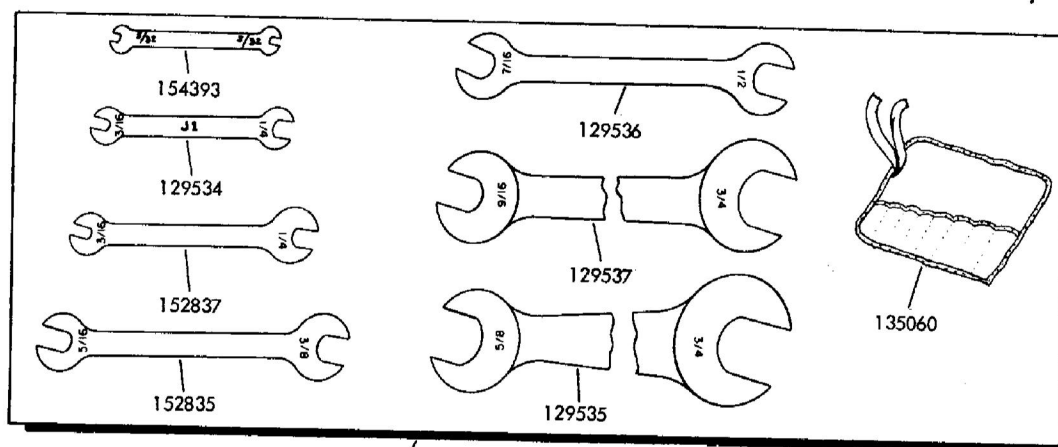
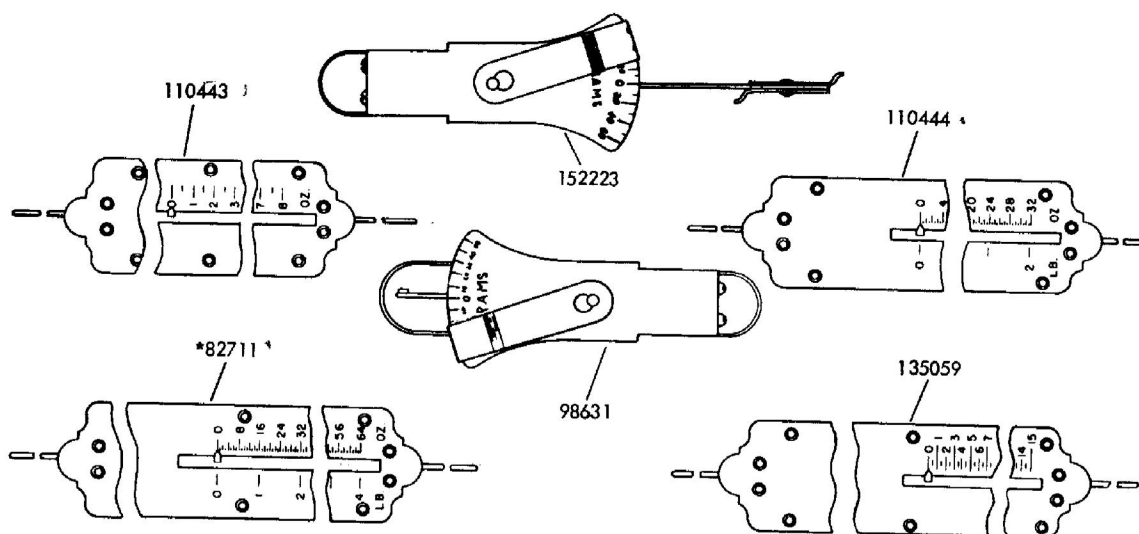
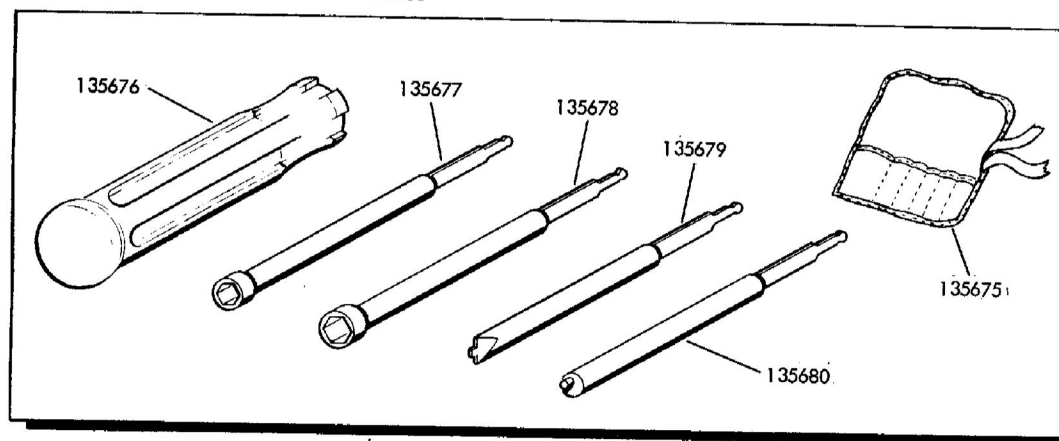


