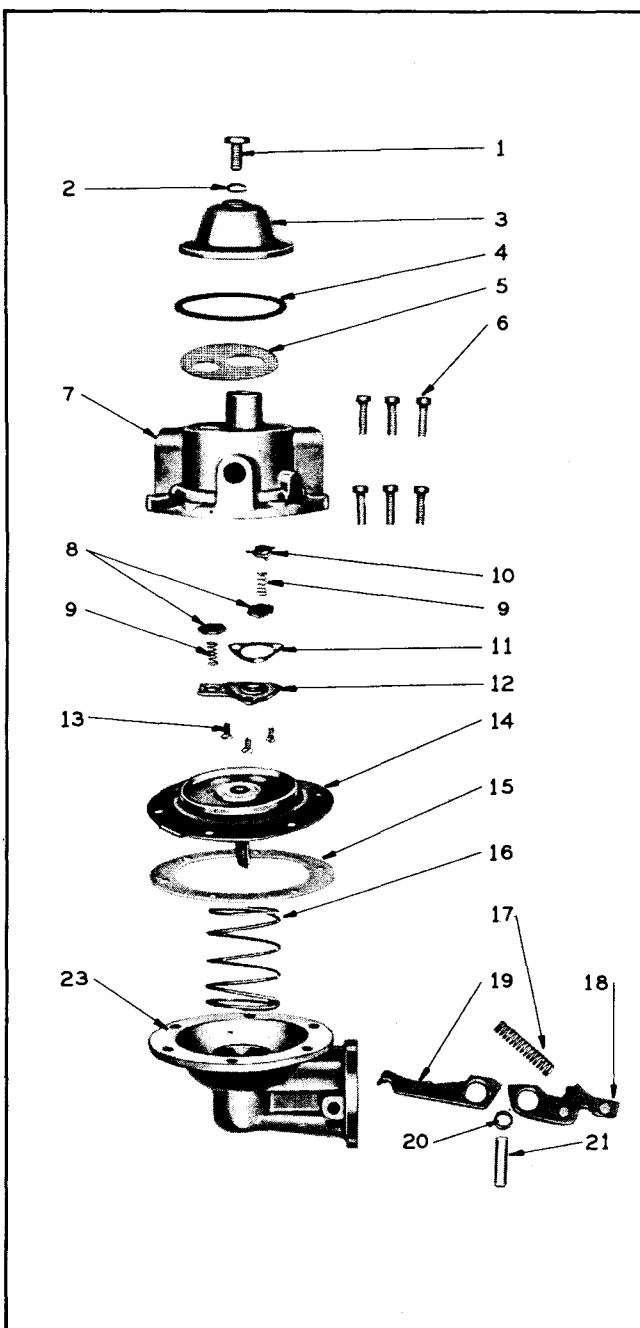


FUEL PUMP MAINTENANCE AND REPAIR INSTRUCTIONS

WISCONSIN MOTOR PART No. LP-38 (Standard), LP-38-C (Cold Weather: -65°F)
USED ON 4 CYLINDER AIR COOLED ENGINES

The fuel pump, like all other parts of the engine, is subject to wear and you will find that any time after 500 hours of use, its efficiency will gradually decrease. This is indicated by the engines faltering at high speeds or when heavy loads are suddenly applied. The pump can easily be restored to its normal efficiency by the installation of a Wisconsin Motor No. LQ-30 or LQ-30-A repair kit.

1. Remove the fuel lines and the two mounting bolts which hold the pump to the engine. Take the pump to a work bench or suitable place.
2. With file make an indicating mark across a point at the union of castings (7 and 23). This is a positive location of the fuel line positions when reassembling. Remove six assembly screws (6) and remove fuel head. Dome bolt (1) is taken out, and the dome, (3) dome gasket (4) and filter screen (5) disassembled.
3. Turn head (7) over and remove three screws (13). Remove (8, 9, 10, 11 and 12) valve assemblies noting their positions. Discard Details 8, 9 and 11.
4. Clean head thoroughly with gasoline and a fine brush.
5. Holding fuel head (7) with diaphragm surface (containing 6 clearance holes) up, reassemble the valve spring retainer (10) into position deepest hole. Place new valve plate gasket (11) in position around this hole. Stand on end one of the new valve springs (9) in the retainer. Place a new valve (8) on top of this spring.
6. Place the other new valve (8) on top of brass valve seat next to the previously assembled parts, stand the other new valve spring (9) on top of this valve.
7. Carefully place valve plate (12) over these assemblies so the large raised ring is nearest the valve gasket (11). Insert and carefully tighten the three assembly screws (13).
8. Carefully clean and replace the filter screen (5).
9. Place new dome gasket (4) into the dome (3) and put this unit into position on the fuel head (7).
10. Put new dome bolt gasket (2) on the dome bolt (1), insert in the hole in the dome (3) and tighten properly.
11. Place this fuel head assembly in a clean place and we are ready to rebuild the lower diaphragm section.
12. Using a screw driver inserted into the coils of rocker arm spring (17) remove this spring and save.
13. Hold the mounting bracket (23) in the left hand with the rocker arm toward your body and the thumb nail on the end of the link (19) with the heel of right hand on the diaphragm (14) compress the diaphragm spring (16) at the same time pulling toward your body, this will unhook the diaphragm from the link (19) so it can be removed.
14. Clean the mounting bracket (23) with gasoline.
15. Place the remaining new cork gasket (15) on the corresponding surface of the mounting bracket (23). Replace the diaphragm operating spring (16) standing it into (23). Now repeat in reverse Step 13 using the new diaphragm. Replace rocker arm spring removed in Step 12.
16. Mount this assembly back on the engine in the position from which it was removed, using the new mounting gasket which is the last piece of the repair kit.
17. Crank the engine over to a position where the diaphragm (14) is laying flat on the mounting bracket (23). Place the fuel head (7) back in position so the indicating marks of Step 1 are in line, and start the six assembly screws approximately three turns. Again crank the engine over to a position where the diaphragm (14) is pulled down into (23) mounting bracket and tighten the six assembly screws (6) tightly.
18. Connect the fuel lines and you have a completely rebuilt fuel pump.



76520C

INSTRUCTIONS FOR FUEL PUMP MAINTENANCE AND REPAIR

The gaskets (2 and 4) used in the fuel head (7) of the fuel pump have a natural tendency to shrink when left standing in a dry condition. This shrinking can create vacuum leaks which result in the hard starting of the engine. It is necessary after an engine has stood on the stockroom or show room floor any length of time that the dome bolt No. 1, the assembly screws (6) of which there are six and the fuel line connections be tightened carefully to assure quick starting and satisfactory operation thereafter.

CLEANING OF FUEL PUMP

The industrial engine is used under so many adverse conditions that many times a pump will fail because of the dirt in the fuel head. This can be cleaned by this procedure.

1. With file make an indicating mark across a point of the union of castings (7 and 23). This is a positive location of the fuel line positions when reassembling.
2. Remove the two fuel lines.
3. Remove six assembly screws (6) and remove fuel head.
4. Bolt (1) is taken out, and the dome (3), dome gasket (4) and filter screen (5) disassembled.
5. The preceding steps reveal the sediment cavities of the head which are filled with dirt. Wash this out with gasoline and a fine brush, being careful not to damage the valve assemblies, in the lower cavity of the fuel head (7).
6. The pump is now ready to reassemble. Crank the engine over to a position where the diaphragm (14) is laying flat across the casting face (23). Place the fuel head (7) back in position so the indicating marks of Step No. 1 are in line and start the six assembly screws approximately three turns. Again crank the engine over to a position where the diaphragm (14) is pulled down into (23) the mounting bracket. Now tighten the six screws (6) securely.
7. Carefully clean and replace the filter screen (5).
8. Replace the dome gasket (4) into the dome (3) and put this unit into position on the fuel head (7).
9. Replace the gasket (2) on the dome bolt (1) and insert in the hole in the dome (3) then tighten securely.
10. Replace fuel lines and tighten securely. Your pump is now in condition to give many long hours of additional service.

NOTE: The LQ-30 or LQ-30-A Repair Kit and the parts included there-in, which are identified by an asterisk (*), are the only parts of the fuel pump available for service.

Ref. No.	Description	No. Req.
1	PULSATOR DOME BOLT	1
* 2	DOME BOLT GASKET	1
3	PULSATOR DOME	1
* 4	DOME GASKET	1
5	FILTER SCREEN	1
6	SCREWS for mounting fuel head	6
7	FUEL HEAD.....	1
* 8	VALVE	2
* 9	VALVE SPRING (7 coils)	2
10	VALVE SPRING RETAINER	1
*11	VALVE PLATE GASKET	1
12	VALVE PLATE	1
13	SCREWS for valve plate	3
*14	DIAPHRAGM— for Standard LP-38 Fuel Pump (LQ-30 Repair Kit)	1
	OR	
	DIAPHRAGM— for Cold Weather, LP-38-C Fuel Pump (LQ-30-A Repair Kit)	1
*15	DIAPHRAGM GASKET	1
*16	DIAPHRAGM SPRING.....	1
*17	ROCKER ARM SPRING	1
18	ROCKER ARM	1
*19	LINKAGE	1
*20	ROCKER ARM BUSHING.....	1
*21	ROCKER ARM PIN.....	1
*22	MOUNTING GASKET (not illustrated)	1
23	MOUNTING BRACKET.....	1

Order parts from nearest **SERVICE STATION** shown in directory following parts list.
IMPORTANT: Always give Model, Specification and Serial Numbers as shown on name plate.

WISCONSIN MOTOR CORPORATION

APPROVED SERVICE STATIONS

The following concerns have service part stocks, facilities and trained personnel to render complete service on Wisconsin Air-Cooled Engines. We recommend you work through these service stations on your Wisconsin engine service requirements.

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 BESSEMER Warlick & Miller Battery Co., 218 - 18th Street
 BIRMINGHAM Alabama Air-Cooled Motors, 725 Graymont Avenue
 Tractor & Equipment Co., 4401 First Ave. N.
 Skyline Service & Supply Co.
 BOAZ Tractor & Equipment Company
 DECATOR Auto Electric Company
 DOTHAN Elba Tractor Co.
 ELBA Boyd & Company
 ENTERPRISE Moore Brothers Garage
 EUFAULA The Griffin Company
 FLORENCE Clayton Lawn Mower Shop, 138 E. Broad St.
 GADSDEN Headland Auto Parts
 HEADLAND Auto Electric Service Co., 110 Meridian St.
 HUNTSVILLE Gaines Parts Company
 JASPER Gravelly of Mobile, Inc., 2014 Halls Mill Rd.
 MOBILE Turner Supply Company, Box 1429
 Speed Auto Supplies, P. O. Box 227
 MONROEVILLE Sim's Service Center
 MONTEVALLO
 MONTGOMERY 36104 * PARTS SERVICE CO., INC., 412 Bibb Street
 OPELIKA East Alabama Auto Parts
 OPP Adams Farm Supply
 SCOTTSBORO J. D. Chandler Cycle Co.
 SELMA Auto Parts Company
 TROY Thompson Auto Parts
 TUSCALOOSA Snyder's Lawnmower Shop, 401 - 34th Ave.

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ANCHORAGE B & C Auto Electric, 2801 Spenard Rd.
 FAIRBANKS B & C Auto Electric
 Northern Commercial Company
 KETCHIKAN Brougner Outboard Shop, P.O. Box 321, 1212 Tongass Ave.

* STAR MACHINERY COMPANY
 241 Lander Street
 Seattle, Washington 98134

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 CHANDLER Sweet's Equipment Sales, 298 E. Galveston
 CHINO VALLEY Chino Pump & Supply Company
 DOUGLAS Al & Jack's Auto Elec., 247 "G" Avenue
 KINGMAN Arthur's Sales & Service
 NOGALES Commercial Distributors
 PHOENIX 85002 * PRATT-GILBERT, P.O. Box 2230, 701 So. 7th St.
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 Morrison & Ledford, Inc. 733 No. 19th Avenue
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 YUMA Yuma Automotive Elec., 229 - 8th St.

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 NEWPORT Farmers Equipment Co., 101 Beech
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 PARAGOULD Hogland Repair Shop
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 SEARCY Barker Motor Company
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 TEXARKANA Woodard Implement & Gas Engine Company, Inc.
 1221 Magnolia at State Line
 WYNNE Frazier Repair Shop, 115 Levesque

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 CONCORD Garden Equipment Company, #10 Meadow Lane
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 The Rix Company, 1719 64th Street

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 Front and Sacramento Streets
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 San Carlos Wrigley Pump Co., 750 Industrial Rd.
 San Diego Webb Farm Equipment Co., 940 'K' Street
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 The Rix Company, 625 Bayshore
 San Francisco Engine Re-Manufacturing
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Hutton's Parts Service, 14 No. 7th Street
United Auto Supply, Inc., 101 Ea. Springfield
* INDUSTRIAL ENGINE & PARTS COMPANY
2345 S. Pulaski Rd.
Air Cooled Engine Parts & Supply
10504 South Halsted Street
Engines, Inc., 2847 N. Pulaski
Midwest Handling Inc., 6900 W. 63rd Street
Single Source Small Engine Co., 3945 Archer Avenue
Bill's Mower & Eng. Repair, 128 Madison St.
Lewis Johnson Garage, 310 No. Elizabeth St.

COLLINSVILLE
DANVILLE
DECATUR

EAST ST. LOUIS

EFFINGHAM
ELGIN
FAIRFIELD
GARRETT
GRAYVILLE
HAMEL

HARDIN
HARRISBURG
JACKSONVILLE
JERSEYVILLE
JOLIET
KANKAKEE
KIRKWOOD
LINCOLN
LYONS
MARION
MATTOON

MELROSE PARK
MENDOTA

MODESTO
MONTICELLO

MOUNT CARMEL
MOUNT PROSPECT

MOUNT VERNON
OLNEY

PALOS HILLS
PARIS

PEORIA
PONTIAC

PRINCETON
QUINCY

ROCKFORD
ROCK ISLAND

SANDWICH
SPRINGFIELD

SPRING VALLEY
STERLING

TAYLORVILLE
URBANA

Ruder Mower Service Sales & Rental, 1200 Belt Line
Danville Auto Parts Company, 116 West Main Street
Bruce Implement Company, 1845 North 22nd Street
Combs Service, 339 West Green Street

Matt's Mower Mart & Tool Rental, 6127 State Street
National Auto Supply, 1100 Illinois Avenue
H & D Motor Service, 111 E. Fayette Ave.

Phillips Auto Parts, 370 Brook Street
Stephens Oil Field Motor Repair, East Hwy. 15

Horton Bros. & Harder
Oil Field Motor Service, Inc., Box 98

Madison County Tractor & Equipment Company
P.O. Box 277

Smith's Garage, West Main Street
Baker Machine & Supply Co., 626 North Main Street

Cully Implement Company, 222 W. Court St.
C. & W. Equipment Company

Zinser-Backstrom Co., 4 North Michigan St.
Electrical Equipment Co., 231 Dearborn St.

Smith Implement Service, 423 Cherry St.
Auto Electric Service, 110 No. McLean St.

Keen Edge Company, 8615 Ogden Avenue
Patterson Auto Electric, 210 So. Court Street

Mattoon Motor Shop, 513 No. 14th Street
Hillsman Equipment Co., 2000 North Hawthorne

Kaiser Implement Company
Fletcher's Garage

J. R. Heath & Son
Deck Hill Battery Co., Third & Market Sts.

Charles B. Gray Sales
Ford National Auto Supply Co. Inc., 801 Casey St.

Farmers Equipment & Supply Co., 116-120 W. Camp Ave.
Portable Equipment Co., 11234 Southwest Highway

M. Farnham Implement Company, 133 E. Wood St.
Power Equipment Co., 3610 Harmon Highway

Wolf's Battery & Electric, 309 No. Oak St.
P & R Sales and Service, Inc., 12 East La Salle Street

E. M. Chatten Implement Co., 2701 No. 24th Street
Lawn & Garden Supply, 2525 South Alpine

Lohse Lawn & Garden Center, 500 16th St.
M. Werner & Sons, Inc., 523 E. Church Street

James Machinery Co., Inc., 130 W. Jefferson
Burl F. George Company, 118 Dakota St.

Mylin's Agricultural Store, 221 E. 3rd St.
Ken's Engine & Mower, 216 W. Main

Power Equipment Company, 1810 East University

* ALLIED CONSTRUCTION EQUIPMENT COMPANY
4015 Forest Park Avenue
St. Louis, Missouri 63108

* ENGINE POWER, INC.
11811 W. Silver Spring Rd.
Milwaukee, Wisconsin 53218

INDIANA

AUBURN
BLOOMINGTON
COLUMBUS
CONNERSVILLE
CORDON
EVANSVILLE
FORT WAYNE
FRANKFORT
GARY
GOSHEN
GREENFIELD
HAMMOND
INDIANAPOLIS 46207
KOKOMO
LAFAYETTE
LA PORTE

Shorty's Motor Service
Full-O-Pep Company, 424 S. College
Columbus Auto Supply, 2205 - 25th Street
Winship Tractor & Implement Co.
Kenneth H. Brown & Son
P. E. Phillips & Son
Auto Electric Service, Inc., Harrison & Baker Streets
Farmers Implement Co.
Lud's Motor Sales, 700 South Clark Road
Elkhart Co. Farm Bureau Co-op. Ass'n
Geo. P. Hinds Garage
Carstensen's Service Company, 6950 Indianapolis Blvd.
* EAGLE MACHINE CO., INC., 635 E. Market Street
Murray & Davis, 928 So. Union Street
Lafayette Auto Parts, 118 S. 4th Street
Borst Auto & Engine Service, 610 Indiana Ave.

