

OPERATING INSTRUCTIONS AND PARTS LIST

Eng. Form 1313
7-12-57

FOR

American Standard Twelve Floor Sanding Machine

Model Number _____ MODEL CD-10009
MODEL CD-10030
MODEL CD-10039 Serial Number _____

Every American floor sander is complete, ready to run, and has been thoroughly tested in our plant before shipping. However, do not attempt to operate it before you have read these instructions carefully. American machines are the most easily operated sanding machines on the market and are capable of producing the highest quality of finish at a very rapid rate. It must be borne in mind that, as with any mechanical device, practice is necessary in order to gain proficiency in operating these machines. The inexperienced operator should not expect the maximum results the first few days he uses the machine.

LUBRICATION ●

It will pay you to keep your machine properly greased. Always use clean grease of the proper grade. A grease that is not perfectly clean will do more damage than good. Never attempt to use oils in grease chambers. Be sure to replace grease plugs each time you grease your machine.

To grease the drum shaft bearings it is necessary to remove the drum bearing retainer plates and apply a small amount of grease to the bearings. Take great care not to damage the grease seals on the drum shaft. The motor is provided with grease plugs which can be removed for greasing the motor bearings.

The truck wheel, caster wheel and caster yoke are provided with large grease chambers which are filled at the factory with enough grease to properly lubricate the ball bearings for years. It is therefore not necessary to consider lubrication of these parts. The truck wheel bracket should be lubricated regularly through the grease fitting provided for this purpose. The idler pulley arm bearing is also equipped with a grease fitting and should be lubricated from time to time.

The dust collector fan has a large grease chamber but no grease fittings. Grease fittings were purposely omitted on this part, because with gun greasing, there is a tendency to feed too much grease and also the possibility of foreign matter getting into the bearings, either of which proves disastrous to such high speed ball bearings. To lubricate the fan bearings, the fan should be disassembled, being very careful not to damage the grease seals on the fan shaft. The bearings should be thoroughly washed in gasoline and the grease chamber re-filled to about two-thirds of its capacity with perfectly clean grease.

If you operate your machine every day, you should naturally lubricate more often than if you operate it only occasionally. The table below will serve as a guide for how often to lubricate the various parts of your machine.

PART	LUBRICATION REQUIRED
Truck Wheel Bracket Bearing	1 or 2 times a month
Drum Shaft Ball Bearings	3 or 4 times a year
Motor Ball Bearings	3 or 4 times a year
Fan Ball Bearings	2 or 3 times a year
Idler Pulley Arm Bearing	2 or 3 times a year
Truck Wheel Bearings (Bowling Alley Machine Only)	1 or 2 times a month
Truck Wheel Ball Bearings	None
Caster Wheel Ball Bearings	None
Caster Yoke Ball Bearings	None

It is a good policy to take your machine to one of our numerous sales and service representatives once or twice a year for complete lubrication and inspection by factory trained mechanics. They will go over the entire machine and can provide and replace any worn parts such as grease seals, bearings, drum pad, etc.

CARE OF "V" BELTS

The "V" belts requires very little attention other than an occasional inspection to make sure that they have not stretched, causing them to slip in the grooved pulleys. An idler pulley is provided for the drive belts to keep them at proper tension. The tension on the drum belt is adjusted by sliding the motor and motor platform on the machine frame.

DUST COLLECTOR

The dust collection system is of simple and efficient design. It consists of dustpan, fan housing, fan, discharge pipe and dust bag. The dust pan is quickly detachable for clean-out purposes, being held in position by a spring catch. The discharge pipe is provided with a swivel joint in the goose-neck which facilitates operation of the machine in close quarters and also serves as a clean-out joint. The dust collecting system is very efficient in operation and to keep it operating at maximum efficiency, the dust bag should be emptied when it becomes about 1/3 full.

CONTROL LEVER

The control lever at the upper end of handle plays an important part in the operation of the machine. It is used at the end of each cut to raise and lower the drum from the floor. The proper drum pressure is adjusted and maintained by the automatic sustaining device (described below) so that the operator need not apply pressure with the control lever. This permits him to have both hands free for steering the machine. There is nothing to be gained by "crowding" the machine by applying additional pressure with the control lever, as the machine is designed to produce the maximum amount of work in a steady run and the motor is amply powerful to give full capacity of the machine. Never allow the sanding drum to rest on the floor while the machine is not in use. It will cause the drum pad to become flattened and affect the perfect working of the machine. Always leave the control lever in its upper position to hold sanding drum off the floor when the machine is not in use.

AUTOMATIC SUSTAINING DEVICE ●

The automatic sustainer screw is located at the rear of the machine frame. As this device is screwed in (clockwise) it increases the pressure of the drum upon the floor. When it is turned in the opposite direction, it reduces the drum pressure. The sustainer should ordinarily be set at 1 inch, measured from the boss on the frame to the under side of the head. This is the best position for average work, but floor conditions vary and the sustainer should be adjusted accordingly.

Where power line capacity is limited below the full power that the machine would have on a normal power supply, the automatic sustainer may also be used to reduce the drum pressure making it possible to operate the machine on weak power lines.

SECURING ABRASIVE PAPER TO DRUM ●

A sheet metal templet is supplied for use in cutting the proper sized sheet of paper from the roll. Unroll a sufficient length of paper from the roll so that the templet may be placed on the uncoated side of the paper with the side of the templet marked "This Side Up" on top. Match up the side edges of the templet with the edge of the paper, and then cut the paper at the angle indicated along each end of the templet. The templet should now be slid along the paper until the notch in the side of the templet registers with the end of paper. Now bend the other end of the paper, which projects from under the templet, up over that end of the templet.

Reverse the operation to crease the other end of the paper.

The paper is clamped on the drum by wrapping it around the drum and inserting the two folded ends into the drum slot. The clamp bars in the drum should be turned with their flat sides parallel with the drum slot to receive the ends of the paper and then should be turned simultaneously, with the two end wrenches provided for this purposes, to draw the paper into the clamps and thus tighten it around the drum. The paper should not be drawn too tightly around the drum as this will tend to make chatter marks on the floor. It should be tightened just enough so that it fits the drum without slack or wrinkles. When applying open coat paper of No. 4 or No. 4-1/2 grit, it will go into the drum slot much easier if the folded ends of the paper are pounded or scraped to remove some of the large abrasive grains. When applying paper of No. 1/2 grit or finer, it is necessary to insert a filler strip of No. 1-1/2 paper between the folded ends of the abrasive sheet when it is being clamped onto the drum.

Never leave the paper clamped tight on the sanding drum when the machine is not in use. When the machine is not operating, the paper should be left very loose on the drum to prevent the drum pad from becoming permanently compressed at the drum slot. Should this condition occur, the machine will leave chatter marks and produce work of inferior quality.

ELECTRICAL CONNECTIONS ●

Before connecting the machine to the power source, take precaution to see that the machine switch is in it's "OFF" position and that the sanding drum is off the floor. Connect the twist lock plug in the socket on the switch box of the sanding machine, and place the trailing wire in the cable arm. The wire arm consists of a steel rod with a short right angle bent at one end and a helical coil at the other. This is packed for shipping in the equipment package, and may be assembled by inserting the bent end into the hole in the cable arm bracket on the discharge pipe and securing it in place with a cotter pin. The trailing wire is wound between the coils on the end of the cable arm until it has passed completely through the coils, leaving it free to slide through the inside circle of coils.

