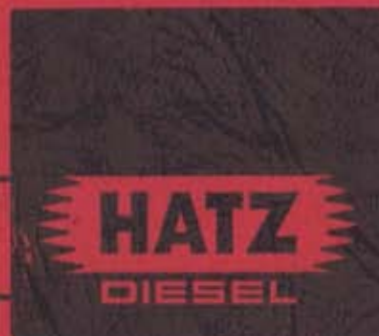


MOTORENFABRIK  
HATZ KG  
RUHSTORF/ROTT

Telephone: (08531) 322-326  
Telex: 05 7260



## SPARE PARTS LIST

for

**HATZ-Diesel engines**  
**aircooled**

Spare parts list

### Engine types

**E 80 G**

**E 85 G**

**E 89 G**

**E 80 FG**

**E 85 FG**

**E 89 FG**

8399 Ruhstorf-Rott    Railway station: Ruhstorf  
Postfach 12/13        Cables: Hatzmotor Ruhstorfadrott

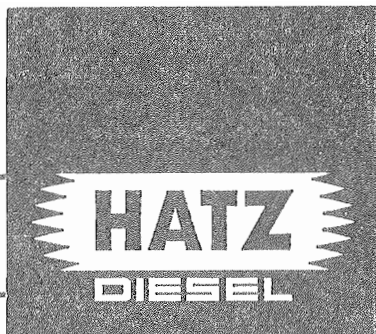
Protection tax DM 2.-

MOTORENFABRIK  
HATZ KG  
RUHSTORF/ROTT

---

Telephone: (085 31) 322-326  
Telex: 05 7260

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# SPARE PARTS LIST

for

**HATZ-Diesel engines**  
**aircooled**

## Engine types

**E 80 G**

**E 85 G**

**E 89 G**

**E 80 FG**

**E 85 FG**

**E 89 FG**

---

**8399 Ruhstorf-Rott**    **Railway station: Ruhstorf**

**Postfach 12/13**

**Cables: Hatzmotor Ruhstorfadrott**

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Protection tax DM 2.—

# HATZ-Service

## Europe

**HATZ****Belgien**

Belgium  
Belgique  
Belgio  
Belgica

**Waremmе**

\* Import Moes S.P.R.L.  
Chaussée Romaine  
4370 Waremmе

(0 19) 324.96

Cables: Impormoes  
Waremmе

**Dänemark**

Denmark  
Danemark  
Danimarca  
Dinamarca

**Taastrup**

\* Dansk Wimex A/S.  
Kogevej 32  
2630 Taastrup

(01) 99 60 66

Telegr.: Wimexdan

**Großbritannien**

Great Britain  
Angleterre  
Inghilterra  
Inglaterra

**Earl Shilton**

\* Hatz Concessionaires Ltd.  
49 Church Street,  
Earl Shilton-Leicester LE9 7EN

(04 55) 4 36 45

Telex: 341693

**Aberdeen**

Thomas W. Stewart & Co. Ltd.  
Craigshaw Road  
West Tullos  
Industrial Estate  
Aberdeen

25127

**Cardiff**

Plant Repairs & Services  
(South Wales) Ltd.  
Penarth Road  
Cardiff - South Wales

02 22 — 70 73 41

Telex: 497345

**Carlisle**

Rickerby Ltd.  
Currock Road  
Carlisle - Cumberland

Carlisle 2 75 21

Telex: 64181

**Chelmsford**

Chelmsford Plant Sales Ltd.  
Regina Road  
Chelmsford - Essex

6 85 79

54601

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Großbritannien  
Great Britain  
Angleterre  
Inghilterra  
Inglaterra