MAINTENANCE TOOLS

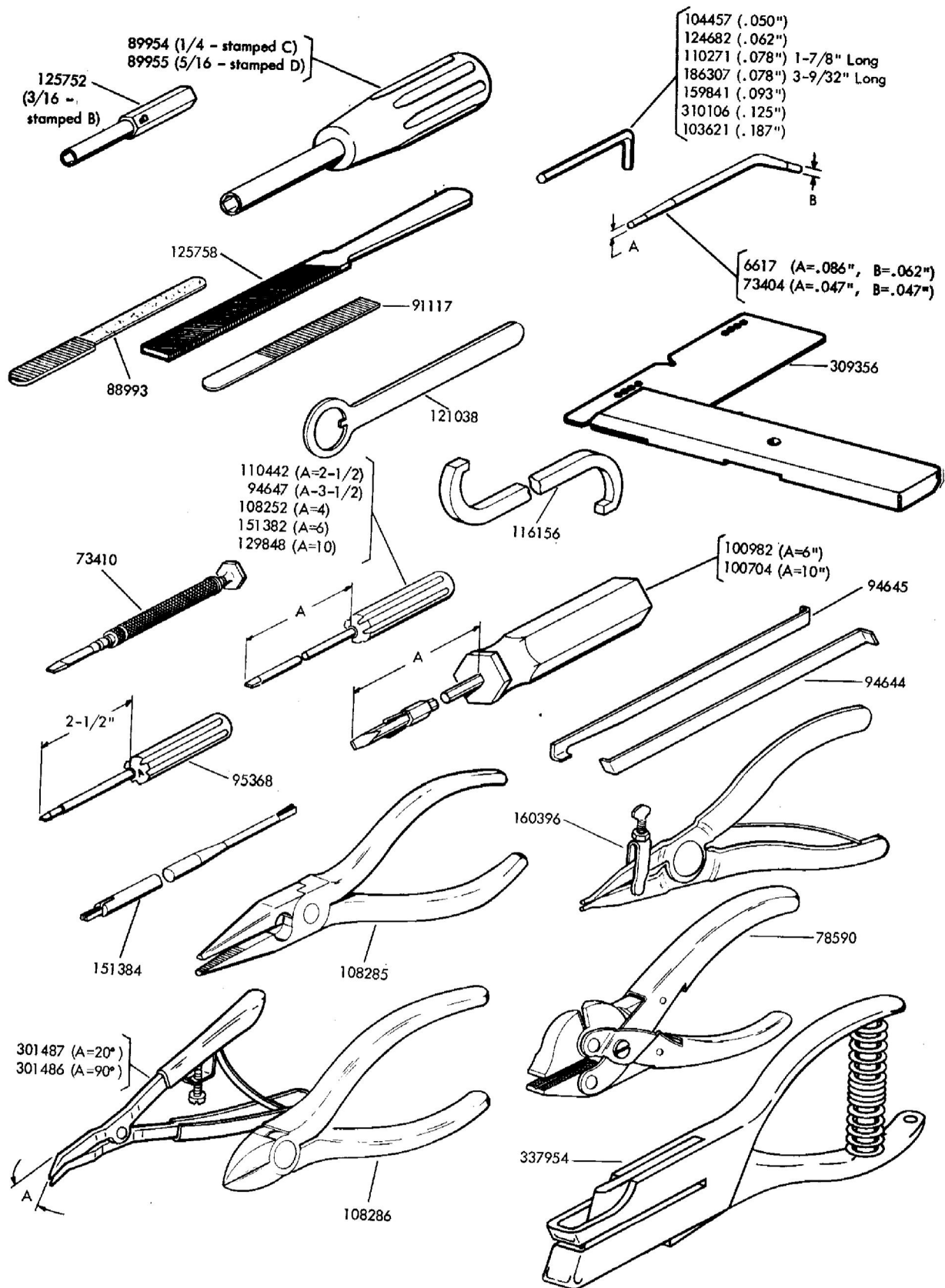


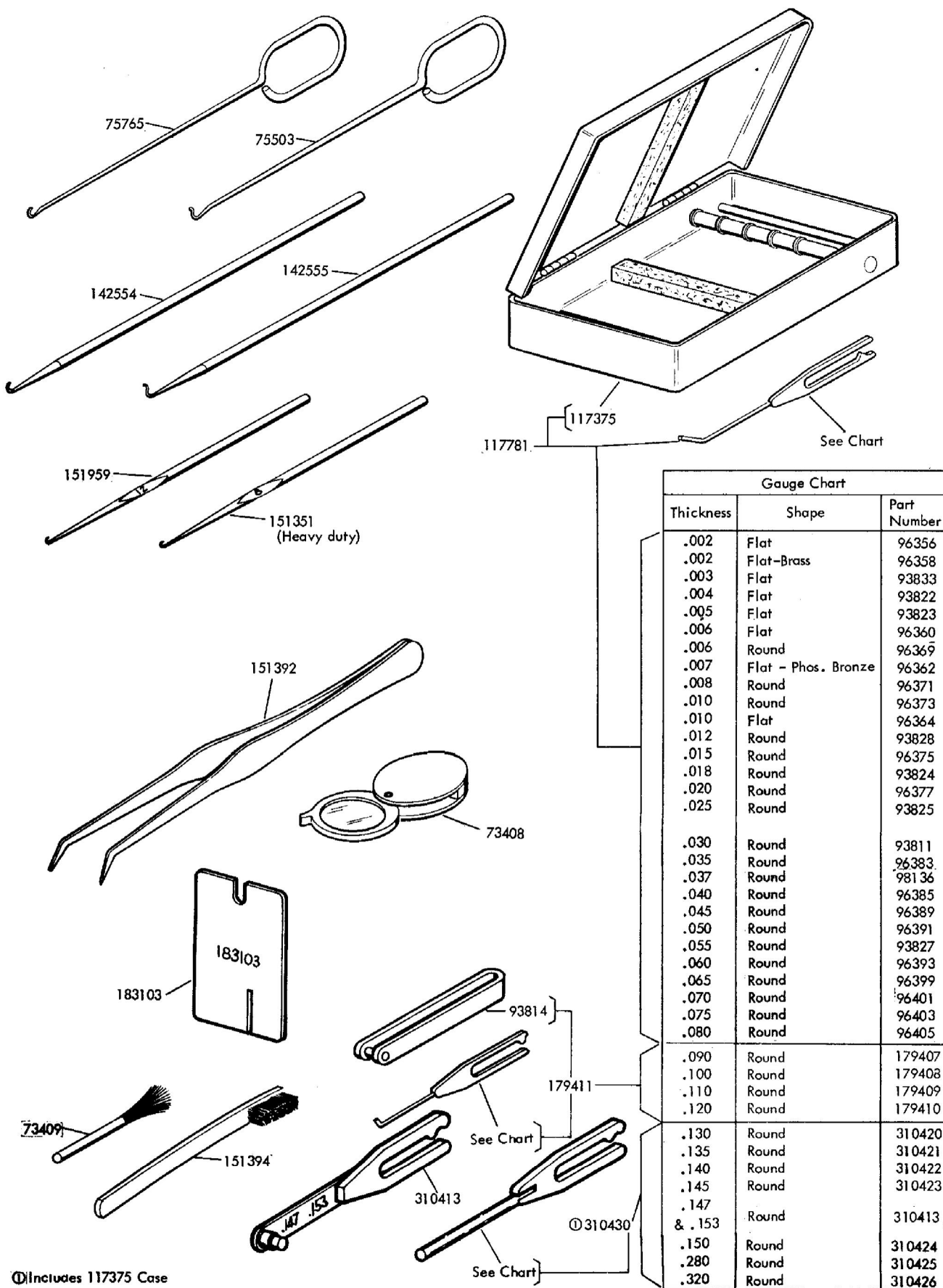
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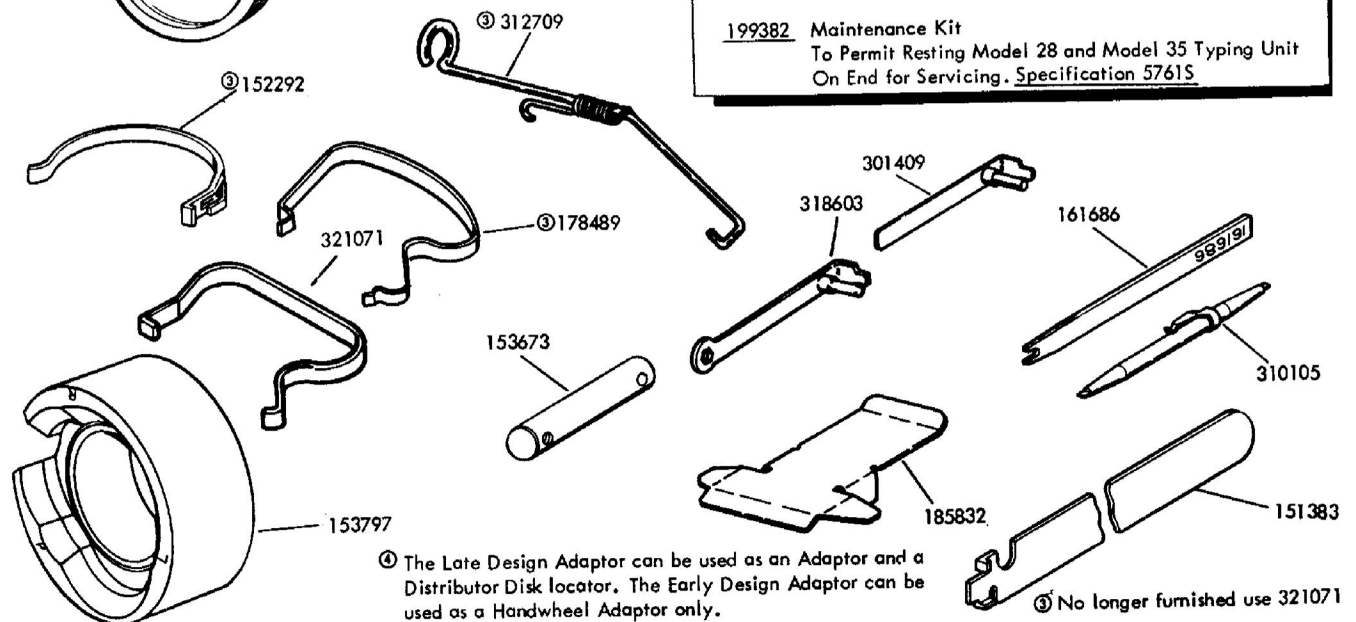
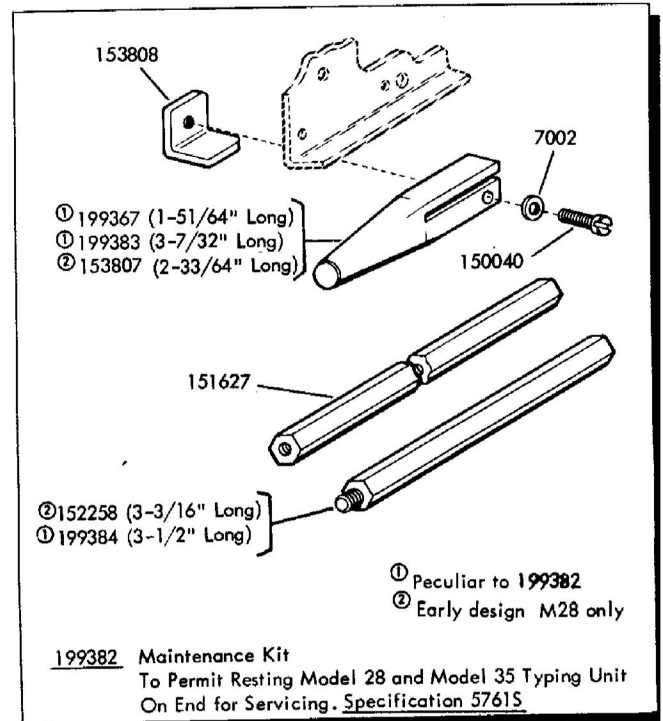
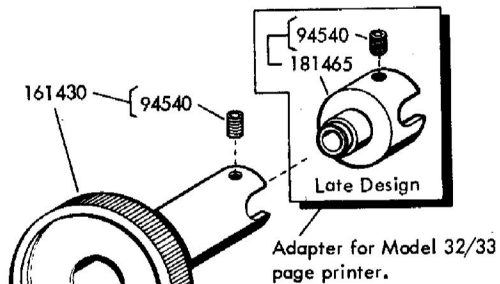
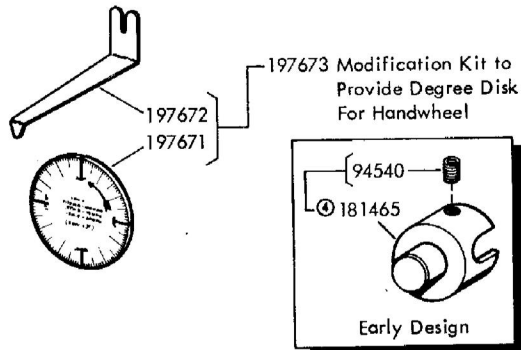
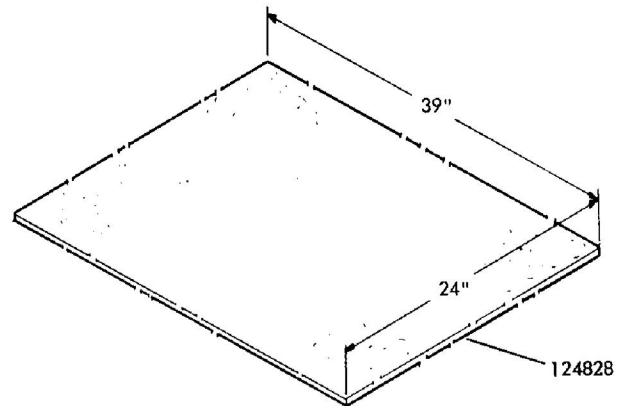
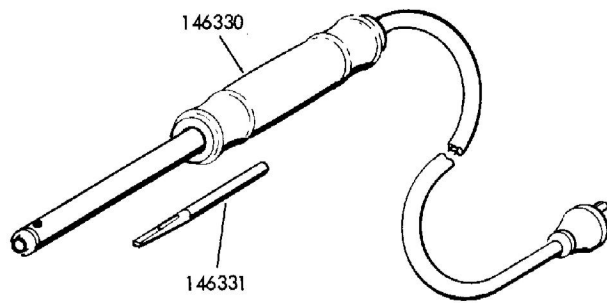