The machine must be connected at the main fuse or distribution box and will not operate on lines fused with less than 25 or 30 ampere fuses. Best operation will be had when connected to a 220 volt supply, which should be used whenever it is available. If the machine has an alternating current motor, it is equipped with the American Voltage Selector which automatically connects the motor wiring for operation on either 110 volt or 220 volt depending on which of the two voltages the operator connects to; it is therefore not necessary for the operator to change any motor wiring each time he changes from one voltage to another. He has merely to connect the trailing wire to the main fuse box and the machine is ready to operate.

OPERATION ●

After the machine is connected to the current supply and the drum is off the floor, turn on the machine switch. Start sanding by simultaneously moving the machine slowly forward and gently lowering the sanding drum into contact with the floor by means of the control lever. After the drum is against the floor, the right hand may be removed from the control lever and used on the steering handle to control machine. Keep the machine moving by walking slowly forward, taking short steps and keeping your feet up close to the machine.

At the end of the forward cut, the sanding drum must be raised clear of the floor before the machine comes to a standstill. To start the backward cut, the machine must again be in motion as the drum is lowered in contact with the floor. If the machine were allowed to come to a standstill with the drum running in contact with the floor, a deep groove would result at this point.

An operator's belt is supplied as regular equipment with the machine. This is worn around the operator's waist with its ends connected to the machine handle. This belt takes the pull of the machine and relieves the strain on the operator's hands and arms.

TRAILING WIRE ●

We supply with each machine a heavy pure rubber covered trailing wire. American High Quality Trailing Wire is composed of three conductors of fine stranded copper wire, each strand being seamless rubber insulated and reinforced with a cotton braid of distinguishable colors to determine polarity. These three strands are then inbedded in a rubber casing, giving the cable the appearance of a single wire. It is kink, oil and curlproof and consequently of long service. Its feature of pliability enables one to recoil it quickly and without injury, and it also follows the machine easily.

DRUM LEVELING ●

This machine is equipped with a new improved drum leveling device. If due to wear of the drum pad or for any other reason, the drum cuts heavier on one side than on the other, the drum may be leveled as follows:

1. Remove the belt guard.
2. Through the rectangular opening on the side of the machine release the lock nut on the adjusting screw.
3. Screw the adjusting screw down to raise the left side of the drum, or turn it the opposite direction to lower left side of the drum.
4. When the drum is leveled, pull lock nut up tight.

CAUTION

It is wise to observe the following "Cautions".

Do not fail to raise the drum from the floor at the end of each cut before the machine comes to a standstill.

Always keep drum off the floor when machine is not in use. Take short steps when operating the machine.

Use abrasive paper for sanding drum — sandpaper is not suitable. For the benefit of our machine owners we supply a high quality abrasive paper at a reasonable price — send for price list.

The motor brushes will wear out in time. We carry these brushes in stock for immediate shipment — when ordering, give motor name, horse-power and number of motor found on motor nameplate.

Clean the treads of the truck wheels from time to time to prevent them from causing the drum to cut waves into the floor.

If you blow a fuse in starting the machine, replace it with a fuse of 30 ampere capacity.

Never place weights on your machine to increase the drum pressure. The maximum drum pressure is carefully determined at the factory. Exceeding this pressure will not increase the capacity and is liable to overheat the motor.

Use an American Spinner for a perfect job on the edges of the floor.

We furnish circulars, letterheads and cuts to assist our machine owners in stimulating business. Write for particulars.

GUARANTEE

We warrant this machine to be free from defects in material and workmanship under normal use and service and while supplied with the power specified on the nameplate for a period of one year from the date of purchase. This guarantee does not apply when the machine has been subject to misuse, negligence or accident, resold or operated under conditions contrary to our operating instructions.

For guaranteed servicing or inspections always take your American machines to your nearby authorized American distributor or write the factory giving us the serial and model numbers.

AMERICAN STANDARD TWELVE FLOOR SANDER PARTS LIST

FOR MODEL CD-10009 Single Speed (230 Volt-2 H.P.-60 Cycle)
FOR MODEL CD-10009 Two Speed (115/230 Volt-2 H.P.-60 Cycle)
FOR MODEL CD-10030 Single Speed (115/230 Volt-2 H.P.-60 Cycle)
FOR MODEL CD-10030 Two Speed (115/230 Volt-2 H.P.-60 Cycle)
FOR MODEL CD-10039 Single Speed (115/230 Volt-2 H.P.-60 Cycle)
FOR MODEL CD-10039 Two Speed (115/230 Volt-2 H.P.-60 Cycle)

(Always Order By Part Number)

NO.		PART NO.	NO. REQ'D.
1	Drive Belt (CD-10009, CD-10030 & CD-10039 Single Speed Only) _____	1-CD-69	2
	Drive Belt (CD-10009, CD-10030 & CD-10039 Two Speed Only) _____	3-CD-69	1
2	Drum Cover Spring _____	AL-625	1
3	Set Screw - #8-32 x 1/4 Lg. Hollow Hd. Self Locking _____	1562	1
4	Drum Cover Shaft _____	CD-390	1
5	Nameplate _____	CK-920	1
6	Drive Screw - #4 x 3/16 Lg. _____	1602 CP	2
7	Drum Cover _____	CD-389	1
8	Bumper Assembly _____	CD-355	1
9	Screw - #10-24 x 1/4 Lg. Rd. Hd. _____	1101 CP	5
10	Screw - 1/4-20 x 5/8 Lg. Rd. Hd. _____	1136 CP	6
11	Lockwasher - 1/4 _____	2500 CP	6
12	Cover - Drum Shaft Bearing Housing _____	T-399	1
13	Gasket - Bearing Housing _____	T-393	1
14	Drum Shaft Bearing Screw _____	T-313	1
15	Lockwasher - 1/2 _____	2507 CP	1
16	Bearing - Drum Shaft _____	77187	2
17	Spacer - Drum Shaft _____	CD-394	1
18	Drum Shaft Bearing Housing _____	CD-391	1
19	Woodruff Key - #9 _____	5201	2
20	Drum Shaft _____	CD-4	1
21	Drum Assembly (CD-10009 Single Speed & Two Speed) _____	AB-9-RM	1
	Drum Assembly (CD-10030 & CD-10039 Single Speed & Two Speed) _____	AB-9-F	1
22	Spacer - Drum Shaft - Pulley End _____	CD-398	1
23	Felt Washer Retainer - Drum Shaft _____	AP-954	1
24	Felt Washer - Drum Shaft _____	T-483	1
25	Bearing Retainer - Drum Shaft _____	AP-395	1
26	Drum Pulley (CD-10009, CD-10030 & CD-10039 Single Speed Only) _____	CH-783	1
	Drum Pulley (CD-10009, CD-10030 & CD-10039 Two Speed Only) _____	CD-1490	1

