May 10, 1957 SAE-300 F-226 Continental 1367; 1368

INSTRUCTION MANUAL IM-133-B

for

TYPE SAE-300

POWERED by the CONTINENTAL F-226 ENGINE

MODELS S-7079 and S-7079-SM

CODE 1367 1368

PARTS LIST FOR WELDER AND ENGINE

THE LINCOLN ELECTRIC COMPANY

Cleveland 17, Ohio

This manual covers equipment which is obsolete and no longer in production by The Lincoln Electric Co. Specifications and availability of optional features may have changed.

May 10, 1957

IA-a CYLINDER & CRANKCASE

Part Number	Quantity		Description	<u>L</u>
F600A-620I-A	1	Cylind	er and Crankcase	e Assembly (Stripped)
		· ·	mposed of:	*Not Serviced Separately
		*	F600A-620	Cylinder and Crankcase
		1	F600B-378	Cap
		1	F600B-338	Сар
		ł	F600B-336	Cap
		1	F600B-339	Cap
		*	F600G-336	Bearing
		*	F600G-335	Bearing
		* 2	F600G-325	Bearing
		* 2	F600G-326	Bearing
		*	F600G-327	Bearing
		*	F600G-328	Bearing
		1	F600G-206	Bushing
		ŧ	F600G-207	Bushing
		Ť	D600G-217	Bushing
		1	F600G-208	Bushing
		1	F400K-210	Sleeve
		12	F6001-235	Guides
		6	F600A-245	Inserts
		1	10EL-227	Support
		1	14HC-2I5	Dowel
		2	F600B-242	Dowels
,		5	F600B-247	Dowel
		1	D600B-305	Guard
		1	D600B-217	Cork
		6	X-3555	Screw
		2	X-35II	Screw
		2	X-4038	Stud
		2	X-1952	Stud
		5	X-19002	Stud
		ı	X-19004-C X-19003	Stud
		2		Stud Stud
		33	X-19889 X-4023	Stud
		8	X-4023 X-4266	Stu d
		3	X-19006	Stud
		2	X-4200	Stud
		8	3X-B2B-110	Washer
		2	X-100	Plug
		5	X-2202	Plug
		J I	X-2236	Plug
•		3	X-137-A	Plug
		* 1	E-600A-215	Plug
		4	X-13012	<u>P</u> in

1A-a CYLINDER & CRANKCASE (Continued)

	_	$\int_{\mathbb{R}^{n}} dx$	
Part Number	Quantity	Description	
F600A-620I-C	1	Cylinder and Crankcase Ass	embly (with Pistons & Rings)
		Composed of:	
		1 F600A-6201-A	Cylinder & Crank case Assy.
		6 F600A-4671-E	Piston Assembly
		6 F600A-261	Ring
		6 F600A-262	Ring
		6 F600A-260	Ring
		6 F600A-360	Ring
F600A-6201-1	l	Cylinder and Crankcase Ass	
		(With Complete Valve N	Nechanism)
		Composed of:	
		I F600A-620I-C	Cylinder & Crankcase Assy.
		6 F6001-229	Valves
	•	6 F6001-238	Valves
		12 F6001-232	Springs
		1,2 F6001-234	Retainers
		2 1251-207	Locks
		2 Y4001-2110	Tappet Assembly
IA-6 CRANKS	HAFT BEAKIN	IG CAPS	
E400D 070		Com Barrian Complete of	Eront)
F600B-378	:	Cap, Bearing, Crankshaft (Cap, Bearing, Crankshaft (Intermediate Front)
F600B-338	1	Cap, Bearing, Crankshaft (Intermediate Rear)
F600G-336	1	Cap, Bearing, Crankshaft (
F600B-339 F600B-247	-		Bearing Cap to Cylinder
F600B-247	5 2		Bearing Cap to Cylinder(Front)
14HC-215		Dowel, Clarkshar	kshaft Bearing Cap to Cylinder
	· ·		Bearing Cap to Cylinder
X-3555	6 2	•	Bearing Cap to Cylinder
X-3511	_	<u> </u>	inkshaft Bearing Cap to
3X-B2B-110	8	Cylinder Screw	
6SH-100	3		shaft Bearing Cap to Cylinder
0311-100	, •		termediate Rear) No. 19 × 10
X-1333-B	ı		shaft Bearing Cap to Cylinder
X 1000 B	•	Screw (Rear—Inte	
		20.011 (1.021	•
IA-c FILLER B	LOCKS		
D600B-340	I	Block, Filler (Front)	
X-3164	2		c to Crankcase (Front)
X-297-A	2		er Block to Crankcase Screw 5/16
D600B-214	1	Cork, Filler Block to Oil	Pan (Front)
D600B-406	1	Block, Filler (Rear)	
X-2958	2	•	k to Crankcase (Rear)
X-297-A	2	•	er Block to Crankcase Screw 5/16
D600B-214		Cork, Filler Block to Oil I	
D600B-217	2	Cork, Filler Block to Cran	kshaft (Rear)
D600B-305	1	Guard, Oil, Crankshaft Be	earing (Rear)

IA-d HOLE COVERS & PLUGS

Part Number	Quantity	Description
16EB-202	ı	Cover, Fuel Pump Hole
X-1952	2	Stud, Fuel Pump Hole Cover to Cylinder
X-1801-E	2	Nut, Fuel Pump Hole Cover to Cylinder Stud
X-202	2	Washer, Lock, Fuel Pump Hole Cover to
X-202	2	Cylinder Stud
1/5/ 201	1	
16EV-201	l	Gasket, Fuel Pump Hole Cover to Cylinder
X-3236	2	Screw, Plugging Air Cleaner Stud Hole
X-14192	2	Washer, Copper, Air Cleaner Stud Hole Plugging Screw
6AB-107	3	Screw, Plugging, Generator Bracket Stud Hole
X-14134	3	Washer, Copper, Generator Bracket Stud Hole Plugging Screw
X-2236	1	Plug, Hubbard, Camshaft Bushing (Rear)
X-2207	5	Plug, Special, Cylinder Core Hole
X-137-A	2	Plug, Pipe, Crankcase Oil Header 1/4 (Countersunk-Special)
IB-a END PLA	TE (Rear)	
L-2678-I	ı	Plate, End (Rear) (No Auxiliary Generator)
F600B-200	2	Screw, Dowel, End Plate to Crankcase
S-8190		Gussets
T-8838	2 2	Speed Nut
T-8833-1	3	Screw, End Plate to Engine
S-8188 S-7438 3/8-16 E-106-A-4	HOLE COVE I I 2 2	Starter Hole Cover Starter Spacer Screw, Hex Head Cap, 1/2" long Lockwasher
2A-o CYLINE	DER HEAD	
F226A-411	I	Head, Cylinder
X-19889	33	Stud, Cylinder Head to Cylinder
3X-X-!8231	31	Nut, Cylinder Head to Cylinder Stud
3X-UB-110	32	Washer, Plain, Cylinder Head to Cylinder Stud
X-14189	1	Washer, Plain, Cylinder Head to Cylinder Stud
F600A-536	1	Gasket, Cylinder Head to Cylinder
2A-b CYLINE	DER HEAD PLU	JGS .
6AB-107	,	Screw, Plugging, Distributor Adapter Stud Hole
X-14134	Ì	Washer, Copper, Distributor Adapter Stud Hole Plugging Screw
C143M-202		Plug, Special, Distributor Drive Hole
X-101-B	1	Plug, Pipe, Cylinder Head Thermometer Hole 1/2
- · · · · · ·	•	(Countersunk)
		/ account active

