
VW 777/5 — Stand for Wheel Caps and Air Cleaners	3/66	×	×	×			
VW 777/6 — Basket for Adjustment Equipment	3/66			×			
VW 777/7 — Tool clips and hooks	12/66	×	×	×			

Conversion from Millimeters to Inches

1 Millimeter (mm) = .039370 Inch (")

Millim.	Inches	Millim.	Inches	Millim.	Inches	Millim.	Inches	Millim.	Inches
1/100	: .000 394	51/100	: .020 079	1	.039370	51	: 2.007 870	105	: 4.133 848
2	: .000 787	52	: .020 472	2	.078740	52	: 2.047 240	110	: 4.330 700
3	: .001 181	53	: .020 866	3	.118110	53	: 2.086 610	115	: 4.527 550
4	: .001 575	54	: .021 260	4	.157480	54	: 2.125 980	120	: 4.724 400
5	: .001 969	55	: .021 654	5	.196850	55	: 2.165 350	125	: 4.921 250
6	: .002 362	56	: .022 047	6	.236220	56	: 2.204 720	130	: 5.118 100
7	: .002 756	57	: .022 441	7	.275590	57	: 2.244 090	135	: 5.314 950
8	: .003 150	58	: .022 835	8	.314960	58	: 2.283 460	140	: 5.511 800
9	: .003 543	59	: .023 228	9	.354330	59	: 2.322 830	145	: 5.708 650
10	: .003 937	60	: .023 622	10	.393700	60	: 2.362 200	150	: 5.905 500
11/100	: .004 331	61/100	: .024 016	11	.433070	61	: 2.401 570	155	: 6.102 350
12	: .004 724	62	: .024 409	12	.472440	62	: 2.440 940	160	: 6.299 200
13	: .005 118	63	: .024 803	13	.511810	63	: 2.480 310	165	: 6.496 050
14	: .005 512	64	: .025 197	14	.551180	64	: 2.519 680	170	: 6.692 900
15	: .005 906	65	: .025 591	15	.590550	65	: 2.559 050	175	: 6.889 750
16	: .006 299	66	: .025 984	16	.629920	66	: 2.598 420	180	: 7.086 600
17	: .006 693	67	: .026 378	17	.669290	67	: 2.637 790	185	: 7.283 450
18	: .007 087	68	: .026 772	18	.708660	68	: 2.677 160	190	: 7.480 300
19	: .007 480	69	: .027 165	19	.748030	69	: 2.716 530	195	: 7.677 150
20	: .007 874	70	: .027 559	20	.787400	70	: 2.755 900	200	: 7.874 000
21/100	: .008 268	71/100	: .027 953	21	.826770	71	: 2.795 270	210	: 8.267 700
22	: .008 661	72	: .028 346	22	.866140	72	: 2.834 640	220	: 8.661 400
23	: .009 055	73	: .028 740	23	.905510	73	: 2.874 010	230	: 9.055 100
24	: .009 449	74	: .029 134	24	.944880	74	: 2.913 380	240	: 9.448 800
25	: .009 843	75	: .029 528	25	.984250	75	: 2.952 750	250	: 9.842 500
26	: .010 236	76	: .029 921	26	1.023620	76	: 2.992 120	260	: 10.236 200
27	: .010 630	77	: .030 315	27	1.062990	77	: 3.031 490	270	: 10.629 900
28	: .011 024	78	: .030 709	28	1.102360	78	: 3.070 860	280	: 11.023 600
29	: .011 417	79	: .031 102	29	1.141730	79	: 3.110 230	290	: 11.417 300
30	: .011 811	80	: .031 496	30	1.181100	80	: 3.149 600	300	: 11.811 000
31/100	: .012 205	81/100	: .031 890	31	1.220470	81	: 3.188 970	310	: 12.204 700
32	: .012 598	82	: .032 283	32	1.259840	82	: 3.228 340	320	: 12.598 400
33	: .012 992	83	: .032 677	33	1.299210	83	: 3.267 710	330	: 12.992 100
34	: .013 386	84	: .033 071	34	1.338580	84	: 3.307 080	340	: 13.385 800
35	: .013 780	85	: .033 465	35	1.377949	85	: 3.346 450	350	: 13.779 500
36	: .014 173	86	: .033 858	36	1.417319	86	: 3.385 820	360	: 14.173 200
37	: .014 567	87	: .034 252	37	1.456689	87	: 3.425 190	370	: 14.566 900
38	: .014 961	88	: .034 646	38	1.496050	88	: 3.464 560	380	: 14.960 600
39	: .015 354	89	: .035 039	39	1.535430	89	: 3.503 930	390	: 15.354 300
40	: .015 748	90	: .035 433	40	1.574800	90	: 3.543 300	400	: 15.748 000
41/100	: .016 142	91/100	: .035 827	41	1.614170	91	: 3.582 670	500	: 19.685 000
42	: .016 535	92	: .036 220	42	1.653540	92	: 3.622 040	600	: 23.622 000
43	: .016 929	93	: .036 614	43	1.692910	93	: 3.661 410	700	: 27.559 000
44	: .017 323	94	: .037 008	44	1.732280	94	: 3.700 780	800	: 31.496 000
45	: .017 717	95	: .037 402	45	1.771650	95	: 3.740 150	900	: 35.433 000
46	: .018 110	96	: .037 795	46	1.811020	96	: 3.779 520	1000	: 39.370 000
47	: .018 504	97	: .038 189	47	1.850390	97	: 3.818 890	2000	: 78.740 000
48	: .018 898	98	: .038 583	48	1.889760	98	: 3.858 260	3000	: 118.110 000
49	: .019 291	99	: .038 976	49	1.929130	99	: 3.897 630	4000	: 157.480 000
50	: .019 685	1 mm	: .039 370	50	1.968500	100	: 3.937 000	5000	: 196.850 000