**Edinburgh**  
Construction Tools Electric Co.  
26, Ballantine Road  
Leith

031 554 6675

**Glasgow**  
Stewart Plant Sales Ltd.  
Townmill Road  
Glasgow G 31 3AR

0 41 --5 54--68 81  
Telex: 77278

**Heywood**  
Frank K. Miles (Spares) Ltd.  
Back Manchester Street  
Heywood--Lancs.

07 06--60 128/9

**Leeds**  
Robson (Power Tools) Ltd.  
12, Wortley Moor Lane  
Leeds

63 23 11

**Lidd**  
Obart (B.M.) Ltd.  
18, New Street  
Lidd--Kent

Lidd 20 20 8

**Lincoln**  
Dolan Plant Sales Ltd.  
The Quarry  
Waddington

Waddington 432  
Telex: 56321

**London**  
Lewis & Lewis Ltd.  
School Road  
North Acton  
London NW 10

01 --965--6757

**Meriden**  
David Barton Ltd.  
Walsh Lane  
Meriden - Warwicks

0 67--62 -- 354/399

Großbritannien Great Britain Angleterre Inghilterra Inglaterra	<b>Nottingham</b> Munro Plant Ltd. Lenton Works 400, Derby Road Nottingham  <b>Uttoxitea</b> Trenchex Plant Sales Ltd. Dove Fields Uttoxitea, Staffs. ST 14 8ER  <b>Wimborne</b> Lewis & Lewis (Southern) Ltd. Fern Down Industrial Estate Statehill Wimborne—Dorset	7 42 77          Uttoxitea 37 31 Telex: 36552          Fern Down 020—17—6171
<b>Northern Ireland</b>	<b>Belfast</b> Robert Craig & Sons (Engineering) Ltd. Great George's Street Belfast - Ireland	02 32 — 3 29 71 Telex: 74494
<b>Eire</b>	<b>Dublin</b> * Diesel Services Limited 20—24 Upper Sheriff Street Dublin — 1 / Rep. of Ireland	4 77 18 Telegramm: Dieserv
<b>Finnland</b> Finland Finlande Finnlandia Finlandia	<b>Helsinki</b> * Hanke Oy Levytie 4 SF 00810 Helsinki 81	Tel. 780 633 Telex: 12-1333 SF Cables: Hanke Sf. Helsinki
Frankreich France France Francia Francia	<b>Aulnay-sous-Bois</b> ** Société Hatz-France 9—13, rue Henri Becquerel Zone Industrielle 93 — Aulnay-sous-Bois	929.58.46 Telex: 60 007

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\*\* = Niederlassung, Factory branch, Filiale, Establecimiento, Colónia

**Griechenland**

Greece  
Grece  
Grecia  
Grecia

**Thessaloniki**

\* Apostolidis & Co. AG  
Maschinenfabrik u. Gießerei  
Industrial Area Sindos  
Thessaloniki

982 11/13/15

**Island**

Iceland  
Islande  
Island  
Islandia

**Reykjavik**

\* Landssmidjan  
Purchasing Department  
Reykjavik

20680 (10 Lines)  
Cables:  
Landssmidjan

**Italien**

Italy  
Italie  
Italia  
Italia

**Milano**

Loro & Parisini  
Via Savona 129  
I - 20144 Milano

470.101 — 470.134  
(15 Linee)  
Magutt-Milano  
Telex: 32 407

**Luxemburg**

Lusenburg  
Luxembourg  
Lussenburgo  
Lusemburgo

**Esch-sur-Alzette**

Polyma S.A.  
Coin rues Fr. Conven et  
H. Dunant  
Esch-sur-Alzette  
(Grand Duché de Luxembourg)

54.79.66

**MALTA**

MALTA  
MALTE  
MALTA  
MALTA

**Gozo**

Michael Galea  
98, Racecourse Street  
Xaghra, Gozo

Gozo 76568  
Cable Address  
Pergolate

**Niederlande**

Netherlands  
Pays-Bas  
Olanda  
Países Bajos

**Culemborg**

\*\*Hatz Nederland B.V.  
Postbus 55  
Anthonie van Diemenstraat 38  
Culemborg

(03450) 4147  
Telex: 0044/47787

**Norwegen**

Norway  
Norvege  
Norvegia  
Norvega

**Oslo**

\* Industriediesel A/S  
Kjelsasveien 174  
Korsvoll — Oslo 8

(02) 23 61 80  
Cables: Nortrade

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<b>Österreich</b> Austria Autriche Austria Austria	<b>Wien</b> Otto Eisenwagen A-1030 Wien VII Neubaugasse 56	Tel. 93 20 772
<b>Portugal</b> Portugal Portugal Portogallo Portugal	<b>Porto</b> * Ed. Ferreirinha & Irmao, Lda. Motores e Maquinas EFI, S.A.R.L. Rua da Boa Nova 125/163 Caixa postal 44, Porto	2 55 71/2 Cables: Edfir-Porto Telex: 22 322 EDFIR P.
<b>Schweden</b> Sweden Swede Svezia Sueca	<b>Stockholm-Bandhagen</b> * T. Lindstam AB Harpundsvägen 201 Box 31 124 21 Bandhagen 1	08/47 25 75 Telex: 005 411 164 ü. Olsonwright Stockholm
<b>Schweiz</b> Switzerland Suisse Svizzera Suiza	<b>Altendorf</b> **Motorenfabrik Hatz AG Lidwil CH-8852 Altendorf	Tel.: 055 632383/84 Telex: 75 706 Telegr.: Hatzmotor Altendorf SZ
<b>Spanien</b> Spain Espagne Spagna Espana	<b>Figueras (Gerona)</b> * Soci��t�� Industrias FITA San Lazaro 54 Figueras (Gerona)	241 300 Telex: 0058 57177
<b>T��rkei</b> Turkey Turquie Turchia Turcia	<b>Gaziosmanpasa-Istanbul</b> * Pancar-Motor Sanayi ve Ticaret T.A.S. Yassiviran Asfalti ��zerinde Gaziosmanpasa-Istanbul	Tel.: 23 31 50/51/56 Telegr.: Pancarmotor Telex: 22 829 pamo tr

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\*\* = Niederlassung, Factory branch, Filiale, Establecimiento, Col  nia



## Africa

### Äthiopien

Ethiopia  
Ethiopie  
Etiopa  
Etiopa

### Addis Ababa

\* Leon's Mercantile  
Leon K. Erzingatzian  
Abuna Petros Street  
P.O.Box 249,  
Addis Ababa