3A-a CRANKSHAFT

Part Number F600C-606 F600C-214 D600C-206 F600C-216 F600C-220 10EC-204 10EC-205 A600C-204 F600-O-206	Quantity I I I I I I I I I I I I I I I I I I	Description Crankshaft Plate, Thrust, Crankshaft Spacer, Crankshaft, Thrust Plate Washer, Thrust, Crankshaft (Rear) Washer, Thrust, Crankshaft (Front) Shim, Thrust, Crankshaft .002 Shim, Thrust, Crankshaft .008 Thrower, Oil, Crankshaft Jaw, Starting, Crankshaft
F600-Q-205	1	Washer, Crankshaft Starting Jaw to Crankshaft
3A-b CRANKS	HAFT BEARIN	<u>IGS</u>
F600G-325I F600G-325I	1	Bearing, Main, Crankshaft (Front-Upper and Lower) Bearing, Main, Crankshaft (Intermediate Front-Upper and Lower) Bearing, Main, Crankshaft (Intermediate Rear - Upper
F600G-327I	i	and Lower) Bearing, Main, Crankshaft (RearUpper and Lower)
4A-a CONNE	CTING RODS	
F226D-4007	3	Rod Assembly, Connecting (Cylinder 1-3-5) Composed of: *Not Serviced Separately * I F226D-4000 Rod and Cap 2 F600G-355 Bearings I F400G-211 Bushing 2 C600D-206 Bolts 2 X-18188 Nuts
F226D-3001	3	Rod Assembly, Connecting (Cylinder 2-4-6) Composed of: *Not Serviced Separately * F226D-3000 Rod and Cap 2 F600G-354 Bearings F400G-2 Bushing 2 C600D-206 Bolts 2 X-18188 Nuts
C60D-206	12	Bolt, Connecting Rod
X-18188	12	Nut, Connecting Rod Bolt
X-60I	12	Pin, Cotter, Connecting Rod Bolt
4A-b CONNI	CTING ROD	BEARINGS
E400C =255	6	Bearing, Connecting Rod (1-3-5 Connecting Rods)
F600G-355 F600G-354	6	Bearing, Connecting Rod (2–4–6 Connecting Rods)
	•	and the second of the second o

5A-a PISTONS

Part Number Q	uantity	Description
F600A-467I-A	6	Piston Assembly (Complete) Composed of: I F600A-467 Piston I W5A-202 Pin 2 X-70II Rings I F600A-26I Ring I F600A-262 Ring I F600A-260 Ring I F600A-360 Ring
F600A-467I-E	6	Piston Assembly Composed of: I F600A-467 Piston I W5A-202 Pin 2 X-7011 Rings
F600A-4671-ESF	6	Piston Assembly (Semi-Finished) Composed of: 1 F600A-467-SF Piston 1 W5A-202 Pin 2 X-7011 Rings
F600A-467	6	Piston
F600A-467-SF	6	Piston (Semi-Finished)
5A-b PISTON RIN	IGS	
F600A-261	6	Ring, Piston (Top Groove) Plain
F600A-262	6	Ring, Piston (Second Groove) Taper Face
F600A-260	6	Ring, Piston (Bottom Groove) Hi F Super Drain Oil
F600A-360	6	Ring, Piston (Third Groove) Super Compression
5A-c PISTON PIN	15	
W5A-202	6	Pin, Piston
X-7011	12	Ring, Retaining, Piston Pin
F400G-211	6	Bushing, Piston Pin
6A-a CAMSHAFT		
F6001-412	I	Camshaft
D6001-259	1	Plate, Thrust, Camshaft
X-3362	1	Screw, Camshaft Thrust Plate to Crankcase
X-270	l	Washer, Lock, Camshaft Thrust Plate to Crankcase Screw
X-19003	2	Stud, Camshaft Thrust Plate to Crankcase
X-1802-G	2	Nut, Camshaft Thrust Plate to Crankcase Stud
X-203	2	Washer, Lock, Camshaft Thrust Plate to Crank- case Stud