Conversion from Inches to Millimeters

1 Inch (") = 25.400 0508 Millimeters (mm)

Inches	Millimeters	Inches	Millimeters	Inches	Millimeters	
$\frac{1}{64}$	.015 625	0,396 8758	.0001	0,002 540	.40	10,160 020
$\frac{1}{32}$	.031 250	0,793 752	.0002	0,005 080	.41	10,414 020
$\frac{3}{64}$	.046 875	1,190 627	.0003	0,007 620	.42	10,668 021
$\frac{1}{16}$	.062 500	1,587 503	.0004	0,010 160	.43	10,922 021
$\frac{5}{64}$	.078 125	1,984 379	.0005	0,012 700	.44	11,176 022
$\frac{3}{32}$	.093 750	2,381 255	.0006	0,015 240	.45	11,430 022
$\frac{7}{64}$	.109 375	2,778 131	.0007	0,017 780	.46	11,684 023
$\frac{1}{8}$	.125 000	3,175 006	.0008	0,020 320	.47	11,938 023
$\frac{9}{64}$	.140 625	3,571 882	.0009	0,022 860	.48	12,192 024
$\frac{5}{32}$	.156 250	3,968 958			.49	12,446 024
$\frac{11}{64}$	.171 875	4,365 634				
$\frac{3}{16}$	.187 500	4,762 510	.001	0,025 400	.50	12,700 025
$\frac{13}{64}$	.203 125	5,159 385	.002	0,050 800	.51	12,954 025
$\frac{7}{32}$	.218 750	5,556 261	.003	0,076 200	.52	13,208 026
$\frac{15}{64}$	.234 375	5,953 137	.004	0,101 600	.53	13,462 026
$\frac{1}{4}$	.250 000	6,350 013	.005	0,127 000	.54	13,716 027
$\frac{17}{64}$	.265 625	6,746 889	.006	0,152 400	.55	13,970 027
$\frac{9}{32}$	.281 250	7,143 764	.007	0,177 800	.56	14,224 028
$\frac{19}{64}$	.296 875	7,540 640	.008	0,203 200	.57	14,478 028
$\frac{5}{16}$	.312 500	7,937 516	.009	0,228 600	.58	14,732 029
$\frac{21}{64}$	.328 125	8,334 392			.59	14,986 029
$\frac{11}{32}$	.343 750	8,731 268	.01	0,254 000		
$\frac{23}{64}$	.359 375	9,128 143	.02	0,508 001	.60	15,240 030
$\frac{3}{8}$	.375 000	9,525 019	.03	0,762 001	.61	15,494 030
$\frac{25}{64}$	.390 625	9,921 895	.04	1,016 002	.62	15,748 031
$\frac{13}{32}$	.406 250	10,318 771	.05	1,270 002	.63	16,002 032
$\frac{27}{64}$	.421 875	10,715 647	.06	1,524 003	.64	16,256 032
$\frac{7}{16}$	.437 500	11,112 522	.07	1,778 003	.65	16,510 033
$\frac{29}{64}$	.453 125	11,509 398	.08	2,032 004	.66	16,764 033
$\frac{15}{32}$	.468 750	11,906 274	.09	2,286 004	.67	17,018 034
$\frac{31}{64}$	.484 375	12,303 150			.68	17,272 034
$\frac{1}{2}$	.500 000	12,700 026	.10	2,540 005	.69	17,526 035
$\frac{33}{64}$	.515 625	13,096 901	.11	2,794 005		
$\frac{17}{32}$	.531 250	13,493 777	.12	3,048 006	.70	17,780 035
$\frac{35}{64}$	.546 875	13,890 653	.13	3,302 006	.71	18,034 036
$\frac{9}{16}$	.562 500	14,287 529	.14	3,556 007	.72	18,288 036
$\frac{37}{64}$	.578 125	14,684 405	.15	3,810 007	.73	18,542 037
$\frac{19}{32}$	.593 750	15,081 280	.16	4,064 008	.74	18,796 037
$\frac{39}{64}$	.609 375	15,478 156	.17	4,318 008	.75	19,050 038
$\frac{5}{8}$	.625 000	15,875 032	.18	4,572 009	.76	19,304 038
$\frac{41}{64}$	.640 625	16,271 908	.19	4,826 009	.77	19,558 039
$\frac{21}{32}$	.656 250	16,668 784			.78	19,812 039
$\frac{43}{64}$	.671 875	17,065 659			.79	20,066 040
$\frac{11}{16}$	.687 500	17,462 535	.20	5,080 010		
$\frac{45}{64}$	.703 125	17,859 411	.21	5,334 010	.80	20,320 040
$\frac{23}{32}$	.718 750	18,256 287	.22	5,588 011	.81	20,574 041
$\frac{47}{64}$	.734 375	18,653 163	.23	5,842 012	.82	20,828 041
$\frac{3}{4}$	.750 000	19,050 038	.24	6,096 012	.83	21,082 042