MADISON Irwin Farmers' Store
MARION The Challenge Distributors
MICHIGAN CITY Michigan City Auto Parts, 1007 East Michigan Blvd.
MOUNT VERNON Stephan Implement Company
MUNCIE B & K Machine Co., 1215 S. Franklin St.
NEW CASTLE Stohler Implement Co.
PENDLETON Wm. Ring & Sons
PORTLAND Justin Schafer Company
PRINCETON Adams & Morrow, Inc.
RICHMOND Remsco, Inc., 1541 South 9th St.
ROCKVILLE Cummins-Flock Implement Co. Inc.
SCOTTSBURG Keenan's Radiator Service
SELLERSBURG A. Diefenbach & Sons
SHELBYVILLE D & S Sales & Service
SOUTH BEND American Distributing Co.
SULLIVAN Jared Implement Sales
TELL CITY Dauby Motor Company
TERRE HAUTE Smith & Decker, Inc., 1026 Wabash Ave.
TIPTON F. Ray Hull & Son
VALPARAISO Ketterman's Sales & Ser.
VINCENNES Wabash Parts Corp.
WINCHESTER Carpenter's Auto Supply

* ATLAS MACHINE AND SUPPLY, INC.
1326-30 W. Jefferson
Louisville, Kentucky 40203

* INDUSTRIAL ENGINE & PARTS COMPANY
2345 S. Pulaski Rd.
Chicago, Illinois 60623

* CINCINNATI ENGINE & PARTS COMPANY, INC.,
2863 Stanton Ave.
Cincinnati, Ohio 45206

IOWA

AMES Hap's Auto Supply, 122 Des Moines Avenue
ATLANTIC George's Auto Electric, 207-209 Walnut
BOONE Erickson Auto Electric
BURLINGTON Frick Motor Company, 801 S. Main St.
CEDAR RAPIDS Happel & Sons, Inc.
CLINTON Nelson Auto Electric
COUNCIL BLUFFS Ballinger Automotive Service Company,
113-17 East Broadway Street
CRESTON Dieleman Auto Parts
DAVENPORT Emeis Electrical Service
DECORAH Decorah Implement Company
DES MOINES 50308 * PORT HURON MACHINERY CO., 301 E. Court Avenue
David Mattson Company
DUBUQUE Farm & City Distributing Company
ELDORA Bolar Repair Company
ESTHERVILLE Electric Motor Service Company
FORT DODGE Fort Dodge Machinery & Supply Co.
HARLAN Peterson Battery & Electric Co.
IOWA CITY Pyramid Services
JEFFERSON Harvey's Repair, 504 E. Lincoln Way
KEOKUK Leon Short & Son
MARSHALLTOWN B & K Company, 112 East Church Street
MASON CITY Floyd & Leonard Auto Electric Co.
MOUNT PLEASANT Peterson Implement, Inc.
MUSCATINE Lamp-Rehwaldt Company
OSKALOOSA Everett's Magneto & Carb. Service
OTTUMWA Hurley's Parts & Service
PELLA Pella Irrigation & Equipment Co., Box 158
SIOUX CITY Carlson Machine Works, 417-19 Wall Street
STORM LAKE Clough Motor Service
WATERLOO Central Battery & Electric, 217-219 W. 5th
WAUKON Valiere Dundee Implement Company

KANSAS

ARKANSAS CITY McCoy Engine Service
BELOIT Boettcher Supply Company, 120 West Court
CHANUTE Martin Tractor Company, Box 591
COFFEYVILLE Acme Foundry & Machine Company, 1502 Spruce St.
COLBY Dechert Implement Company, 135 North Franklin
DODGE CITY Scheufler Supply Co. Inc., 319 West Trail
EMPORIA Sperman Du-All Fixit, 331 Commercial
GARDEN CITY Kemper Auto Electric, Stevens Avenue
GREAT BEND Scheufler Supply Co. Inc., 1515 Kansas Avenue
HAYS Scheufler Supply Co. Inc., 507 Main St.
HILL CITY S & W Supply Company, Inc., West Highway 24
HOXIE Patman Salvage Yard
HUTCHINSON Reno's Ace Hardware, Inc., 215 So. Main St.
KANSAS CITY AAA Engine & Electric, Inc., 700 Southwest Boulevard
LARNED Roth Equipment Co., Inc., 504 North Topeka, Box 310
LIBERAL Magneto & Electric Co., 522 North Kansas St.
MARYSVILLE Brauchi Bros., 704 Center St.
NORTON Norton Implement Company, 218 North First
PITTSBURG W. A. Thomas Supply, 112 West 3rd. St.
PLAINVILLE Farm Implement & Supply Co.
RUSSELL Scheufler Supply Co. Inc., 114 West Wisconsin
SALINA Vahsholtz Implement Company, 145 South Fifth
SCOTT CITY Withrow Repair, 402½ North College
TOPEKA Martin Tractor Co. Inc., 3320 Topeka Blvd., Box 1698
WAKEENEY Midwest Marketing Company
WICHITA 67202 * HARLEY SALES COMPANY, 505 South Main Street
WINFIELD Brad's Magneto Electric, 801-807 Manning

KENTUCKY

ALBANY Ferguson Brothers
ASHLAND Barney Williams Company
BARDSTOWN Bardstown Auto Parts Company
BOWLING GREEN Motor Parts Depot
CAMPBELLSVILLE Kessler Implement Company
CORBIN Central Automotive Supply, 600 Main St.
CRESTWOOD Powell's Engine Sales & Service
ELIZABETHTOWN Hardin County Implement Company
EMINENCE Foree Implement Company
FRANKLIN Harris Feed Company
GLASGOW G. H. Bowles & Son
GREENVILLE Wein Auto & Equipment Parts Co.
HENDERSON Henderson Farmers Supply Company
HODGENVILLE A. L. Hazle
HOPKINSVILLE Cayce Mill Supply Company, 505 First St.
LEBANON Farmers Feed & Implement Co.
LEXINGTON 40501 * WOMWELL AUTOMOTIVE PARTS CO., INC.,
240 Clark Street
LOUISVILLE 40203 * ATLAS MACHINE & SUPPLY, INC.,
1326-30 W. Jefferson Street
Ky. Lawn Service
MADISONVILLE Baker Auto Electric Co.
MAYFIELD Eaton Dairies Farm Supply Co.
MIDDLESBORO Reliable Supply Company
MORGANFIELD S & K Auto Supply Co.
MURRAY McKeel Equipment Company
OWENSBORO E. A. Carter Supply Company, Inc., 511 Frederica St.
PADUCAH Rasche Cycle Company, 713 Kentucky Street
PIKEVILLE Campbell Oil Tool Company, Inc.
RUSSELLVILLE Russellville Tractor Co.
SCOTTSVILLE York & Massey
STURGIS S & K Auto Supply Co.

* CINCINNATI ENGINE & PARTS COMPANY
2863 Stanton Ave.
Cincinnati, Ohio 45206

LOUISIANA

ABBEVILLE Mayers Hardware Store, 232 S. Main Street
 ALEXANDRIA United Electric and Magneto Service, 825 Tenth Street
 BATON ROUGE Fletcher Equipment & Supplies, 1605 Choctaw Road
 Kerr Lawnmower Center, 2615 Airline Highway
 Wm. F. Surgi Equipment Corp., Seigen Lane at
 Airline Highway
 BASTROP Kinnaird's Small Eng., 411 S. Pine
 COUSHATTA Caushatta Farm Implement Co.
 EUNICE Dovic Fruge Repair Shop
 HAMMOND Wendelken Machine Shop
 HARVEY Diesel Industrial Service, 427 Brown Street
 Westside Specialty Co., 3028 Fourth St.
 KAPLAN Vermillion Motor Service, 106 W. Fifth Street
 LAFAYETTE Southland Engine Co., 103 Arnold
 LAKE CHARLES Eagleson Lawnmower Shop, 903 Third Ave.
 LAROSE Welch Sales & Service, P. O. Box 218
 LOCKPORT Lockport Hardware Company
 MINDEN Martin's Cycle & Lawnmower Center
 MONROE Howard Griffin, 712 S. Grand Street
 MORGAN CITY Mike's Fix-It Shop
 NEW IBERIA Voorhies Machine Supply Company
 NEW ORLEANS 70150 * WM. F. SURGI EQUIPMENT CORP.,
 1149 Tchoupitoulas Street
 OPELOUSAS J. L. Hebert Engine Sales & Service, 111 South Liberty St.
 RAYNE Haure Machine Shop
 RUSTON Montgomery Feed & Seed
 SHREVEPORT Construction Machinery Corp.
 Continental Engine Sales & Service, 2136 E. Texas St.
 United Power Co., P. O. Box 1383
 VENICE Ellzey Marine Supply
 WINNSBORO McLemore Wholesale Grocery

MAINE

AUGUSTA Parker Danner Company, Riverside Drive
 BANGOR H. E. Peabody Co., 100 Thatcher St.
 HOULTON James S. Peabody Company, Bangor Street
 PORTLAND Chadwick-BaRoss, Incorporated, 803 Forest Avenue

* DIESEL ENGINE SALES & ENGINEERING CORP.
 Fish Pier Road
 Boston, Massachusetts 02210

MARYLAND

ANNAPOLIS Baldwin Service Center, Inc., Rt. 450 at Rt. 178
 BALTIMORE (18) Curtis Engine & Equipment
 General Supply & Equipment Co. Inc., 530 E. 25th Street
 Hart Equipment Company, 8110 Pulaski Highway
 John C. Lou's Co. Inc., 1805 Cherry Hill Road
 BELTSVILLE John S. MacBryde Co., 10511 Tucker St.
 CHASE Chase Lawn Mower Service
 CHESTERTOWN Silver Hill Shop
 CHURCHVILLE Walter G. Coale, Inc.
 ELKBRIDGE Henry H. Meyer Co., Inc., 5325-27 Main St.
 FREDERICK Baker's
 FUNKSTOWN (Hagerstown) Lutherville Supply & Equipment Co. Inc.
 108 East Baltimore Avenue
 GAITHERSBURG Norman & Staiger, Inc., P.O. Box 66
 HAGERSTOWN Henry H. Meyer Co., Inc., 1502 Salem Avenue
 HUGHESVILLE South End Garage
 HYATTSVILLE Irons Bros., Inc., 4800 Baltimore Ave.
 MILLINGTON Julian E. Leager, Main Street
 PASADENA Jack's Repair Service, 2460 Mountain Road
 POCOMOKE CITY Pocomoke Foundry & Machine Works

SALISBURY
 WALDORF

MacMillan Bros.
 Maryland Tobacco Growers

* POTTER EQUIPMENT COMPANY
 6200 N. Capitol Street, N.W.
 Washington, D. C. 20011

MASSACHUSETTS

BOSTON 02210 * DIESEL ENGINE SALES & ENGINEERING CORP.
 Fish Pier Road
 BROCKTON Sargent Supply Corporation, Meadowbrook Road
 DANVERS Clifford T. Whittaker Company, 3 Hobart Street
 HYDE PARK Parker-Danner Company, Factory Street
 PITTSFIELD Smith Auto Electric Service, Inc., 1328 East Street
 SPRINGFIELD Springfield Auto Electric Service, Inc., 50 Carew St
 WORCESTER Worcester General Repair Shop, 43 Chandler Street

MICHIGAN

ANN ARBOR Auto Parts Company
 BATTLE CREEK Haddock Brothers, 19 Green Street
 BAY CITY O. J. Herman
 CHARLOTTE Fowler Sales Company
 COLDWATER Treat Auto Parts
 CRYSTAL FALLS H. Malkin & Sons, Inc., 11 Superior Ave.
 DETROIT 48227 * R. G. MOELLER CO., 14415 Meyers Road
 Arthurs Auto Parts, 837 South Dix
 ESCANABA Escanaba Machine Co., 1704 Ludington Street
 FARMINGTON Mays Nursery, 29900 Ten Mile Rd.
 FLINT Matthews Sales & Service
 GRAND RAPIDS 49509 * R. G. MOELLER CO., 2564 Chicago Dr., S.W.
 HARTFORD Walkers Service
 HOUGHTON Vivian Paynter Equip. Corp., U. S. Hwy. 41
 JACKSON Superior Sales & Service, 114 North State
 KALAMAZOO Kalamazoo Impl. Co., 3617 W. U.S. 12
 LANSING Bert Howard Company, 1419 Turner Avenue
 MARQUETTE Carroll Motor Supply, 321 So. Front Street
 MENOMINEE Automotive Products Co., 520 So., 1st Street
 MILBURG L. Gelder & Sons
 MT. CLEMENS Power Equipment Distributors on Gratiot Avenue
 MT. PLEASANT Ben Traines & Sons, Inc.
 MUSKEGON H. G. Davis & Son
 Great Lakes Equipment Co., 1461 Evanston Avenue
 NILES Klute Electric
 PONTIAC King Brothers, 2391 Pontiac Road
 PORT HURON Belt Line Auto Electric, 3203 Lapeer Road
 SAGINAW Superior Motor Supply, 721 S. Franklin
 SCOTTVILLE Howard Thiel
 ST. CLAIR SHORES D'Haem's Tool Rental
 SAULT STE. MARIE Electric Equipment Company
 TRAVERSE CITY Map-Pul, 324 W. 13th Street
 TRENTON Dix Equipment Co., Dix Toledo Highway

(Northern)

* ENGINE POWER, INC.
 11811 W. Silver Spring Rd.
 Milwaukee, Wisconsin 53218

MINNESOTA

ADA Munter Motor Service, 403 We. Thorpe Avenue
 AUSTIN Phils Repair Service, Route #1
 BENSON Lorenz Machine and Supply, 205 - 14th St. North
 CHASKA Molnau Implement Company
 CROOKSTON Hegland Motors, 811 South Main Street
 DULUTH Northern Engine & Supply Co., 2931 W. Superior Street
 Ray's Auto Shop & Supply, 339 So. 1st Avenue East
 EAST GRAND FORKS Johnson Iron & Machine Co., 1201 DeMers Ave.

FERGUS FALLS Lykken, Inc., P.O. Box 442
HIBBING Horn Electric Service, 1923 - 2nd Avenue, East
HUTCHINSON C. H. Stocking Company, 218 Main St.
MINNEAPOLIS-ST. PAUL
R. L. Gould & Company, 500 Jackson Street (St. Paul)
Industrial & Truck Parts, Inc., 4135 Hiawatha Avenue
Minneapolis Equipment Company
520 Second Street S. E.
Engine Parts Supply, Inc.
1221-9 Harmon Place
Zeco Company, 9033 Lyndale Ave. So.
Campbell Implement Company, 311 So. First St.
Koehl Sales & Service, 1012 Atlantic Ave.
General Trading Company
C. J. Ost Farm Implement Company, 114 Rose St.
Schultz Impl.
Preston Iron Works, Mill St.
Behrens Auto Supply Co., 211 Main St.
Falls Implement Company
Alexander Auto Electric Co., 410 - 6th Avenue
Earls Tree Service, 218 Mill Street
Ditch Witch of Minnesota, Box 234
Vos Mower Service, 1900 7th St. No.
Northern Engine & Supply, Box 111
Johnson Implement Co., 112 Tenth Ave. S.E.
John Peterson Implement Company, Box 311
Auto Electric Service Co., Cor. 2nd & Johnson
Western Implement Company, 508 Oxford St.

* ENGINE POWER, INC.

6336 Lakeland Avenue, North
Minneapolis, Minnesota 55429

MISSISSIPPI

ABERDEEN Brown Auto Parts
CLARKSDALE Wilson Tractor Co.
CLEVELAND George's Lawn Mower Service
COLUMBUS Biddy Saw Works
GREENVILLE Thompson Battery & Electric Company
GREENWOOD Mississippi Tractor Parts & Implement Co. Inc.
GRENADA J. H. Biddy & Sons
GULFPORT Gulfport Battery
HATTIESBURG Carburetor & Ignition Company, 109 Green Street
Taylor Machinery Corp., Broadway at 63rd St.
Bellipanni Brothers
INDIANOLA Taylor Machinery Corp., U. S. Hwy. 80 at S. Gallatin
JACKSON Whit's, 1313-15 S. Gallatin St.
Buck's Service Shop
LAMBERT Devine Sales & Service, 329 N. Maple Street
LAUREL Taylor Machine Works
LOUISVILLE Guyton's Auto Electric, 125 S. Broadway
McCOMB Kelley-Williams Co.
MERIDIAN OK Sales Company, Bypass Road
NATCHEZ Bell Auto Parts, 735 Telephone Rd.
PASCAGOULA Polk's Firestone Dealer Store, 125 W. Canal
PICAYUNE Reliable Welding & Radiator Company
QUITMAN Motor Parts, Inc.
ROLLING FORK Planters Tractor & Implement Company
TUNICA Tupelo Farm Equipment Company
TUPELO Melsheimer's Garage, P. O. Box 739
VICKSBURG Cliett Auto Parts Company
WEST POINT Motor Parts Co.
YAZOO CITY

* WM. F. SURGI EQUIPMENT COMPANY
1149 Tchoupitoulas St.
New Orleans, Louisiana 70150

* RCH DISTRIBUTORS, INC.
92 W. Carolina Avenue
P. O. Box 2828,
Memphis, Tennessee 38102

MISSOURI

AFFTON Erb Equipment Company, Inc., 11714 Gravois
CANTON Canton Implement Company
CAPE GIRARDEAU Schneider Equipment Company
Highway 61 & Bloomfield Road
CHILLICOTHE Kays Implement Company
COLUMBIA Blackmore's Automotive Service, Inc.,
Highway 40 & Garth
ELLISVILLE Ed's Lawn and Garden Shop, 1325 Manchester Road
FLORISSANT Brinker Tractor Sales, Inc., 2505 N. Highway 140
P. O. Box 538
HAMILTON Hamilton Supply Company
INDEPENDENCE Al's Farm & Garden Equipment, 1622 West 24 Highway
JEFFERSON CITY Harry Blackwell, Inc., 420 Jefferson Street
JOPLIN Motor Electric Service, 622 Wall Street

KANSAS CITY 64105 * A. A. KLUGHARTT MACHINERY COMPANY
1205 Woodswether Road

A & D Hatchery & Supply, 4807 North Brighton
Automotive Equipment Service, 3117 Holmes Street
Whitlock Coal & Implement Company
Lewis G. Moore Tractor & Implement Co.
T & H Auto Supply
MONTGOMERY CITY Ray Oliver
PERRYVILLE Prost Implement Company
PLATTSBURG Long Farm Supply Company
POPLAR BLUFF Vernon's Implement Co.
RICHMOND Stuart Machine Company
ST. JOSEPH Farm Supply Company

ST. LOUIS 63108 * ALLIED CONSTRUCTION EQUIPMENT COMPANY
4015 Forest Park Avenue

Fillmore Auto Electric Service, Inc., 414 Fillmore Street
(31) Outdoor Equipment Co. Inc., 12012 Manchester Rd.
George F. Smith Company, 755 South Lindberg
Wollgast Supply Company, 2783 Dunn Road
Gibson Implement Company
Hay's Saw & Mower Center, 115 South Handy
Cave Carburetor Exchange, 307 W. Pershing
Ozark Trencher Sales, Inc., R.R. #2 - Springfield Road
Tractor Sales & Service
Hartbauer Auto Parts Co.
WEST PLAINS Ozark Diesel, North Highway 63 Box 395

MONTANA

BILLINGS 59101 * MIDLAND IMPLEMENT CO., INC., 402 Daniels
Hustad Implement Co.
BOZEMAN Gallatin Equipment
BUTTE Automotive Supply Company
CHESTER Tiber Tractor Company
CHOTEAU H & H Implement Co.
CONRAD Farmer Supply Co-op
CUT BANK Service Supply
DILLON Southmont Tractor Co.
FORSYTH Wallin Mercantile Company
FT. BENTON Green Line Equipment
GLENIDIE Milne Implement Company
GREAT FALLS Farm & Ranch Equipment
HAVRE Farm & Ranch Equipment Co.
HELENA Steffek Equipment Company
KALISPELL Stedje Brothers
LEWISTOWN Horning Implement Co.
MALTA Malta Auto Company
MILES CITY Miles & Ulmer
MISSOULA Bedford Implement Company
SHERIDAN Halse Motors
SIDNEY Sidney Carburetor & Electric Co.
WOLF POINT Moe Motor Co.