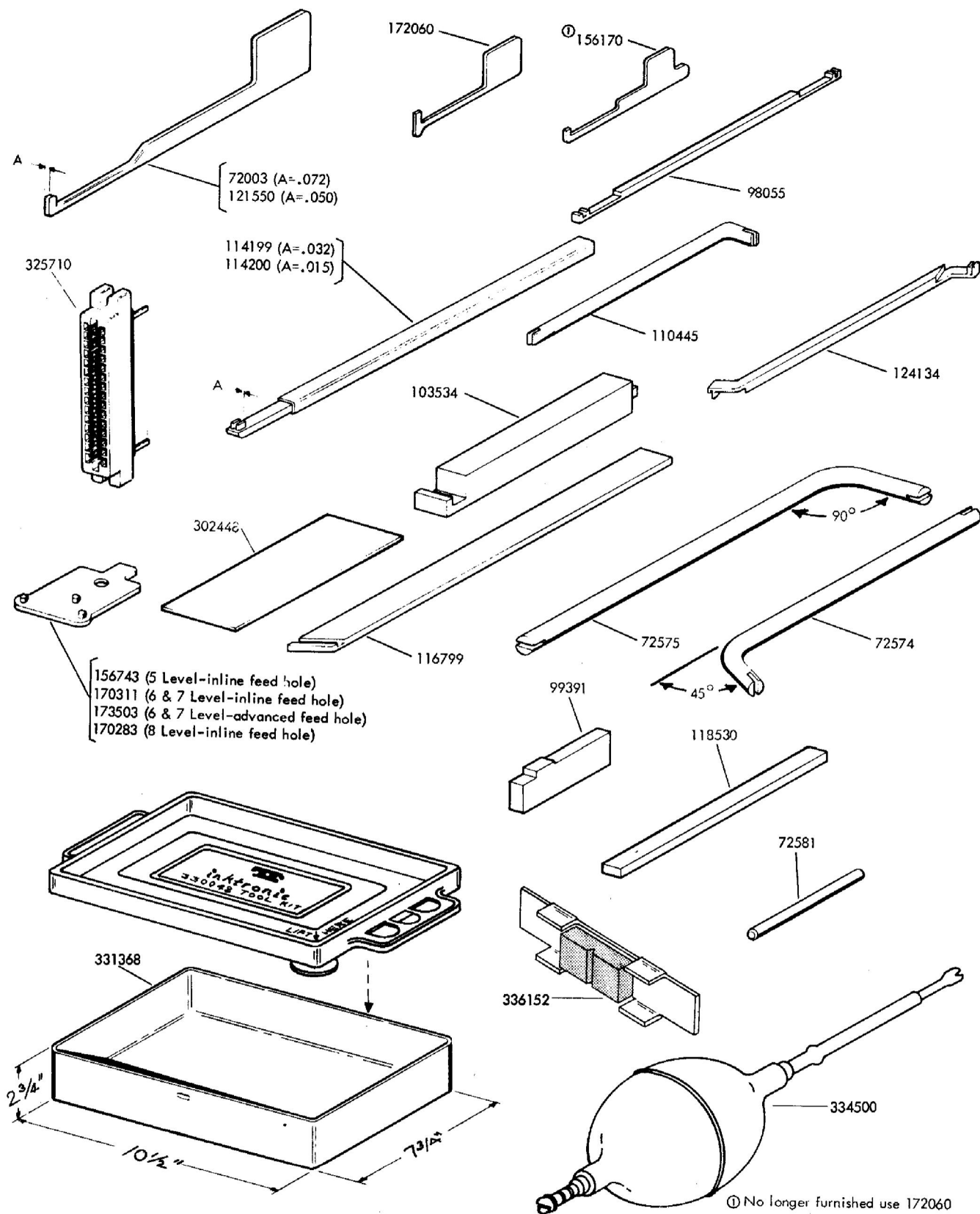
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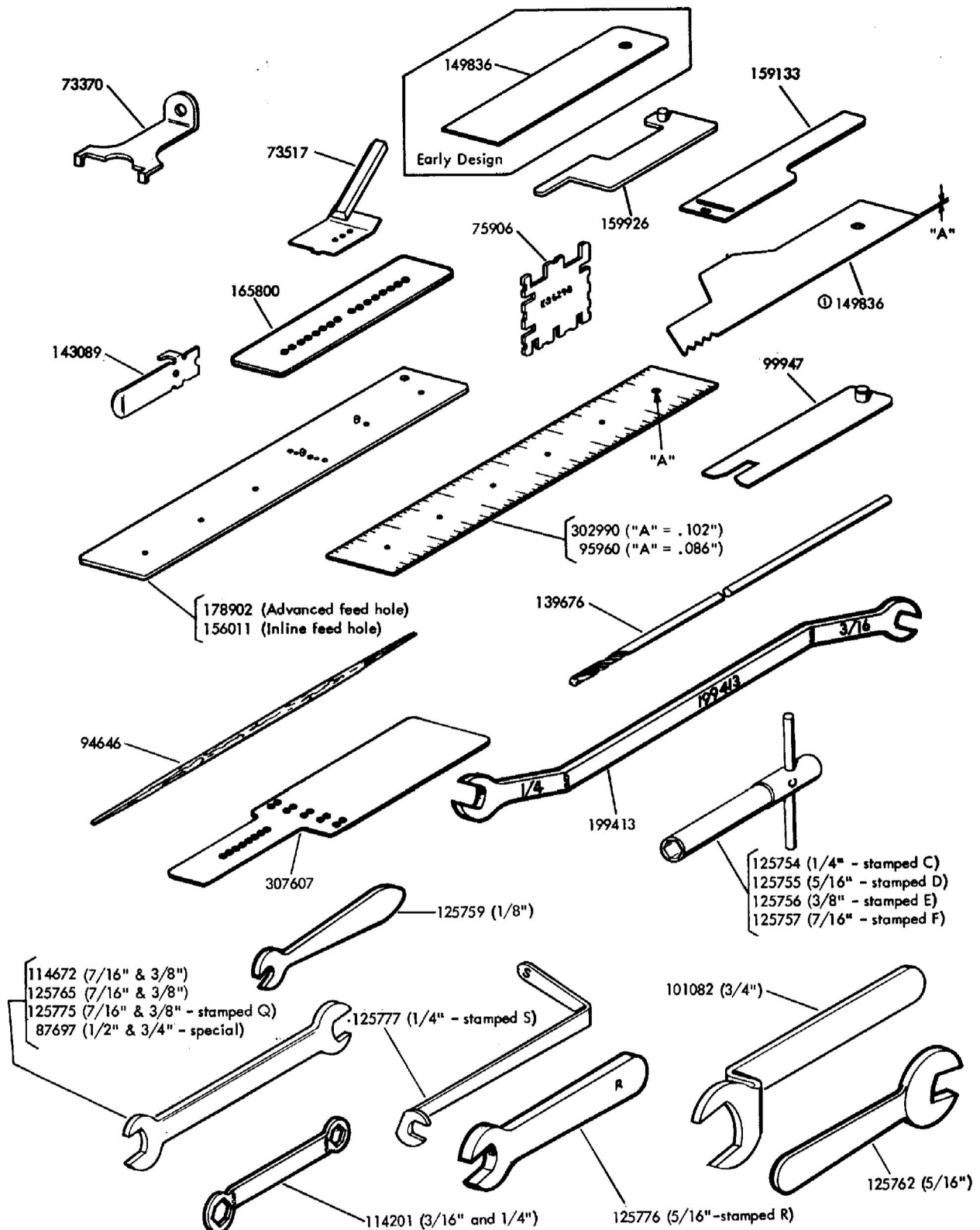
*Total calibration range may be greater than shown.