6A-b CAMSHAFT BUSHINGS

		
Part Number	Quantity	Description
F600G-295		Bushing, Camshaft (Front)
F600G-207	ĺ	Bushing, Camshaft (Intermediate Front)
D600G-217	i	Bushing, Camshaft (Intermediate Rear)
F600G-208	i ·	Bushing, Camfhaft (Rear)
F000Q-200	. •	
6A-c TIMING	GEARS	·
F400H-310	1	Gear, Timing Crankshaft
X-506	ì	Key, Camshaft Timing Gear to Camshaft
7, 330		(Woodruff No.6)
X-18156	1	Nut, Camshaft Timing Gear to Camshaft
PY C-202	1	Lock, Nut, Camshaft Timing Gear to Camshaft Nut
D600H-300	i	Gear, Timing, Crankshaft
X-511	i	Key, Crankshaft Timing Gear to Crankshaft
V-211	•	(Woodruff Np. 15)
r(00: 202	ţ	Plate, Oiler, Timing Gear
F600L-203	1	Tidle, Still, Timing Sour
7A-a GEAR C	OVER	
F600B-4163	ŧ	Cover Assembly, Gear
F0000-4103	•	Composed of: *Not Serviced Separately
		* F6008-416 Cover
		A600L-202 Seal
	•	Dowel, Ring, Gear Cover to Crankcase
8TC-200	1	Screw, Gear Cover to Cylinder
X-3295	ŀ	Washer, Lock, Gear Cover to Cylinder
X-203	1	Screw, Gear Cover to Crankcase (at Ring Dowel)
X-3368	!	Washer, Plain, Gear Cover to Crankcase Screw
B2K-134	! •	Screw, Gear Cover to Filler Block
X-3295	1	Screw, Gear Cover to Filler Block
X-3299	3	Screw, Gear Cover to Filler Block
X-14134	2	Washer, Lock, Gear Cover to Filler Block Screw
		(Upper Holes)
X-203	2	Washer, Copper, Gear Cover to Filler Block Screw
		(Lower Holes)
D600B-221	1	Screw, Dowel, Gear Cover to End Plate
X-1803-H	I	Nut, Gear Cover to End Plate Dowel Screw
B2K-134		Washer, Plain, Gear Cover to End Plate
	_	Dowel Screw
X-4200	2	Stud, Gear Cover to Cylinder (Upper Holes)
X-1802-G	2	Nut, Gear Cover to Cylinder Stud
X-203	2	Washer, Lock, Gear Cover to Cylinder Stud
F600B-357	1	Gasket, Gear Cover to End Plate
A600L-202	1	Seal, Oil, Crankshaft Bearing (Front)
7A-b CRANI	CASE END P	LATE (FRONT)
F600B-356		Plate, End, Crankcase (Front)
D600B-203	1	Dowel, Crankcase End Plate to Crankcase
NL-194	i	Screw, Crankcase End Plate Cylinder
1 4 m 1 f 7	•	

7A-b CRANKCASE END PLATE - FRONT (Continued)

Part Number	Quantity	Description
X-203	1	Washer, Lock, Crankcase End Plate to Cylinder Screw
D600B-339	i	Gasket, Crankcase End Plate to Crankcase
8A-a VALVES	AND ASSOC	IATED PARTS
F6001-229	6	Valve, Intake
F6001-238	6	Valve, Exhaust
* F600A-255	6	Inserts, Valve Seat (Exhaust) .010 oversize
F6001-235	12	Guide, Valve Stem
F6001-232	12	Spring, Valve (Intake and Exhaust)
F6001-234	12	Retainer, Valve Spring
1251-207	12	Lock, Retainer, Valve Spring
8A-6 VALVE	APPETS	
Y4001-2110	12	Tappet Assembly, Valve
•		Composed of:
		l Y4001-211 Tappet
		1 Y400I-213 Screw
		1 Y4001-212 Nut
Y4001-211	12	Tappet, Valve
Y4001-213	12	Screw, Adjusting, Valve Tappet
Y4001-212	12	Nut, Lock, Valve Tappet, Adjusting Screw
9A-b VALVE	TAPPET CHAN	BER COVER
F600A-3670	1	Cover Assembly, Valve Tappet Chamber
10004-3070	•	Composed of: *Not Serviced Separately
		* I F600A-366 Cover
		* I F600A -274 Tube
		* 1 F600A-275 Baffle
V 4000	1	Stud, Valve Tappet Chamber Cover to Cylinder
X-4023	١	Stud, Valve Tapper Chamber Cover to Cylinder Stud, Valve Tappet Chamber Cover to Cylinder
X-4038	2 3	• • • • • • • • • • • • • • • • • • • •
8FA-208	3	Nut, Valve Tappet Chamber Cover to Cylinder Stud
X-334	3	Gasket, Valve Tappet Chamber Cover to Cylinder Stud
F600A-369	1	Gasket, Valve Tappet Chamber Cover to Cylinder
10A-a OIL PA	<u>N</u>	
D600B-4010	1	Pan Assembly, Oil Composed of: *Not Serviced Separately * 1 D600B-401 Pan * 4 C400B-233 Reinforcements * 2 D600B-349 Reinforcements * 2 C600B-301 Baffles

10A-a OIL PAN (Continued)

Part Number	Quantity	Description	
D600B-4010	1	Pan Assembly, Oil Composed of: * I F600B-317 I W4B-108 I W4B-109	*Not Serviced Separately Boss Gasket Plug
X-3896	18	Screw and Lockwo Crankcase Composed of: 1 X-3182 1 X-202	sher Assembly, Oil Pan to Screw Washer
D600B-402	2	Gasket, Oil Pan	
W4B-109	f	Plug, Drain, Oil Pan	
W4B-108	i	Gasket, Oil Pan Drain Pl	ug
IIA-a OIL PUA	ΛP		
D600L-4027		Pump Assembly, Oil Composed of: I D600L-4020 I 17EL-2001 I D600L-2120 I 17EL-300 I F218L-204 I F600H-205 I D600H-216 I F600H-2070 I BUL-212 I D600L-204 I C400L-228 I C400L-231 I 17EL-204 6 X-3056 6 X-201 I 6UH-101 I X-584	Body Assembly Cover Assembly Screen Assembly Frame Shaft Gear Gear Gear Gear Assembly Stud Ring Spacer Gasket Gasket Screws Washers Pin Key
D600L-4020	1	Body Assembly, Oil Pump Composed of: * 1 D600L-402	*Not Serviced Separately Body
		1 D600G-274	Bushing
X-19004-C	1		ody to Bearing Cap
X-1802-G	l		Socy to Bearing Cap Stud
X-203	1		iInPump Body to Bearing Cap Stud
F218L-204	1	Shaft, Drive, Oil Pump	D Duite Charle
D600L-204	l		Pump Drive Shaft
F400L-210	!	Bushing, Oil Pump Drive	Shaff (in Crankcase)
D600G-274	1	Bushing, Oil Pump Drive	
F600H-205	. 1	Gear, Drive Oil Pump (
6UH-101	1	Pin, Oil Pump D	rive Gear to Shaft

IIA-a OIL PUMP (Continued)