NEBRASKA

BEATRICE Sprague Electric Service
COLUMBUS Automotive Sales and Service
CRAWFORD Bruer and Son Company
FREMONT Auto Electric
GORDON Modern Equipment
GOTHENBURG Lepp & Osterloh
GRAND ISLAND Reitan's, Inc.
GRANT Andrews & Son
HASTINGS Sherman Service Center
HOLDREGE Bierman Service
IMPERIAL Prior's
KIMBALL Rohrbaugh Farm Equipment
LEXINGTON Ray's Repair Shop
LINCOLN * PORT HURON MACHINERY & SUPPLY COMPANY
801-813 'Q' Street
McCOOK Kleins Motor & Electric
NORFOLK Harry's Motor
NORTH PLATTE Frank's Farm Equipment
OMAHA F. W. Pruitt Company, 4524 Leavenworth
PIERCE Kolterman Service Company
SCOTTSBLUFF Keeley Auto Electric Inc.
SIDNEY Larson Machinery Co.
VALENTINE Lutter Implement Company
WEST POINT Zobel Farm Store
YORK Nabers Automotive

NEVADA

ELKO Bellinger Motors Sales & Service, 608 Commercial St.
FALLON I. H. Kent Company
LAS VEGAS Blystone Equipment Co., 3184 Fremont
LOVELOCK Carpenter's, Inc., P. O. Box 500
RENO Air Service Company, 241 South Virginia Street
WINNEMUCCA Etchart Machinery, Box 168
* E. E. RICHTER & SON, INC.
6598 Hollis Street
Emeryville, California 94608
* LANCO ENGINE SERVICES, INC.
12915 Weber Way
Hawthorne (Los Angeles), California 90252
* ARNOLD MACHINERY COMPANY, INC.
433 West Second South Street
Salt Lake City, Utah 84110

NEW HAMPSHIRE

CONCORD New Hampshire Explosives & Machinery Company
323 South Main Street
MANCHESTER Dunbar Farm Equipment Company,
Daniel Webster Highway & West Hale Ave.: Hooksett
WALPOLE R. N. Johnson, Inc., Bellows Falls Road
* DIESEL ENGINE SALES & ENGINEERING CORP.
Fish Pier Road
Boston, Massachusetts 02210

NEW JERSEY

BELLMAR Lawn Mower Parts, Inc., 717 Creek Rd.
BLAWENBURG J. Percy Van Zandt
BRIDGETON Serata Sons Co., 53 So. Pearl Street

FLEMINGTON Flemington Farm Equipment Company
Kish Bros., 179 Woodbridge Ave.
HIGHLAND PARK Hights Farm Equipment
HIGHTSTOWN Equipco, 620 Ramsey Ave.
HILLSIDE Wishbow Bros. Inc., 696 Communipaw Avenue
JERSEY CITY Seaview Service & Supply Co., 1904 Shore Rd.
LINWOOD American Auto Parts, 8 Mt. Kemble Avenue
MORRISTOWN Bell Magneto Service, 191 Second Street
NEWARK J. H. Kelly Company, 157 Broad Street
RED BANK Ace Motor Company, 33 Douglas Place
RIDGEWOOD Bill Blackwell's Garden Supplies, 1962 Olden Street
TRENTON (8) Equipco-Trenton, Inc., 303 Whitehead Road
VINELAND Pagano Bros. Inc., 416 Wood Street
WESTFIELD Storr Tractor Co., 469 South Ave., East
WOODSTOWN Owen Supply Company, East Ave. & Broad St.

* JOHN REINER & COMPANY

94-15 150th Street
Jamaica, New York 11435

* JOS. L. PINTO

5918 Baltimore Avenue
Philadelphia, Pennsylvania 19143

NEW MEXICO

ALBUQUERQUE 87101 * CENTRAL AUTO ELECTRIC CO.
808 Second Street, N. W.
Carson & Ellis, Inc., 2401 First St.
Lively Equipment Company, 2601 - 4th N. W.
ARTESIA Motor Machine Company
CARLSBAD Hall Machinery
CLOVIS Tucker Equipment Co., 2119 W. 7th
FARMINGTON Justis Supply Company
GALLUP Tony Ray, 210 West Maloney
HATCH Archer Company
HOBBS Engine & Industrial, 1010 Broadway
LAS CRUCES Cruces Auto Supply, Inc., P. O. Drawer "B"
LAS VEGAS J. S. Torres Stores
LOVINGTON Magneto Ignition Company
PORTALES White Equipment Co., P. O. Box 177
RATON Mack & Sons Marine, 685 Collier
ROSWELL Savage Brothers Electric
SANTA FE Santa Fe Auto Electric

NEW YORK

ADAMS CENTER The Talcott Falls Tractor Sales, Inc. Route 11
ALBANY Abele Tractor & Equip. Co., Inc., 72-74 Everett Road
AUBURN Wayne Auto Electric, 26 E. Genesee St.
BATAVIA Devener Automotive Supply, 238 West Main Street
BINGHAMTON Norton's Service, Inc., 359 Court Street
BOLIVAR Bolivar Magneto Co., 65 Wellsville St.
BUFFALO Fox Equipment Co., 2018 Seneca Street
CANANDAIGUA Donald Howard, Hopewell Center Road
CANTON Canton Auto Parts
DEFREESTVILLE (Albany) Master Equipment Co., Route 4
EAST AVON Davin Implement Co., Inc.
ELMIRA Ritter's Automotive Electric Service, 307 Railroad Ave.
FREDONIA P. J. Zebrasky & Son, East Main Road
GLOVERSVILLE McCue's Auto Parts, Inc., 70 North St.
GOSHEN Gor-Dun's, Inc., R.D. 2, Finnegan's Corners
GOUVERNEUR Gouverneur Auto Parts & Supply Co., 16 Park Street
HUDSON Pitcher Accessories, Inc., 732 Columbia Street
HUNTINGTON STATION Island Auto Parts, 995 New York Ave.
JAMESTOWN Jamestown Unit Parts Co., Inc., 208 W. Fourth Street
KINGSTON Ulster Foundry & Machine Corp., 20 St. James Street
LAKE GEORGE Smith Equipment, Rte. #9 South
LIBERTY Charles E. Lennon & Son, Revonah Park
MARLBORO Ralph C. Herman Company, Route 9W

MASSAPEQUA PARK (LONG ISLAND) George Smith & Sons, Inc.,
4736 Sunrise Highway
MASSENA V. S. Jerry & Sons Corp., East Orvis St. Road
MIDDLEPORT Clayton & Dickenson, R. D. Route 104
NEW YORK CITY 11435 * John Reiner & Company
94-15 150th Street, Jamaica
NORTH WHITE PLAINS Austin & Barrett, 868 North B'dway
NORWICH Grannis & Stratton, White Store Road
OLEAN Bolivar Magneto Co., East State Road
ONEONTA Oneonta Tire & Auto Parts, 116 Main St.
PLATTSBURG Vincent S. Jerry & Sons, Inc., 5 Macdonough Street
POUGHKEEPSIE Waelde the Welder, 6 North Clinton Street
RENSSELAER Van's Equipment Sales, Inc., Route 9 & 20
RIVERHEAD Tryac Truck & Equip. Company, Pulaski Street
ROCHESTER Keystone Builders & Supply Company, 85 Palm Street
SCOTIA Scotia Machine & Tool Co., Inc., 8 John St.
STATEN ISLAND Forest Equipment Co., 1319 Forest Avenue
SYRACUSE 13208 * JOHN REINER & CO., INC., 946 Spencer Street
UTICA Stiefvater Electric Co., 320 Lafayette Street
WASHINGTON MILLS Halligan & Roberts, Route 8
WILLIAMSON Ralph A. Verbridge, Route #104
WOLCOTT Wolcott Implement Co., 79 Lake Avenue

NORTH CAROLINA

AHOSKIE L. S. Jernigan & Son, Company
ALBEMARLE Ivey Sales Co. Inc., 138 S. Depot St.
ASHEVILLE R. T. Clapp Company, Inc., 201 Cox Avenue
BEAUFORT Barbour Marine Supply, Front Street
CHARLOTTE Arrow Construction Equipment Co.,
1415 Independence Blvd.
Contractors Service & Rental, Inc.,
317 West Worthington Avenue
H. B. Owsley & Sons Co.
DURHAM Colvard Farm Equipment Co., 748 E. Greer St.
ENFIELD Enfield Tractor Company, 147 E. Whitfield Street
FARMVILLE Farmville Implement Company
FAYETTEVILLE Eastern Turf Equipment, Inc., 148 Maxwell Street
Edmac Truck Sales & Service, Dunn Road
GASTONIA Southern Supply Company, 258 East Main Street
GOLDSBORO Johnson-Sherman Co.
GREENSBORO 27402 * KING-MCIVER SALES, INC., So. Elm St. Extension
GREENVILLE R. F. McLawhon & Sons Co.
HENDERSON Farm Tractor & Equipment Co., 231 E. Montgomery St.
HICKORY The Flowers Co.
KINSTON Johnson-Sherman Co.
LAURINBURG John Blue Company
LEXINGTON Leonard Machine Company, 100 West Fifth St.
LUMBERTON Currie Chain Saw Company, 1311 West Fifth Street
Johnson Cotton Company
MOUNT AIRY Surry Truck & Tractor Co., P.O. Box 287
NEW BERN Southwest Equipment Company
RALEIGH S. M. Crocker & Sons
ROANOKE RAPIDS Harding & Grizzard, Inc., 300 Roanoke Avenue
ROCKY MOUNT Browning Auto Parts, 205 E. Thomas Street
SANFORD Mann Implement Company, 312 S. Endor Street
SHELBY Lutz-Yelton Tractor & Truck Co., 400 N. Lafayette St.
WASHINGTON W. C. Mallison & Sons, Company
WHITEVILLE Elliott Implement Co., Highway 701 South
WILLIAMSTON Reddick Equipment Co., Highway 64 West
WILMINGTON Hundley Equipment Co.
Rental Tool Company, 4316 Market St.
WINSTON-SALEM Arrow Construction Equipment Company

NORTH DAKOTA

BACKOOL Holen Repair Shop
BEACH Dakota Farm Equipment

BEULAH Unruh Garage
BISMARCK Bismarck Farm Equipment
BOTTINEAU Olson Equipment Company
BOWMAN Pond's Implement
COOPERSTOWN Farmers Oil Co.
CARRINGTON Frank Johnson Implement Inc.
CROSBY Sortland Implement
DEVILS LAKE M. & I. Electric Company
DICKINSON Decker Implement
DUNN CENTER Dunn Center Motor Co.
FARGO 58103 * FARGO FARM EQUIP. SALES CO., INC., P.O. Box 1911
Rent or Buy
Wells County Implement
GRAFTON Grafton Auto & Electric
Grand Forks Rent or Buy
HARVEY Nelson Auto & Implement
HETTINGER Hettinger Farm Equipment
HILLSBORO Rent or Buy
JAMESTOWN A & D Diesel
LANGDON Ray Lebrun
LINTON Schotz Auto & Implement
LISBON Sturdevant's Auto Electric
MINOT Motor Service Company
MINTO Super Service Garage
NAPOLEON Sievert Implement & Auto
NEW ENGLAND Western Implement
NEW ROCKFORD Page and Anderson, Inc.
NORTHWOOD Ray Anderson Implement
OAKES Tedin Implement
ROLLA Welander & Son Implement
RUGBY Dan's Aviation
STANLEY Nelson Implement Company
VALLEY CITY Farmotor, Inc.
WAHPETON Sturdevant's Auto Electric
WASHBURN Wicklander Machine
WILLISTON Electric Magneto Service Co.

OHIO

AKRON Gauer Service & Supply, 676 Waterloo
Hopkins & Kipp, 348-352 W. Bowery St.
ASHLAND Dilgard Auto Parts, 312 Cleveland Avenue
ASHTABULA Friends Auto Electric
CADIZ Cadiz Mfg. Company, Buffalo St.
CANTON Arch-Linder Tractor & Equip. Co.,
3709 Columbus Rd., N.E.
CECIL Harts Auto Parts
CINCINNATI 45206 * CINCINNATI ENGINE & PARTS CO., INC.,
2863 Stanton Avenue
Farm Implements, Inc., 9770 Montgomery Road
CLEVELAND Brooklyn Tractor & Mower Co., 247 Brookpark Rd.
Industrial Engine Parts, Inc., 1437 East 32nd St.
COLUMBUS 43212 * McCUNE & CO., INC., 1066 Kinnear Road
Machinery & Tool Rentals, 511 West Town St.
Ohio Auto Parts Company, 4th & Spring St.
DAYTON Flack Equipment Company, 1240 McCook Ave.
Ludlow Ignition
Barber & Conley
EATON Phil Burt Implement, 1501 Lima Avenue
FINDLAY Warner Parts Company, 218-20 No. Front St.
FREMONT Mulbarger Twins, Inc., 4477 North Hamilton Road
GAHANNA Batten's Electric & Magneto Service Co.
GREENVILLE Savage Auto Supply Co., 630 Maple Ave.
HAMILTON Huron Auto Parts Co., 808 Williams St.
HURON McCurley Implement Company
LEBANON Lima Flack Equipment
LIMA Oaklief Saw & Mower Service, 1074 Lucas Rd.
MANSFIELD Marietta Ignition, Inc., 181 Front St.
MARIETTA Dutt Implement Co., 965 Pole Lane Road
MARION Mentor Elevator Company, 927 Center Street
MENTOR Schrock's, Inc., 801 Yankee Rd.
MIDDLETOWN

MILLERSBURG Plains Machine Shop, R. D. No. 5
MONTGOMERY Farm Implements, Inc., 9770 Montgomery Road
NEWARK Wilkin Farm Store, Inc., 177 National Drive
NORTH RIDGEVILLE Worcester Sales & Service
PORTSMOUTH Staker Sales & Service, 1424 9th St.
SPRINGFIELD S.A.F. Implement Co., 1837 Columbus Ave.
STEBENVILLE Tobin Auto Electric, 807 Market Street
TIFFIN Earl J. Crane, Inc.
TOLEDO Toledo Auto Electric, 35 - 17th Street
TROY Snyder & McDonald Garage, 904 So. Union
WALBRIDGE V. E. Peterson Company, Box 183 R.D.
WARREN Automotive Incorporated
WILMINGTON Compton Metal Products
YOUNGSTOWN 44515 * McCUNE & CO., INC., 3721 Mahoning Avenue
Electric Equipment Company, 22 W. Myrtle Avenue
ZANESVILLE Goss Supply Company, 620 Marietta St.

* EAGLE MACHINE COMPANY, INC.
635 E. Market Street
Indianapolis, Indiana 46207

OKLAHOMA

ADA Ada Auto Supply, 301 East 12th Street
ALTUS Altus Electric & Engine Service, 210 South Hudson
BARTLESVILLE Keystone Supply Company, 543 South Rogers
BLACKWELL Crawford Welding & Magneto Service, 122 East Frisco
BRISTOW Standard Auto Parts Co., 205 East Seventh
CHANDLER Stinchcomb Implement Co., 906 West 15th Street
CHICKASHA Sheppard's Supply, 111 So. 6th St.
DUNCAN Motor Parts & Service, 209 North 7th Street
DURANT Williams Implement Company, 115 South 2nd Street
EAKLY King's Irrigation Sales & Service, Route 3
ENID Brueggemann Supply Co., 412 North Independence
HEALDTON Lewis Magneto & Supply
HUGO Hugo Implement Company, 1104 West Jackson
LAWTON C & E Supply Company, 207 "D" Avenue
MUSKOGEE Victory Motors, 215 North Cherokee
NORMAN Sandlin Tractor Co., Route 2 - Box 47
NOWATA Keystone Supply Company
OKLAHOMA CITY City Auto Parts & Machine, 31 Northeast 10th Street
Industrial Engine Parts & Machine, Inc.
1016 Northwest First St.
PAULS VALLEY James Supply Company, Box 394 (410 South Chickasha)
PERRY Wurtz & Wurtz Motor Company, 624 Elm Street
PONCA CITY Edwards Equipment Co., 401 South First Street
SEMINOLE Magneto Ignition Co. Inc., 106 North 4th Street
SHAWNEE Abernathy Engine Works, 708 East Main St.
TULSA * HARLEY SALES COMPANY, P.O. Box 1259
WALTER Copeland Equipment Company

OREGON

ALBANY Herrold and Jensen Implement Co., Box 321
BEND Moty & Van Dyke Inc.
BURNS Oards Service & Garage
CANBY Canby Motor Parts, Box 877
COOS BAY Coos Bay Marina, Box 1011
CORVALLIS Benton Tractor Company, 1917 South 3rd St.
EUGENE J & J Power Equipment, 1305 W. Sixth
GRANTS PASS Stewarts Small Engine Service, 509 S. W. G. Street
GRESHAM Vic's Motors, 1821 E. Powell
HAINES Haines Commercial Equipment Co.
HARBOR Allied McCulloch, P.O. Box 186
HILLSBORO Hillsboro Impl. Co., 31675 Tualitan Valley Hy.
HOOD RIVER Central Sales Inc., Route 4
JUNCTION CITY George Pyle Parts & Service Co., P.O. Box 266
KLAMATH FALLS Moty & Van Dyke, Inc., Box #801
LAKEVIEW Albertson Tractor Co., Box 828

LEBANON Moty & Van Dyke Inc.
MC MINNVILLE Cascade Tractor & Implement Co., Box 146
MEDFORD Eatherton Engine & Equipment Co., 335 E. McAndrews Rd.
NYSSA B & M Equipment Co.
PENDLETON Oregon Motor Service, P.O. Box 258
PORTLAND 97210 * INDEPENDENT DISTRIBUTORS, 2355 N.W. Quimby St.
A.S.E. Supply Company, 431 N.W. 9th
Hamilton Engine Sales, 2580 N. W. Upshur
Welders Supply Co. Inc., 2313 N. E. Union
RICKREALL Rickreall Farm Supply
REDMOND Kelsey's Electric, P. O. Box 1442
ROSEBURG Le Bleu Motors, Inc., 319 S.E. Jackson
SALEM E. H. Burrell Company
SILVERTON Cascade Farm Machinery, 709 McClaine St.
THE DALLES Arrow Farm Equipment Company
WOODBURN Witham Garden Center, 894 N. Pacific Hiway