114 553, 111 765,  
112 501  
Workshop: 116 836  
Telex: 21191 Addis  
Cables:  
LERZINGATZIAN  
Addis Ababa  
  
77.26.47/77.29.59  
DIESELEC - ALGER

### Algerien

Algeria  
Algerie  
Algeria  
Algeria

### Alger

\* Sté. Dieselec  
Rue Kaddour Rahim  
Hussein-Dey  
Alger

### Angola

Angola  
Angola  
Angola  
Angol

### Luanda

\* Ed. Ferreirinha & Irmao (Angola)  
— Motores e Máquinas EFI,  
SARL  
P.O.Box 306  
Rua Duarte Pacheco Pereira, 24  
Luanda

30343, 30344, 30345  
PBX 4101/4102  
SOTECMA LUANDA

### Elfenbeinküste

Ivory Coast  
Cote-D'Ivoire  
Costa-D'Avorio  
Costade Marfil

### Abidjan

\* Societe Abidjan-Industrie (ABI)  
B.P. 343  
Abidjan — Côte d'Ivoire

35-24-60, 35-43-60  
Telex: TELONDE  
ABIDJAN 742

### Gabon

Gabun  
Gabon  
Gabon  
Gabon

### Libreville

\* SO. GA. TOL.  
B.P. 706  
Libreville

214 - 77  
Telex: 5259 GAB  
Cable: SOGATOL

### Gambia

Gambia  
Gambia  
Gambia  
Gambie

### Banjul

\* Breckwoldd + Co. (Gambia) Ltd.  
P.O.Box 281 and 282  
23, Buckle Street  
Banjul

441  
cable: brewo banjul  
telex: booth bth gv 21  
(please phone mr.  
rosenstock)

\* Vertretung, Representation, Représentation, Representación, Rappresentaza



**Ghana**

Ghana

Ghana

Ghana

Ghana

**Kamerun**

Camerun

Cameroun

Cameroun

Camerun

**Kanarische Inseln**

Canari Islands

Iles Canaries

Isole Canarie

Islas Las Canarias

**Kenia**

Kenya

Kenya

Kenya

Kenya

**Libyen**

Libya

Libye

Libia

Libia

**Mali**

Mali

Mali

Mali

Mali

**Accra**Machinery Service Division  
of GhanaConsolidated Machinery &  
Trading Comp. Ltd.

P.O.Box 3400

Knutsford Avenue

Accra

**Douala**

\* Sté. Socomi

Boite Postale 609

Douala

**Las Palmas**

\* Enrique Siemens

Suc. L. Siemens

Box 252

Buenos Aires, 7--11

Las Palmas de Gran Canaria

**Nairobi**

\* Wigglesworth &amp; Co. Kenya Ltd.

P.O.Box 30092

Kingston Road

Nairobi Industria Area

Nairobi

**Benghazi**

\* Mchamed Feitury Organisation

P.O.Box 3010

Benghazi

**Dakar**

Ets. Freysseline &amp; Fils

B. P. No. 1143

Rond-Point Autoroute -

Lamine Gueye

Dakar / Senegal

63921

Telex: 2008

42-35-40 à Douala

Somatin Douala

Telex: 5272 Douala

220411 - 215473

Telex: 95149 ENSIE E

Telegr.: Siemens -

Las Palmas

Tel.:

Nairobi 57022/32

Telex: Nairobi 22241

Telegr.: PETTINATO

NAIROBI

5404

Cable: FEITURYCO

BENGHAZI

369-99

Cables:

FREYSSELINE

DAKAR

Telex: 419

\* Vertretung, Representation, Représentation, Representación, Rappresentaza

**Marokko**

Maroc  
Marocco  
Marruecos  
Marueco

**Casablanca**

Somatel  
68, rue Mohammed Diouri  
Casablanca

608-41

Cable: SOMATEL-  
CASABLANCA  
Telex: 21835

**Mocambique**

Mocambique  
Mozambique  
Mozambico  
Mozambique

**Lourenco Marques**

\* Soc. Africana de SAFRIMEX  
Importacao e Exportacao, Lda.  
Caixa postal 1859,  
Lourenco Marques

5156

Safrimex L. M.

**Nigeria**

Nigeria  
Nigeria

**Lagos**

\* U.A.C. of Nigeria Ltd.  
M. & E. Division  
P.M. BAG 1015  
Ebute Metta  
Lagos/Nigeria

Tel.: Lagos 43 310

Telegr.: Mequip/  
Lagos

**Sao Tome**

Sao Tome  
Sao Tome  
Sao Tome  
Sao Tome

**Sao Tome**

\* L. Batista  
Caixa Postal 76  
Sao Tome

**Senegal**

Senegal  
Sénégal

**Dakar**

\* Ets. Freysseline & Fils  
B.P. No. 1143  
Rond-Point Autoroute -  
Lamine Gueye  
Dakar