Part Number	Quantity	Description	
D600H-216	1	Gear, Driver, Oil Pump	
X-584	1	Key, Oil Pump Dri	ver Gear to Shaft
		(Woodruff No.	
F600H-2070	1	Gear Assembly, Idler, Oil	Pump
		Composed of:	*Not Serviced Separately
		* I F600H-207	Gear
		l F600G-204q	Bushing
8UL-212	1	Stud, Oil Pump Idl	
F600G-204	l	Bushing, Oil Fump Idler G	
17EL-2001		Cover Assembly, Oil Pump	
	·	Composed of:	*Not Serviced Separately
		* I 17EL-200	Cover
		* 1 10EL-204	Tube
X-3056	2	Screw, Oil Pump	
X-201	2		Pump Cover to Body Screw
C400L-23I	1	Gasket, Oil Pump Cover t	•
17EL-300	i	Frame, Oil Pump Strainer	
X-3056	4	•	_
X-201		•	trainer Screen Frame to Cover
	4	to Cover	Pump Strainer Screen Frame
17EL-204	1	Gasket, Oil Pump Straine	
C400L-228	l	Spacer, Oil Pump Strainer	
D600L-2120	1	Screen Assembly, Strainer	, Oil Pump
		Composed of:	*Not Serviced Separately
		•	•
		* 1 D600L-212	Screen
		•	•
		* 1 D600L-212	Screen
13A-a OIL FILL	ER_	* 1 D600L-212	Screen
	<u>ER</u>	* I D600L-212 * I 6VB-II9	Screen
13A-a O IL FILL D600L-2270	ERI	* 1 D600L-212	Screen Wire
	ERI	* 1 D600L-212 * 1 6VB-119 Cap Assembly, Oil Filler Composed of:	Screen
	ER I	* D600L-212 * 6VB-119 Cap Assembly, Oil Filter Composed of: * D600L-227	Screen Wire *Not Serviced Separately Cap
	ERI	* D600L-212 * 6VB-119 Cap Assembly, Oil Filler Composed of: * D600L-227 * D600L-228	Screen Wire *Not Serviced Separately
	ER I	* D600L-212 * 6VB-119 Cap Assembly, Oil Filler Composed of: * D600L-227 * D600L-228 * C400L-242	Screen Wire *Not Serviced Separately Cap Baffle Seal
	ER I	* D600L-212 * 6VB-119 Cap Assembly, Oil Filler Composed of: * D600L-227 * D600L-228	Screen Wire *Not Serviced Separately Cap Baffle
	ER I	* D600L-212 * 6VB-119 Cap Assembly, Oil Filler Composed of: * D600L-227 * D600L-228 * C400L-242	Screen Wire *Not Serviced Separately Cap Baffle Seal
D600L-2270	1	* D600L-212 * 6VB-119 Cap Assembly, Oil Filter Composed of: * D600L-227 * D600L-228 * C400L-242 * 2 X-14175	Screen Wire *Not Serviced Separately Cap Baffle Seal
D600L-2270 X-12210	1	* D600L-212 * 6VB-119 Cap Assembly, Oil Filler Composed of: * D600L-227 * D600L-228 * C400L-242 * 2 X-14175 Nipple, Close, Oil Filler	Screen Wire *Not Serviced Separately Cap Baffle Seal
D600L-2270 X-12210 I3A-b OIL GAL	I JGE ROD	* D600L-212 * 6VB-119 Cap Assembly, Oil Filler Composed of: * D600L-227 * D600L-228 * C400L-242 * 2 X-14175 Nipple, Close, Oil Filler Rad Assembly, Oil Gauge	*Not Serviced Separately Cap Baffle Seal Washers
D600L-2270 X-12210 I3A-b OIL GAL	I JGE ROD	* D600L-212 * 6VB-119 Cap Assembly, Oil Filler Composed of: * D600L-227 * D600L-228 * C400L-242 * 2 X-14175 Nipple, Close, Oil Filler	Screen Wire *Not Serviced Separately Cap Baffle Seal
D600L-2270 X-12210 I3A-b OIL GAL	I JGE ROD	* D600L-212 * 6VB-119 Cap Assembly, Oil Filter Composed of: * D600L-227 * D600L-228 * C400L-242 * 2 X-14175 Nipple, Close, Oil Filler Rod Assembly, Oil Gauge Composed of:	*Not Serviced Separately Cap Baffle Seal Washers *Not Serviced Separately
D600L-2270 X-12210 I3A-b OIL GAL	I JGE ROD	* D600L-212 * 6VB-119 Cap Assembly, Oil Filler Composed of: * D600L-227 * D600L-228 * C400L-242 * 2 X-14175 Nipple, Close, Oil Filler Rod Assembly, Oil Gauge Composed of: * D600L-217	*Not Serviced Separately Cap Baffle Seal Washers *Not Serviced Separately Rod
D600L-2270 X-12210 I3A-b OIL GAL	I JGE ROD	* D600L-212 * 6VB-119 Cap Assembly, Oil Filler Composed of: * D600L-227 * D600L-228 * C400L-242 * 2 X-14175 Nipple, Close, Oil Filler Rod Assembly, Oil Gauge Composed of: * D600L-217 * K404L-209	*Not Serviced Separately Cap Baffle Seal Washers *Not Serviced Separately Rod Cover Felt
D600L-2270 X-12210 13A-b OIL GAU D600L-2170	I JGE ROD	* D600L-212 * 6VB-119 Cap Assembly, Oil Filter	*Not Serviced Separately Cap Baffle Seal Washers *Not Serviced Separately Rod Cover Felt

13A-d OIL PRESSURE RELIEF VALVE

F226A-204

2

Eye, Lifting, Engine

Part Number 15SL-211 F400L-223 W5L-213 41AL-200 41AL-200 X-365	Quantity	Description Valve, Relief, Oil Pressure Spring, Oil Pressure Relief Valve Washer, Adjusting, Oil Pressure Relief Valve (Used as Required) Plug, Oil Pressure Relief Valve Gasket, Oil Pressure Relief Valve Plug
13B-a OIL TUB	ES AND CO	NNECTIONS
X-8016-9 X-12014 X-12166 X-5291	2 2 1	Hose Assembly, Oil Filter Elbow, Oil Filter Hose (90°) Bushing, Reducing, Oil Filter Inlet Tube to Crankcase Ell, Street, Oil Pressure Gauge Tube to Crankcase
14A-a OIL FIL	TER	
F140L-402 X-4125 X-1801-E X-202-B B2K-134 F140L-225 I4A-b AIR FILT M-6984-I	I	Filter Assembly (Fram No. F3) Stud, Oil Filter to Cylinder Head Nut, Oil Filter to Cylinder Head Stud Washer, Lock, Oil Filter to Cylinder Head Stud Washer, Plain, Oil Filter to Cylinder Head Stud Element, Oil Filter Air Filter and Bracket Assembly
F226C-4I30 22AC-202	6	Flywheel Assembly Composed of: *Not Serviced Separately * I F226C-413 Flywheel I 8FC-304 Gear Bolt, Flywheel to Crankshaft
X-18237	6	Nut, Flywheel to Crankshaft Bolt
1420	6	Washer, Lock, Flywheel to Crankshaft Bolt (Shakeproof)
T-8906	4	Stud, Coupling
17A-b RING	GEAR	
8FC-304	1	Gear, Ring, Flywheel
19B-a ENGIN	E LIFTING E	QUIPMENT