* ARNOLD MACHINERY CO., INC.
433 West 2nd South
Salt Lake City, Utah 84110

PENNSYLVANIA

BEAVER FALLS Reliable Motor Parts Co., 1700 Seventh Ave.
BELLEVILLE Samuel Crissman Service Station
BETHLEHEM Eastern Chain Saw & Supply Co.,
R. D. 2, Nazareth Pike
BIGLERVILLE Adams County Fruit Packing Company
L. W. and M. S. Kleinfelter
BRADFORD Tool "n" Toy Service Center
BRYN MAWR Aviation Automotive Parts, Inc., 899 Penn St.
BUTLER Hoffman Auto Parts, 237 West Jefferson Street
CHAMBERSBURG Paul Byers
CLARION Furlong Service
CLEARFIELD Gray Storage Battery Co., 212 E. Locust Street
CONNELLSVILLE Back Creek Lumber Company
DOYLESTOWN Doylestown Agricultural Co.
DRUMS Highway Equipment & Supply Co.,
U. S. Route 309, P. O. Box 127
EASTON Easton Electrical Devices
EPHRATA (Lancaster County) * Hamilton Equipment, Inc., P. O. Box 178
ERIE Jorgensen Garage, 1929 West 26th St.
GREENCASTLE Meyers Farm Supply Co.
GREENSBURG Auto Electric & Brake Service, 107 Urania Ave.
HANOVER W. L. Sterner, 516 Frederick Street
HARRISBURG Highway Equipment Company, 5100 Paxton Street
JOHNSTOWN Battery & Electric Corporation, 700 Franklin Street
KINGSTON Standard Equipment Company
LANCASTER Bart's Repair & Service, 1952 Landis Valley Rd.
L. H. Brubaker, R. D. 4
LEBANON Krall Battery & Ignition Company, 5th & Cumberland St
Elmer Plasterer, Inc., 26 Evergreen Road
MARION CENTER W. R. Wynkoop Company
MARTINSBURG Forshey's Feed & Grain Company
MEADVILLE Mason's, Inc., 182 Mead Avenue
MONTOURSVILLE Keebler's Feed & Farm Supply
NEW CASTLE Storage Battery & Electric Service
NEW HOLLAND A. B. C. Groff
Hochstetler's Magneto Service, 243 E. Franklin Street
NEW PROVIDENCE Walter McVey
NORRISTOWN Edelen & Boyer Co., 1502 DeKalb Pike
PHILADELPHIA 19143 * JOS. L. PINTO, 5918 Baltimore Avenue
(32) Cline-Thornton, Inc., 3307 Old York Rd.
(19) Lawn & Golf Supply Co., 6701 Chew Avenue
Jack M. Lotsey, 863 N. 28th St.
(14) Messick & English, 9240 State Road
(39) The Ransome Corporation, 5526 Arch St.
Service Supply Corporation, 20th St. & Erie Ave.
Thompson Rubber Co., 5222 North Fifth St.
PHOENIXVILLE Lawn & Golf Supply Co., 647 Nutt Road
PITTSBURGH 15212 * CONTRACTORS EQUIPMENT SERVICE CO.
1415 Brighton Road, N. S.
Vitte's Mower Center, 969 Castle Shannon Blvd.

PLYMOUTH MEETING L. B. Smith, Inc.
 ST. MARY'S St. Mary's Super Service
 SCRANTON Penn Auto Service & Supply, 711 Mineral Avenue
 SHAMOKIN Shamokin Cycle Shop, 212 West Independence Street
 SILVERDALE I. G. Rosenberger Company
 SPRINGS (Somerset County) Miller Brothers
 TOWER CITY Tallman Supply Co.
 TUNKHANNOCK Gay-Murray Company
 VERONA Certified Auto Parts, 730 Allegheny River Blvd.
 WASHINGTON Kimble Farm Equipment, 2585 Jefferson Avenue
 WEST CHESTER Fruit Growers of Chester County
 250 South Franklin Street
 WEST READING Berkleigh Tractor Div., Seaman Mill Supplies
 200 Penn Ave.
 YORK Burgard Bros., West and Philadelphia Street
 * McCUNE & COMPANY, INC.
 3721 Mahoning Avenue
 Youngstown, Ohio 44515

RHODE ISLAND

EAST PROVIDENCE J. J. Gregory & Son, Inc., 77 Highland Avenue
 * DIESEL ENGINE SALES & ENGINEERING CORP.
 Fish Pier Road
 Boston, Massachusetts 02210

SOUTH CAROLINA

ANDERSON Foundry & Steel Company
 CHARLESTON Craven Auto Electric Co.
 COLUMBIA 29202 * COLUMBIA SUPPLY CO., 823 Gervais Street
 FLORENCE Richbourn's Auto Elec. Ser., 245 E. Cheves St.
 GREENVILLE Greenville Implement Company
 Battery & Electric Company
 GREENWOOD Bourne Auto Parts Company
 KINGSTREE King Equipment & Supply Co.
 MARION Atkinson Implement Company
 NEWBERRY Shealy Tractor & Implement Co.
 ORANGEBURG Shulers Small Engine Service
 ROCK HILL Hallman Battery & Ignition Company
 SENECA Wigginton Saw & Equipment Company
 SPARTANBURG Spartan Automotive, Inc., 300 West Main Street
 SUMTER Booth Boyle Livestock Company

SOUTH DAKOTA

ABERDEEN Paisley Auto Supply, Inc.
 BELLE FOURCHE Hoseth Auto Electric
 BRITTON Thorpe Auto Company
 BROOKINGS Sidles Company, 411 - 4th Street
 CHAMBERLAIN Chamberlain Motor
 FORT PIERRE Rankin Implement Company
 GETTYSBURG Hottman Implement Company
 HOWARD Frank J. Dold
 HURON General Auto Electric
 ISABEL Automotive Company
 LEMMON Hersrud Implement Co.
 McLAUGHLIN McLaughlin Implement
 MITCHELL United Auto Parts, Inc.
 PLATTE Home Implement Company
 RAPID CITY Johnson Machine Company
 REDFIELD Spink County Farm Implement
 SELBY Jake Rabenberg Implement
 SIOUX FALLS 57101 * DAKOTA IRON, Box 934
 STURGIS McKie International
 WATERTOWN Marquardt's Service & Supply Co.
 YANKTON Swenson Repair

TENNESSEE

BRISTOL LeRoy M. Hull Company, 1201 West State Street
 CHATTANOOGA 37401 * NIXON MACHINERY & SUPPLY CO., INC.,
 1300 Carter Street
 DYERSBURG J. M. Collins Auto Parts
 JACKSON Jackson Bearing Company
 Wilson Outdoor Equipment Co.
 JOHNSON CITY Young Supply Company
 KINGSFORD Cox-Mills Machinery Co., 402 E. Market St.
 KNOXVILLE Nixon Machinery & Supply Co., Inc.
 4717 Clinton Highway
 LEBANON Lebanon Auto Parts Company
 MARYVILLE Lane Auto Services, 1703 East Broadway
 MEMPHIS Choctaw, Inc., 1184 Tupelo
 Esch Service & Supply Co., 1177 East Raines Road
 Hawkins Equipment Company, 1475 Thomas Street
 Mid-South Small Engine Service
 Williams Equipment & Supply Co., 2425 South Third St.
 * RCH DISTRIBUTORS, INC.
 92 W. Carolina Avenue
 P. O. Box 2828,
 Memphis, Tennessee 38102

NASHVILLE 37210 * NIXON MACHINERY & SUPPLY CO., INC.
 208 Crutchfield Avenue
 Wilder Motor Co., 126 - 14th Ave., North
 SO. FULTON Duke's Auto Parts Company

TEXAS

ABILENE Hoppe Auto Electric Company, South First & Poplar
 Oil Field Service & Equip., Box 1772, 1535 Walnut St.
 ALICE Oilfield Motor Service, Drawer 90, 301 W. 1st
 ALVIN Christianson-Keithley Company, Box 869
 AMARILLO Wilson Battery & Electric Service, 618 Jackson Street
 ANDREWS Magneto Service & Supply, 906 S. Main
 ARLINGTON Witch Equipment Co. of North Texas,
 316 North West Street
 ATHENS S. P. Barkley Company, South Carroll & Madole Streets
 AUSTIN Austin Machine & Grinding Company
 201 East First Street
 BAY CITY M. J. Denn & Son, 1308 Avenue F
 BAYTOWN Sims Repair Shop, 1205 North Fifth
 BEAUMONT Oil City Tractors, Inc.
 3999 South 11th Street (Box 710)
 Teel's Maintenance & Supply Co., 1110 South 4th St.
 BEEVILLE Roberts & McKenzie, Inc., Box 1030
 BIG SPRING Hall Auto Parts, Box 1367
 BONHAM Brown Tractor Company, Route #1
 BORGER Radcliff Bros. Electric Co., 504 East Tenth
 BOWIE Bowie Machine Works, Inc., Drawer 630
 BRENNHAM Washington County Tractor Co. Inc.
 304 Lubbock (Box 885)
 BROWNFIELD Brownfield Magneto & Electric Company
 702 Lubbock Road
 BROWNSVILLE Bill Grindle Auto Electric Company, 953 East Adams
 BROWNWOOD Carlson's, Clark & Anderson Streets
 BRYAN Bryan Tractor & Implement Company
 1008 West 25th Street (Box 512)
 CLEBURNE Zimmerman Sons & Company, 1-3 East Henderson
 CLEVELAND Gates Saw Company, 301 North Washington
 CONROE Gates Saw Company, Box 733, 1/2 Mi. on Highway 75
 CORPUS CHRISTI Russell's Machine & Supply, Inc.,
 Box 1978, 110 North Chaparral
 CORSICANA Stroube Implement Company, Ltd., Highway 75 South
 CROCKETT Driskell Farm Service Company, Houston Highway
 DALLAS Ben Griffin Tractor Company, 5220 Harry Hines Blvd.
 Peerless Equip. Corp., 11091 Denton Drive, Box 20260
 P. A. Ross Machinery Company, 2424 South Central
 Expressway

DEL RIO Tim B. Cobb Hardware Company, 822 South Main Street
DENTON Travelstead Auto Supply Co., 215 East Hickory St.
EL CAMPO Industrial Motor Service, 1202 East Jackson
EL PASO Wes Kerns' Repair Shop, 2020 Bassett
FLORESVILLE Tri State Equipment Co., 1501 East Paisano Drive
FORT WORTH 4 Eschenburg Implement Company, 1326 3rd St.
A & B Contractors Equipment & Supply Co., Inc.,
1808 Bomar Street
FREDERICKSBURG George's Auto Parts, Inc., 905 Florence Street
Fredericksburg Machine & Appliance Co., Inc.,
105 East San Antonio St.
FREEPORT Parts, Inc., 623 North Gulf Boulevard
GALVESTON Island Marine Sales & Service, 4222 Broadway
National Cotton, Inc., 1828 Avenue C
GIDDINGS Jaegers Incorporated, 1309 East Austin (Box 36)
GLADEWATER S & W Repair Shop
GRAHAM Rogers Magneto & Electric, 508 Second St.
HAMLIN Hamlin Auto Parts, 129 South Central
HAMILTON Smith & Jones
HILLSBORO Hillsboro Farm Machinery, 111-113 West Franklin
HEREFORD McRight Garage & Supply, 642 East Second Street
HOUSTON 77001 * HARLEY SALES COMPANY, 4427 West 12th
Gaedcke Equipment Co., 5500 Navigation Boulevard
McKenzie Equipment Co., Inc.
9260 Bryant Street (Box 60460)
KATY Katy Farm Equipment, Inc., Box 97
KERMIT Kermit Engine & Electric, Box 1144
KILGORE Magneto Sales & Service Co., 707 South Commerce
KINGSVILLE Burris Motor Service, 206 East Lee
LAGRANGE Janssen Bros., Box 600
LAREDO Yeary Battery Co. Ltd., Houston & Juarez
LONGVIEW Magneto Sales & Service, 319 W. Marshall
LUBBOCK Porter Sales Company, 2804 Avenue A
LUFKIN Lufkin Supply Company, 417 Lufkin Ave.
MARSHALL Power Supply Company, 305 E. Austin
McALLEN Hoff Service, Inc., 500 South 10th Street
McKINNEY Air-Cooled Engine Supply, 344 E. Louisiana
MISSION Mission Auto Electric, W. Highway 83
MONAHANS Rutherford Machine Company, 100 South Calvin
MULESHOE Ladd Engineering Company, Box 75
NAVASOTA Mollard Tractor Company, Box 289
NORTH PORT ARTHUR Gillespie Engine Service & Supply, Box 3527
ODESSA 79761 * HARLEY SALES COMPANY, 701 County Road West
OLTON Adams Tractor Company, Drawer 409
ORANGE Nelson's Supply House, 88 West Cypress Ave.
OZONA Ozona Sprayer Company
PALESTINE Anderson County Equipment Co., 806 West Oak
PAMPA Radcliff Bros. Electric Company, Box 151, 519 S. Cuyler
PECOS Equipment Service Company, 2000 Balmorhea Highway
PERRYTON Tri-County Tractor & Equipment Co., 123 S.E. 2nd Ave.
PLAINVIEW W. O. Speck Machinery Company, 1000 Broadway
PORT LAVACA Auto Parts & Grinding Co., 132 North Guadalupe
POTTEET Tuttle Motor Company
REFUGIO Kircher's Repair Shop
ROSENBERG Lamar Tractor Company, 2810 Avenue H
SAN ANGELO Rogers Machine Co., 113 East Concho
SAN ANTONIO Catto & Putty, Inc., Box 2408, 510 Soledad St.
Gibtrac, Inc., 6625 South Flores Street
SEMINOLE Wright Motor Company, 210 East Avenue A
SHERMAN Shipp Motor Company, 307-309 South Travis Street
SHINER Boehm Tractor & Auto Sales
SNYDER Y-Z Engineers Service, Box 176
SPEARMAN Owens Sales Company, 118 North Main (Box 116)
STEPHENVILLE H. F. Walker Tractor Company, Route 1
SULPHUR SPRINGS The Banks Company, 120 Oak Avenue
SWEETWATER Sweetwater Electric Company, 100 Elm Street
TEMPLE Farm Equipment Service, 2306 So. First St.
THORNDAL Rodenbeck Auto Supplies, 525 West Highway
TYLER Acme Machinery Company, 115 North Hill Avenue
VERNON Bud's Automotive Machine & Supply, 1500 Cumberland
VICTORIA United World Supply Co., 301 N. George
WACO The Motor Shop, 420 South 5th Street
Richards Equipment Co., 910 Franklin
WAXAHACHIE C. R. Feaster Company, 418 South Rogers Street

WEIMAR Loessin Implement Company
WHARTON Wharton Tractor Company, 1007 Richmond Road North
WICHITA FALLS Mike Carter Engine Works, 219 Indiana Avenue

UTAH

LOGAN Bullens, 1475 North Main
OGDEN Stegens Auto Service
PROVO Bradshaw Auto Parts Company, 335 West Center
SALT LAKE CITY 84110 * ARNOLD MACHINERY COMPANY, INC.
433 West Second South Street
SPANISH FORK Bradshaw Auto Parts Company

VERMONT

RUTLAND Berkshire Tractor Co., 274 South Main St.
SOUTH BURLINGTON Parker Danner Co., 1901 Williston Road
(VERMONT STATE LINE)
WALPOLE, NEW HAMPSHIRE R. N. Johnson, Inc., Bellows Falls Rd.
* DIESEL ENGINE SALES & ENGINEERING CORP.
Fish Pier Road
Boston, Massachusetts 02210

VIRGINIA

ANNANDALE Universal Cycle & Mower Company,
7575D Little River Turnpike
ARLINGTON Phillips Machinery & Tractor Co.,
2910 Jefferson Davis Hwy.
CHESAPEAKE G & S Equipment Co., Inc., 1335 South Military Highway
DANTE Phillips Auto Supply
DANVILLE Motor Parts & Equipment Co., 920 Riverside Dr.
FAIRFAX Krauser Equipment Co., 3301 Pickett Road
FARMVILLE Taylor-Forbes Equipment Co.
FREDERICKSBURG A. W. Mitchell Company
GLOUCESTER Power Systems Development, Box 738
HAMPTON Dixie Diggs Auto Parts, Inc.,
Cor. N. King St. & Pembroke Ave. P.O. Box 364
HARRISONBURG Whitesel Brothers
MARTINSVILLE Motor Parts & Equipment Co., Ten Liberty Street
LEXINGTON Turpin's Supply Service, Route 4
LYNCHBURG Myers & Rhodes Equipment Co., Inc.
NEWPORT NEWS W. L. Gleason Co., 3511 Jefferson Avenue
McIlhany Equipment Co., Inc., 499 Muller Lane
NORFOLK Highway & Industrial Equipment Co.
5630 Virginia Beach Blvd.
Land & Coates, Inc., 3505 Virginia Beach Blvd.
PETERSBURG Ritchie Hardware & Implement Co., Inc.
RICHMOND 23228 * PHILLIPS MACHINERY, INC.,
Staples Mill Rd. at Greendale
ROANOKE Baker Brothers, Inc., 1402 Williamson Road
McIlhany Equipment Co., Inc., P. O. Box 121
ST. PAUL Phillips Auto Supply
STAUNTON Whitesel Brothers, Inc.
SUFFOLK J AND E Auto Supply
WINCHESTER Lupton Equip. Co., Inc., 560 N. Loudoun St.
WYTHEVILLE R. P. Johnson Sons

* ENGINE SALES & SERVICE CO., INC.,
919 Virginia Street, East
Charleston, West Virginia 25301

* POTTER EQUIPMENT COMPANY, INC.
6200 N. Capitol Street, N.W.
Washington, D. C. 20011

WASHINGTON

ABERDEEN Grays Harbor Equipment Company
BELLINGHAM Automotive Parts Service, 1322 State Street
BOTHELL Walters Specialized Equipment
BREMERTON Williamson's Machine Shop, 2612 Burwell
CENTRALIA Ron's Auto Electric, 309 West Main
EVERETT Cordz Auto Electric, 2915 Rucker Avenue
LONGVIEW Manthe Equipment Co., 1039 California Way
MOSES LAKE Skagg's Automotive Supply, Inc.
MT. VERNON Piston Service Co., 410 Second Street
OKANOGAN Hamilton Farm Equipment Center, Inc.
OLYMPIA Central Auto Parts
OTHELLO Preston Tractor Co. of Othello
PASCO Pasco Motor Supply, Inc.
PORT ANGELES Dobson's, P. O. Box 872
PROSSER General Parts Supply
PUYALLUP Ray Bock Equipment Company
 11th N.W. at River Road
QUINCY Quincy Truck & Implement Co.
SEATTLE 98134 * STAR MACHINERY COMPANY, 241 Lander Street
 Abel Service Company, 5326 Roosevelt Way N.E.
 Motor Parts Machine, 817 East Pike
SPOKANE 99202 * STAR MACHINERY COMPANY, East 415 Sprague Avenue
 Andrews Equipment Service, East 4620 Trent
 Skaggs Automotive Supply, Inc., 1107 West Second
 Motor Parts & Equipment Co., 1745 Jefferson
TACOMA Wheeler's Gas Engines, 2604 E. Evergreen Blvd.
VANCOUVER Harry's Small Engine Specialties, 2311 Main St.
WALLA WALLA Walla Walla Motor Supply, Inc.
WENATCHEE Wells & Wade
YAKIMA Turner Implement Company, 2006 South First Street

* INDEPENDENT DISTRIBUTORS

2355 N.W. Quimby St.
 Portland, Oregon 97210

WEST VIRGINIA

BECKLEY Raleigh Motor Sales, Inc., P. O. Box 1370
BLUEFIELD Groseclose Auto Electrical
CHARLESTON 25301 * ENGINE SALES & SERVICE CO., INC.
 919 Virginia Street, East
CLARKSBURG Craig Motors
 West Virginia Mine Supply Co., 212 Ohio Avenue
FAIRMONT Craig Motor Service Company
HUNTINGTON Contractors Equip. & Supply Co., 2867 Third Avenue
LEWISBURG Greenbrier Tractor Sales
MORGANTOWN Ted's Auto Electric
MOUNDSVILLE Gordon Auto Parts, Second & Cedar
PARKERSBURG Hartman Oil & Gas Co., 841 Janette St.
SPENCER Dependable Pipe & Supply
WESTON Craig Motor Service Co.
 Lovett Welding & Repair, Route #4, Box 54

* CONTRACTORS EQUIPMENT SERVICE COMPANY

1415 Brighton Road, N. S.
 Pittsburgh, Pennsylvania 15212

* POTTER EQUIPMENT COMPANY, INC.