NO.		PART NO.	NO. REQ'D.
27	Washer - Drum Pulley _____	2012 CP	1
28	Nut - 5/8 - 18 Hex. Jam _____	4031 CP	1
29	Discharge Pipe - Upper Section (CD-10009, CD-10039 Single Speed & Two Speed) _____	CH-1190	1
30	Discharge Pipe - Lower Section (CD-10009 Single Speed & Two Speed) _____	CH-1189	1
	Discharge Pipe - (CD-10039 Single Speed & Two Speed) _____	1-CD-1189	1
31	Screw - Motor Guide - 1/2 - 13 x 2-1/4 Lg. Flat Hd. _____	1014 CP	1
32	Motor Screw Washer _____	CD-1259	1
33	Motor Screw Spacer _____	CD-1258	1
34	Lockwasher - 1/2 _____	2507 CP	1
35	Nut - 1/2 - 13 Hex. _____	4010 CP	1
36	Plug Button _____	3100	1
37	Screw - #10 - 24 x 5/16 Lg. Rd. Hd. (CD-10009 Single Speed & Two Speed Only) _____	1103 CP	6
38	Cover Plate - Truck Wheel (CD-10009 Single Speed & Two Speed Only) _____	CD-947	2
39	Frame (CD-10009 Single Speed & Two Speed) _____	3-CD-1	1
	Frame (CD-10030 & CD-10039 Speed & Two Speed) _____	1-CD-1307	1
40	Drum Pressure Cam Bracket _____	3-CD-1164	1
41	Cap Screw - 5/16 - 18 x 3/4 Lg. Hex. Hd. _____	1405 CP	4
42	Spring Plunger Adjusting Screw _____	CD-1301	3
43	Spring Plunger - Truck Wheel Bracket _____	AP-289	3
44	Truck Wheel Bracket Spring _____	CH-1328	3
45	Control Reach Lever Shaft _____	3-CD-33	1
46	Set Screw - 5/16 - 18 x 1" Lg. Cup Sq. Hd. _____	1526 CP	1
47	Truck Wheel & Bracket Assembly (CD-10009 - Single Speed & Two Speed) _____	3-CD-555	1
	Truck Wheel & Bearing Assembly (CD-10030 & CD-10039 Single Speed & Two Speed) _____	CD-1306	1
48	Plunger Yoke Hinge Pin _____	CD-949	1
49	Cotter Pin - 3/32 x 3/4 _____	6104 CP	1
50	Spring - Plunger Yoke Pin _____	AL-625	1
51	Dust Pan Spring Plunger Assembly _____	CD-938	1
52	Gasket - Fan Housing _____	AP-832	1
53	Gasket _____	CD-168	1
54	Fan Housing Assembly _____	CD-375	1
55	Cap Screw - 3/8 - 16 x 1-1/4 Lg. Hex. Hd. _____	1406 CP	2

NO.		PART NO.	NO. REQ'D.
56	Dust Pan (CD-10009 Single Speed & Two Speed) _____	CD-55	1
	Dust Pan (CD-10030 & CD-10039 Single Speed & Two Speed) _____	CD-958	1
57	Nut - 5/16 - 18 Hex. _____	4001 CP	1
58	Bushing - Dust Pan Clamp _____	1-CD-946	1
59	Cap Screw - 5/16 - 18 x 2" Lg. Hex. Hd. _____	1413 CP	1
60	Caster Yoke Assembly _____	2-CD-559	1
61	Stud - Belt Guard _____	1-CD-854	1
62	Retaining Nut - Belt Guard _____	CD-1136	1
63	Belt Guard Clamp Assembly _____	CD-942	2
64	Screw - 1/4 - 20 x 5/8 Lg. Rd. Hd. _____	1136 CP	4
65	Control Shaft Eccentric _____	1-CD-1327	1
66	Lockwasher - Shakeproof Ext. - Int. _____	2409 CP	1
67	Washer - Control Shaft Eccentric _____	SU8-64	1
68	Screw - 1/4 - 20 x 1" Lg. (Heat Treated) Hex. Hd. _____	1448 CP	1
69	Fan Belt Idler Stud Washer _____	CH-1392	1
70	Idler Pulley Assembly _____	2-CH-561	1
71	Stud - Idler Pulley Arm _____	CH-964	1
72	Fan Belt _____	2-CD-66	1
73	Belt Guard (CD-10009, CD-10030 & CD-10039 Single Speed Only) _____	1-CD-853	1
	Belt Guard (CD-10009, CD-10030 & CD-10039 Two Speed Only) _____	2-CD-853	1
74	Screw - 3/8 - 16 x 1-1/2 Lg. Hex. Hd. _____	1434 CP	4
75	Washer - 3/8 _____	2014 CP	4
76	Motor _____	CD-1030	1
77	Motor Platform Bolt Assembly _____	CD-944	1
78	Motor Platform _____	CD-956	1
79	Set Screw - 5/16 - 18 x 5/16 Lg. Allen Cup Pt. _____	1519 CP	1
80	Key - 1/4 x 1/4 x 1-1/2 _____	5111	1
81	Motor Pulley (CD-10009, CD-10030 & CD-10039 Single Speed) _____	2-CD-784	1
	Motor Pulley (CD-10009, CD-10030 & CD-10039 Two Speed) _____	CD-1489	1
82	Screw - 1/4 - 20 x 3/4 Lg. Rd. Hd. _____	1110 CP	3
83	Terminal Box Assembly (CD-10009 Single Speed Only) _____	6-CH-952	1
	Terminal Box Assembly (CD-10009 Two Speed Only, CD-10030 & CD-10039 Single Speed & Two Speed) _____	2-CH-952	1
84	Cap Screw - 5/16 - 18 x 1-1/2 Lg. Hex. Hd. (CD-10009 & CD-10039 Single Speed & Two Speed) _____	1423 CP	1
85	Cap Screw - 3/8 - 16 x 5/8 Lg. Hex. Hd. (CD-10009 & CD-10039 Single & Two Speed) _____	1430 CP	3

NO.		PART NO.	NO. REQ'D.
86	Nut - 5/16 - 18 Hex. (CD-10009 & CD-10039 Single & Two Speed) _____	4001 CP	1
87	Pipe Support (CD-10009 & CD-10039 Single & Two Speed) _____	T-93	1
88	Gasket - Pipe Support _____	T-541	1
89	Cap Screw - 3/8 - 16 x 1-1/2 Lg. Hex. Hd. _____	1433 CP	3
90	Steering Handle Assembly _____	15-CD-563	1
91	Cotter Pin - 3/32 x 3/4 _____	6104 CP	1
92	Control Rod Fork Pin _____	E-26	1
93	Control Rod Fork _____	1-E-25	1
94	Control Rod _____	CD-86	1
95	Nut - 3/8 - 16 Hex. _____	4013 CP	1
96	Knob - Sustainer Adjusting Screw _____	CH-1359	1
97	Set Screw - #10 - 24 x 3/8 Lg. Cone Pt. _____	1566 CP	2
98	Pilot Rod _____	CD-113	1
99	Cap Nut _____	E-114	1
100	Sustainer Spring _____	CD-111	1
101	Washer - 25/64 _____	2006 CP	1
102	Sustainer Adjusting Screw _____	E-112	1
103	Stop Pin - Control Handle _____	2-E-21	1
104	Stop Spring - Control Handle _____	E-22	1
105	Control Handle _____	1-E-20	1
106	Cap Screw - 5/16 - 18 x 1-1/4 Lg. Hex. Hd. _____	1404 CP	1
107	Nut - 5/16 - 18 Hex. _____	4001 CP	1
108	Cable Connector _____	D-157	1
109	Handle Bracket _____	2-CD-825	1
110	Nut - 5/16 - 18 Hex. _____	4001 CP	2
111	Cap Screw - 5/16 - 18 x 1-1/4 Lg. Hex. Hd. _____	1423 CP	2
112	Set Screw - 3/8 - 16 x 5/8 Lg. Dog Point _____	1506 CP	2
113	Handle Bracket Cover _____	1-CD-1256	1
114	Screw - #10 - 24 x 1/2 Lg. Rd. Hd. _____	1109 CP	2
115	Cap Screw - 5/16 - 18 x 3/4 Lg. Hex. Hd. _____	1405 CP	2
116	Quadrant - Control Handle _____	T-23	1
117	Handle Pipe _____	2-CD-356	1
118	Thumb Screw - #10 - 24 x 3/4 _____	7501 CP	2
119	Cotter Pin - 1/16 x 1/2 _____	6100 CP	2
120	Hinge Pin - Switch Box _____	1-CD-567	1
121	Cover - Fuse Box _____	CD-953	1