19B-b STARTING CRANK

170-0 STARTIN	G CKAINK	
Part Number	Quantity	Description
S-7430	1	Starting Crank
20A-a MANIFO	OLD ASSEMB	<u>Y</u>
F600E-507I	•	Manifold Assembly, Intake and Exhaust Composed of: I F600E-407 Manifold I F226F-302 Manifold I F600E-210 Sector I F600E-208 Valve I F600E-213 Shaft 2 F600G-200 Bushings I F600E-212 Gasket I X-3009 Screw 4 X-4275 Studs I X-1987I Stud I X-1800-C Nut I X-1896 Nut 4 6EE-100 Nuts 4 UB-110 Washers I A70K-222 Washer I X-100 Plug I X-110 Plug I YL-118 Plug I F600E-211 Key
20A-b INTAK	E MANIFOLI	
F226F-302 X-100 X-110	1 1	Manifold, Intake Plug, Pipe, Intake Manifold 1/8 Ext. Head Plug, Pipe, Intake Manifold (3/8 Countersunk)
20A-c EXHAL	IST MANIFO	<u>.D</u>
F600E-507 16SE-203 X-4266 X-19006 6EE-100	 6 8 3 	Manifold, Exhaust Crab, Exhaust and Intake Manifold Stud, Exhaust and Intake Manifold to Cylinder Stud, Exhaust and Intake Manifold to Cylinder Nut, Exhaust and Intake Manifold to Cylinder Stud (Brass)
X-1375	2	Washer, Plain, Exhaust and Intake Manifold to

Cylinder Stud (End Studs)

Cylinder Stud (Center Studs)
Stud, Exhaust to Intake Manifold

3

X-14131

X-4275

6 FE-100

UB-IIO

Washer, Plain, Exhaust and Intake Manifold to

Nut, Exhaust to Intake Manifold Stud (Brass)

Washer, Plain, Exhaust to Intake Manifold Stud

20A-c EXHAUST MANIFOLD (Continued)

Part Number	Quantity	Description
F600E-212 F600E-300 6YL-118 S-7348	1 1 1 1	Gasket, Exhaust to Intake Manifold Gasket, Exhaust and Intake Manifold to Cylinder Plug, Pipe, Exhaust Manifold Exhause Pipe Assembly
20A-d HEAT CO	ONTROLS	
F600E-208 F600E-213 F600G-200 F600E-210 X-3009 X-1896 X-19871	1 2 1 1	Valve, Exhaust Manifold Heat Control Shaft, Exhaust Manifold Heat Control Valve Bushing, Exhaust Manifold Heat Control Valve Shaft Sector, Exhaust Manifold Heat Control Valve Screw, Exhaust Manifold Heat Control Valve Sector Clamp Nut, Exhaust Manifold Heat Control Valve Sector Clamp Screw Stud, Exhaust Manifold Heat Control Valve Sector to Manifold
X-1800-C	1	Nut, Exhaust Manifold Heat Control Valve Sector to Manifold
A70K-222	1	Washer, Plain, Exhaust Manifold Heat Control Valve Sector to Manifold Stud
F600E-211	1	Key, Exhaust Manifold Heat Control Valve Sector to Shaft
21A-a CARBURE	TOR	
M-7033	1	Carburetor (see 3408 pages 1-2 for component parts)
21A-b VALVE B	<u>ox</u>	
S-7528 S-8178	1	Valve Box Assembly Composed of: 1 M-6809 Valve Box 1 T-9095 Shaft 1 T-9094 Lever 1 No. 1 Groove Pin 1 S-7078 Butterfly 2 8-32 Screws, Round Head 5/16" long 2 T-9093 Lockwashers 1 T-9092 Bumper Spring 1 T-9091 Screw, Bumper Spring 1 3/8-24 Nut, Hex Head Jam Tube Valve Box to Manifold
S-7531	2	Tube, Valve Box to Manifold Male Elbow
T-8606 3/8 ST'd.	1 2	Drain Pipe Street Ell

21A-b VALVE BOX Continued

F400S-200

F4005-201

F400S-202

F600H-219

1

1

1

1

Part Number	Quantity	Description
T-9165	2	Stud, Box to Carburetor
3/8"-16	2	Nut, Hex
T-9183	2	Washer
S-7526	2	Gasket
21A-c CARBU	RETOR CONT	TROLS
S-2567	1	Throttle Spring
S-7525	1	Choke Rod Assembly
T-7894-3	1	Throttle Spring Rod
24A-a GAS TA	ANK	
L-2643	1	Gas Tank Assembly
S-8000	1	Filler Pipe Cap
S-6185	1	Gas Strainer
		Including:
		1 S-6185-1 Glass Bowl
		1 S-6185-2 Screen
		1 S-6185-3 Gasket
24A-b LINES	AND FITTIN	<u>GS</u>
S-4893-3	1	Gas Line
T-8644	1	Connector
T-4169	1	Clamp
10-24	1	Screw 1/2" long
10-24	1	Nut
	1	Lockwasher
E-106-A-1	1	Clamp Washer
T-9060	1	Elbow
T-8645	•	LIDOW
25A-a GOVE	RNOR	
F2265-4080	1	Governor Assembly (Monarch No. 5CM-A1004)
X-3283	1	Screw, Governor to Gear Cover (Upper)
X-318	1	Gasket, Governor to Gear Cover Screw
X-3295	1	Screw, Governor to Gear Cover (Lower)
X-203	1	Washer, Lock, Governor to Gear Cover Screw
- 1000 000	•	Coolean Covernor to Goar Cover