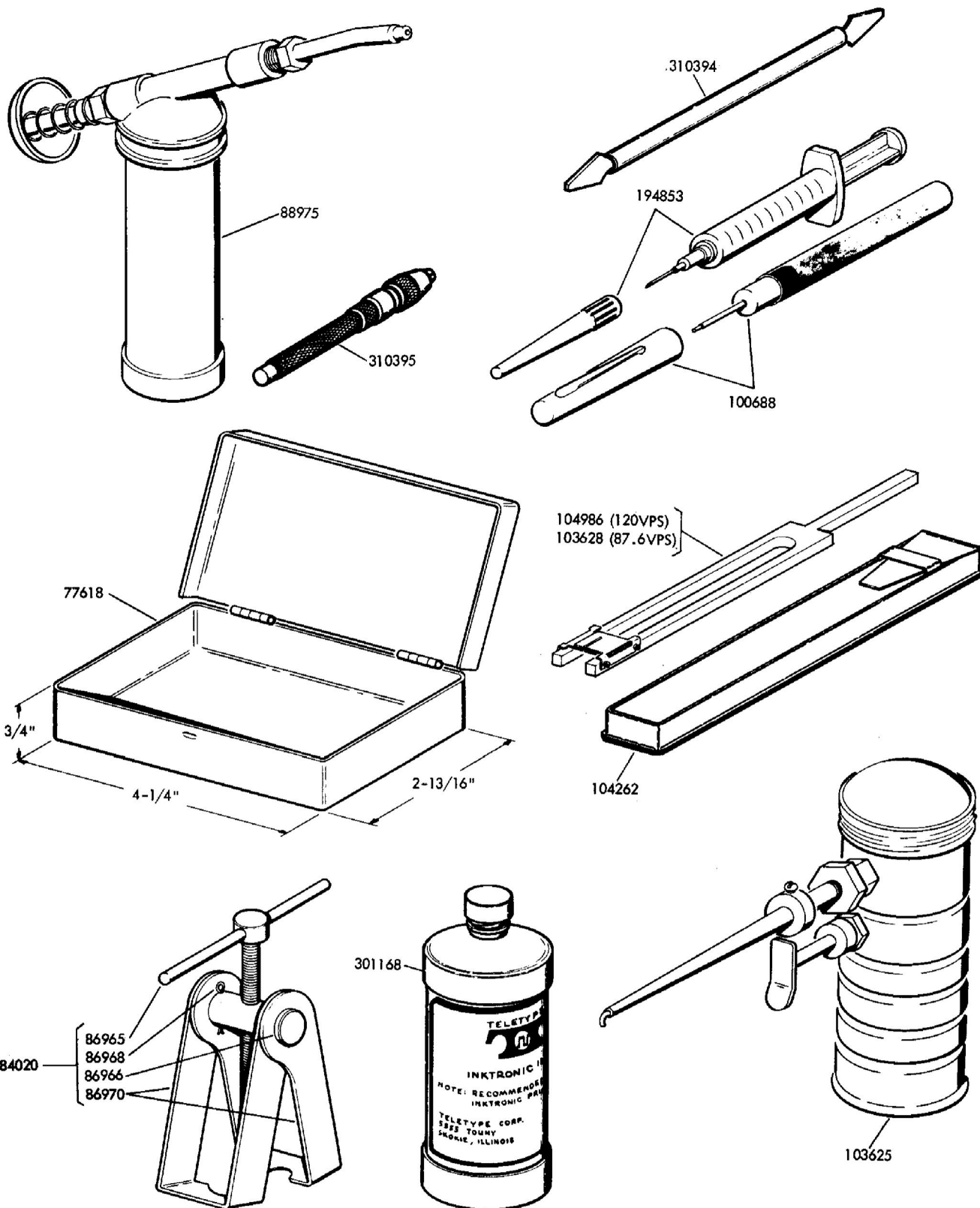


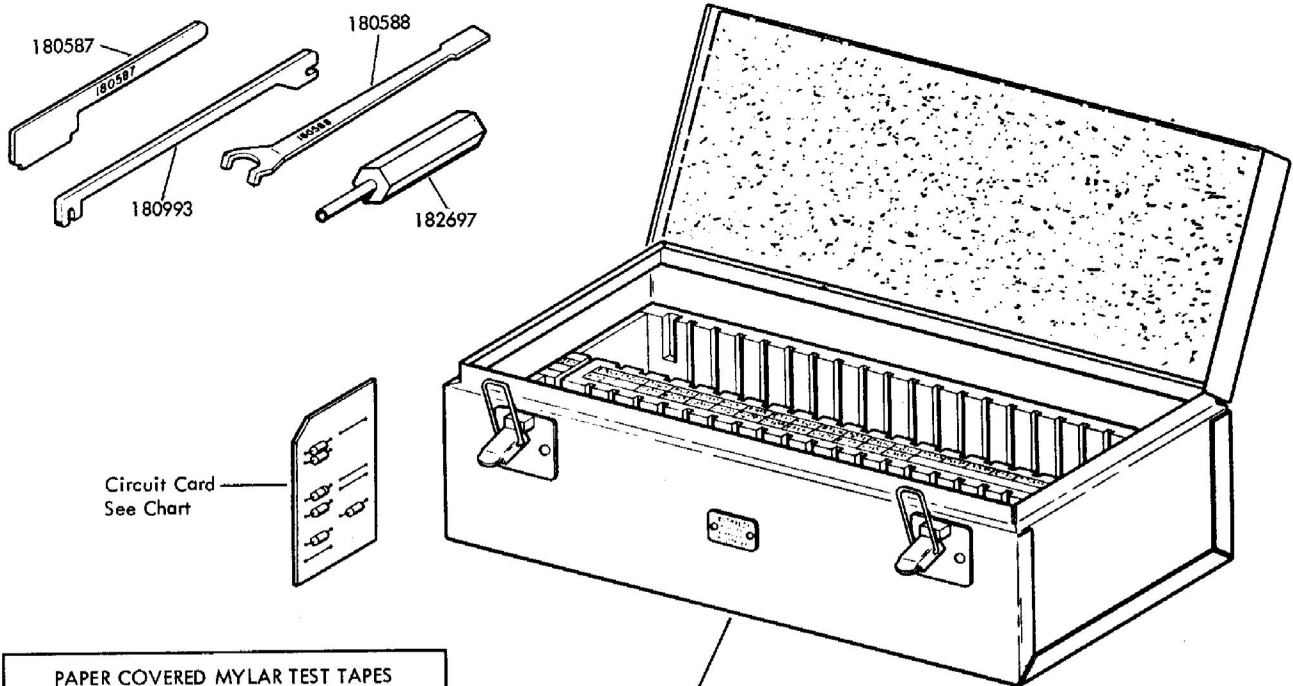






① The 149836 Punch Block Cleaner ("A" = .005") can be used on punch block assemblies either with or without verifier. The 149836 Punch Block Cleaner ("A" = .006") can be used only on punch block assemblies without verifier.