6200 N. Capitol Street, N.W.
 Washington, D. C. 20011

WISCONSIN

ANTIGO Gresch Implement Company, 613 5th Ave.
APPLETON Schreiter Auto Supply, 603 West College Avenue
ASHLAND Farm Equipment Service Company, Inc., 1314 W. Front St.

BARABOO
EAU CLAIRE
FOND DU LAC

GREEN BAY

JANESVILLE

KENOSHA

LaCROSSE

MADISON

MANITOWOC

MARSHFIELD

MAYVILLE

MEDFORD

MERRILL

MILWAUKEE 53218 * ENGINE POWER, INC., 11811 W. Silver Spring Rd.
 Motor Grinding & Parts Company

817 W. National Avenue

2529 W. North Avenue

OSHKOSH

PORTAGE

PRAIRIE Du CHIEN Valley's Small Engine Service, 667 East Blackhawk Drive

RICHLAND CENTER Moore Electric Service, 535 W. Seminary

STURGEON BAY Len Scharfner Implement Company, 25 Larch Street

STURTEVANT Henry Rohner Implement Company

SUN PRAIRIE Hanley Implement Company, 641 W. Main St.

SUPERIOR Neuman Automotive Service, 1111 Ogden Avenue

TOMAH Kennedy Automotive Supply Company, 906 Superior Ave.

WAUSAU Buch Farm Equipment, 102 W. Bridge St.

WEST ALLIS J. H. Medinger Co., 9513 We. Greenfield Avenue

WISCONSIN RAPIDS B & B Implement & Welding, Rt. 4 - Box 541

WYOMING

BUFFALO

CASPER

CHEYENNE

DOUGLAS

GILLETTE

RIVERTON

ROCK SPRINGS

SHERIDAN

TORRINGTON

WHEATLAND

WORLAND

Johnson County Implement Company

Studer Tractor & Equipment Company

Wilson Equipment Company

Gene L. Payne Co.

Axel W. Ostlund & Son

Valley Implement Company

Wyoming Automotive

Auto Electric Company

Keeley Auto Electric Co.

Burzlaff Implement Co.

Fausset Implement Company

* CENTRAL EQUIPMENT COMPANY

4477 Garfield
 Denver, Colorado 80216

* MIDLAND IMPLEMENT COMPANY, INC.

402 Daniels
 Billings, Montana 59101

* ARNOLD MACHINERY COMPANY, INC.

433 West Second South Street
 Salt Lake City, Utah 84110

WISCONSIN MOTOR CORPORATION

DISTRIBUTORS and APPROVED SERVICE STATIONS

CANADA

The following concerns have service part stocks, facilities and trained personnel to render complete service on Wisconsin Air-Cooled Engines. We recommend you work through these service stations on your Wisconsin engine service requirements.

* DISTRIBUTORS

ALBERTA

BROOKS
CALGARY
CAMROSE
CARBON
CLARESHOLM
DRUMHELLER
EDMONTON
FAIRVIEW
GRAND PRAIRIE
HIGH PRAIRIE
LETHBRIDGE
MANNING
MEDICINE HAT
OLDS
OYEN
PEACE RIVER
RED DEER
SPIRIT RIVER
STETTNER
TABER
TROCHU
VEGREVILLE
VERMILION
VULCAN
WAINWRIGHT
WESTLOCK
WETASKIWIN

Park Sales and Service
* MUMFORD, MEDLAND, LIMITED
235 - 66 Avenue, S. E.
Crawford & Company, Ltd.
Wright Motors Ltd.
TNT Equipment
E. O. Parry Auto & Farm Machinery, Ltd.
* MUMFORD, MEDLAND, LIMITED
10809 - 105th Ave.
Agro-Centre
Kens Farm Service
Ike's Modern Motors
Oliver Chemical Company, Ltd.
3 Avenue & 9 Street, North
Turner Bros. (Manning) Ltd.
Foughty Cycle Shop
580 Parkview Drive
Stauffer's Auto Electric, Ltd., Box 1060
Alvin Carren
Moro Machine Shop
Loveseth Ltd., 5104 Goetz Avenue
D. Ross & Sons
Modern Machine Shop (Stettner) Limited
Farm Equipment Centre
J. E. Frere & Son
Demkiw & Yakimetz Equipment, Ltd., 4917-51st Ave.
M. P. Norton Implements Ltd.
Richardson & Gould Ltd.
Hughie's Auto Electric
A. Miller Farm Equipment Ltd., P. O. Box 478
Pahal Motors, Limited, P. O. Box 1688

BRITISH COLUMBIA

CHILLIWACK
DAWSON CREEK
KAMLOOPS
KELOWNA
NANAIMO
NELSON
OLIVER
PENTICTON
PRINCE GEORGE
SALMON ARM
VANCOUVER
VERNON
VICTORIA

C. R. Fortin & Son
125 Trans-Canada Highway West
Bob Whyte Industrial Equipment, 1549-95th Avenue
Stan Steele Limited
142 - 2nd Avenue
Kelowna Industrial Supply Company,
274 Lawrence Avenue
The Nanaimo Foundry & Engineering Works Limited
100 Comox Road
T. Conners Diamond Drilling
Imperial Motors, P.O. Box 946
L. R. Bartlett Ltd.
166 Westminster Ave. W.
Northern Magneto and Electric
975 Second Avenue at Queen Street
Peterson Bros. (Salmon Arm) Ltd.
* PACIFIC ENGINES & EQUIPMENT, LTD.
40 East Cordova Street
Magneto Sales & Service, 126 Gore Avenue
McBain Air-Cooled Engine Co.
1968 West Georgia Street
Western Air Cooled Engines Ltd.,
1859 West Georgia Street
Jack Fuhr Limited, 3405 Bernard Avenue
Mayhew & Strutt Ltd., 2300 Douglas Street

MANITOBA

ALTONA
BALDUR
BEAUSEJOUR
BOISSEvain
BRANDON
CARMAN
DAUPHIN
KILLARNEY
MANITOU
MELITA
MORDEN
NEEPAWA
PORTAGE la PRAIRIE
ROSENORT
RUSSELL
ST. LAZARE
SHOAL LAKE
STEINBACH
SWAN RIVER
VIRIDEN
WINNIPEG

Wiebe's Garage Limited
Ramage & Sons
Stefaniuks Garage
Dixons Auto Service
Frank Lawson & Sons
Johnston Farm Supply
B-B Farm Supply
H. L. Freeman & Son
D. Voth & Sons
Griffith Brothers
Hamms Garage
William Whitmore
Dillon Electric Limited
352 Saskatchewan Avenue East
Rosenort Motors
Clement's Farm Equipment
Fouillard Implements Exchange
Lake Motors
Thomas Wiebe & Company, Limited
C. P. Sorensen & Son, P. O. Box 359
Runion's Farm Equipment
* MUMFORD, MEDLAND, LIMITED
576 Wall Street

NEW BRUNSWICK

BATHURST
EDMUNDSTON
FREDERICTON
RIVERVIEW
ST. JOHN

Burns Equipment Ltd.
Bell Equipment Ltd., 159 Canada Road
Engine Machine Shop & Supply Limited
* CONSOLIDATED ENGINES & MACH. CO. LTD.
Coverdale Road
(P. O. Box 848, Moncton)
Lounsbury Industrial Ltd., 415 Rothesay Ave.

NEWFOUNDLAND

CORNER BROOK
GRAND FALLS
ST. JOHN'S

Newfoundland Tractor & Equipment Co., Ltd
P. O. Drawer 13
Newfoundland Tractor & Equipment Co., Ltd.
P. O. Box 100
* NEWFOUNDLAND TRACTOR & EQUIP. CO., LTD.
Kenmount Road, P.O. Box 1150

NOVA SCOTIA

HALIFAX
KENTVILLE
SYDNEY
TRURO

* SEABOARD GM DIESEL LTD., P. O. Box 67,
1549 Lower Water Street
Scotian Gold Co-Op. Ltd.
Atlantic Spring & Machine Co., Ltd.
Wilson Equipment Ltd.

ONTARIO

BELLEVILLE	Belleville Auto Electric, 84 Grier Street
BRANTFORD	Riverview Automotive Machine Co., 120 Water St.
BURLINGTON	Duke Lawn Equipment Ltd.
CHATHAM	Norton Smith Cycle Service, 181 Thames St.
FORT WILLIAM	Acklands Ltd., 831 May Street
HAMILTON	Capital Construction Equipment Co. Ltd. 67 Frid Street
	Standard Engines, Equip. & Supplies Ltd. 516 Parkdale Ave. N.
HUNTSVILLE	G & G Huntsville Automotive Supply Ltd. 9 Minerva Street
KINGSTON	Kingston Auto Motor Rebuilders, 40 James St.
KITCHENER	Jacobs Tractor & Equipment, Ltd., 1138 Victoria Ave. N.
LONDON	E. P. Abey Limited, Wharncliffe Road, South
NORTH BAY	Ray Gordon Equipment Rentals Ltd. 164 Lakeshore Drive
OSHAWA	Herb Robinson Wholesale Ltd., 72 Richmond St.
OTTAWA	Craig Construction Equipment Ltd., 2940 Baseline Road, Bell's Corner's Post Office
OWEN SOUND	Welch & Johnson Ltd., 472-476 Bank Street
PETERBOROUGH	Slater's Auto Electric Ltd., 260 8th St. E.
RENFREW	MacLeod Motors (Peterborough) Ltd.
ST. CATHERINES	Powell's Auto Service Ltd.
SARNIA	D. A. Dalziel Equipment Ltd., 251 St. Paul St., West
SAULT STE. MARIE	Lambton Equip. Co., 792 Phillip Street
SUDBURY	Bert's Auto Supply Limited, 415 Queen St. E. V.O.B. Heavy Equipment Repair Ltd. 187 Sillpaa Street
TIMMINS	Yuill & Craig Ltd., 378 Whittaker Street
TORONTO	(14) * CONSOLIDATED ENGINES & MACHY. CO. LTD. 241 Birmingham Street M. L. Baxter Ltd., 1900 St. Clair Ave. West Builders Tool Supplies, Ltd., 1210 Caledonia Road Herc Industrial Engines, Ltd., 37 Minford Avenue (Scarborough)
TRENTON	Quinte Machine & Repair Co., 23 Balsam Street
WALLACEBURG	Labombards (Wallaceburg) Ltd., 330 Selkirk St.
WESTON	Marathon Equipment & Supply, Ltd., 88 Signet Drive
WINDSOR	Windsor Automotive Supply, 649 Wyandotte St. E.
WOODBRIIDGE	Humber Automotive Limited

PRINCE EDWARD ISLAND

CHARLOTTETOWN	J. H. England Equipment
	* CONSOLIDATED ENGINES & MACHY. CO., Moncton, New Brunswick

QUEBEC

BAIE COMEAU	Specialites Automobiles Enr., 174 Boul. Lasalle
CHICOUTIMI	Perron Equipment, Inc., 234 Blvd. Lamarche
MONTREAL	(9) * CONSOLIDATED ENGINES & MACHY. CO. LTD. 8550 Delmeade Rd. (TOWN OF MT. ROYAL) Crankshaft Grinders Inc., 226 Young St. Engine Rebuilders Ltd., 6389 St. Lawrence Blvd. J. A. Faguy & Sons Limited, 750 Montee de Liesse James W. Halls & Sons, Ltd., 883 Montee de Liesse International Electric Co., 6500 Upper Lachine Magneto Auto Electric Ltd., 8500 - 4th Ave. Ville D'Anjou Simplex Motor Parts Ltd., 2323 Des Carrieres

QUEBEC CITY

	General Diesel Incorporated, 101 Henderson Street
	Quebec Gas and Diesel Engines Ltd., 395 Boul. des Cedres
	Rene Talbot Limited, 205 St. Paul Street
	Marcel Rochette Limitee, 138 rue Leonidas
	J. S. Levesque, 107 Rue Fraser
	Maska Auto Electric Reg'd., 550 Vaudreuil St.
	Pridex Engr., 230 St. Jean Baptiste Blvd.
	International Electric Co., Ltd., 335 Laure St.
	Crankshaft Grinding & Diesel Service, Inc. 988 Wellington South
	Stanley Motors & Equipment Ltd., 1908 St. Philippe St.

RIMOUSKI
RIVIERE du LOUP
ST. HYACINTHE
ST. PHILOMENE
SEPT-ILES
SHERBROOKE

THREE RIVERS

SASKATCHEWAN

ASSINIBOIA	Harvey's Hardware Ltd.
AVONLEA	Nelson Motors Ltd.
CANORA	Acme Motors & Implements Ltd.
CARLYLE	Humphries Garage
CARNDUFF	R - M West End Motors
CARROT RIVER	C. R. Sales & Service
CHOICELAND	Lloyd R. White Farm Equipment
CUTKNIFE	Finley's Auto & Farm Supply Ltd.
DAVIDSON	Midway Service Ltd.
DINSMORE	A. McLellan
ESTEVAN	Kendall's Auto Electric
ESTON	Farmer's Supply Co.
FRANCIS	S. J. Helfrick & Sons
GLENAVON	Evans Motors
GRENFELL	Schlamp's Garage
GULL LAKE	A & P Motors
HUMBOLDT	Hergott Farm Equipment Limited
IMPERIAL	Art Ulmer
KAMSACK	Kamsack Co-operative Association Ltd.
KINDERSLEY	Halpenny Agencies
LANDIS	Landis Co-Op Association
LEADER	Lawrence Nagel
LLOYDMINSTER	Mayston Auto Electric & Machy. Ltd., 4402-49 Ave.
LUSELAND	Luselands Motors
MARSDEN	Forster Brothers
MEACHAM	Meacham Service
MEADOW LAKE	Auto & Tractor Supply Company, Ltd.
MELFORT	Creurer Bros.
MELVILLE	Melville Consumers Co-Op Association Ltd.
MILESTONE	McManus Bros.
MOOSE JAW	Moose Jaw Distributing Company
NIPAWIN	Rourke's Service Centre
NORTH BATTLEFORD	Hornsby & Son, 1022-102nd St.
OGEMA	Fritz Frank Garage
OUTLOOK	Outlook District Sales
PELLEY	Campbell's Garage Limited
PONTEIX	Ponteix Central Garage Ltd.
PRINCE ALBERT	P. A. Electric Service Centre Ltd., 29 - 11th St. E.
RADVILLE	E. E. Bourassa & Sons
REGINA	* MUMFORD MEDLAND LTD., 1250 St John St.
ROCANVILLE	Goodman's Esso Service
ROSETOWN	G. L. Conlin & Son Ltd.
SASKATOON	Certified Machinery Co., Ltd., 1729 Ontario Street
SHAUNAVON	John's Auto Electric
SHELLBROOK	Moker & Thompson Ltd.
SOUTHEY	Southey Motors
SPIRITWOOD	Green Line Equipment
STRASBOURG	E. E. Erickson
SWIFT CURRENT	Houston Equipment, Ltd.
TISDALE	E. G. Groat
UNITY	Krips (1958) Ltd.
WADENA	Hanson Brothers
WATROUS	Findley Machine Shop Ltd.
WEYBURN	Maurer Motors, 301 - 1st Avenue
WYNYARD	Lakeview Farm Equipment
YORKTON	Air Cooled Engine Service, 26 - 4th Avenue

WISCONSIN MOTOR CORPORATION

WORLD WIDE DISTRIBUTION

The following concerns have service part stocks, facilities and trained personnel to render complete service on Wisconsin Air-Cooled Engines. We recommend you work through these service stations on your Wisconsin engine service requirements.

* DISTRIBUTORS

ALGERIA

- ALGIERS * Hamelle Afrique
89 Avenue de Tripoli
P. O. Box 71 Hussein - Dey
- ORAN * Hamelle-Afrique
4 Rue de l'Artillerie

ARABIAN GULF

- KUWAIT * Al-Khonaini Al-Katami Trading & Contracting Co.,
P.O. Box 593

AUSTRALIA

- NEW SOUTH WALES Ronaldson Bros. & Tippet Ltd.
16 Warren Avenue, Bankstown
- QUEENSLAND Ronaldson-Tippett (Qld.) Pty. Ltd.
81 Jurgens Street, Woolloongabba
- SOUTH AUSTRALIA Finsbury Sales & Service (S.A.) Pty. Ltd.
570 Torrens Road, Finsbury
- TASMANIA Eric E. Howard and Son Pty. Ltd.
170 Murray Street, Hobart
Eric E. Howard and Son (Launceston) Pty. Ltd.
177 Brisbane Street, Launceston
- VICTORIA * Ronaldson Bros. & Tippet Ltd.
P. O. Box 465, Ballarat
Ronaldson Bros. & Tippet Ltd.
168-174 Dorcas Street, South Melbourne, S. C. 5
- WESTERN AUSTRALIA Venables Service Pty. Ltd.
97-101 Oxford Street, Leederville
Barrow Linton Pty. Ltd.
763-767 Wellington Street, Perth.