369-99

Cables:  
FREYSSSELINE  
DAKAR  
Telex: 419

**Sudan**

Sudan  
Soudan

**Khartoum**

\* The Walter Drilling &  
Engineering Co. Ltd.  
P.O.Box 1073  
Khartoum

31552 — 31946

Telegr.:  
„WADRICOLI“

\* Vertretung, Representation, Représentation, Representación, Rappresentaza

**Südafrika**

South Africa  
 Afrique Du Sud  
 Africa  
 Africa Del Sur

**Johannesburg**

\* HATZ Diesels South Africa  
 (PTY) Ltd.  
 Midmacor House,  
 Cor. Cross & Bosman Streets  
 Ophirton P.O.Box 6036  
 Johannesburg

Tel.: 836-0721/8  
 Telegr.: MIDCOR  
 Telex: J 7628

**Süd-West-Afrika**

South West Africa  
 Sud-West-Africa  
 Africa del Sur Este

**Windhoek**

South West Engineering  
 Company (Pty.) Ltd.  
 186, Jan Jonkerweg,  
 Ausspannplatz  
 P.O.Box 5052  
 Windhoek

22463  
 Telex: 48-707  
 Telegr.: Swenco

**Tunesien**

Tunesia  
 Tunesia  
 Tunez

**Tunis**

\* Sté. SO TU MO S.A.  
 Société Tunisienne des Moteurs  
 131, Avenue de la Liberté  
 Tunis

289.355 —  
 3 lignes groupées

**Uganda**

Uganda  
 Ouganda

**Kampala**

\* Wigglesworth & Co.  
 Uganda Limited  
 P.O.Box 7127  
 Plot 71, Seventh Street  
 Kampala

Tel.: Kampala 42628  
 Telegr.: PETTINATO  
 KAMPALA

**Republique Du Zaire**

Zaire  
 Zaire

**Kinshasa**

Bureau Technique  
 BIA S.P.R.L.  
 B.P. 8843  
 Route Trafic-Lourd-Limete  
 Kinshasa 1

77797 - 98  
 Cable: BIA-Kinshasa  
 Telex: 275 BIA-KIN

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**Zentral-Afrikanische  
Republik**

Central African

Republic

Republique Centre-  
Afrique (R.C.A.)

Republica Centrale  
Africa

Republica Central  
Del Africa

**Bangui**

\* Oubangui-Automobile

B.P. 158.524 & 1379

Bangui

Telex: Bangoto 5230

Adr.: télégraphique:

Banguiauto-Bangui

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## America

### **Bolivien**

Bolivia  
Bolivie  
Bolivia  
Bolivia

### **La Paz**

Importadora Zbinden y Cia. S.A.  
Calle Jenaro Sanjines No. 348  
La Paz

2-3225

### **Brasilien**

Brazil  
Bresil  
Brasile  
Brasil

### **Caxias do Sul-RGS**

\* Agrale S.A.  
Tratores e Motores  
Rua Sinimbu, 1260  
Caixa postal, 1311  
95.100 - Caxias do Sul-RGS

213500

Telegr.: „AGRALE“  
Telex: Publico 28892

### **Canada**

Canada  
Canada  
Canada  
Canada

### **Alberta**

Mumford Medland Ltd.  
5711 6th Street, S.E.  
Calgary

Mumford Medland Ltd.  
10809 — 105th Avenue  
Edmonton

### **British Columbia**

Pacific Engines & Equipment  
Ltd.  
1391 William Street  
Vancouver 3,  
V5L 2P6

683 — 4484

Telex: 04-54463

### **Manitoba**

Mumford Medland Ltd.  
576 Wall Street  
Winnipeg 10

### **New Brunswick**

Consolidated Engines &  
Machinery Co. Ltd.  
P.O.Box 848  
Moncton

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Canada  
Canada  
Canada  
Canada  
Canada

**Newfoundland**

Seaboard GM Diesel Ltd.  
710 Windmill Road  
Dartmouth, Nova Scotia

**Nova Scotia**

Seaboard GM Diesel Ltd.  
710 Windmill Road  
Dartmouth

**Ontario**

Ontario Diesel Ltd.  
Box 115  
80 Federal Road  
Welland

735 / 0282  
Telex: 21-5152

**Prince Edwards Is.**

Consolidated Engines &  
Machinery Co. Ltd.  
P.O.Box 848  
Moncton, New Brunswick

**Quebec**

Consolidated Engines &  
Machinery Co. Ltd.  
8550 Delmeade Road, Town of  
Mount Royal  
Montreal 9