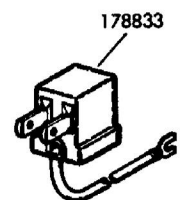
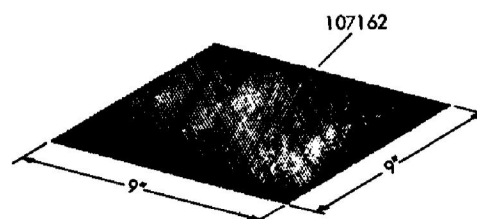


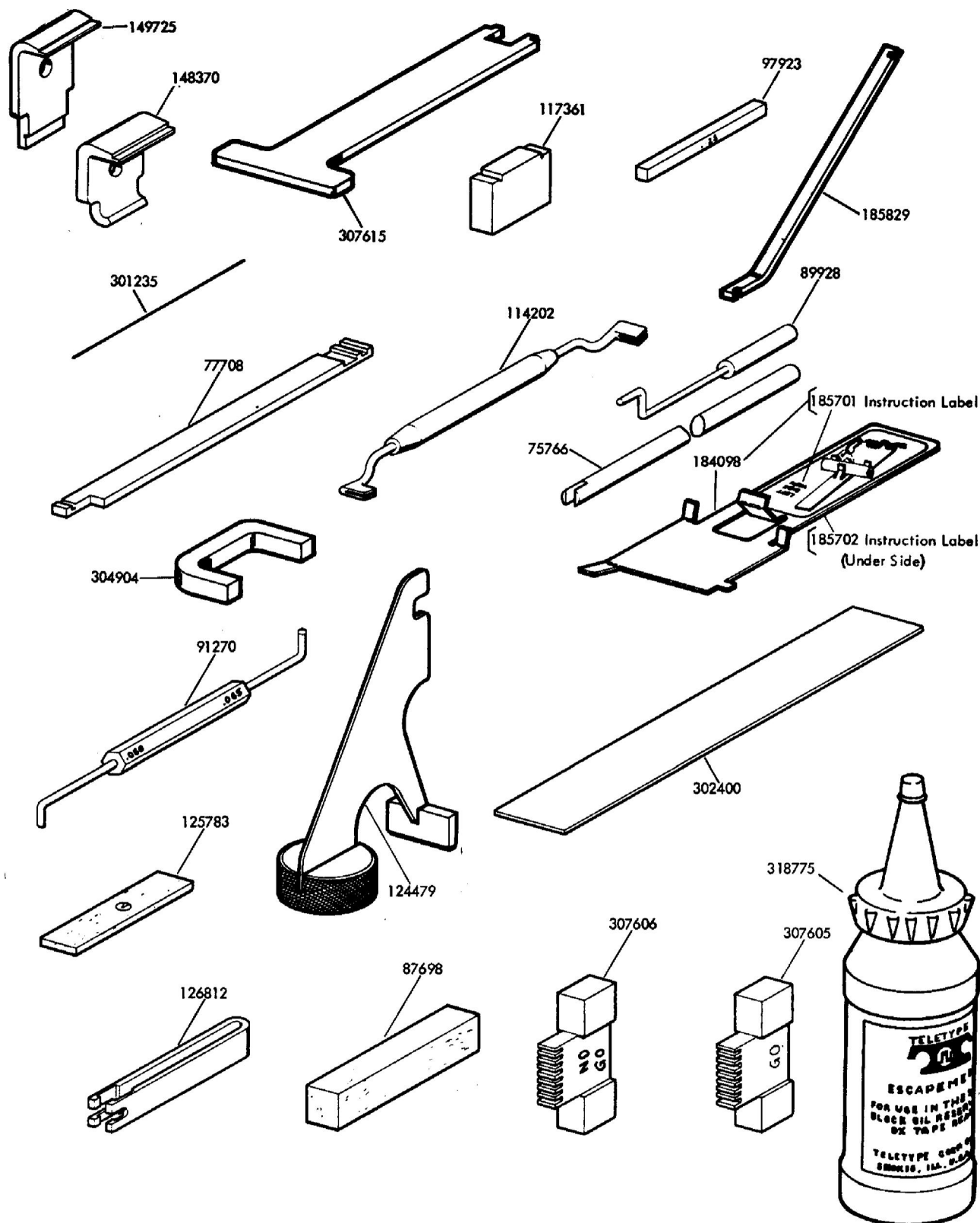


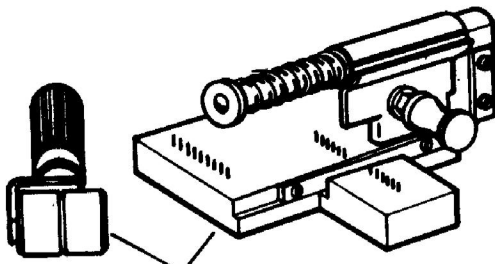
PAPER COVERED MYLAR TEST TAPES		
Description	Code	Part Number
27 Repetitions of 14 Character Pattern	5 Level	146605
27 Repetitions of 14 Character Pattern	8 Level	146606
27 Repetitions of 14 Character Pattern	6 Level	146861
78 Repetitions of 14 Character Pattern	5 Level	148101
78 Repetitions of 14 Character Pattern	8 Level	148102
189 Repetitions of 2 Character pattern	8 Level	148554
Error detection and correction (EDC)	8 Level	303069
480 Repetitions of Single Character Pattern	8 Level	303098
240 Repetitions of 2 Character Pattern	8 Level	303099
17" of repeated letters Character Pattern	5 Level	320279
"Brown Fox" Sequence	5 Level	305734
	8 Level	305735
"Brown Fox" Pattern	5 Level	326742
	8 Level	326743

146540 146538

146539 Spare Circuit Card Kit			
Designation	Part Number	Designation	Part Number
EC321	172321	EC374	172374
EC322	172322	EC375	172375
EC323	172323	EC385	172385
EC324	172324	EC394	172394
EC325	172325	EC395	172395
EC326	172326	EC396	172396
EC333	172333	EC401	172401
EC347	172347	EC420	172420
EC351	172351	EC431	172431
EC352	172352	EC469	172469
EC355	172355	EC473	172473
EC359	172359	EC475	172475
EC361	172361	EC490	172490
EC363	172363	EC520	146520
EC365	172365	EC521	146521
172450 Extension Card Assembly (15 Pin)			
148454 Extension Card Assembly (36 Pin)			