BAHAMA ISLANDS

- GRAND BAHAMA Bahamas Tractor & Equipment, Ltd.
P. O. Box 128, Freeport
- NASSAU * Bahamas Tractor & Equipment Ltd.
P. O. Box 638

BARBADOS (B.W.I.)

- BRIDGETOWN * The Emtage Electrical Co., Ltd.

BELGIUM

- BRUSSELS * Matiels & Matériaux de Construction
en Belgique S.A.
710-714 Chaussee de Louvain

BERMUDA

- HAMILTON * Masters Ltd

BOLIVIA

- LA PAZ * Industrial Agencies (Bolivia) Ltda
Avenida Montes No. 731
Cajon Postal No. 2449
- ORURO * Industrial Agencies (Bolivia) Ltda
P. O. Box 430

BOTSWANA

- GABERONES Construction Equipment Supply Co., Ltd.
- * Barlow's Tractor & Equipment Co., Ltd.
P. O. Box 291
Salisbury, Southern Rhodesia

BRAZIL

- AMAZONAS
Manaus Industria e Comercio Bomfim S.A.
Rua Marcilio Dias, 66/68
- CEARA
Fortaleza J. Torquato Comercio e Industria S.A.
Rua Barao do Rio Branco, 705
- GUANABARA
Rio de Janeiro * Fonseca Almeida Comercio e Industria S.A.
Rua Primeiro de Marco, 112
P. O. Box 422-ZC-00
Luiz F. Braga Com. Ind. S.A.
Rua Riachuelo, 257-A
- MARANHAO
Sao Luis Companhia Importadora e Exportadora Moraes
Av. Magalhaes de Almeida, 300
- MINAS GERAIS
Belo Horizonte Cia. Fabio Bastos Comercio e Industria
Av. Parana, 472
Governador Valadares Cia. Fabio Bastos Comercio e Industria
Rua Barbara Heliodora, 393
Itajuba Guaita-Comercio de Automoveis S.A.
Praça Dr. Wenceslau Braz, 92
Juiz de Fora Cia. Fabio Bastos Comercio e Industria
Rua Halfeld, 345
Sete Lagoas Jose da Rocha & Cia. Ltda.
Rua Teofilo Marques, 31
Varginha Auto Varginha S.A.
Praça Getulio Vargas, 215
- PARA
Belem Higson & Co. (Para) Ltd.
Praça Visconde do Rio Branco, 23/39
- PARANA
Curitiba Hermes Macedo S.A. - Importacao e Comercio
Rua Joao Negroao, 595/605
- PIAUI
Parnaiba Neves & Cia.
Av. Pres. Getulio Vargas, 293
Teresina Neves & Cia.
Rua Alvaro Mendes, 1.253
- RIO GRANDE DO SUL
Porto Alegre Comercial Trilho Otero S.A.
Rua Voluntarios da Patria, 572

RIO DE JANEIRO

Niteroi

Resende

Valenca

SANTA CATARINA

Chapeco

SAO PAULO

Sao Paulo

Comag S.A. Maquinas Agricolas e Industriais
Av. Feliciano Sodre, 578
Braile & Cia.
Rua Luiz Barreto, 19
Osorio Duque de Souza
Rua Padre Luna, 33

Irmaos Baldissera & Cia.
Av. Getulio Vargas, 1.681

Fonseca Almeida Comercio E. Industria S.A.
Caixa Postal 8776, Avenida Ipiranga, 344
Maquibras S.A. - Maquinas e Equipamentos
Av. Gal. Olimpio da Silveira, 332
Cia. Hama-Com. Industria e Importacao
Rua Florencio de Abreu, 464

BRITISH HONDURAS

BELIZE

* The Belize Supply Co., Ltd
P.O. Box 542

CAMEROON

DOUALA

* Hamelle Afrique
P. O. Box 4041

YAOUNDE

* Hamelle Afrique
P. O. Box 117

CHILE

CONCEPCION

Importadora Y. Comercial Del Sur S.A.
"IMCOSUR" Barros Arana 730 - Casilla 55 C

OSORNO

Importadora Y. Comercial Del Sur S.A.
"IMCOSUR" Ramirez 957 - Casilla 520

SANTIAGO

* Sociedad General De Comercio S.A.
"SOGECO" Almada B. O'Higgins 1170 -
Casilla 904

VALPARAISO

Sociedad General De Comercio S.A.
"SOGECO" Salvador Donoso 140 2 esq.
Pudeto - Casilla 208-V

COLOMBIA

BARRANQUILLA

General Sales Corporation Ltda.
Calle 37 No. 46-03

Tracey & Compania S. A.
Carrera 44 Nro. 36-29

BOGOTA

* Motores Wisconsin de Colombia S.A.
Carrera 12 No. 16-73
Apartado Aereo No. 6864

Ambrosi & Cia. Ltda
Calle 13 Nro. 19-57

Ignacio Gomez & Cia.
Calle 13 Nro. 31-04

Mecanelectro Ltda.
Calle 13 Nro. 18-24

Riccardi & Cia. Ltda.
Carrera 12 Nro. 16-73

Tracey & Compania S. A.
Calle 13 Nro. 12-42

BUCARAMANGA

Garcia Cadena & Co. Ltda.
Carrera 15 Nro. 31-49

Penagos Hermanos Ltda.
Carrera 18 Nro. 31-42

CALI

General Sales Corporation Ltda.
Calle 25 No. 3-36
Konietzko & Cia. Ltda.
Carrera 7a. Nro. 13-69

Mecanelectro Ltda.

Carrera 1 Nro. 22-67

Tracey & Compania S. A.

Calle 14 Carrera 6

CUCUTA

Distribuidora del Gas del Norte

Avenida 5 Nro. 12-35

Jaimes Hermanos Ltda.

Calle 11 Avenida 7a.

IBAGUE

Herramientas & Equipos

Calle 14 Nro. 3-23/25

MANIZALES

Tracey & Compania S. A.

Carrera 22 Nro. 17-30

MEDELLIN

Mecanelectro Ltda.

Carrera Bolivar #41-28

Peter Santa-Maria & Cia. Ltda.

Calle 50 No. 53-2

Tracey & Compania S. A.

Carrera 51 Nro. 45-111

MONTERIA

Almacen "La Favorita"

NEIVA

Cabrera Escovar Calderon Ltda.

Carrera 51 Nro. 11-46

PEREIRA

Casa Alemana

Calle 19 Nro. 10-15

QUIBDO

Jaramillo & Cia.

Almacen Pintuco

SAN VICENTE (Santander)

Miguel Rodriguez

Carrera 11 Nro. 11-18

TUMACO

Almacenes Mira

ZAPATOCA

Soto Diaz & Cia. Ltda.

Carrera 6 Nro. 9-73

REPUBLIC of the CONGO

KINSHASA

* Bureau Technique Bia
P. O. Box 8843

Route Traffic Lour

LUBUMBASHI

* Bureau Technique Bia
Post Office Box 1874

* Bureau Technique Bia
47-49 Avenue Emile de Beco
Brussels, Belgium

CONGO REPUBLIC

BRAZZAVILLE

* Hamelle Afrique
P. O. Box 107

POINTE-NOIRE

* Hamelle Afrique
P. O. Box 182

COSTA RICA

SAN JOSE

* Aycarco Limitada, Apartado 1621
Carretera La Uruca

DAHOMY

COTONOU

* Hamelle Afrique
P. O. Box 124

DENMARK

COPENHAGEN

* Aktieselskabet Dansk Wimex
Hauchsvej 12

DOMINICAN REPUBLIC

SANTO DOMINGO * The General Sales Co. C. Por A.
Apartado 746

ECUADOR

GUAYAQUIL * Organizacion Comercial Vallejo Araujo, S.A.
Ave. 9 de Octubre 721-723
P.O. Box 717

QUITO * Organizacion Comercial Vallejo Araujo, S.A.
P.O. Box 245

EGYPT (U.A.R.)

CAIRO * The Tractor & Engineering Company S.A.E.
P. O. Box 366

* The Tractor & Engineering Company S.A.E.
80 Broad Street
New York, New York

EL SALVADOR

SAN SALVADOR * Salvador Machinery Co. S.A.
Boulevard Ejercito Nacional
P.O. Box 125

ENGLAND

GLOUCESTER * Power Units & Equipment Co.
The Gloucester Trading Estate
Hucclecote

REPUBLIC OF FINLAND

HELSINKI * Oy Nortek AB
Georgsgatan 30
P.O. Box 10144

FORMOSA (TAIWAN)

TAIPEI * Frazar & Co. Inc.
No. 29-(2) Chunghua Rd.
P.O. Box 1173
* Frazar & Company, Inc
233 Broadway
New York, N.Y. 10007

FRANCE

BEZONS, (Seine-&-Oise) * Union Automobile Technique et Commerciale
53 Rue Claude-Bernard

REPUBLIC OF GABON

LIBREVILLE * Hamelle Afrique
P.O. Box 31
PORT-GENTIL * Hamelle Afrique
P.O. Box 530

GREECE

ATHENS * George A. Makris
30 Petraki Street

GUAM

AGANA * International Equipment of Guam, Inc.
P. O. Box 637

GUATEMALA

GUATEMALA CITY * Equipos Mecanicos de Guatemala, S.A.
Apartado Postal 472
7A. Avenida No. 1-40/60-Zona 9

REPUBLIC OF GUINEA

CONAKRY * Hamelle Afrique
P.O. Box 473

GUYANA

GEORGETOWN * J. P. Santos & Co. Ltd.
54 & 55 Water Street

HAITI

PORT-au-PRINCE * Charles Fequiere & Cie.
84, Rue Pavée
& 77 Rue Christophe Colomb
P.O. Box 398

HONDURAS

CHOLUTECA Casa Comercial Mathews, S.A.
TEGUCIGALPA, D.C. * Casa Comercial Mathews, S.A.
P.O. Box 39
SAN PEDRO * Casa Comercial Mathews, S.A.
SULA, D.D. P.O. Box 37

ICELAND

REYKJAVIK * Elding Trading Company

INAGUA

MATTHEWTOWN * Inagua General Store, Limited

INDIA

BOMBAY 1, * Atul Engineering Co.
P. O. Box 588
140 Meadows St.

INDONESIA

DJAKARTA * P. T. Masayu Trading & Industrial Co.
P.O. Box 2107

IRAN

TEHERAN * Sherkat Diesel Abzar
646 Saadi Avenue

IRAQ

BAGHDAD * A. M. Khayat Inh. Co.
Sinek Street

ISRAEL

TEL-AVIV * Palestine Engineering Stores
P. O. Box 509

ITALY

LA SPEZIA * Oto Melara
Via Valdilocchi 35
Casella Postale 237

REPUBLIC OF THE IVORY COAST

ABIDJAN

* Hamelle Afrique
P. O. Box 1326

JAMAICA

KINGSTON

* Masterton, Limited
23-25 Hanover Street, P. O. Box 73

JAPAN

TOKYO

* Frazar Shokai Kabushiki Kaisha
Room 401, Yaesu Bldg.
6, 2-Chome, Marunouchi, Chiyoda-Ku

* Frazar & Company, Inc.,
233 Broadway
New York, N. Y. 10007

KOREA

SEOUL

* Frazar & Company, Inc
Bando Building, Room 624
International P. O. Box 1108

* Frazar & Company, Inc.,
233 Broadway
New York, N. Y. 10007

LEBANON

BEIRUT

* Abdunnur Commercial & Engineering Co.

LIBERIA

MONROVIA

* Liberia Tractor & Equipment Co.
P. O. Box 299
United Nations Drive

LIBYA

TRIPOLI

* Tripoli Sales Company
Suani Road 1½ KM
P. O. Box 2219

MALAGASY REPUBLIC

TANANARIVE

* Henri Fraise Fils & Cie.

MALAWI

BLANTYRE

* Barlow's Tractor Company (Nyasaland) Ltd.
P. O. Box 526
Construction Equipment Supply Co., Ltd.
P. O. Box 526

MARTINIQUE (F.W.I.)

FORT-DE-FRANCE

* Guy Vieules
P.O. Box 233

MEXICO

AGUASCALIENTES

J. Ramiro del Villar
Emiliano Zapata No. 121, Aguascalientes

BAJA CALIFORNIA

Electronica Arechiga
Hidalgo No. 316, La Paz
Proveedora Industrial de Ensenada S. A.
Calle Frente, Ensenada

CAMPECHE

CHIAPAS

Luis F. Romero Nicolau

Calle 10x59 No. 7, Campeche
Amin Aramoni y Cia S. de R. L.
La Pontiente 38 y 2a Ave. Sur, Tuxtla Gutierrez
Ing. Carlos Garcia Sarabia
Central Oriente No. 16-B, Tapachula
Jorge Figueroa B.

Av. Central No. 27, Tuxtla Gutierrez
Maquinaria e Implementos de Tapachula
2a. Ave. Norte Mina No. 2, Tapachula
Roberto Pulido G.

Calle 20 No. 45, Comitán

Vincente Yannini

Madero No. 18, San Cristobal Las Casas

Rodamientos Y Maquinaria, S.A.

Ave. Niños Héroes No. 501, Chihuahua

Radiolandia, S. A.

G. Barreda No. 27, Colima

Mendivil Motors, S. A.

20 de Noviembre y Libertad, Durango

Bombas y Motores del Bajío S. A.

Samuel W. Jones No. 1, Irapuato

Equipos de Bombeo y Maquinaria Agrícola S. A.

Manuel Doblado No. 5, Celaya

Maquinaria y Refacciones

Hidalgo No. 146, León

Equipos y Herramientas del Sur, S. A.

Ave. Cuauhtémec No. 81, Acapulco

Jeronimo Gaona Santamaría

Juárez y Reforma, Cd. Altamirano

Moto-Bombas y Refacciones del Pacífico

Ave. Cuauhtémec No. 90-1, Acapulco

Central de Maquinaria de Hidalgo S. A.

Av. Juárez No. 302, Pachuca

El Bazar Universal, S. A.

Hidalgo No. 300, Ote., Tulancingo

Maquinaria Del Pacifico, S. A.

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Taller y Refacciones Salorzano

Gante No. 128, Guadalajara

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Equipos Agrícolas e Industriales S. A.

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Maquinaria Moderna y Agropecuaria

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Motores Bombas y Servicio S. A.

Blve. Adolfo Lopez Mateos y Aldama, La Piedad

Maquinaria Moderna, S. A.

A. Obregon y M. Avila Camacho, Cuernavaca

Bombas Servicio S. A.

Zaragoza Nte. No. 621, Monterrey

Sada Gomez S. A.

Padre Mier No. 247 Pte., Monterrey

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Maquinaria y Refacciones de Oaxaca, S. A.

C. M. Bustamante No. 114, Oaxaca

Montajes y Maquinaria de Salina Cruz, S. A.

Mazatlan No. 25, Salina Cruz

Accesorios y Suministros S. A.

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Cabrera, S. A.

10 Oriente No. 6, Puebla

Distribuidora de equipo Agrícola S. A.

8 Poniente No. 314, Puebla

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Pino Suarez No. 302, Villahermosa

TABASCO Baleros y Bombas S. A.
Juarez No. 311 Ote., CD. Mante

TAMAULIPAS Baleros y Retenes
Fco. I. Madero No. 617 Ote., Rio Bravo
Casa Automotriz del Mante
Av. Juarez No. 118 Ote., CD. Mante
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F. Carrillo Puerto No. 34, Jalapa
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Avenida 1 No. 906, Cordoba
Maquinaria e Implementos Rosfer S. A.
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Rafael Martinez Baron
Zaragoza No. 309-A, Coatzacoalcas
Cia. Perforadora de Pozos de Agua S. A.
Calle 59 No. 487, Merida

YUCATAN

MOROCCO

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P. O. Box 33

ALCAZARQUIVIR Cohen & Zefri
Route de Tanger

CASABLANCA * Hamelle-Maroc
P. O. Box 682

FEZ * Hamelle-Maroc
42, Rue Cuny

KENITRA Socar
P. O. Box 82

MECHRA BEL KSIRI * Hamelle-Maroc
Rue Poeymirau

MEKNES * Hamelle-Maroc
c/o Ets. Monneret
27, Ave. Jean Jaures

OUJDA Labor
Avenue Mohammed V

RABAT * Hamelle-Maroc
73, Rue Capitaine Petitjean

SIDI KACEM * Hamelle-Maroc
Avenue Lyautey

TETOUAN LaTechnica
P. O. Box 83/284

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LOURENCO MARQUES * Santos, Marques & Silva Lda
Rua da Electricidade 9
(Box 166)

NETHERLANDS

ROTTERDAM * R. S. Stokvis & Zonen N. V.
P. O. Box 426

NETHERLANDS ANTILLES

CURACAO * Frederik Trading Co., N.V.
Caracasbaaiweg No. 49

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GRANADA Eddie Lacayo
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MANAGUA * Nicaragua Machinery Company
Apartado 469
MASAYA Arnoldo Lacayo Maison

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Strandgt 212
OSLO * Maskin A/S K. Lund & Co.
Revierstredet 3
TROMSO Maskin A/S K. Lund & Co.
Skippergt 7 A
TRONDHEIM Maskin A/S K. Lund & Co.
Sondregt 14

PAKISTAN (EAST)

DACCA Machinery & Spares Company, Ltd.
214, Nawabpur Road

PAKISTAN (WEST)

KARACHI * Butt Engineering Stores
29, Badri Building, McLeod Road

PANAMA

PANAMA CITY * Guardia & Cia, S.A.
Ave. Justo Arosemena Y Calle 29
P. O. Box 481

PARAGUAY

ASUNCION * Oscar S. Netto S.A.
Caballero Eligio Ayala Mexico

PERSIAN GULF

BAHRAIN * Salman A. Kaiksow
P. O. Box 80

PERU

LIMA * Peruvian Trading Corp. Ltd. S.A.
Av. Alfonso Ugarte 899
P.O. Box 1537

PHILIPPINE ISLANDS

MAKATI, RIZAL * Honiron Philippines, Inc.
P.O. Box 438
Makati Commercial Center

PORTUGAL

LISBON * Joao Felix Da Silva Capucho, Limitada
P. O. Box 2121
113, Rua de Sao Paulo, 129

PORTO * Joao Felix da Silva Capucho
139 R. Mousinho da Silveira 143

PUERTO RICO

PONCE Southern Industrial Supplies Corp.
44 Comercio Street
P. O. Box 1764

SAN JUAN 00936 * Ricardo Davila Sucesores Inc.
G.P.O. Box 3669

REPUBLIC OF CENTRAL AFRICA (OUBANGUI-CHARI)