**Saskatchewan**

Mumford Medland Ltd.  
1250 St. John Street  
Regina

Mumford Medland Ltd.  
1729 Ontario Avenue  
Box 1525  
Saskatoon

<b>Chile</b> Chile Chili Cile Chile	<b>Santiago de Chile</b> * Robert Bosch de Chile Equipos y Maquinarias S.A. Av. San Eugenio 68 - Nunoa P.O.Box 832 Santiago de Chile	259648 Telex: Emasa SGO 353 Cables: CHILEBOSCH
<b>Columbien</b> Columbia Columbie Columbia Columbia	<b>Barranquilla</b> * General Sales Corporation, Ltda. Calle 37 No. 46—03 Airmail Box 395, P.O.Box 519	12-501 cable: Maeco
<b>Costa Rica</b> Costa Rica Costa Rica Costa Rica Costa Rica	<b>San Jose</b> * Electro Mercantil Ltda. Apartado 10.091 San Jose, C.A.	216788 - 216794 Elmerc Sanjose Costa Rica Telex: 222
<b>Ecuador</b> Ecuador Equateur Ecuador Ecuador	<b>Guayaquil</b> * Cia. Comercial Pan-Americana C.A. General Cordova No. 918—922 Apartado 4964 Guayaquil	306 410 Cable: Panamericana Guayaquil
<b>El Salvador</b> El Salvador El Salvador El Salvador El Salvador	<b>San Salvador</b> * TEMSA Tecnico Mercantil S.A. 3 Calle Poniente 314, frente a la Cruz Roja San Salvador	214367
<b>Guatemala</b> Guatemala Guatemala Guatemala Guatemala	<b>Ciudad de Guatemala</b> * TEMSA Tecnico Mercantil S.A. 8 Avenida 15—17 Zona 1 Apartado 659 Guatemala City	21 418 Telegr.: Temerca

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<b>Guayana</b> Guayana Guayana Guayana Guayana	<b>Georgetown</b> Wieting & Richter, Ltd. P.O.V. 473 Waterstreet Georgetown	
<b>Honduras</b> Honduras Honduras Honduras Honduras	<b>Tegucigalpa</b> Corporacion Comercial S.A. de C.V. Apartado 207 Tegucigalpa	22-6790 Cable: MOTZ
<b>Jamaika</b> Jamaica Jamaïque Jamaica Jamaica	<b>Kingston</b> ATCO Ltd. 36, Hagley Park Road P.O.B. 412 Kingston 10, Jamaica, W.I.	936-4935-8 Cable: ATCOLIM
<b>Mexico</b> Mexico Mexique Messico Mexico	<b>Mexico</b> Motores de Combustion Interna Wisconsin S.A. Ave. Juarez No. 157 Mexico 1. D.F.	
<b>Peru</b> Peru Perou Peru Peru	<b>Lima</b> * Europa Diesel S.A. Apartado (P.O.B.) 1568 Lima 1	45 32 30 Telegr.: EUDISA-LIMA
<b>Puerto Rico</b> Puerto Rico Puerto Rico Puerto Rico Puerto Rico	<b>San Juan</b> Motorcentro Destro Inc. G.P.O. 3707 San Juan	725-7513
<b>Surinam</b> Surinam Suriname Guayana Holandesa Guayana Holandesa	<b>Paramaribo</b> Curacaosche Handel-Maatschappij (Suriname) N.V. Postbus 1819 Paramaribo	4343 curtrading paramaribo/ suriname

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**USA**

**USA**

**USA**

**USA**

**USA**

**Wisconsin**

\* Teledyne Wisconsin Motor  
1910 South 53rd Street  
Milwaukee/Wisconsin 53246

414-384-5800

Telex: 26629

**Alabama**

Parts Service Company  
225 Clayton Street  
Montgomery

Alabama

36104

**Alaska**

B & C Supply Corp.  
P.O.Box 1679  
Anchorage

Alaska

99501

Wagner Industrial Inc.  
2000 S.E. 11th Ave.  
Portland

Oregon

91214

**Arizona**

Pratt-Gilbert  
P.O.Box 2230  
Phoenix

Arizona

85002

**Arkansas**

RCH Distributors, Inc.  
P.O.Box 173  
3150 Carrier  
Memphis

Tennessee

38101

Keeling Supply Company  
P.O.Box 778  
North Little Rock

Arkansas

72206

**California**

E. E. Richter & Son, Inc.  
6598 Hollis Street  
Emeryville

California

94608

Lanco Engine Services, Inc.  
12915 Weber Way  
Hawthorne

California

90252

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USA  
USA  
USA  
USA  
USA

**Colorado**

Central Equipment Co.  
4477 Garfield Street  
Denver

Colorado  
80216

**Connecticut**

John Reiner & Company, Inc.  
94—15 150th Street  
Jamaica

New York  
11435

**Delaware**

Jos. L. Pinto, Inc.  
719 E. Baltimore Pike  
East Lansdowne

Pennsylvania  
19050

Ronconi Equip. Co.  
8815 Telegraph Rd.  
Lorton, VA 22079

Virginia  
22079

**Florida**

Marine Industrial Equipment  
Corp.  
P.O.Box 39, Station G  
710 Haines Street  
Jacksonville