Gasket, Governor to Gear Cover

Gasket, Governor Flange Plate

Plate, Governor Flange

Gear, Governor

25A-b GOVERNOR CONTROLS

Part Number	Quantity	Description
T-9113 T-8624 1/4-28 E-106-A-2	1 2 4 2	Governor Rod Ball Sockets Hex Nuts Lockwashers
26A-a WATER PL	JMP	
F400K-404	1	Pump Assembly, Water (Complete) Composed of: 1 F400K-404 Body 1 Y400K-3351 Support Assembly 1 F162K-232 Hub 1 12AK-203 Flange 1 Y400K-332 Impeller 1 A244K-206 Shaft 1 Y400K-3330 Seal Assembly 2 X-13073 Bearings 1 Y400K-236 Spacer 1 F600K-272 Ring 1 F600K-273 Retainer 1 Y400K-234 Gasket 1 X-3054-C Screw 1 K-1800-C Screw 2 JS-108 Screws 3 X-19098 Studs 3 X-18158 Nuts 1 X-18053-B Nut 3 X-297 Washers 1 X-270 Washers 1 X-599-D Key 2 BUK-205 Locks 1 X-102 Plug 1 X-940 Fitting Body, Water Pump
X-3939 X-3063 X-203 X-14134	3 1 3 · 1	Screw, Water Pump Body to Cylinder Screw, Water Pump Body to Cylinder Washer, Lock, Water Pump Body to Cylinder Screw Washer, Copper, Water Pump Body to Cylinder
F400K-340 X-102 X-940 Y400K-3351	1 1 1	Screw (Lower Center) Gasket, Water Pump to Cylinder Plug, Pipe, Water Pump Body Fitting, Grease, Water Pump Body Support Assembly, Water Pump Drive Shaft Composed of: *Not Serviced Separately 1 Y400K-335 Support 1 D600G-283 Bushing

. 26A-a WATER PUMP Continued

<i>i</i>	<u>.</u> .	
Part Number	Quantity	Description
X-19098	3	Stud, Water Pump Drive Shaft Support to Body
X-18158	3	Nut, Water Pump Drive Shaft Support to Body Stud
X-10136 X-297	3	
A-277	3	Washer, Lock, Water Pump Drive Shaft Support
Y400K-234	1	to Body Stud
Y400K-234	1	Gasket, Water Pump Drive Shaft Support to Body
X-3054-C	1	Impeller, Water Pump
A244K-206	1	Screw, Set, Water Pump Impeller to Shaft Shaft, Drive Water Pump
Y400K-3330	ì	Seal, Assembly, Water Pump
D600G-283	1	
X-13073	2	Bushing, Water Pump Drive Shaft (In Support)
Y400K-236	_	Bearing, Ball, Water Pump Drive Shaft
	}	Spacer, Water Pump Bearing (Between Bearings)
F600K-272		Ring, Snap, Retaining, Water Pump Bearing
F600K-273	1	Retainer, Water Pump Bearing Retaining Snap
F/00K 0//	1	Ring to Shaft
F600K-266	1	Screw, Set, Water Pump Bearing
X-1800-C	ſ	Nut, Lock, Water Pump Bearing Set Screw
27A-b FAN HU	R	
Z/A DIAMIN		
F162K-232	1	Hub, Fan
X-599-D	ì	Key, Fan Hub to Water Pump Shaft (Woodruff No.5)
X-18053-B	i	Nut, Fan Hub to Water Pump Shaft
X-270	i	Washer, Lock, Fan Hub to Water Pump Shaft
12AK-203	i	Flange, Adjusting, Fan Belt
JS-108	2	Screws, Fan Belt Adjusting Flange to Fan Hub
X-201	2	Washer, Lock, Fan Belt Adjusting Flange to
7 201		Fan Hub
8UK-205	2	Lock, Nut, Fan Belt Adjusting Flange to Fan Hub
001 200 ·	~	about their fall both the forting that go to the state
27A-d FAN DR	IVE PULLEY	& BELT
F140K-302	1	Pulley, Fan Drive (On Crankshaft)
C400K-218	1	Key, Fan Drive Pulley to Crankshaft
C400K-217	1	Plug, Keyway, Fan Drive Pulley
D600K-232	1	Seal, Fan Drive Pulley
S - 8075	1	Belt (Hand-Start)
S-8074	1	Belt (Battery-Start)
27A-e FAN	•	
M-7035	1	Fan Blade Assembly
5/16-18	4	Hex Head Cap Screw 3/4" long
E-106-A-3	4	Lockwasher
E-100-M-3	-	PAGE LANGE CO.

28A-CYLINDER WATER CONNECTIONS

Part Number	Quentity	Description
F600K-385	1	Elbow, Outlet, Cylinder Water
X-4106	2	Stud, Cylinder Water Outlet Elbow to Head
X-1801-E	2	Nut, Cylinder Water Outlet Elbow to Head Stud
X-202	2	Washer, Lock, Cylinder Water Outlet Elbow to Head Stud
C400K-215	1	Gasket, Cylinder Water Outlet Elbow to Head
-X-101	1	Plug, Pipe, Cylinder Water Outlet Elbow (1/4 Ext. Head)
X-1015	1	Cock, Drain, Cylinder Water
28A-b THERMOS	TAT	
F218K-304	1	Thermostat
F218K-202	1	Adapter, Thermostat
28A-c WATER	TUBES & CO	DNNECTIONS
F226K-2360	1	Tube Assembly, Water Pump to Cylinder Outlet Elbow Composed of: *Not Serviced Separately * 1 F226K-236 Tube * 2 X-5074 Nuts
X-5309	1	Fitting, Straight, Water Pump to Outlet Elbow Tube
X-5306	1	Elbow, Cylinder Water Outlet Elbow to Tube
X-12428	1	Bushing, Reducing, Cylinder Water Outlet Elbow
29A-a RADIAT	<u>OR</u>	
T-9185	1	Radiator
1/2-20	2	Hex Nuts
E-106-A-5	2	Lockwasher
1-3/8" O.D.	2	Washer
1/8" × 1"	1	Anti-Squeak Hood Ledge, 28" long
S-8351	1	Radiator Cap
29A-b HOSE &	CLAMPS	
M-6993	. 1	Top Hose
T-9003	1	Hose Bushing (Rad. End)
T-9168	1	Hose Bushing (Eng. End)
T-9138	1	Hose Clamp (Top)
T-9139	1	Hose Clamp (Top)
M-6591	1	Lower Hose
S-7464-2	1	Lower Hose Pipe
T-9184	1	Hose (Lower, 2" long)
T-8917	3	Lower Hose Clamp
T-10004	1	Lower Hose Clamp