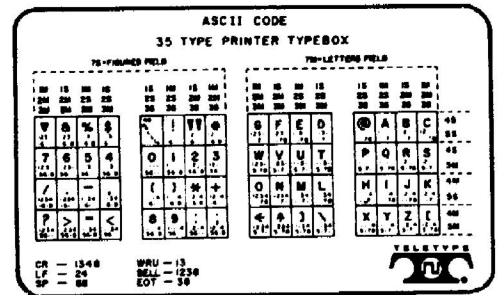
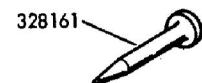
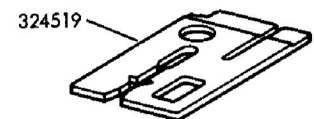
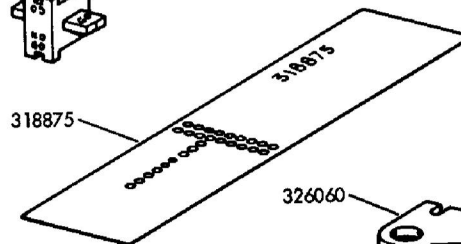
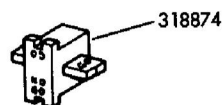
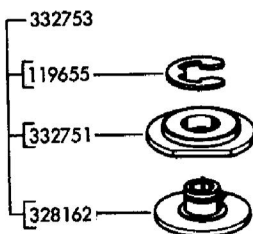
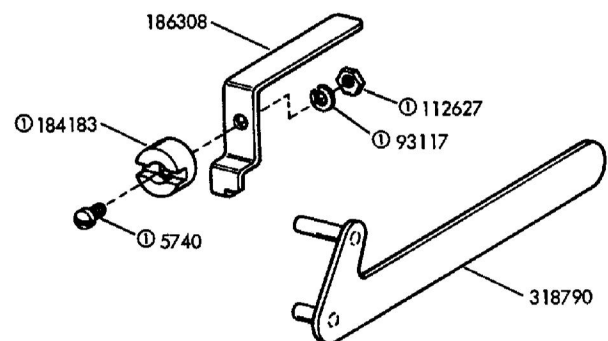
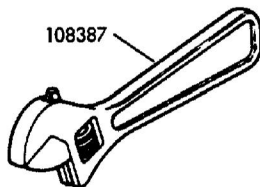
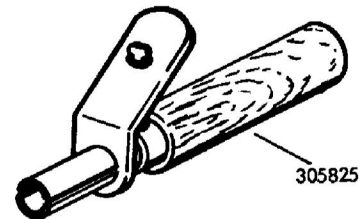
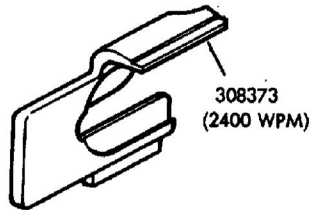
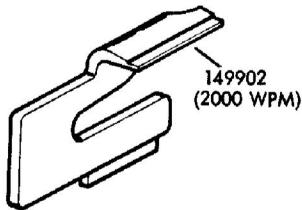




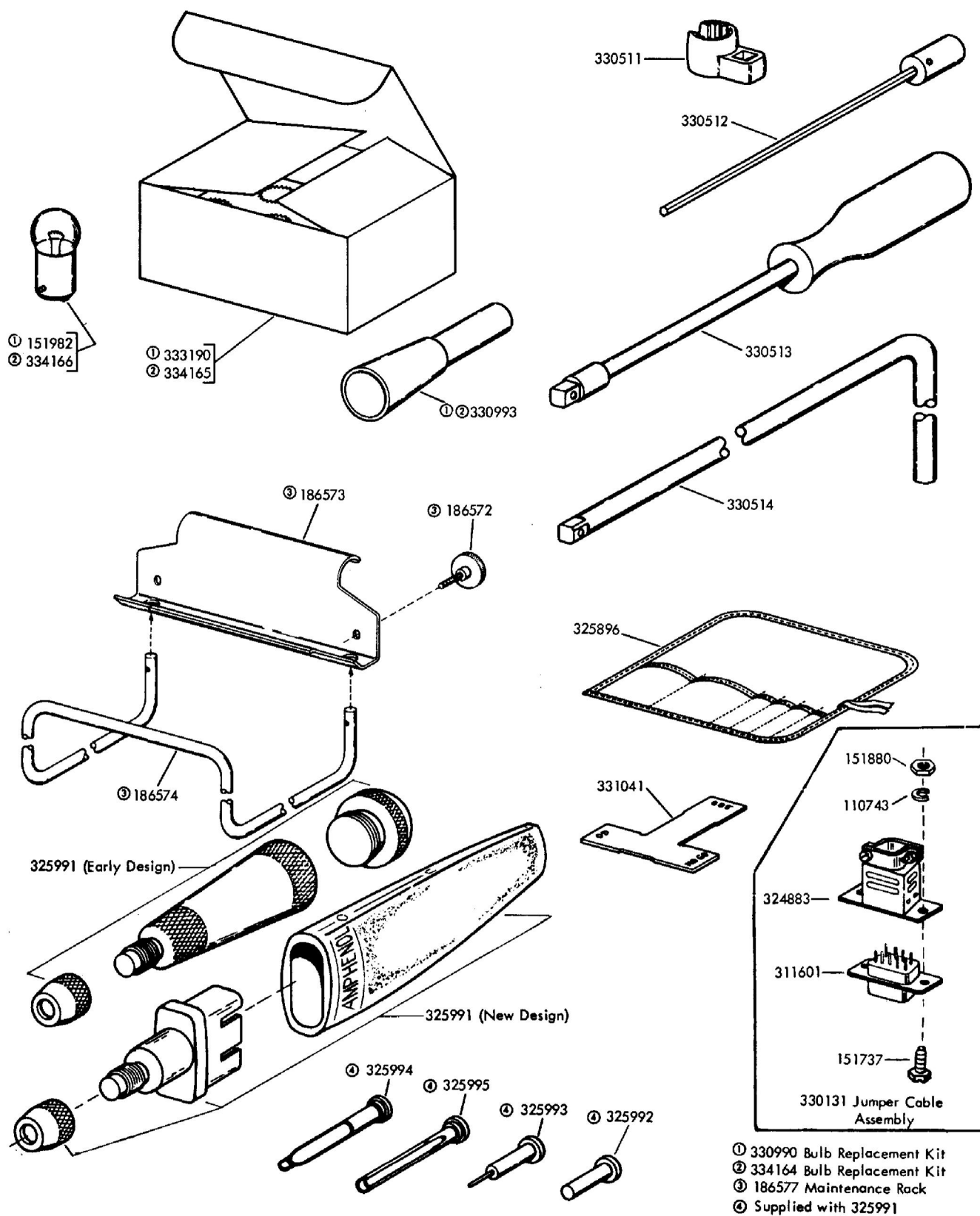


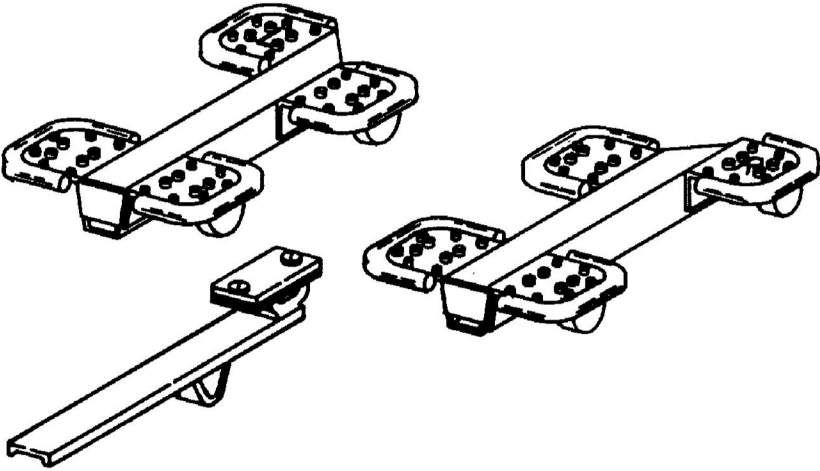
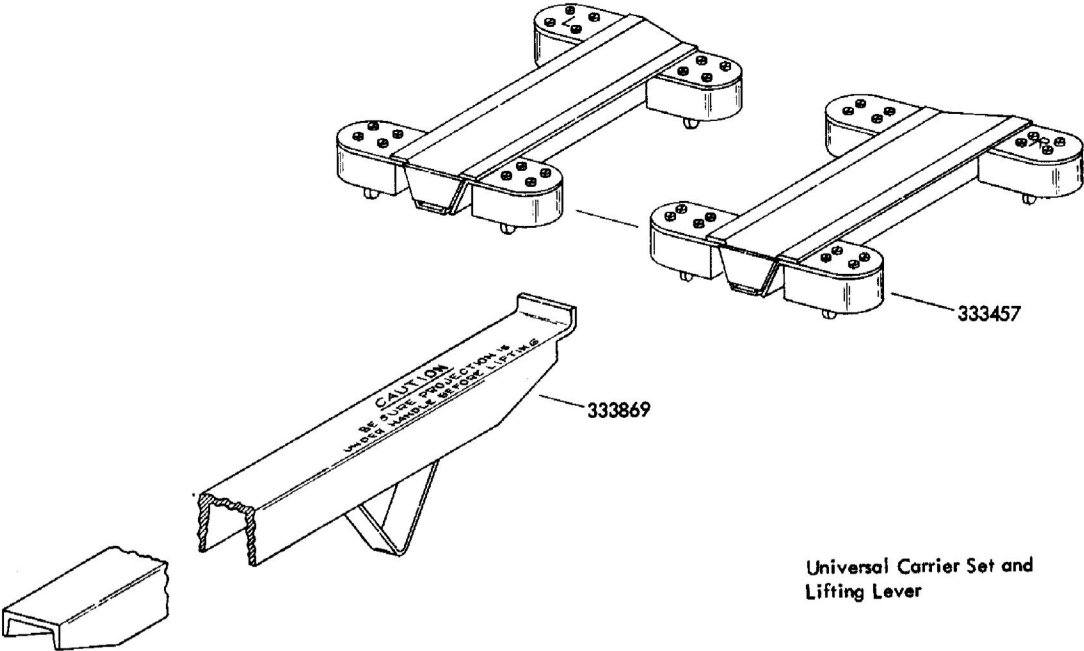
317212 (Bell System Code 2A)