Florida  
32206

P. H. Neff & Sons, Inc.  
7270 N.W. 41st Street  
P.O.Box 44—216  
Miami

Highway Equip. & Supply Co.  
1016 West Church Street  
Orlando

Florida  
32802

Industrial Supply Corp.  
P.O.Box 5116  
Tampa

Florida  
33605

Parts Service Company, Inc.  
225 Clayton Street  
Montgomery

Alabama  
36104

USA  
USA  
USA  
USA  
USA

**Georgia**

Blalock Machinery &  
Equipment Co. Inc.  
225 Forsyth Street, S.W.  
Atlanta

Wilder Motor Co.  
301—15th Ave.  
Nashville

**Hawaii**

Lanco Engine Services, Inc.  
3140 Koapaka St.  
Honolulu

**Idaho**

Arnold Machinery Co. Inc.  
P.O.Box 77425  
111 E. 39th Street  
Boise

Arnold Machinery Company,  
Inc.  
P.O.Box 2220  
Salt Lake City

Wagner Industrial Inc.  
2000 S.E. 11th Ave.  
Portland

**Illinois**

Industrial Engine & Parts Co.  
1133 W. Pershing  
Chicago

Allied Construction Equipment  
Co.  
4015 Forest Park Avenue  
St. Louis

Engine Power, Inc.  
11811 W. Silver Spring Road  
Milwaukee

Georgia  
30302

Tennessee  
37203

Hawaii  
96819

Idaho  
83707

Utah  
84110

Oregon  
97214

Illinois  
60623

Missouri  
63108

Wisconsin  
53225

USA	<b>Indiana</b>	Indiana
USA	Eagle Machine Co., Inc.	46207
USA	635 E. Market Street	
USA	Indianapolis	
USA	Atlas Machine & Supply, Inc.	Kentucky
	1326—30 W. Jefferson	40203
	Louisville	
	Industrial Engine & Parts Co.	Illinois
	1133 W. Pershing Road	60623
	Chicago	
	<b>Indiana</b>	Ohio
	Cincinnati Engine & Parts	45206
	Company, Inc.	
	2863 Stanton Avenue	
	Cincinnati	
	<b>Iowa</b>	Iowa
	Port Huron Machinery Co.	50308
	301 E. Court Avenue	
	Des Moines	
	<b>Kansas</b>	Kansas
	Harley Sales Company	67202
	505 South Main Street	
	Wichita	
	<b>Kentucky</b>	Kentucky
	Womwell Automotive Parts	40501
	Co. Inc.	
	240 Clark Street	
	Lexington	
	Atlas Machine & Supply, Inc.	Kentucky
	1326—30 W. Jefferson Street	40203
	Louisville	
	Cincinnati Engine & Parts	Ohio
	Company	45206
	2863 Stanton Avenue	
	Cincinnati	

USA  
USA  
USA  
USA  
USA

**Louisiana**

Wm. F. Surgi Equipment Corp.  
1149 Tchoupitoulas Street  
New Orleans

Louisiana  
70150

**Maine**

Diesel Engine Sales &  
Engineering Corp.  
Fish Pier Road  
Boston

Massachusetts  
02210

**Maryland**

Ronconi Equipment Co.  
8815 Telegraph Rd.  
Lorton

Virginia  
22079

**Massachusetts**

Diesel Engine Sales &  
Engineering Corp.  
Fish Pier Road  
Boston

Massachusetts  
02210

**Michigan**

R. G. Moeller Co.  
14415 Meyers Road  
Detroit

Michigan  
48227

R. G. Moeller Co.  
2564 Chicago Drive, S.W.  
Grand Rapids

Michigan  
49509

Engine Power, Inc.  
11811 W. Silver Spring Drive  
Milwaukee

Wisconsin  
53225

**Minnesota**

Engine Power, Inc.  
6336 Lakeland Avenue, North  
Minneapolis

Minnesota  
55429

USA  
USA  
USA  
USA  
USA

**Mississippi**

Wm. F. Surgi Equipment Co.  
1149 Tchoupitoulas Street  
New Orleans

RCH Distributors, Inc.  
P.O.Box 173  
3150 Carrier St.  
Memphis

Louisiana  
70150

Tennessee  
38101

**Missouri**

A. A. Klughartt Machinery  
Company  
1205 Woodswether Road  
Kansas City

Missouri  
64105

Allied Construction Equipment  
Company  
4015 Forest Park Avenue  
St. Louis

Missouri  
63108

**Montana**

Midland Implement Co. Inc.  
P.O.Box 2533  
402 Daniels Street,  
N.P. Industrial Site  
Billings

Montana  
59101

**Nebraska**

Port Huron Machinery &  
Supply Company  
801-813 "Q" Street  
Lincoln

**Nevada**

E. E. Richter & Son, Inc.  
6598 Hollis Street  
Emeryville

California  
94608

Lanco Engine Services, Inc.  
12915 Weber Way  
Hawthorne (Los Angeles)