30A-a MAGNETO & SWITCH

Part Number	Quantity	Description	
F600M-240	1	Magneto (Fairbanks FMH6B 25°)	
, , , , , , , , , , , , , , , , , , , ,		(For Parts See Instructions 2822C)	
X-3299	1	Screw, Magneto to Gear Cover (Lower)	
X-226	1	Washer, Lock, Magneto to Gear Cover Screw	
,,		(Lower)	
F400M-210	1	Washer, Plain, Magneto to Gear Cover Screw (Lower)	
F140M-232	1	Gasket, Magneto to Spacer	
F600M-225	1	Spacer, Magneto to Gear Cover	
F140M-232	1	Gasket, Magneto Spacer to Gear Cover	
S-8020	1	Ground Switch	
T-9061	1	Ground Switch Plate	
30A-d SPARK	PLUGS		
S-8159	6	Plug, Spark (Champion No. 8 Com H)	
32A-a IGNIT	ION WIRES	(SECONDARY CIRCUIT)	
S-7518-5	1	Wire, Ignition (Magneto to Cylinder No. 1)	
5-7518-12	1	Wire, Ignition (Magneto to Cylinder No. 2)	
S-7518-8	1	Wire, Ignition (Magneto to Cylinder No. 3)	
S-7518-8	1	Wire, Ignition (Magneto to Cylinder No. 4)	
HW300-38	1	Wire, Ignition (Magneto to Cylinder No. 5)	
HW300-45	1	Wire, Ignition (Magneto to Cylinder No. 6)	
21 RM - 216	2	Grommet, Ignition Cable	
Y91M-200	2	Bracket, Ignition Cable Grommet Support	
Y91M-246	6	Nipple, Rubber, Ignition Wires (at Magneto)	
F186M-4010	1	Tube Assembly, Ignition Cable	
		Composed of: *Not Serviced Separately	
		* 1 F186M-401 Tube	
		* 1 F186M-204 Bracket * 1 F186M-205 Bracket	
		* 1 F186M-205 Bracket	
33A-a ENGI	NE REGULA	TOR	
		Composed of: For Parts List See IM-117	
L-2299	1	Engine Regulator	
S-8205-1	1	Air Line	
T-9076	ì	Air Line Connector	
T-9116	i	Compression Elbow (at Manifold)	
T 0115	· 1	Tube Nut (at Manifold)	

Tube Nut (at Manifold)

34A-a BASE

T-9115

L-2679 1 Complete Base Assembly

34A-b ROOF & DOORS

Part Number	Quantity	Description		
M-6466	. 1	Rear Door Support Assembly		
M-6491	ì	Rear Door Assembly		
L-2505	1	Roof		
M-6527	4	Side Door Assembl		
S-4828-A	8	Hood Fastener With Drive Screws		
T-8818	2	Roof Hook, Short		
1 =0010	2	NOOT HOOK, SHOTT		
35B-b INSTRU	MENTS			
F162L-215	1	Gauge, Oil Pressure (60 lb. Rochester)		
S-7514	. 1	Ammeter (Battery Start Only)		
M-6955	1	Ammeter Panel (Battery Start Only)		
39A-a NAME	PLATES & DE	CALS		
M-5249-1	1	"Lincoln" Decal		
T-8293	1	Welder Name Plate (Specity Code & Serial Number)		
40A-a COUPL	ING & FAN			
M-6729	1	Welder Fan		
E-262-12	ì	Key		
SL-9627	1	Coupling Assembly (Includes)		
T-9049	4	Outer Locking Clips		
T-9048	4	Inner Locking Clips		
T-8833-2	8	Screw, Disc to Hub		
T-8833-1	8	Screw, Disc to Flywheel		
1 0000 1	•			
41A-a GENE	RATOR			
M-6528-2	. 1	Generator Frame and Connecting Ring Assembly		
T-5163	4	Maine Pole Pieces		
FKL-405-D	2	#Shunt Coils		
FKL-120-D	2	#Series Coils		
S-4584	4	#Interpole Coils and Pieces		
S-4584-1	4	Interpole Coil		
S-4573-B	4	Pole Piece		
41A-b ARMA	TURE			
L-2667-3	-1	Wound Armature Composed of:		
		1 FKL 37.4H #Set Armature Coils		
		1 M-6979-1 Commutator		
		1 M-7016 Shaft		
		1 S-6447-1 Lamination Assembly		
31 0	1	Bearing		

[#] Codes 1367 and 1368.

42A-a EXCITER

Part Number	— Quantity	. Description	:	
Turi (domber	Godininy	* <u>Description</u>		
FDW-24.26A	1	#Exciter Armature Complete		
T-5345	1	Sleeve Collar		
T-6625-1	1	Exciter Jam Nut		
FDW-5E	1 pr.	#Field Coils		
T-3980-1	2 , ,	Pole Pieces		
5/16"-18	4	Hex Head Cap	Screws, 1" 1ong	
42A-b BRACKE	T & DOCKED			
42A-D BRACKE	I & ROCKEN	-		
M-5585	1	Bracket, Exciter		
1/2"-13	4	Screw, 1-3/4"	long	
S-5960	1.	Rocker	Ou 1	
5/16"-18	!	Round Head Sci	rew, 2" long	
E-106-A-2	1	Lockwasher		
L-2594	1	End Shell	Through Coation No. 1	
1/4"-20	2	Screws, 1/2" 10	ong, Thread Cutting No. 1	
43A-a BRUSHI	HOLDERS			
S-6531-A	2	Exciter Brushholder		
T-6887	2	Spring		
M-6964-10A	4	Generator Brushholder		
		Composed of:	(Each)	
		1 M-6963-6	Stud	
,		1 S-6916 - 2	Retainer	
		1 M-6303-4	Plate	
		2 π-8495	Spring & Clip Assiy.	
	,	1 T-1450	Insulating Tube	
		2 T-4479	Insulating Washer	
		1 T-2414	Washer, Plain (Small hole)	
		1 T-9020	Washer, Plain (Large hole)	
		1 5/16-18	Rd.Hd.Machine Screw 1/2" long	
		2 T-10107-1	1/4-20x3/8" Sems Rd.Hd.Machine	
			Screw	
		1 T-10106-1	3/8-16x3/4" Sems Hex Hd. Cap Screw	
		1 E-106-A4	Lockwasher	
43A-b BRUSH	ES	1 M-6304-2B	Retainer Assiy.	
	. 	1 5/16-18"	Hex Hd.Cap Screw 1/2" long	
T-344	8	Generator Brush		
T-6968	2	Exciter Brush		
44A-a OUTPL	UT STUDS			
\ T (001 0	2	Stude		
T-6931-2	2 6	Studs Hex Jam Nut		
1/2"-13	0	FIEX JOIN 1901		
# Codes 1367	and 1368.			
•		•		