BANGUI * Hamelle-Afrique
P. O. Box 928

REPUBLIC of SOUTH AFRICA

BELLVILLE, C.P. * Barlow's (Cape) Ltd.
P.O. Box 332, Bellville, C.P.
BLOEMFONTEIN * Barlow's (O.F.S.) Ltd
Nuffield St. (P.O. Box 1088) Hamilton
E. TRANSVAAL * Barlow's Tractor & Machinery Co.
1, Bester Street, P. O. Box 254, Nelspruit
EMPANGENI * Thos. Barlow & Sons (Natal) Ltd
Box 76
JOHANNESBURG * Thos. Barlow & Sons (S.A.) Ltd
33 De Beer Street (Box 4862) (Braamfontein)
KOKSTAD * Thos. Barlow & Sons (Natal) Ltd
791 Main Street
NEW GERMANY * Thos. Barlow & Sons (Natal) Ltd.
Shepstone Road, P. O. Box 74
PIETERMARITZBURG * Thos. Barlow & Sons (Natal) Ltd
Box 147
PORT ELIZABETH * Barlow's (Eastern Province) Ltd
111 Grahamstown Road
TRANSVAAL * Barlow's Tractor & Machinery Company
P.O. Box 11, Isando
WINDHOEK * M. Pupkewitz & Sons (Pty) Ltd
Box 140
(Southwest Africa)

SAUDI ARABIA

JEDDAH * Mohamed Ali Maghrabi & Sons
P. O. Box 61

SENEGAL

DAKAR * Hamelle-Afrique
P. O. Box 162

SPAIN

MADRID * Vidaurreta Y Cia. S.A.
Atocha 121

SURINAM (NETHERLANDS GUIANA)

PARAMARIBO * C. Kersten & Company, N. V.
Steenbakkerijstraat 27
P.O. Box 1808

SWEDEN

STOCKHOLM * Ingeniorsfirman T. Jutgard
Korsbarsvagen 6-10

SWITZERLAND

ZURICH * Baumaschinen AG
Badenerstrasse 570, 8048

THAILAND

BANGKOK * Thai Machinery Industry Co.
c/o Irrigation Department
Samsen Road

TRINIDAD

SAN FERNANDO * Industrial Agencies Limited
18 Lady Hailes Ave. - P. O. Box 32

TUNISIA

TUNIS * Hamelle-Afrique
58 Ave. de Carthage

TURKEY

ISTANBUL * Niyazi Kiran
P.O. Box 597, Karakoy

SOUTHERN RHODESIA

BULAWAYO Barlow's Tractor & Equipment Co. Ltd.
P. O. Box 1192
CHIREDDI Barlow's Tractor & Equipment Co. Ltd.
Chironga Drive
SALISBURY * Barlow's Tractor & Equipment Co. Ltd.
P. O. Box 291, P. O. Southerton
UMTALI Barlow's Tractor & Equipment Co. Ltd.
P. O. Box 193

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BARQUISIMETO Casa Roda Industrial, C. A.
Calle 37 Edificio la Mascota Local No. 6
Intagro, C. A., Edif. La Palma, Calle 23
I. A. Senior & Hijo, Suc., S. A.
Avenida 20 No. 26-47
Macamps, S. A., Avenida 20 No. 28 - 70
Maquinarias Mendoza, C. A.
Apartado Postal No. 13

CARACAS C. A. de Tractores y Maquinarias
Estatua Sucre a Parque Artigas
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Maquinarias Mendoza, C. A.
P. O. Box 2641
Mata Sifontes, S. A.
Apartado Postal No. 572
Montemayor & Cia., Suc., S. A.
P. O. Box 164
Oficina Tecnica Stubbins
P. O. Box 7
Sanchez & Cia., S. A.
Apartado Postal No. 1006

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Avenida 1 Este
Entre Calle 3 Norte y Plaza Bolivar

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P. O. Box 162
Rafael Molero G. & Cia., Almacen Multiple,
Calle 100 No. 9-70

MARACAY Maquinarias Mendoza, C. A.
Avenida Bolivar No. 44 - 1 Este

PUERTO LA CRUZ Oficina Tecnica Stubbins, C. A.
P. O. Box 4072

VALENCIA Mata Sifontes, S. A.
Calle 91, No. 106-78

VIETNAM

SAIGON * Brownell, Lane Engineering, Ltd.
232 Duong Trinh-Minh-The

* Brownell, Lane International, Ltd.
30 Broad Street
New York 4, New York

VIRGIN ISLANDS (U.S.A.)

ST. THOMAS * The West Indian Co. Ltd

WEST GERMANY

FRANKFURT/Main - Niederrad * Ricono G.m.b.H.
Hahnstrasse 48

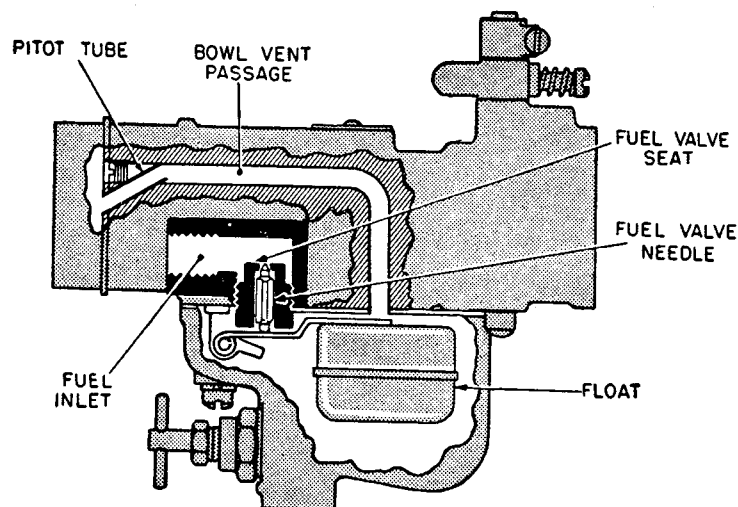
ZENITH 87A8 CARBURETOR

FOR WISCONSIN MOTOR CORPORATION

The Zenith 87-Series is a horizontal carburetor with a concentric fuel bowl. It is a "balanced" carburetor, because all air for fuel chamber and metering well ventilation and idling must come through the air cleaner. Air cleaner restrictions have a minimum influence on the fuel-air ratio when a carburetor is thus "balanced".

The main jet and discharge jet are centrally located. The metering well which completely surrounds the discharge jet is in the center of the fuel bowl assembly. This construction permits extremely high angle operation in any direction.

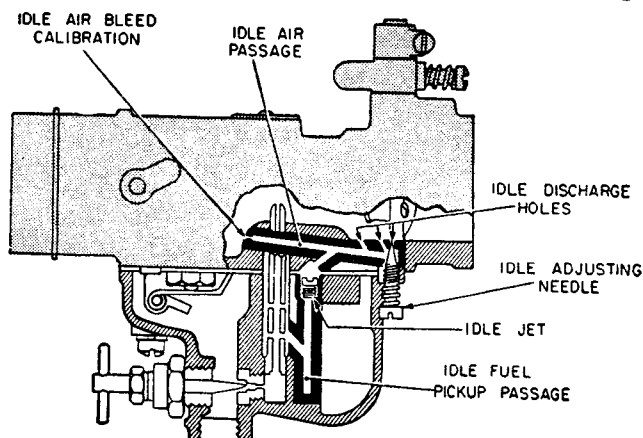
The venturi, which is part of the throttle body casting, measures the volume of air that passes through the carburetor. In selecting the venturi size, the smallest size that will permit full power development should be used.



FUEL SUPPLY SYSTEM

FUEL SUPPLY SYSTEM. Fuel under normal pressure entering the float chamber through the fuel valve seat is controlled by the twin float which, moving on its axle, closes the needle valve when the fuel reaches the proper level in the bowl.

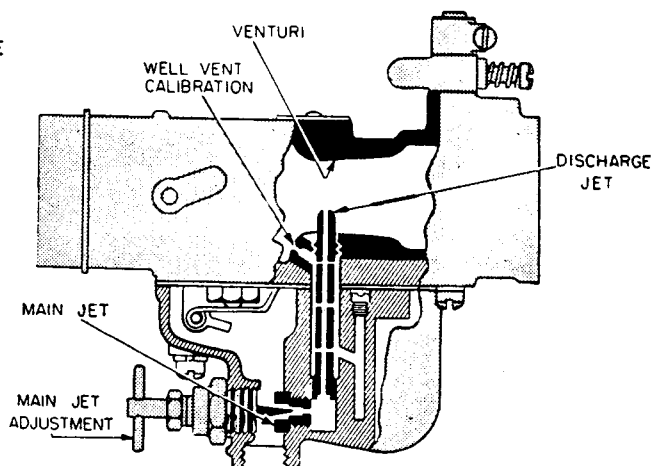
IDLING SYSTEM. At idling speeds the throttle plate is almost closed, thus a very high suction exists at the edge of the throttle plate. At this point the idle discharge



IDLE SYSTEM

orifices are located. All fuel for idling and part throttle operation is supplied through the main jet. Fuel from the float chamber flows through the main jet into the metering well. Fuel for idling is drawn from this well through the calibration, or metering orifice, in the center of the idling jet. As the fuel reaches the idling channel it is mixed with air which is admitted through a calibrated orifice in the channel from the inside of the air intake to form an emulsion. This emulsion is discharged into the air stream, to form the idling mixture, through two holes, one of which is controlled by the idle adjusting needle. Turning the adjusting needle counter-clockwise (out) permits more of the emulsion to reach the air stream and make the idling mixture richer while turning the needle in (clockwise) cuts off the amount of the emulsion reaching the air stream and makes the mixture leaner.

HIGH SPEED SYSTEM. As the throttle is opened, the suction on the idling system diminishes, but the increased volume of air entering the engine through the venturi creates sufficient vacuum (suction) on the discharge jet to draw an emulsion of fuel and air from the metering well which receives its fuel from the main jet and its air from the well vent. The flow characteristics of the discharge jet



HIGH SPEED SYSTEM

are influenced by the size, location, and number of holes in the sides of that part of the jet which is in the metering well, as well as by the sizes of the discharge jet orifice, the size of the main jet, and the size of the well vent. The well vent is located in the air intake and permits air to enter the top of the metering well around the outside of the discharge jet. The flow of fuel through the main jet is controlled by the main jet adjustment.

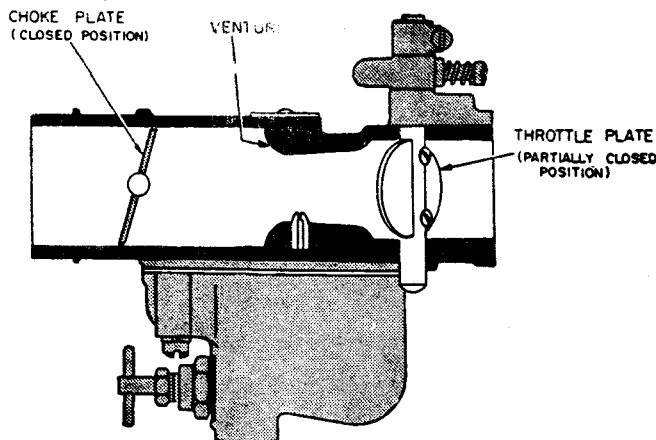
CHOKE SYSTEM. Starting a cold engine requires a much richer mixture of fuel and air. Moving the choke lever to close the choke plate restricts the air entering the carburetor, except at the pitot tube to the bowl vent, and increases the suction on the idling system which makes the mixture richer.

STARTING THE ENGINE. Before cranking the engine, the carburetor throttle should be opened a little to expose both idle discharge ports to suction. The choke should be fully closed until the engine starts, then opened a little to prevent stalling from being over-choked, then when the engine is fully warmed up the choke can be returned to wide open position and the throttle closed to the idling position.

ADJUSTMENTS. Adjust the throttle stop screw to obtain the desired idling speed by turning the screw in (clock-

wise) to increase the speed and out (counter-clockwise) to decrease the engine speed.

Adjust the idle adjusting needle to obtain smooth idling of the engine at idling speed. Turn the needle out (counter-



CHOKE SYSTEM

clockwise) to make the mixture richer, and in (clockwise) to make it leaner.

Adjust the main jet adjustment for full power of the engine while under a load. Turning the adjusting needle out (counter-clockwise) makes the mixture richer while turning the needle in (clockwise) cuts off the flow of fuel to make the mixture leaner.

NOTE: Do not try to operate on a very lean mixture; better performance and better fuel economy will be obtained if the mixture is not too lean.

DISASSEMBLY

A. IDENTIFY CARBURETOR

- (a) Check numbers on metal identification disk riveted to top of throttle body. The inside number next to the rivet is the Zenith assembly number and the one next to the outer edge of the disk is the vehicle manufacturer's.

B. DISASSEMBLED VIEWS

- (a) The disassembled view will identify the various component parts and show the relation to assembly. Use the disassembled view to identify and locate parts when performing the disassembly and reassembly operations.

C. SEPARATE CARBURETOR BODIES

- (a) Remove the three bowl assembly screws (45 & 46) and separate fuel bowl (39) from throttle body (26).

D. DISASSEMBLE FUEL BOWL

- (a) Remove the main jet adjustment (43) and fibre washer (42), using a $\frac{9}{16}$ " open end wrench.
- (b) Remove the main jet (41) and fibre washer (40), using Zenith Tool No. C161-83 main jet wrench.
- (c) Remove the Idle Jet (38), using a small screwdriver.
- (d) Remove the bowl drain plug (44).

E. DISASSEMBLE THROTTLE BODY

- (a) Remove the float axle (35) by pressing against the end with the blade of a screwdriver.
- (b) Remove the float (36).
- (c) Remove the fuel valve needle (31), using the fingers.
- (d) Remove the fuel bowl to throttle body gasket (37).
- (e) Remove the main discharge jet (32), using a small screwdriver.
- (f) Remove the fuel valve seat (31) and fibre washer (30), using Zenith Tool No. C161-85.
- (g) Remove the idle adjusting needle (17) and spring (18).

CLEAN AND INSPECT PARTS

A. CLEAN PARTS

- (a) Clean all metal parts thoroughly with cleaning solution and rinse in solvent.

- (b) Blow out all passages in the air intake assembly, fuel bowl assembly and throttle body. **NOTE:** Be sure all carbon deposits have been removed from throttle bore and idle discharge holes. It is advisable to reverse flow of compressed air in all passages to insure all dirt has been removed. Never use a wire or drill to clean out jets.

B. INSPECT PARTS

- (a) **Float Assembly.** Replace float assembly if loaded with gasoline, damaged, or if float axle bearing is worn excessively. Inspect top side of float lever for wear where it contacts fuel valve needle.
- (b) **Float Axle.** Replace if any wear can be visually detected on the bearing surface.
- (c) **Fuel Valve Seat & Needle Assembly.** Replace fuel valve seat and needle because both parts wear and may cause improper float level.
- (d) **Idling Adjusting Needle and Spring.** Inspect point of needle. This must be smooth and free of ridges.
- (e) **Gaskets and Fibre Washers.** Replace all gaskets and fibre washers every time the carburetor is disassembled.
- (f) **Check Specifications.** Verify the correctness of the following parts. Numbers will be found on the parts. Venturi; Main Jet; Idling Jet; and Fuel Valve Seat.

REASSEMBLY

A. REASSEMBLE THROTTLE BODY

- (a) Install the fuel valve seat (31) and fibre washer (30), using Zenith Tool No. C161-85.
- (b) Install the main discharge jet (32), using a small screwdriver.
- (c) Install fuel valve needle in seat (31), followed by float (36) and float axle (35). **NOTE:** Insert tapered end of float axle (35) into float bracket on side opposite slot and push through the other side. Press float axle (35) into slotted side until the axle is centered in bracket.
- (d) **Fuel Level.** Check position of float assembly (36) for correct measurement to obtain proper fuel level using a depth gage. **NOTE:** Do not bend, twist, or apply pressure on the float body. With bowl cover assembly (26) in an inverted position, viewed from free end of float (36), the float body must be centered and at right angles to the machined surface. The float setting is measured from the machined surface (no gasket) of float bowl cover to top side of float body at highest point. This measurement should be $\frac{3}{16}$ ", plus or minus $\frac{1}{32}$ ".
- (e) **Bending Float Lever.** To increase or decrease distance between float body (36) and machined surface (26) use long nosed pliers and bend lever close to float body. **NOTE:** Replace with new float if position is off more than $\frac{1}{16}$ ".
- (f) Install throttle body to fuel bowl assembly gasket (37) on machined surface of throttle body (26).
- (g) Install the idle adjusting needle (17) and spring (18).

B. REASSEMBLE FUEL BOWL

- (a) Install the main jet (41) and fibre washer (40), using Zenith Tool No. C161-83 main jet wrench.
- (b) Install the main jet adjustment (43) and fibre washer (42), using a $\frac{9}{16}$ " open end wrench.
- (c) Install the idle jet (38), using a small screwdriver.
- (d) Install the bowl drain plug (44).

C. REASSEMBLE CARBURETOR BODIES

- (a) Install the three bowl assembly screws (45 & 46) through the fuel bowl and into the throttle body and draw down firmly and evenly.

SPECIAL TOOLS

The special tools recommended for the 87-Series carburetors are:

1. C161-83 Main Jet Wrench.
2. C161-85 Fuel Valve Seat Wrench.

PARTS LIST FOR MODEL 87A8 ZENITH CARBURETOR

CARB.
REF. No.

ZENITH
ASSEM. No.

WISCONSIN
PART No.