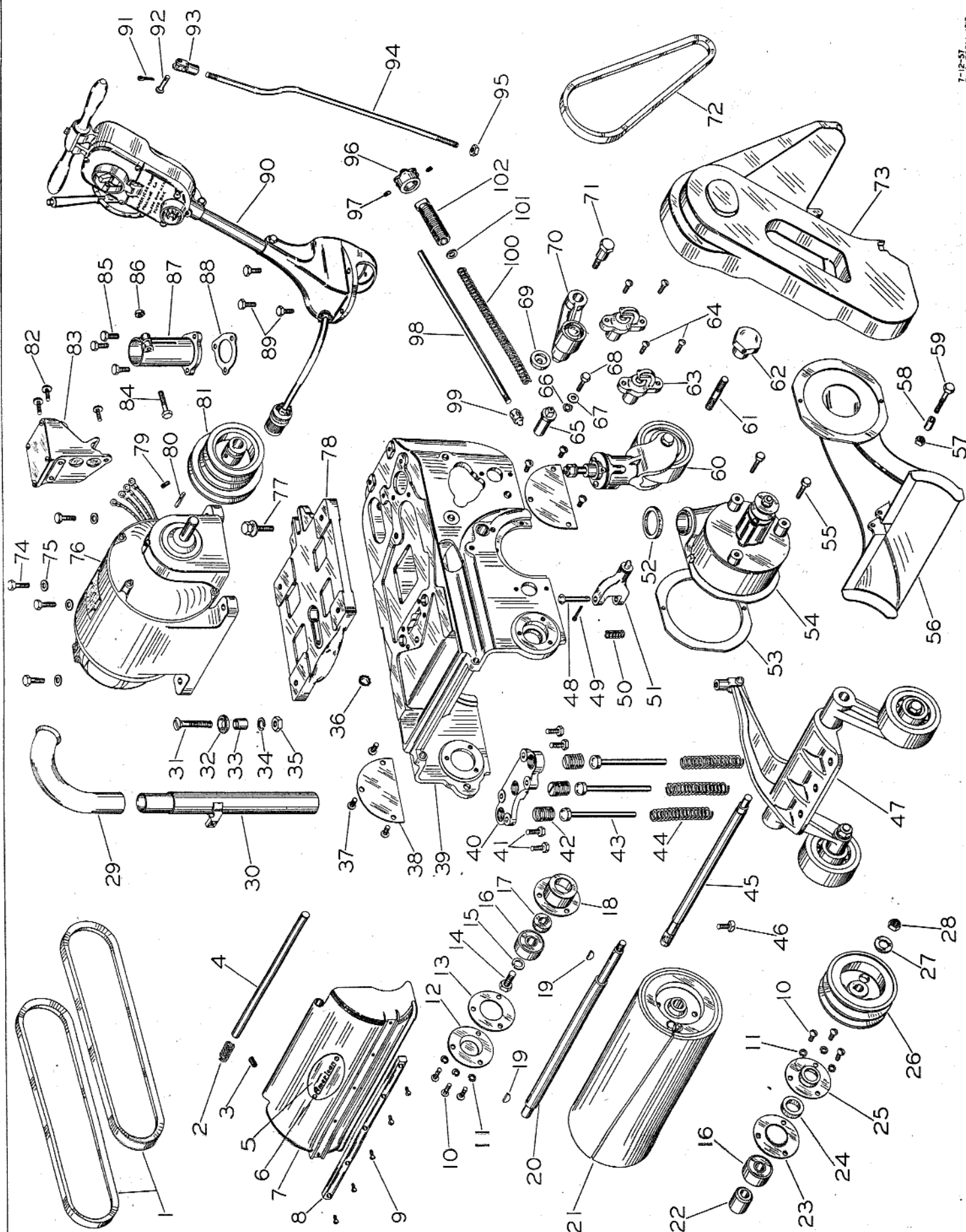
NO.		PART NO.	NO. REQ'D.
122	Screw - #10-24 x 3/4 Lg. Rd. Hd. _____	1114 CP	3
123	Screw - #6-32 x 1/4 Lg. Rd. Hd. _____	1115 N	2
124	Lockwasher - Shakeproof _____	2402 CP	2
125	Switch Box Cover _____	CD-163	1
126	Switch Box _____	3-CD-100	1
127	Steering Handle _____	CD-27	1
128	Clamp - Steering Handle _____	CD-107	1
129	Cap Screw - 5/16-18 x 2-1/2 Lg. Hex. Hd. _____	1424 CP	1
130	Wire - Fuse Block To Motor Lead _____	2-CH-543	1
	Female Connector Plug _____	K-436	1
	Terminal _____	7878	2
131	Screw - #6-32 x 3/4 Lg. Rd. Hd. _____	1154 CP	3
132	Male Plug - Trailing Wire _____	AP-862	1
133	Wire Assembly - Plug To Switch _____	CD-544	2
	Terminal _____	7853	1
134	Screw - #10-24 x 1/4 Lg. Rd. Hd. _____	1101 CP	1
135	Lockwasher - Shakeproof #10 _____	2418 CP	1
136	Ground Wire Assembly - Plug To Box _____	CD-606	1
	Terminal _____	7853	1
137	Fuse Block _____	K-141	1
138	Screw - #10-24 x 3/4 Lg. Rd. Hd. _____	1114 CP	2
139	Cartridge & Link _____	7900	2
140	Switch _____	AP-72	1
141	Screw - #10-24 x 3/8 Lg. Rd. Hd. _____	1112 B	4
142	Lockwasher - #10 _____	2501 CP	4
143	Nut - #10-24 Hex. _____	4017 B	4
144	Wire Assembly - Switch To Fuse Block _____	CD-545	2
	Terminal _____	7853	1
	Terminal _____	7878	1
145	Nut - 1/2-13 Hex. Jam _____	4011 CP	1
146	Lockwasher - 1/2 _____	2507 CP	1
147	Spacer - Yoke Bracket _____	1-T-242	1
148	Bearing - Caster Yoke _____	77217	2
149	Spacer - Yoke Bearing _____	1-T-243	1
150	Pivot Bolt _____	1-T-239	1
151	Retaining Ring _____	2615	1