SPlicing PATCHES				
CODE LEVELS	TELETYPE PART NO.	COLOR CODE	FEED HOLES	PATCH WIDTH
5	317325	BLUE	IN LINE	11/16
6	317326	RED	ADVANCED	7/8
7	317327	LAVENDER	IN LINE	7/8
8	317328	GREEN	IN LINE	1"


 152050 (Model 28)
 321942 (Model 33 and 35)


① Part of 186308





179661 (Carrier for model 28 only)

TOUCH UP PAINT - 1 PINT								
Air Dry Brush Enamel						Air Dry Brush Lacquer		
Smooth Finish			Wrinkle Finish			Smooth Vinyl		
Color	Teletype Code	Part Number	Color	Teletype Code	Part Number	Color	Teletype Code	Part Number
Black High Gloss	BA	143431	Black	AA	120820	Light Olive Gray	HF	304364
Black Semi-Gloss	BB	143432	Gray Green	AB	120821	Gray Green	GA	304365
Light Gray (Coast Guard)	BH	143433	Light Brown	AC	120822	Light Aqua	HK	304366
Gray Green	BK	143434	Dark Brown	AD	120823			
Light Gray	BR	143435						
Light Gray (Navy)	BU	143435						
Charcoal Gray	BZ	143436						
Navy Ocean Gray	ED	143437						
Light Olive Gray	EW	143438						

LUBRICANTS					
Grease			Oil		
Part Number	Quantity	Brand Name	Application	Quantity	Part Number
88973	1 lb		General	1 qt	88970
97116	4 oz			1 gal	88971
108805	2 oz	Lubriplate 105 or TKS102			
143484	1 lb	Mobil #2			
145867	4 oz	Mobil #2			
195298	1 lb	Beacon #325 or TKS103			
301313	1-3/4 oz	Aero Lubriplate			

ADHESIVE		
Quantity	Application	Part Number
5 oz	Felt Pads	143285
1 Pint	Rubber Pads And Insulators	163584
1 Pint	Air Filter	175379

GASKET MATERIAL	
Description	Part Number
Self-Adhesive Polyurethane 50 Ft Roll	305713

CLEANING CONCENTRATE	
Quantity	Part Number
1 Gal Can	321052
5 Gal Can	321078
6oz Aerosol Can (Electrode Cleaner)	334510
16 oz Aerosol Can (Contact Cleaner)	337988
5 oz Tube (Hand Cleaner)	334508

SHOP TOWELS	
Description	Part Number
Masslinn 12" x 17" Open Size Packed Folded (8-1/2" x 6") in 100 per Cardboard Box Dispenser	310397
Twill Jean Cloth (9" x 9")	107162
Glove: Silicone-Free Large size.	337607

TOOL KITS

113778 Universal Tool Kit contains the following:

Part Number	Description	Page Number	Part Number	Description	Page Number
6617	Wrench, Tommy	3	110443	Scale, 8 oz Spring	2
72003	Bender, Contact Spring	6	110444	Scale, 32 oz Spring	2
72574	Tool, Holding	6	113756	Wrench Set	2
72575	Tool, Finger Bending	6	113777	Tool Kit	2
72581	Pin, Gauge	6	116156	Wrench, Spanner	3
73370	Gauge, Locating	7	117781	Gauge Set, Feeler	4
73404	Wrench, Tommy	3	124134	Bender, Contact Spring	6
73408	Magnifier	4	124682	Wrench, Hex Key	3
75503	Hook, Push Spring	4	125752	Wrench, 3/16" Socket	3
75765	Hook, Pull Spring	4	129848	Screwdriver	3
77618	Box, Tool	8	135059	Scale, 15 lb. Spring	2
82711	Scale, 64 oz Spring	2	142554	Hook, Pull Spring	4
87698	Stone, Carborundum	10	142555	Hook, Push Spring	4
88993	Burnisher, Contact	3	151351	Hook, Pull Spring	4
91117	File, Contact	3	151384	Holder, Screw	3
94644	Screwdriver, 30° Offset	3	151392	Tweezers	4
94645	Screwdriver, 90° Offset	3	151959	Hook, Pull Spring	4
95368	Screwdriver	3	152223	Scale, 70 gram Spring	2
95960	Gauge, Tape	7	321071	Clip, Armature	5
99947	Tool, Punch Block Cleaning	7	159841	Wrench, Hex Key	3
104457	Wrench, Hex Key	3	161686	Tool, Tine Removal	5
110271	Wrench, Hex Key	3	179411	Gauge Set, Feeler	4

146642 Special Tool Kit (To Supplement The 113778 Tool Kit) contains the following:

Part Number	Description	Page Number	Part Number	Description	Page Number
110445	Bender, Contact Spring	6	145867	Grease, 4 oz Tube	14
143089	Clip, Armature	7	172060	Bender, Contact Spring	6

151940 Special Tool Kit (Model 28 Page Printer Set) contains the following:

Part Number	Description	Page Number	Part Number	Description	Page Number
73408	Magnifier	4	151392	Tweezers	4
100982	Screwdriver w/Clip	3	151394	Brush, Type Cleaning	4
151351	Hook, Pull Spring	4	151959	Hook, Pull Spring	4
151382	Screwdriver	3	152835	Wrench, 5/16" & 3/8" Cpen End	2
151383	Tool, Keylever Remover	5	152837	Wrench, 3/16" & 1/4" Cpen End	2
151384	Holder, Screw	3	161430	Handwheel	5

159114 Tool Kit (Model 28 Equipment) contains the following:

Part Number	Description	Page Number	Part Number	Description	Page Number
104457	Wrench, Hex Key	3	159841	Wrench, Hex Key	3
129537	Wrench, 9/16" & 3/4" Open End	2	159926	Gauge w/Pin, Punch Bail Arm	7
156011	Gauge, Tape	7	160396	Pliers, Retaining Ring	3
156743	Gauge, Tape Lid	6	172060	Bender, Contact Spring	6
159133	Gauge	7			

TOOL KITS (Continued)

171312 Tool Kit (High Speed Tape Punch and Tape Reader) contains the following:

Part Number	Description	Page Number	Part Number	Description	Page Number
82711	Scale, 64 oz Spring	2	110444	Scale, 32 oz Spring	2
88970	Oil, 1 qt	14	110445	Bender, Contact Spring	6
88993	Burnisher, Contact	3	113756	Wrench Set	2
89954	Wrench, 1/4" Socket	3	117781	Gauge Set, Feeler	4
89955	Wrench, 5/16" Socket	3	129534	Wrench, 3/16" & 1/4" Open End	2
94644	Screwdriver, 30° Offset	3	142554	Hook, Pull Spring	4
94645	Screwdriver, 90° Offset	3	142555	Hook, Push Spring	4
94646	Stick, Orangewood	7	143089	Clip, Armature	7
94647	Screwdriver, 3-1/2" Blade	3	143484	Grease, 1 lb	14
95960	Gauge, Tape	7	149836	Cleaner, Punch Block	7
100704	Screwdriver w/Clip	3	151384	Holder, Screw	3
103625	Can, Oil	8	151392	Tweezers	4
104457	Wrench, Hex Key	3	152223	Scale, 70 gram Spring	2
110442	Screwdriver	3	159841	Wrench, Hex Key	3
110443	Scale, 8 oz Spring	2	172060	Bender, Contact Spring	6