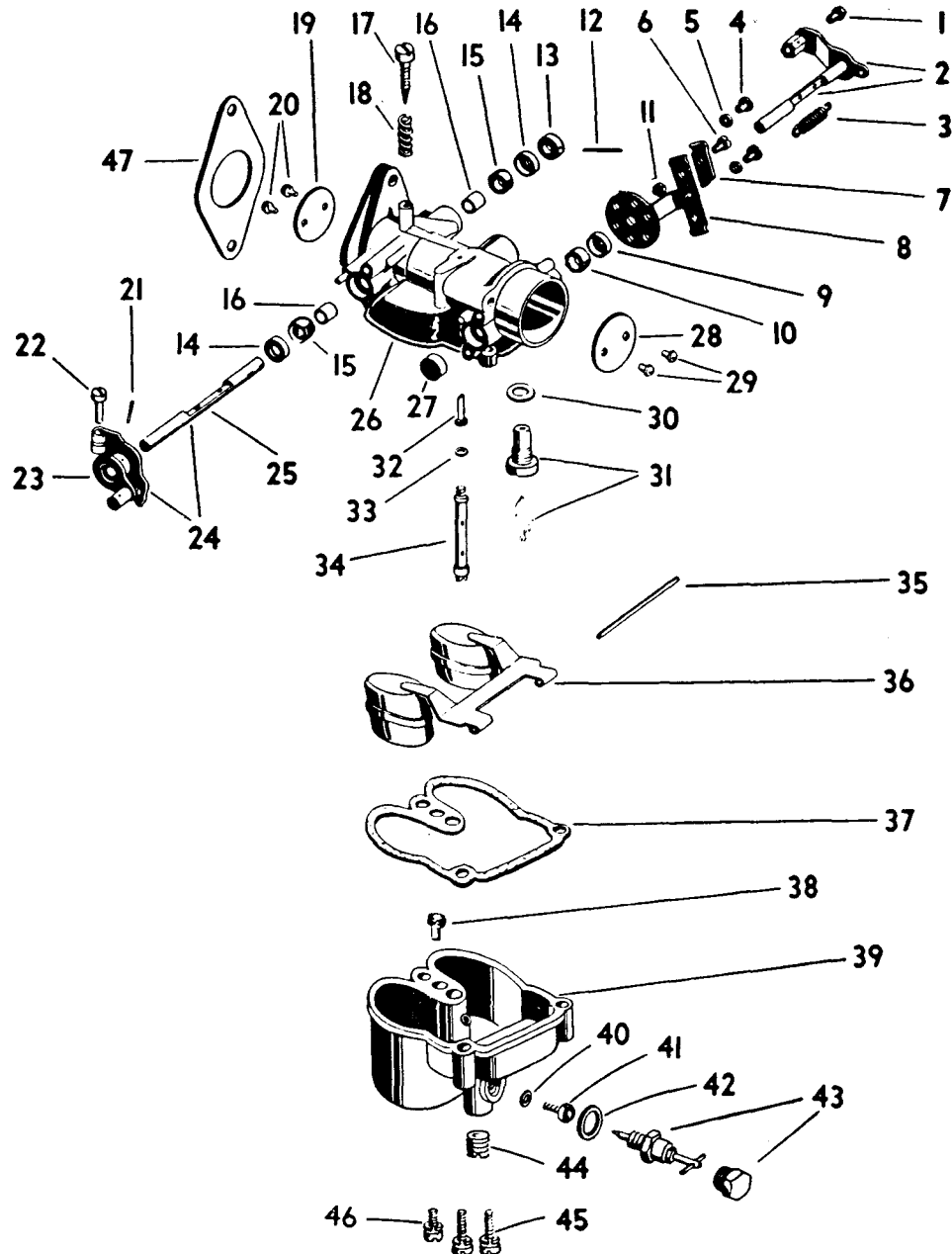
WIS. ENGINE
MODEL

1
2
3
4
5

11288
11532
12347
12708
12825

L-57
L-57-1
L-57-B
LZ-77-S1, LZ-77B-S1
LZ-77C-S1

VP4D
VG4D
VG4D
V-460D, V-461D
V-461D, V-465D



Item No	Zenith Part Number	Description	No Req	Item No	Zenith Part Number	Description	No Req
1	T858-7	SCREW - LEVER SWIVEL for 1, 2, 3, 4	1	4	C140-58	SCREW - BRACKET ASSEMBLY for 1, 2, 3, 4	2
2	C105-3	SHAFT - CHOKE for 1, 2, 3, 4	1	5	T41-8	LOCKWASHER - BRACKET SCREW for 1, 2, 3, 4	2
(Not Illust.)	C105-302	SHAFT - CHOKE for 5	1	6	T858-6	SCREW - TUBE CLAMP for 1, 2, 3, 4	1
	C106-2	LEVER - CHOKE for 1, 2, 3, 4	1	7	C110-7	CLAMP - BRACKET TUBE for 1, 2, 3, 4	1
	T2258	NUT - CHOKE LEVER for 1, 2, 3, 4	1	8	C109-60-3	BRACKET - CHOKE for 1, 2, 3, 4	1
	T-41-10	LOCKWASHER - CHOKE LEVER NUT for 3, 4	1	9	†C131-4x2	RETAINER - CHOKE SHAFT PACKING	1
	3	C112-12	SPRING - CHOKE LEVER for 1, 2, 3, 4	1	10	†T57-4	WASHER - CHOKE SHAFT PACKING

PARTS LIST FOR MODEL 87A8 ZENITH CARBURETOR

Item No	Zenith Part Number	Description	No Req	Item No	Zenith Part Number	Description	No Req
11	T21S8	NUT - CLAMP SCREW for 1, 2, 3, 4	1	43	C138-24	PLUG - MAIN PASSAGE	1
12	C63-9	PIN - WASHER RETAINING for 1, 2, 3, 4	1	44	T91-3	PLUG - 1/8" PIPE (Bowl Drain)	1
13	C130-4	WASHER - SHAFT THRUST	1	45	T301S8-14	SCREW - BOWL to BODY (Long)	2
14	†T52-57	RETAINER - THROTTLE SHAFT PACKING	2	46	T301S8-9	SCREW - BOWL to BODY (Short)	1
15	†T48-9	WASHER - THROTTLE SHAFT PACKING	2	47	†C141-4-6	GASKET - FLANGE (Wisconsin No. QC-12-A)	3
16	C9-75	BUSHING - THROTTLE SHAFT	2	(Not Illust.)	C162-62	AUTO. CHOKE ASSEMBLY for 5	1
17	†C46-49	NEEDLE - IDLE ADJUSTING	1		B190-30A	AUTO. CHOKE ADAPTER ASSEMBLY for 5	1
18	C111-155	SPRING - ADJUSTING NEEDLE	1		C146-25	AUTO. CHOKE ADAPTER GASKET for 5	1
19	C21-42	PLATE - THROTTLE	1		C181-296	GASKET SET	1
20	†T31555-4	SCREW - THROTTLE PLATE	2		LQ-37	REPAIR KIT	1
21	N. S. S.	ROLL PIN - THROTTLE LEVER	1				
22	T8S8-10	SCREW - LEVER STOP for 1, 2, 3, 4, 5	1				
23	CR27-241	LEVER and STOP - THROTTLE for 1, 2	1				
	CR27-241-1	LEVER and STOP - THROTTLE for 4	1				
	CR27-307	LEVER and STOP - THROTTLE for 3	1				
24	C29-1037	SHAFT and LEVER - THROTTLE for 1, 2	1				
	C29-1429	SHAFT and LEVER - THROTTLE for 3	1				
	C29-1386	SHAFT and LEVER - THROTTLE for 4, 5	1				
25	N. S. S.	SHAFT - THROTTLE	1				
Not Ill.	T52-24	WASHER - THROTTLE LEVER SPACER for 4, 5	1				
26	N. S. S.	BODY - THROTTLE	1				
27	†CR37-1x1	PLUG - CHOKE SHAFT HOLE for 1, 2, 3, 4	1				
28	C102-113	PLATE - CHOKE for 1, 2, 3	1				
	C102-123	PLATE - CHOKE for 4	1				
	C102-129	PLATE - CHOKE for 5	1				
29	†T31555-4	SCREW - CHOKE PLATE	1				
30	*T56-20	FIBER WASHER - FUEL VALVE SEAT	1				
31	†C81-17-35	VALVE and SEAT - FUEL	1				
32	C66-96-40	JET - DISCHARGE for 1	1				
	C66-104-42	JET - DISCHARGE for 2, 3	1				
	C66-104-45	JET - DISCHARGE for 4, 5	1				
33	†*T56-73	FIBER WASHER - WELL	1				
34	C76-50-1	WELL - METERING	1				
35	†C120-18	AXLE - FLOAT	1				
36	C85-97	FLOAT ASSEMBLY	1				
37	†*C142-55	GASKET - BOWL to BODY	1				
38	C52-2-12	JET - IDLE	1				
39	B3-98A	BOWL - FUEL for 1, 2, 3	1				
	B3-129A	BOWL - FUEL for 4, 5	1				
40	†*T56-24	FIBER WASHER - MAIN JET	1				
41	C52-7-34	JET - MAIN for 1	1				
	C52-7-38	JET - MAIN for 2, 3	1				
	C52-7-41	JET - MAIN for 4, 5	1				
42	†*T56-23	FIBER WASHER - PASSAGE PLUG	1				

† Parts Included in Repair Kit
* Gasket Set

N.S.S. Not Sold Separately

NOTE: The Idle Air Bleed Bushing and Well Vent Bushing are calibrated parts of the Throttle Body (item 26) and are not readily removable.

Order parts from nearest **SERVICE STATION** shown in directory following parts list.
IMPORTANT: Always give Model, Specification and Serial Numbers as shown on name plate.

SERVICE INSTRUCTIONS

Y-128 Series

FAIRBANKS-MORSE TYPE FM-X4B7D

Wisconsin Motor Part No. Y-128-S1, For Model V-461D Engine

GENERAL DESCRIPTION

Fairbanks-Morse Type FM-X4B7D Magneto is designed and engineered to provide quick easy starting and maximum dependability of operation with minimum service. The compact alnico magnetic rotor assures an intensely hot spark under most operating conditions.

SERVICE PROCEDURE

The first step in magneto field servicing is to examine the magneto for corroded high tension towers, broken wires, or high tension wires not pushed far enough into the magneto tower to make good contact.

Then test the ignition spark while the engine is being cranked. Hold the ignition wire 1/4 in. away from the engine block. If a strong spark is observed, the magneto is not the cause of the engine malfunction. If no spark is seen, proceed with servicing the magneto.

SERVICING BREAKER POINTS

Remove the end cap cover, distributor rotor and the end cap. Then inspect the breaker points for pitting, oxidation and shorting. If points are worn or shorted, they should be replaced.

To remove the point set, take out the breaker arm terminal screw releasing the breaker arm spring, coil lead and condenser lead. Remove the fulcrum pin snap ring and slide the breaker arm off the fulcrum pin. Remove the contact support locking screws and lift off the contact support.

The installation of new points is the reverse of the removal. After the points have been installed, they should be adjusted to the correct clearance of *0.015 inch* at high point of cam. Be sure the points are clean and bright before adjusting them. Insert a screwdriver in the slot of the support bracket and pivot it between the two small bosses on the bearing support until the desired clearance is obtained. Then clean the points again before sealing the magneto.

FIELD SERVICE NOT RECOMMENDED

The cam wick, if dry or hard, should be replaced with a new factory impregnated wick. Other than this the Type FM-X4B7D Magneto does not require field lubrication. No attempt should be made to oil or grease the magneto bearings. The magneto lubricant should

be replaced only during the overhaul of the magneto by a Fairbanks-Morse authorized service station using recommended lubricant and factory engineered parts.

Coil and condenser replacement while simple are not recommended unless adequate test equipment is available. Under no circumstances should any attempt be made to remove the magnetic rotor from the housing unless specific instructions for releasing the shaft are available.

TIMING THE MAGNETO TO THE ENGINE

If the magneto has been removed from the engine for servicing, the operator must follow the engine manufacturer's instructions for timing the magneto to the engine. Refer to 'Magneto Timing' in engine instruction manual. When installing the magneto on the engine, be sure the magneto is properly attached and that the housing to engine gasket is in good condition.

SPECIAL DRIVE GEAR

The magneto is equipped with a special drive gear mounted directly on the impulse coupling. If it is necessary at any time to remove the drive gear, special care must be exercised in reassembly. It is possible to be off 180° in mounting the gear, with relation to the correct location of the timing mark on the gear.

Assemble gear as follows: Remove magneto end cap cover and turn distributor rotor until it is in firing position for No. 1 cylinder, as illustrated in *Fig. A*. Retain rotor in this position and fit the drive gear to the impulse coupling lugs so that the prick punch mark on front of gear is located as shown.

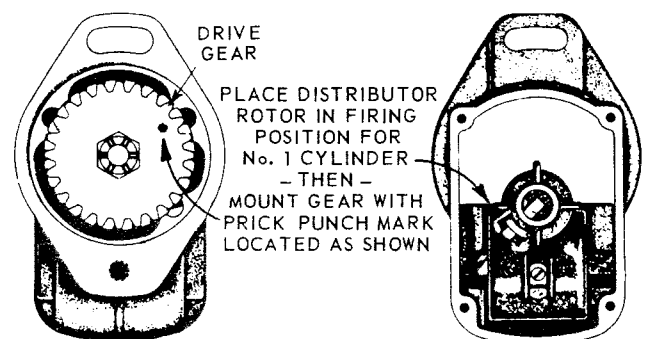
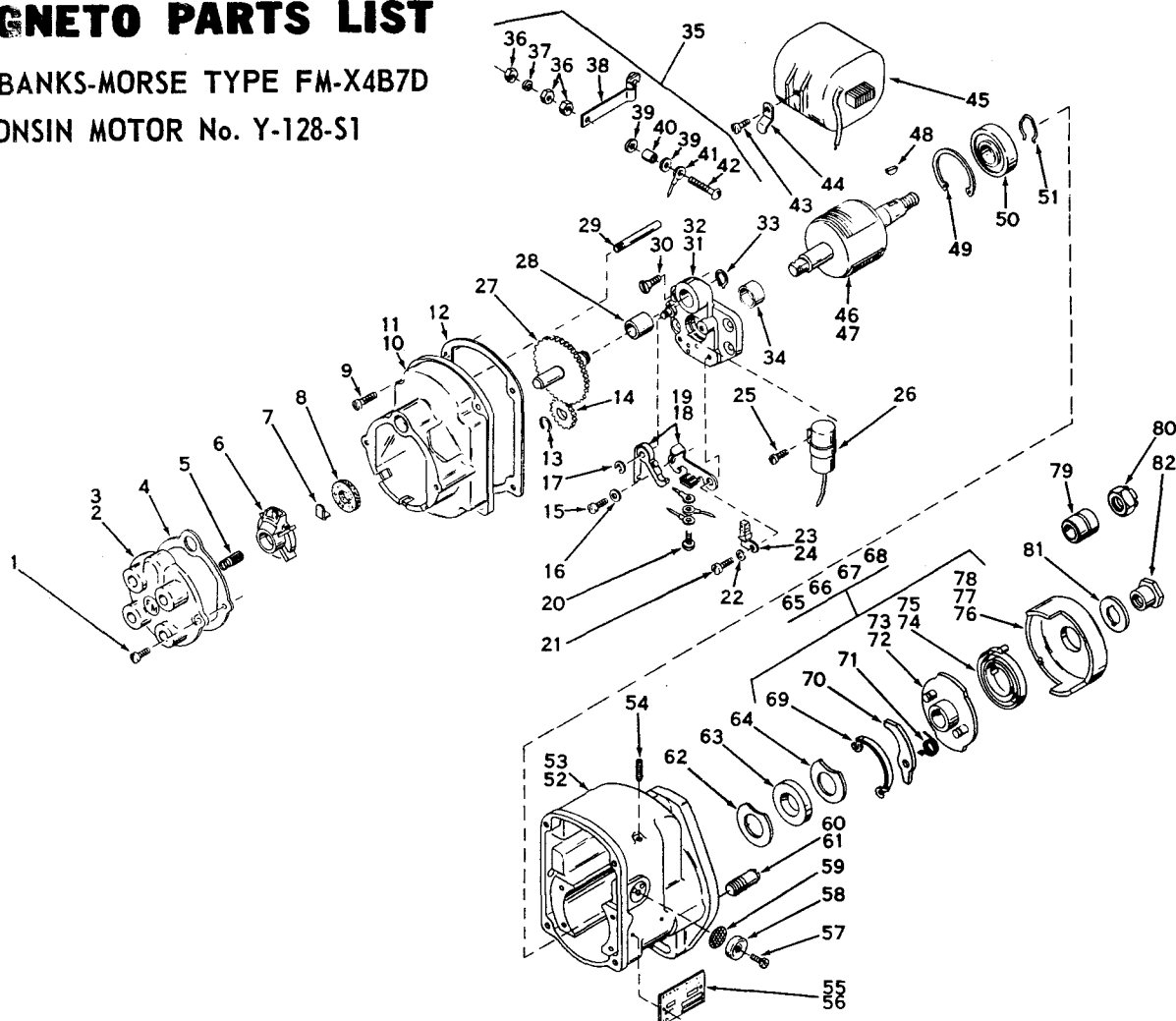


Fig. A, DRIVE GEAR MARKING AND ASSEMBLY

MAGNETO PARTS LIST

FAIRBANKS-MORSE TYPE FM-X4B7D

WISCONSIN MOTOR No. Y-128-S1



Ref No	FM Part Number	Description	No Req
1	8S9D	Cover screw, 8-32 x 9/16	2
3	W800	End cap cover	1
4	B682	End cap cover gasket	1
5	E2460B	Brush and spring	1
6	M2765	Distributor rotor	1
7	A2766	Rotor spring clip	1
8	G2501	Shaft seal washer	1
9	10814D	End cap screw, 10-24 x 7/8	4
10	GY2430	End cap	1
12	H2498	End cap gasket	1
13	D1498	Rotor gear snap ring	1
14	Q5952	Rotor gear	1
15	6S6U	Support screw, 6-32 x 3/8	1
16	D2458	Support screw washer, #6	1
17	C1498G	Fulcrum pin snap ring	1
18	A2437A	Point set - clockwise	1
20	6S6Z	Terminal screw, 6-32 x 3/8	1
21	8S6U	Support screw, 8-32 x 3/8	1
22	B5969	Support screw washer, #8	1
23	G2788	Cam wick - clockwise	1
25	8S5NA	Condenser screw, 8-32 x 5/16	1
26	AXMR2433	Condenser	1
27	Y5939	Distributor shaft and gear	1
28	D5950C	Distributor bearing	1
29	J983A	Lead rod	1
30	8S6G	Support screw, 8-32 x 3/8	4
31	X4631	Bearing support	1
33	G1498	Distributor shaft snap ring	1
34	A5950A	Cam end bearing	1
35	12514C	Switch assembly	1
36	8N1	Switch screw nut	3
37	8LW5	Switch screw lockwasher	1

Ref No	FM Part Number	Description	No Req
38	M2514	Insulated lever	1
39	C6018	Insulating washer	2
40	K2457A	Insulating bushing	1
41	J2499A	Wire assembly	1
42	8S14N	Switch screw, 8-32 x 7/8	1
43	6S4U	Clip screw, 6-32 x 1/4	1
44	D6120	Coil clip	1
45	R2477C	Coil	1
46	HW2480	Magnetic rotor	1
48	3K1	Key	1
49	B1498B	Bearing snap ring	1
50	C5949	Drive end bearing	1
51	B1498D	Shaft snap ring	1
53	SU2425	Housing	1
54	31SS14A	Coil setscrew - 5/16-24 x 7/8	2
55	A195	Name plate	1
57	6S4U	Cover screw, 6-32 x 1/4	2
58	B6030A	Vent cover	2
59	C6032B	Vent screen	2
61	S2568	Pawl stop pin	1
62	A2492C	Seal inner washer	1
63	G3861	Shaft seal	1
64	A2492A	Seal outer washer	1
65	UU2563C	Coupling complete	1
69	A1498J	Pawl lock spring	1
70	Q2566	Coupling pawl	2
71	S5963	Pawl spring	2
73	S2563	Hub assembly	1
75	E2565	Coupling spring	1
78	AZ5957	Coupling shell	1
79	F2572	Gear bushing	1
80	M2570	Coupling nut	1