California  
90252

USA	Nevada	Utah
USA	Arnold Machinery Company, Inc.	84110
USA	2975 W. 21 St. South	
USA	Salt Lake City	
	<b>New Hampshire</b>	Massachusetts
	Diesel Engine Sales &	02210
	Engineering Corp.	
	Fish Pier Road	
	Boston	
	<b>New Jersey</b>	New York
	John Reiner & Company, Inc.	11435
	94—15 150th Street	
	Jamaica	
	Jos. L. Pinto, Inc.	Pennsylvania
	719 E. Baltimore Pike	19050
	East Lansdowne	
	<b>New Mexico</b>	New Mexico
	Central Motive Power Inc.	87101
	808 Second Street, N.W.	
	Albuquerque	
	<b>New York</b>	New York
	John Reiner & Co. Inc.	13208
	946 Spencer Street	
	Syracuse	
	John Reiner & Co., Inc.	New York
	94—15 150th Street	11435
	Jamaica	
	<b>North Carolina</b>	North Carolina
	King-Mclver Sales, Inc.	27420
	New Burnt Poplar Rd.	
	P.O.Box 30088	
	Greensboro	

USA  
USA  
USA  
USA  
USA

**North Dakota**

Northern Engine & Supply Co.  
2710 Third Avenue North  
Fargo

North Dakota  
58102

**Ohio**

Cincinnati Engine & Parts  
Co. Inc.  
2863 Stanton Avenue  
Cincinnati

Ohio  
45206

Allied Farm Equipment, Inc.  
1066 Kinnear Road  
Columbus

Ohio  
43212

Allied Farm Equipment, Inc.  
3721 Mahoning Avenue  
Youngstown

Ohio  
44515

Eagle Machine Company, Inc.  
635 E. Market Street  
Indianapolis

Indiana  
46207

**Oklahoma**

Harley Sales Company  
P.O.Box 45450  
Tulsa

Oklahoma  
74145

**Oregon**

Messrs.  
Wagner Industrial, Inc.  
2000 S. E. 11th Avenue  
Portland/Oregon 97214

Oregon  
97210

Arnold Machinery Co.  
P.O.Box 2220  
Salt Lake City

Utah  
84110



USA  
USA  
USA  
USA  
USA

**Pennsylvania**

Hamilton Equipment, Inc.  
P.O.Box 478  
Ephrata

Jos. L. Pinto, Inc.  
719 E. Baltimore Pike  
East Lansdowne

Contractors Equipment Service  
Co.  
1415 Brighton Road, N.S.  
Pittsburgh

Allied Farm Equipment, Inc.  
3721 Mahoning Avenue  
Youngstown

Pennsylvania  
19050

Pennsylvania  
15212

Ohio  
44515

**Rhode Island**

Diesel Engine Sales &  
Engineering Corp.  
Fish Pier Road  
Boston

Massachusetts  
02210

**South Carolina**

King-Molver Sales Inc.  
P.O.Box 20088  
New Burnt Poplar Rd.  
Greensboro

North Carolina  
27420

**South Dakota**

Nortern Engine & Supply  
2710 Third Avenue North  
Fargo

North Dakota  
58102

**Tennessee**

Wilder Motor Co.  
301 — 15th Avenue  
Nashville,

Tennessee  
31203

USA	Tennessee	Tennessee
USA	RCH Distributors, Inc.	38101
USA	3150 Carrier St.	
USA	P.O.Box 173	
USA	Memphis	
	<b>Texas</b>	
	Harley Sales Co.	
	8005 Sovereign Row	
	Dallas	
	Harley Sales Co.	Texas
	4427 West 12th St.	77001
	Houston	
	Harley Sales Company	Texas
	3220 Kermit Highway	79761
	Odessa	
	<b>Utah</b>	Utah
	Arnold Machinery Company, Inc.	84110
	2975 W. 21 St. S.	
	Salt Lake City	
	<b>Vermont</b>	Massachusetts
	Diesel Engine Sales &	02210
	Engineering Corp.	
	Fish Pier Road	
	Boston	
	<b>Virginia</b>	Virginia
	Ronconi Equipment Co.	22019
	8815 Telegraph Rd.	
	Lorton	
	Engine Sales & Service Co. Inc.	West Virginia
	919 Virginia Street, East	25301
	Charleston	

USA	<b>West Virginia</b>	West Virginia
USA	Engine Sales & Service Co., Inc.	25301
USA	919 Virginia Street, East	
USA	Charleston	
USA	Contractors Equipment	Pennsylvania
	Service Co.	15212
	1415 Brighton Road, N.S.	
	Pittsburgh	
	Ronconi Equipment Co.	Virginia
	8815 Telegraph Rd.	22079
	Lorton	
	<b>Wisconsin</b>	
	Engine Power, Inc.	Wisconsin
	11811 W. Silver Spring Drive	53225
	Milwaukee	
	<b>Wyoming</b>	
	Engine Power, Inc.	Wisconsin
	11811 W. Silver Spring Drive	53246
	Milwaukee	
	Central Equipment Company	Colorado
	4477 Garfield	80216
	Denver	
	Midland Implement Company	Montana
	Inc.	59101
	P.O.Box 2533	
	Billings	
	Arnold Machinery Company Inc.	Utah
	P.O.Box 2220	84110
	Salt Lake City	
<b>Venezuela</b>	<b>Caracas</b>	76 82 51, 76 54 11
Venezuela	* Motores y Maquinarias, C.A.	Cable:
Venezuela	(MYM)	BEVREL CARACAS
Venezuela	Apartado Postal 6034	
Venezuela	Caracas	