Inches	Millimeters	Inches	Millimeters	Inches	Millimeters	
$\frac{49}{64}$:	.765 675 :	19,446 914	.25 :	6,350 012	.84 :	21,336 042
$\frac{51}{64}$:	.781 250 :	19,843 790	.26 :	6,604 013	.85 :	21,590 043
$\frac{52}{64}$:	.796 875 :	20,240 666	.27 :	6,858 013	.86 :	21,844 043
$\frac{53}{64}$:	.812 500 :	20,637 541	.28 :	7,112 014	.87 :	22,098 044
$\frac{54}{64}$:	.828 125 :	21,034 417	.29 :	7,366 014	.88 :	22,352 044
$\frac{55}{64}$:	.843 750 :	21,431 293	.30 :	7,620 015	.89 :	22,606 045
$\frac{56}{64}$:	.859 375 :	21,828 169	.31 :	7,874 015	.90 :	22,860 045
$\frac{57}{64}$:	.875 000 :	22,225 045	.32 :	8,128 016	.91 :	23,114 046
$\frac{58}{64}$:	.890 625 :	22,621 921	.33 :	8,382 016	.92 :	23,368 046
$\frac{59}{64}$:	.906 250 :	23,018 796	.34 :	8,636 017	.93 :	23,622 047
$\frac{60}{64}$:	.921 875 :	23,415 672	.35 :	8,890 017	.94 :	23,876 047
$\frac{61}{64}$:	.937 500 :	23,812 548	.36 :	9,144 018	.95 :	24,130 048
$\frac{62}{64}$:	.953 125 :	24,209 424	.37 :	9,398 018	.96 :	24,384 048
$\frac{63}{64}$:	.968 750 :	24,606 300	.38 :	9,652 019	.97 :	24,638 049
$\frac{64}{64}$:	.984 375 :	25,003 175	.39 :	9,906 019	.98 :	24,892 049
1 :	1.000 000 :	25,400 0508			.99 :	25,146 050

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