44A-a OUTPUT STUDS - Continued

Part Number	Quantity	Description
T-2719	4	Incideting Washing
1-1/8" O.D.	4	Insulating Washer
T-4122	2	Insulating Bushing
E-106-A-5	2	Lockwasher
T-3960	2	Wing Nuts
T-3962	ī	"To Work" Marker
T-3961	1	"Electrode" Marker
T-8973	4	Rivet
45A-a DUST C	APS	
S -7 800	1	Inner Dust Cap
S -77 99	i	Outer Dust Cap
5/16"-18	4	Hex Head Cap Screw, 3-1/2" long
T-3633-11	2	Gasket
T-7599-1	1	Grease Pipe
1/8" St'd.	1	Pipe Cap
50A-a CONTR	OL BOX & N	MAIN PARTS
G-604-P	1	Control Box Complete with Controls (includes entire Section 50)
L-2375-A	1	Case
L-2294	1	Case Sub Panel
S-7588-1	1	Receptacle
S-7587-1	1	Plug
L-2036-A	1	Reactor
M-5090-C	1	Rheostat
M-6252	1	Reversing Switch
S-6828	1	Reversing Switch Bracket
T-8280	1	Resistance Tube and Mt'g. Washer
10-24	Ĭ	Stove Bolt, 4-1/2" long
E-106-A-1	1	Lockwastner
50A-b HANDI	ES & DIAL P	LATES
S-8158	1	Rheostat Handle
T-5418	1	Reversing Switch Handle
S-7995-3	1	Reactor Handle Assembly*
1/4"-20	1	Set Screw, Dog-Point, 1/4" long
M-5735	1	Rheostat Dial Plate
S-6824	1	Reversing Switch Plate
M-6484	1	Reactor Dial Plate
T-8973	4	Hollow Rivet

^{*}Also order Instructions S-6328

50A-c REACTOR BRUSHHOLDER

Part Number	Quantity	Description	
S-7297 T-6367 T-8236	1 1 1	Brushholder Assembly Composed of: 1 M-6264 2 5/16"-18 4 T-7494 4 10-24 4 E-106-A-1 4 T-6985 1 T-8219 1 T-8218 Reactor Spring Clip Washer Spring	Brushholder Screw (Clamp to Shaft) Contacts Screw, 3/8" long Lockwasher Coil Spring Insulating Tube Shaft
50A-d REACTO	OK BRUSHIOL	JER STOD	
Т-7852		Stud Assembly Composed of: 1 T-9107 1 T-7850 1 T-7849 1 T-5411 2 T-2719 1 1-1/16" O.1 1 E-106-A-5 1 1/2"-13 1 T-8485	
51A-a BATTER	Y START*		
M-7039	1		Push Button Fan Belt Battery Clamp Battery Hanger Battery Export Domestic Ammeter Ammeter Panel Starter Generator Generator Adj. Strap Generator Mt'g. Bracket

51A-a BATTERY START* - Continued

Part Number	Quantity	Description	
M-7039	1	Complete Kit with Instructions to Convert from "Crank-Start" to "Battery Start" Composed of:	
		1 M-7041-3 1 S-8002 1 S-5938-P 1 S-7916-19 Plus All Neces	Wiring Harness Ground Strap Lead (Negative to Start) Lead (Generator to Ammeter) sary Screws, Nuts and Washers
52A-a ANTI-	FROST KIT		
T-9047	1	"Anti-Frost" Kit with	instructions.

SERVICE

The Lincoln Electric Company has Authorized Field Service Shops in all industrial centers in the United States, Canada, Cuba, and Hawaii. These shops stock GENUINE Lincoln Replacement Parts and have Factory Trained Men to service your welder. They also offer Preventive Service and Welder Rental to "Keep Them Welding". The Lincoln FSS Exchange Plans, extended only through the FSS, give you factory built and guaranteed STATORS, ARMATURES and other parts at material savings over rewinding.

HOW TO ORDER REPLACEMENT PARTS

In ordering replacement parts, refer to the parts list on the preceeding pages to get correct part name and number. From the name plate of the welder, get the serial number, code number, and name or model. Order parts directly from our nearest Authorized Field Service Shop, Lincoln Representative, or critical department located at the factory in Cleveland. All Authorized Field Service Shops and branch offices can appear a service for the service of the service shops and branch offices can appear to the service of the service shops and branch offices can appear to the service of the service shops and branch offices can appear to the service of the servi quote current prices for these replacement variation (The "Lincoln Service Directory" listing these shops geographically is available request.)

- BUY ONLY GENUIDE LINCOLN REPLACEMENT PARTS -

The Lincoln Electric Corpora, the Seler, warrants all new equipment except engines and accessories there counts deres is workmanship and material for a period of one year from date of ripment, provided he equipment has been properly cared for, and operated under for a conditions. Engines and engine accessories are warranted free from defects or a riod of nine y days from the date of shipment.

If the Buyer ives the Seller written notice of any defects in equipment or electrode within any period of war anty and the Seller's inspection confirms the existence of such defects, then the all shall correct the defect or defects at its option, either by repair or replacement F.O.B. its own factory or other place as designated by the Seller.

No expense, liability or responsibility will be assumed by the Seller for repairs made outside of the Seller's factory without written authority from the Seller.

The Seller shall not be liable for any consequential damages in case of any failure to meet the conditions of any warranty. The liability of the Seller arising out of the supplying of said equipment or electrode or its use by the Buyer, whether on warranties or otherwise, shall not in any case exceed the cost of correcting defects in the equipment or replacing defective electrode in accordance with the above guarantee. Upon the expiration of any period of warranty, all such liability shall terminate.

The foregoing guarantees and remedies are exclusive and there are no other guarantees or warranties either expressed or implied.