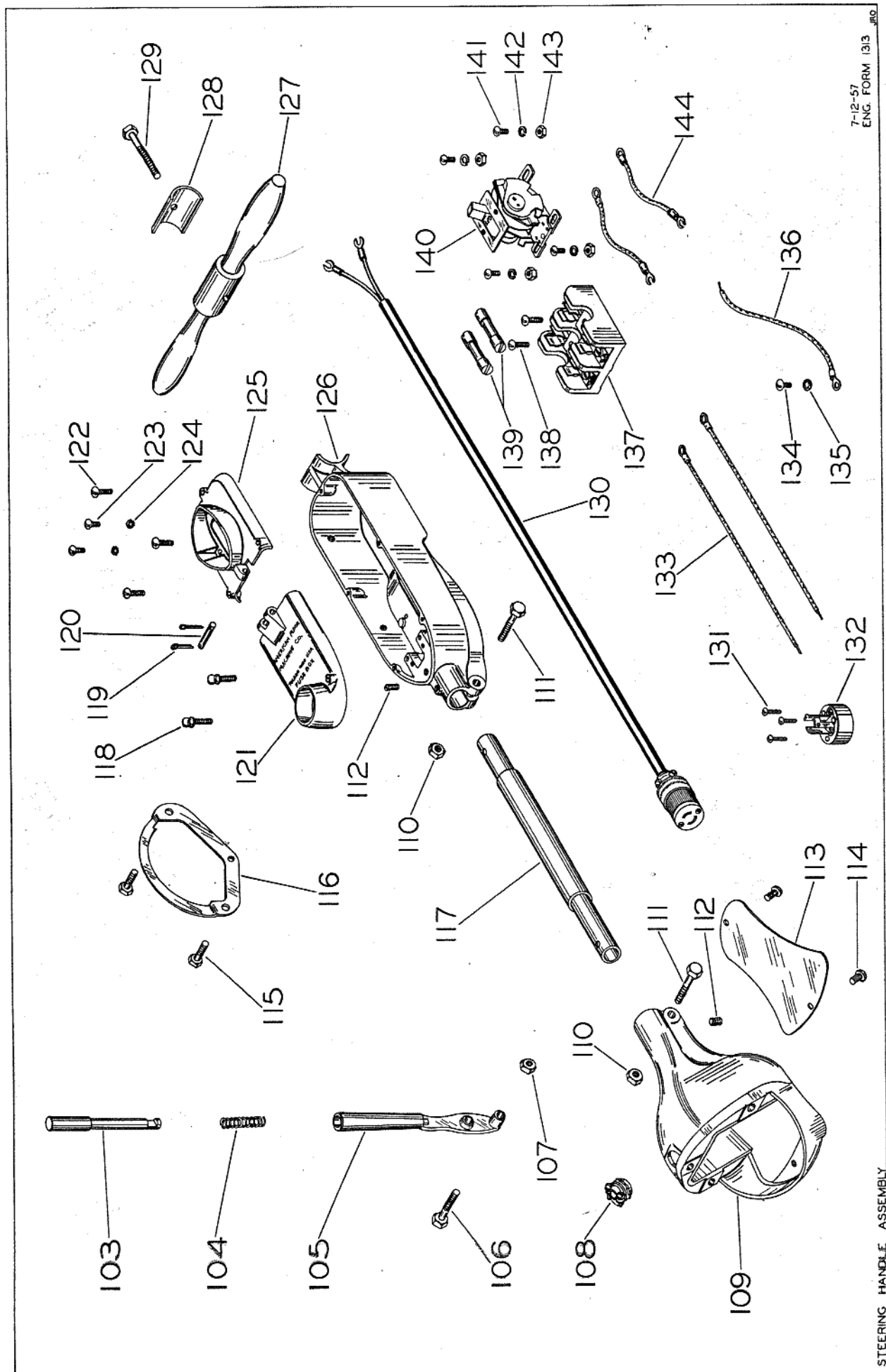
NO.		PART NO.	NO. REQ'D.
152	Screw - 1/4 - 20 x 1/2 Lg. Rd. Hd. _____	1113 CP	3
153	Lockwasher - 1/4 _____	2500 CP	3
154	Dust Washer Ring _____	T-241	1
155	Washer - Yoke _____	T-256	1
156	Bearing Retainer _____	T-240	1
157	Caster Wheel Yoke _____	1-T-235	1
158	Nut - 1/2 - 13 Hex. _____	4010 CP	1
159	Lockwasher - 1/2 _____	2507 CP	1
160	Spacer - Wheel Bearing _____	AP-339	2
161	Bearing-Wheel _____	77120	2
162	Truck Wheel _____	1-CD-12	1
163	Spacer - Wheel Bearing _____	CD-371	1
164	Axle _____	CH-13	1
165	Cotter Pin - 3/32 x 3/4 _____	6104 CP	1
166	Control Rod Fork _____	1-E-25	1
167	Control Rod Pin _____	E-26	1
168	Truck Wheel Bracket _____	3-CD-32	1
169	Axle _____	CH-13	2
170	Bearing - Wheel _____	77120	4
171	Bearing Spacer _____	CD-371	2
172	Truck Wheel _____	1-CD-12	2
173	Washer - 19/32 _____	2026 CP	2
174	Lockwasher - 1/2 _____	2507 CP	2
175	Nut - 1/2 - 13 Hex. Jam _____	4011 CP	2
176	Zerk Fitting _____	3027 CP	2
177	Screw _____	CH-1156	1
178	Spring _____	CD-940	1
179	Ball - 1/2 Dia. _____	CD-941	1
180	Clamp _____	CD-939	1
181	Screw _____	CH-1156	1
182	Spring _____	CD-936	1
183	Plunger _____	CD-937	1
184	Yoke _____	CD-935	1
185	Screw - #10 - 24 x 3/8 Lg. Rd. Hd. _____	1112 CP	4
186	Terminal Box Cover _____	5-CH-190	1
187	Terminal Box _____	1-CH-189	1

NO.		PART NO.	NO. REQ'D.
188	Meter Lead Wire Assembly _____	SU8-114	2
	Sleeve _____	SU8-118	1
	Terminal _____	7856	1
	Tip Jack _____	8000	1
	Retaining Ring _____	8010	1
189	Male Connector Plug _____	K-435-A	1
190	Screw - #8 - 32 x 5/8 Lg. _____	1122 CP	2
191	Nut - 3/8 - 16 Hex. Jam _____	4008 CP	1
192	Washer - 25/64 _____	2006 CP	1
193	Idler Pulley Arm _____	1-CH-335	1
194	Spacer _____	1-AP-339	1
195	Idler Pulley _____	1-CH-337	1
196	Bearing - Pulley _____	77164	1
197	Shaft _____	CH-338	1
198	Idler Pulley Grease Cap _____	AP-921	1
199	Retaining Ring _____	2600 CP	1
200	Nut - 7/16 - 14 Hex. Left Hand _____	4026 CP	2
201	Washer - 7/16 _____	2018 CP	2
202	Fan _____	1-E-52	1
203	Fan Collar _____	CD-135	1
204	Grease Seal _____	AL-808	1
205	Bearing - Shaft Fan End _____	77120	1
206	Woodruff Key #5 _____	5202	2
207	Stud _____	CD-932	2
208	Fan Shaft _____	CD-75	1
209	Fan Housing _____	CD-58	1
210	Bearing - Shaft Pulley End _____	77157	1
211	Felt Washer _____	E-256	1
212	Bearing Cap _____	CD-931	1
213	Felt Retainer _____	CH-130	1
214	Lockwasher - 1/4 _____	2500 CP	3
215	Screw - 1/4 - 20 x 1/2 Lg. Rd. Hd. _____	1113 CP	3
216	Fan Shaft Pulley _____	CD-59	1
217	Trailing Wire Assembly _____	1-R-118-50	1
	Male Plug _____	AR-441	1
	Female Plug _____	AP-863	1