185830 Tool Kit (Model 32 and 33 Equipment) contains the following:

Part Number	Description	Page Number	Part Number	Description	Page Number
104457	Wrench, Hex Key	3	180993	Bender, Contact Spring	9
110445	Bender, Contact Spring	6	181465	Adapter, Handwheel	5
124682	Wrench, Hex Key	3	182697	Extractor, Terminal	9
125752	Wrench, 3/16" Socket	3	183103	Gauge, Tape Reader	4
156011	Gauge, Tape	7	184098	Tool, Selector Cam Removal	10
159841	Wrench, Hex Key	3	185829	Bender, Contact Spring	10
160396	Pliers, Retaining Ring	3	185832	Clip, Armature	5
161686	Tool, Tine Removal	5	186307	Wrench, Hex Key	3
180587	Tool, Carriage Adjusting	9	186308	Gauge, Keyboard Adjusting	11
180588	Tool, Typewheel Adjusting	9	199413	Wrench, 3/16" & 1/4" Offset	7

307523 Tool Kit (High Speed Send/Receive Set) contains the following:

Part Number	Description	Page Number	Part Number	Description	Page Number
95960	Gauge, Tape	7	301235	Probe, Nozzle	10
96352	Gauge, .027"		301313	Grease, 1-3/4 oz	14
100982	Screwdriver w/Clip	3	301409	Tool, Magnet Adjusting	5
103625	Can, Oil	8	301486	Pliers, Gripping	3
108285	Pliers, Long Nose	3	301487	Pliers, Gripping	3
110443	Scale, 8 oz Spring	2	302400	Gauge, Tape Chute	10
124682	Wrench, Hex Key	3	302448	Gauge, Verifier	6
125777	Wrench, 1/4" Offset	7	307605	Gauge, Go Contact	10
129534	Wrench, 3/16" & 1/4" Open End	2	307606	Gauge, No Go Contact	10
129536	Wrench, 7/16" & 1/2" Open End	2	307607	Gauge, Contact Alignment	7
135676	Handle	2	307615	Tool, Eccentric Adjusting	10
135677	Wrench, 1/4" Socket	2	308373	Gauge, Punch Pin Penetration	11
135678	Wrench, 5/16" Socket	2	310105	Screwdriver, Potentiometer Adjusting	5
142555	Hook, Push Spring	4	310106	Wrench, 1/8" Hex Key	3
145867	Grease, 4 oz Tube	14	310394	Wiper, Nozzle	8
149836	Cleaner, Punch Block	7	310395	Vise, Pin	8
152835	Wrench, 5/16" & 3/8" Open End	2	310397	Towels, Shop	14
301168	Ink, 12 oz Special	8	310430	Gauge Set, Feeler	4

TOOL KITS (Continued)

315783 Tool Kit (Self-Contained DRPE Set) contains the following:

Part Number	Description	Page Number	Part Number	Description	Page Number
82711	Scale, 64 oz Spring	2	117781	Gauge Set	4
88970	Oil, 1 qt	14	124682	Wrench, Hex Key	3
88975	Gun, Grease	8	129534	Wrench, 3/16" & 1/4" Open End	2
88993	Burnisher, Contact	3	129536	Wrench, 7/16" & 1/2" Open End	2
89954	Wrench, 1/4" Socket	3	135060	Tool, Roll	2
89955	Wrench, 5/16" Socket	3	142554	Hook, Pull Spring	4
94644	Screwdriver, 30° Offset	3	145867	Grease, 4 oz Tube	14
94645	Screwdriver, 90° Offset	3	149836	Gauge, Punch Cleaner	7
94646	Stick, Orangewood	7	151384	Holder, Screw	3
100982	Screwdriver w/Clip	3	151392	Tweezers	4
103625	Can, Oil	8	152223	Scale, 70 Gram Spring	2
104457	Wrench, Hex Key	3	152835	Wrench, 5/16" & 3/8" Open End	2
108285	Pliers, Long Nose	3	152837	Wrench, 3/16" & 1/4" Open End	2
108805	Lubriplate	14	194853	Injector, Oil	8
110442	Screwdriver	3	302990	Gauge, Tape	7
110443	Scale, 8 oz Spring	2	305825	Tool, Lamp Extractor	11
110444	Scale, oz Spring	2	308373	Gauge, Punch Pin Penetration	11
110445	Bender, Contact Spring	6	332753	Indicator Assembly	11

323922 Tool Kit (DRPE 808 and (Tape Puller Transport) same as 315783 Tool Kit except delete following parts:

Part Number	Description	Page Number	Part Number	Description	Page Number
108805	Lubriplate, 2 oz Tube	14	305825	Tool, Lamp Extractor	11
194853	Injector, Oil	8			

330048 Tool Kit (High Speed Inktronic Set) contains the following:

Part Number	Description	Page Number	Part Number	Description	Page Number
108805	Lubriplate, 2 oz	14	331368	Container, Tool Kit	6
145867	Grease 4 oz	14	334500	Aspirator, Ink	6
310394	Whiper, Nozzle	8	334503	Filter	6
310425	Gauge, .280	4	334508	Cleaner, 5 oz Hand	14
310426	Gauge, .320	4	334510	Cleaner, Electrode	14
325710	Connector	6	336152	Magnet	6
330131	Jumper Cable Assembly	12	337607	Glove	14
331041	Gauge	12			

330520 Tool Kit (Cradle Immobilization) contains the following:

Part Number	Description	Page Number	Part Number	Description	Page Number
330511	Socket, Crows Foot	12	330513	Driver, Flexible	12
330512	Screwdriver, Hex Head Cap	12	330514	Wrench, 1/4" sq Socket	12

NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
5740	Screw, 2-56 x 1/4 Fil 11	93824	Gauge, .018" 4	103625	Can, Oil 8,16,17
6617	Wrench, Tommy 3,15	93825	Gauge, .025" 4	103628	Fork, Tuning 8
7002	Washer, Flat 5	93827	Gauge, .055" 4	104262	Case, Tuning Fork 8
72003	Bender, Contact Spring 6,15	93828	Gauge, .012" 4	104457	Wrench, Hex Key 3,15,16,17
72574	Tool, Holding 6,15	93833	Gauge, .003" 4	104986	Fork, Tuning 8
72575	Tool, Finger Bending 6,15	94540	Screw, 10-24 Set 5	107162	Cloth, Twill Jean 9,14
72581	Pin, Gauge 6,15	94644	Screwdriver, 30 Deg Offset 3,15,16,17	108252	Screwdriver 3
73370	Gauge, Locating 7,15	94645	Screwdriver, 90 Deg Offset 3,15,16,17	108285	Pliers, Long Nose 3,16,17
73404	Wrench, Tommy 3,15	94646	Stick, Orangewood 7,16,17	108286	Pliers, Cutting 3
73408	Magnifier 4,15	94647	Screwdriver, 3-1/2" Blade 3,16	108387	Wrench, 4" Adjustable 11
73409	Brush, Camel Hair 4	95368	Screwdriver 3,15	108805	Lubriplate, 2 Oz Tube 14,17
73410	Screwdriver 3	95960	Gauge, Tape 7,15,16	110271	Wrench, Hex Key 3,15
73517	Gauge 7	96352	Gauge, .027" 16	110442	Screwdriver 3,16,17
75503	Hook, Push Spring 4,15	96356	Gauge, .002" 4	110443	Scale, 8 Oz Spring 2,15,16,17
75765	Hook, Pull Spring 4,15	96358	Gauge, .002" 4	110444	Scale, 32 Oz Spring 2,15,16,17
75766	Tool, Special 10	96360	Gauge, .006" 4	110445	Bender, Contact Spring 6,15,16,17
75906	Tool, Local Test 7	96362	Gauge, .007" 4	110743	Lockwasher 12
77618	Box, Tool 8,15	96364	Gauge, .010" 4	112627	Nut, 2-56 Hex 11
77708	Bender, Contact Spring 10	96369	Gauge, .006" 4	113756	Wrench Set 2,15,16
78590	Pliers, Parallel 3	96371	Gauge, .008" 4	113777	Tool Kit 2,15
82711	Scale, 64 Oz Spring 2,15,16,17	96373	Gauge, .010" 4	113778	Tool Kit 15
84020	Puller, Bearing 8	96375	Gauge, .015" 4	114199	Bender, Contact Spring 6
86965	Handle 8	96377	Gauge, .020" 4	114200	Bender, Contact Spring 6
86966	Shaft, Bearing Puller 8	96383	Gauge, .035" 4	114201	Wrench, Closed Offset 7
86968	Pin, Cotter 8	96385	Gauge, .040" 4	114202	Bender, Contact Spring 10
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