NO.		PART NO.	NO. REQ'D.
218	Dust Bag _____	2-T-68	1
219	Operating Belt _____	T-149	1
220	Cable Arm _____	SU8-34	1
221	Cotter Pin - 3/32 x 1" _____	6105 CP	1
222	Allen Wrench - 5/16 _____	5152	1
223	Template _____	AB-78	1
224	End Wrench _____	T-77	1
225	End Wrench - 11/16 & 19/32 _____	5051	1
226	End Wrench - 3/4 & 9/16 _____	5050	1
227	Carrying Handle _____	T-148	1
228	Screw - #6 - 32 x 3/8 Lg. Rd. Hd. _____	1117 CP	2
229	Screw - #10 - 24 x 5/8 Lg. Rd. Hd. _____	1109 CP	4
230	Cover _____	1-CH-190	1
231	Switch _____	CK-1212	1
232	Shunt Wire _____	CD-1350	1
233	Terminal Box _____	1-CH-189	1
234	Plug - Male _____	K-435-A	1
235	Screw - #8 - 32 x 5/8 Lg. Rd. Hd. _____	1122 CP	2
236	Wire - Circuit Selector _____	CH-1140	2
237	Meter Lead Wire Assembly _____	SU8-114	2
	Sleeve _____	SU8-118	1
	Terminal _____	7856	1
	Tip Jack _____	8000	1
	Retaining Ring _____	8010	1
238	Truck Wheel Bracket _____	1-CD-957	1
239	Control Rod Fork _____	1-E-25	1
240	Cotter Pin - 3/32 x 3/4 _____	6104 CP	1
241	Control Rod Fork Pin _____	E-26	1
242	Truck Wheel Shaft _____	CD-975	2
243	Washer - Felt _____	CD-482	8
244	Bearing _____	77175	8
245	Zerk Fitting _____	3029 CP	4
246	Truck Wheel _____	CD-959	4
247	Set Screw - 5/16 - 18 x 1/2 Lg. Allen Cup Point _____	1522 CP	2
248	Washer - 1/2 _____	2009 CP	2
249	Lockwasher - 1/2 _____	2507 CP	2

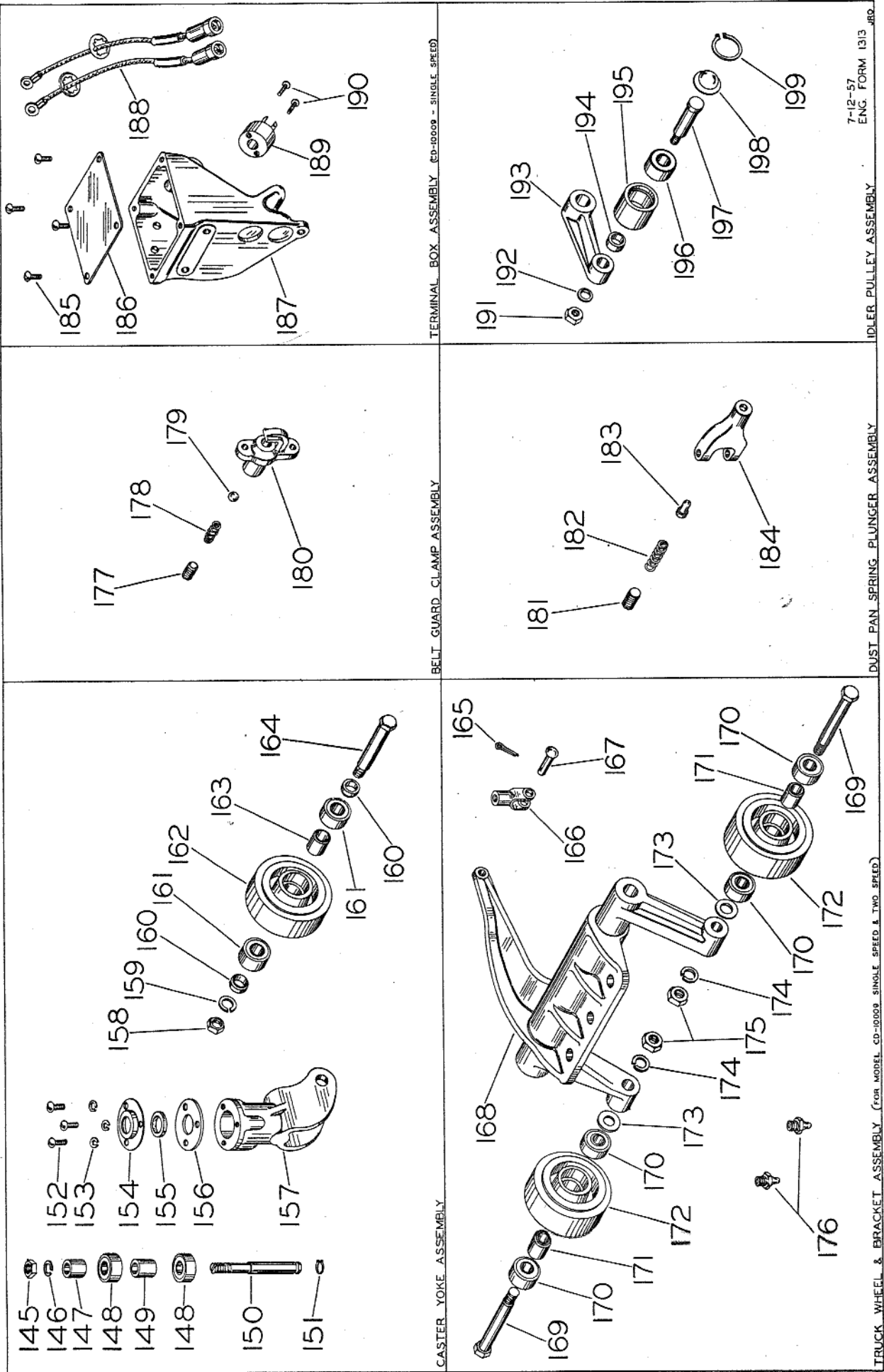
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250	Nut - 1/2 - 13 Hex. Jam _____	4011 CP	2
251	Zerk Fitting _____	3027 CP	2
252	Cover Assembly _____	CD-1462	1
253	Water Tank Assembly _____	CD-1463	1
254	Screw - 3/8 - 16 x 1-1/4 Lg. Flat Hd. _____	1037 CP	3
255	Water Tank Support Bracket Assembly _____	CD-1472	1
256	Eye Bolt _____	E-101	4
257	Carrying Handle _____	E-148	2
258	Carrying Handle Thumb Screw _____	E-245	2
259	Carrying Handle Collar _____	E-176	2

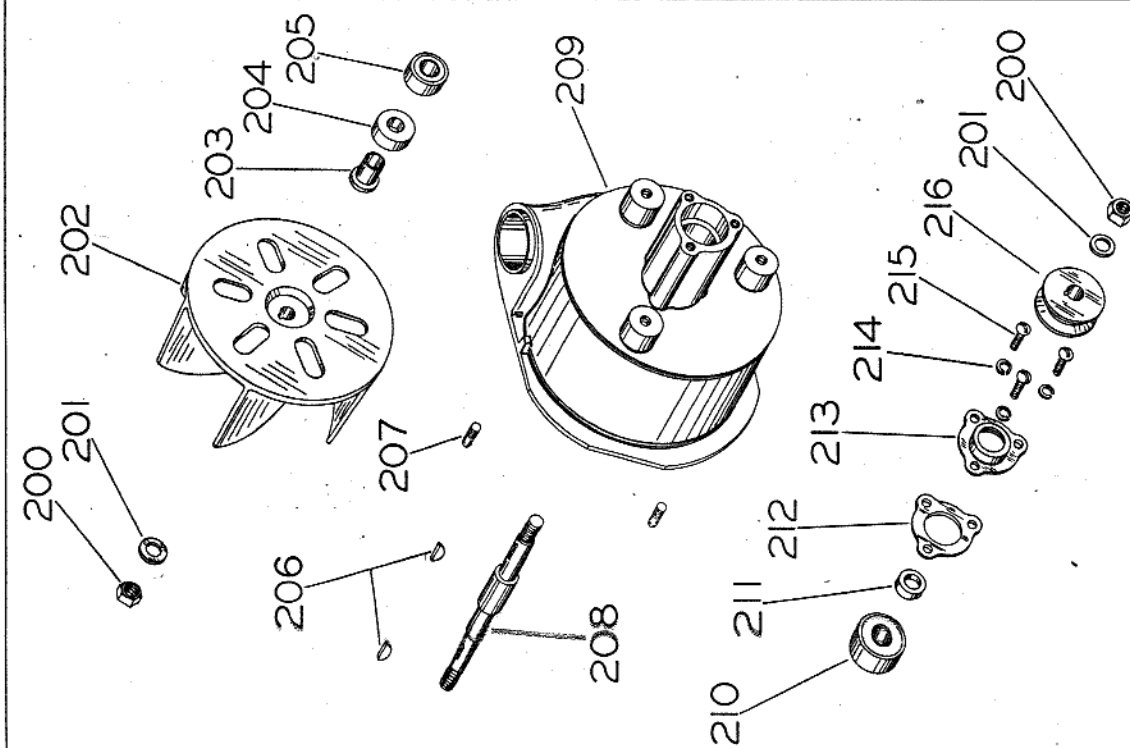




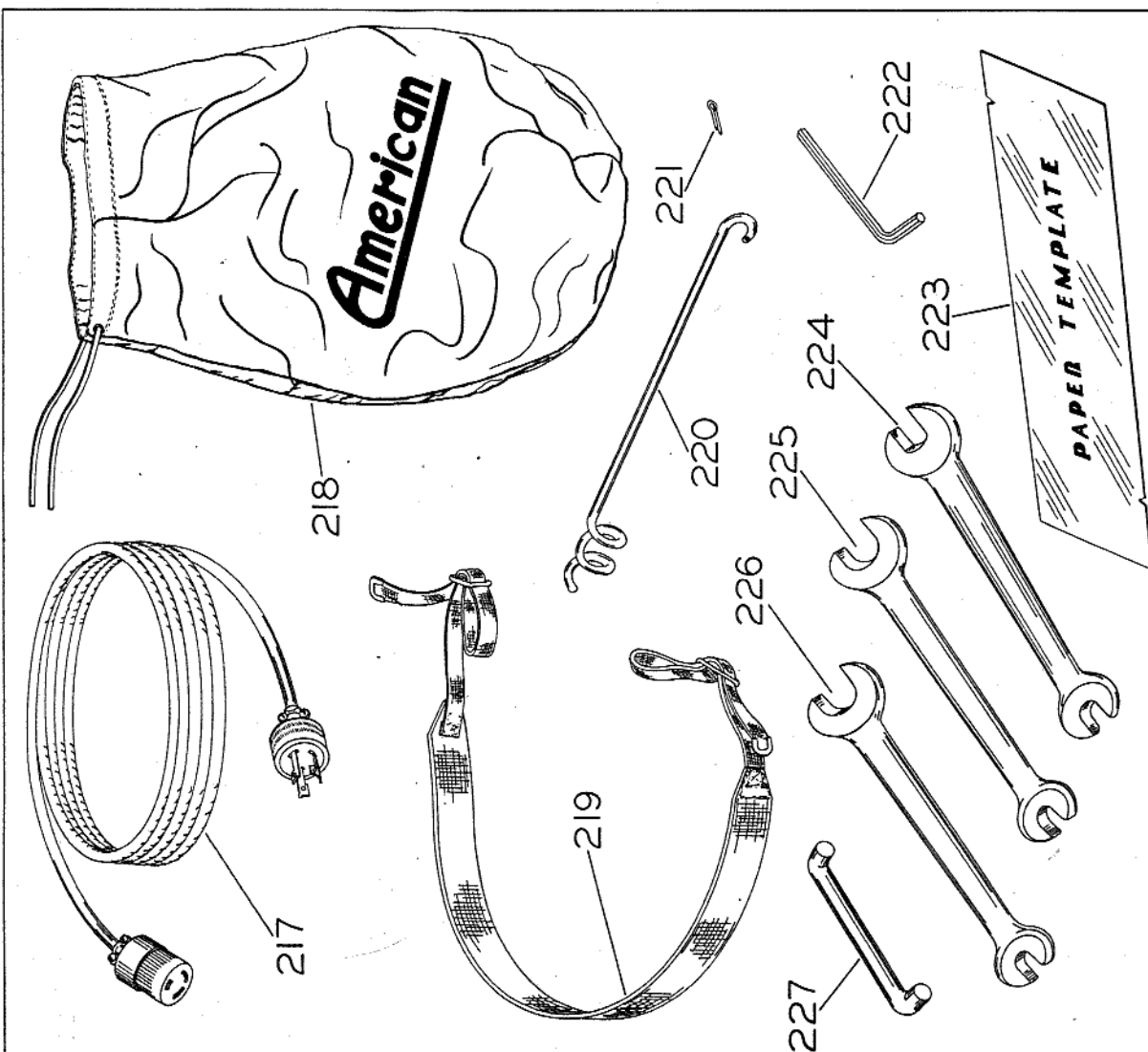
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ENG. FORM 1313

STEERING HANDLE ASSEMBLY



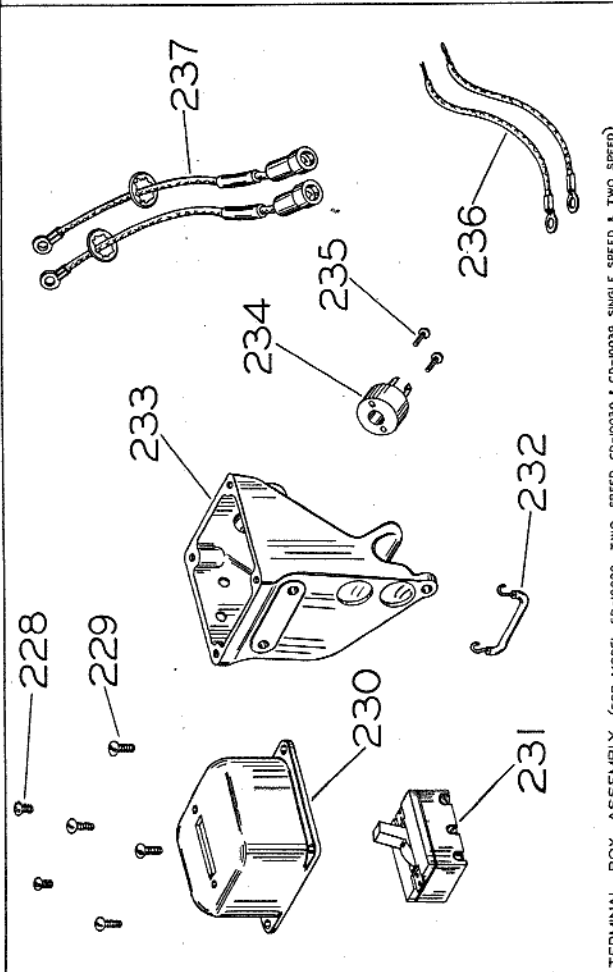


LEAN HOUSING ASSEMBLY

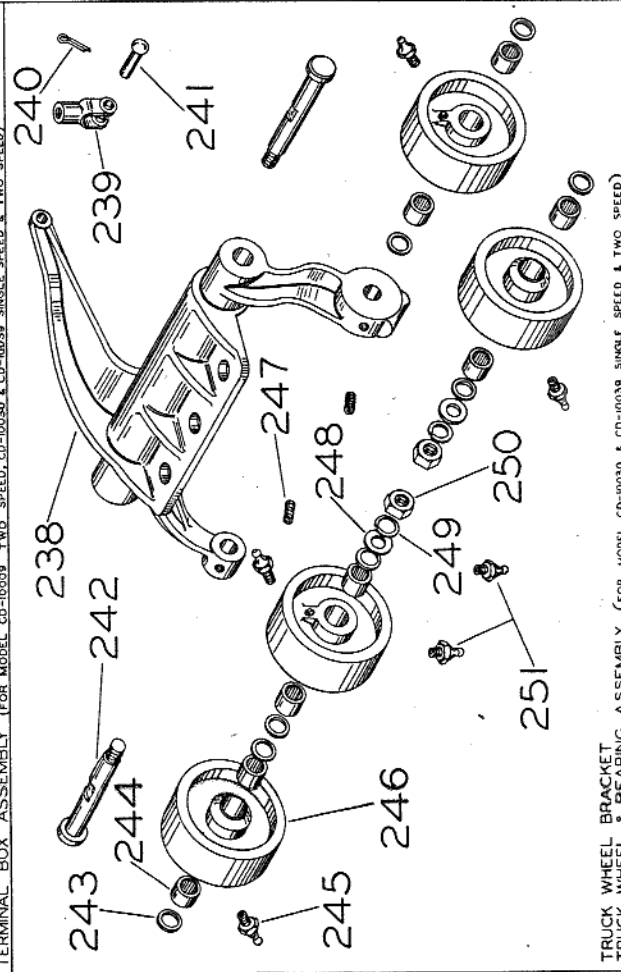


ACCESSORIES

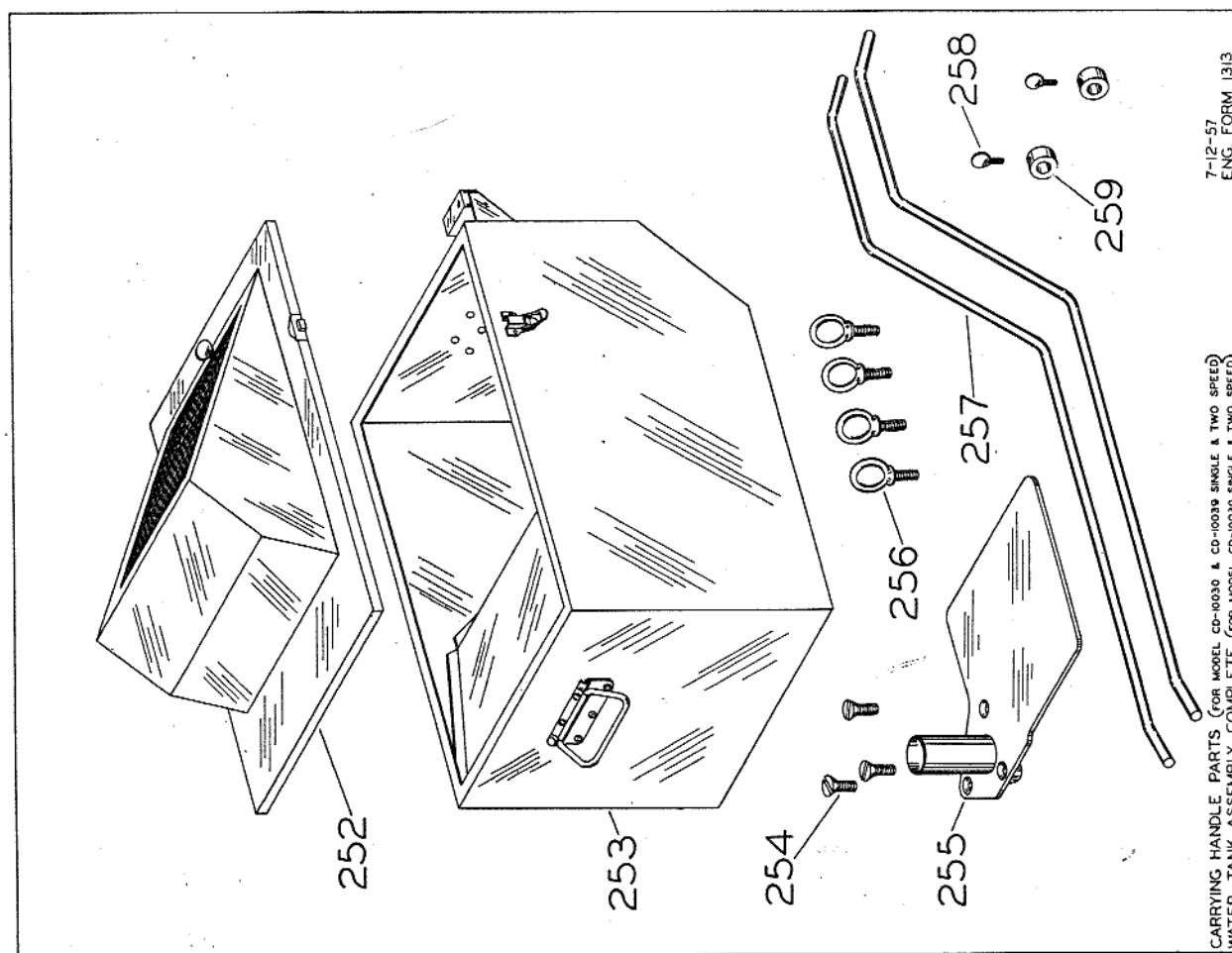
7-12-57
ENG. FORM 1313



TERMINAL BOX ASSEMBLY (FOR MODEL CD-10039, TWO SPEED, CD-10030 & CD-10039, SINGLE SPEED & TWO SPEED)



TRUCK WHEEL BRACKET
TRUCK WHEEL & BEARING ASSEMBLY (FOR MODEL CD-10030 & CD-10039, SINGLE SPEED & TWO SPEED)



CARRYING HANDLE PARTS (FOR MODEL CD-10030 & CD-10039, SINGLE & TWO SPEED)
WATER TANK ASSEMBLY COMPLETE (FOR MODEL CD-10030, SINGLE & TWO SPEED)