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## Asia



### **Cypem**

Cyprus  
Chypre  
Cipro  
Chipre

### **Nicosia**

Chr. Mavromatis & Sons Limited  
55, Aeschylus Street  
P.O.Box 1683  
Nicosia

63685, 65468  
Telex: 2363  
Cable: Promitheus  
Nicosia

### **Indonesien**

Indonesia  
Indonesie  
Indonesia  
Indonesie

### **Jakarta**

\* Setio Indo Trading Co.  
Sole Agent "HERBINDO"  
Jalan Hayam Wuruk 78 A  
P.O.Box 2595  
Jakarta

Tel.: 24555, 26994  
Cable: HERBCHEM

### **Iran**

Iran  
Iran  
Iran  
Iran  
Iran

### **Teheran**

\* Shoreh Trading Co. Ltd.  
188 Eisenhower Avenue  
Eskandari Road Cross  
P.O.Box 2290  
Teheran — 13

921034 - 7  
Telex: 2763 IRANIS  
Cable: Polkar  
Teheran

### **Israel**

Israel  
Israel  
Israel  
Israele  
Israel

### **Tel-Aviv**

\* W. Turnheim & Sons, Ltd.  
Engineering Office  
12, Lincoln Street  
P.O.Box 20008  
Tel-Aviv 67134

624708, 613052  
Cable: Technokrat  
TELAVIV-YAFFO  
Telex: 33 771

### **Japan**

Japan  
Japan  
Japon  
Japone  
Japon

### **Tokio**

\* Western Trading Co. Ltd.  
4-6 Roppongi  
2-Chome  
Minato-Ku  
Tokio — 106

(583) 2111  
Telex: Westraj  
0242 — 2422  
Cable: Westra

### **Kuwait**

Kuwait  
Kuwait  
Kuwait  
Kuwait

### **Kuwait**

\* Sabah International  
Merchant, Import &  
Manufacturer's Representative  
P.O.Box 1026  
Kuwait / Arabian Gulf

424 502  
Telegr.: STARFISH  
KUWAIT

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<b>Libanon</b> Lebanon Liban Libano Libano	<b>Beirut</b> * Itani & Shihab Trading Co. Patriarche Hoyek Street Khan — Antoun Bey P.O.Box 4537 Beirut	249432 - 294632 Istraco - Beirut
<b>Malaysia</b> Malaysia Malaysia Malaysia Malaysia	<b>Kuala Lumpur</b> * ENERDA SDN. BHD. 23, Jalan Sungei Besi Kuala Lumpur	Tel.: 7 11 487 Telex: KLTX 440 Cable: GOODENGINE
<b>Singapur</b>	<b>Kuala Lumpur (Malaysia)</b> * ENERDA SDN. BHD. 23, Jalan Sungei Besi Kuala Lumpur	Tel.: 7 11 487 Telex: KLTX 440 Cable: GOODENGINE
<b>Philippinen</b> Philippines Philippines Filipine Filipinas	<b>Manila</b> * MEDALIST INDUSTRIES, Inc. CCC Bldg., Buendia Avenue Makati, Rizal P.O.Box 3245 Manila	Tel.: 883051 884614 889821 Telex: 7222393 MDL PH Cable: MEDALIST
<b>Saudi Arabien</b> Saudi Arabia Arabie Saoudite Saudi Arabien Saudi Arabien	<b>Jeddah</b> ALFADEL ESTABLISHMENT TRADING — CONTRACTING Mecca Road — Km 3 P.O.Box 2349 Jeddah	Tel.: 32344 Cable: MORTACON
<b>Süd Vietnam</b> Süd Vietnam Süd Vietnam Süd Vietnam Süd Vietnam	<b>Saigon</b> * Messrs. Vinimac S.A. 747 (2nd Floor) Tran Hung Dao Saigon	

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**Taiwan**  
Taiwan  
Taiwan  
Taiwan  
Taiwan

**Taiwan**  
\* Hung Yeh Trading Corporation  
728, Chung Shan Road,  
Chung Ho Hsiang  
Taipei Hsien, Taiwan,  
Republic of China  
Mailing address:  
P.O.Box 23, Panchao,  
Taipei Hsien  
Taiwan 220, Republic of China

960140 - 5, 962141 - 5,  
965141 - 5 (15 wires)  
Cable Adresse:  
CHEM  
Telex: 31102 CHEM

Chung Hsin North Area  
Service Station  
25, Ku Ling Street, Taipei  
Taiwan 107, Republic of China

344082, 346232

Chung Hsin Central Area  
Service Station  
21-15 Kung Yuan Road,  
Taichung  
Taiwan 400, Republic of China

042 - 30241

Chung Hsin South Area  
Service Station  
82, Chung Shan Ist Road,  
Kaohsiung  
Taiwan 800, Republic of China

07 - 239071

**Thailand**  
Thailand  
Thailande  
Thailandia  
Thailandia

**Bangkok**  
\* Ekman & Co. Ltd.  
561/1, Soi (Soi Swasdee)  
Sukhumvit Road  
P.O.Box 11-161  
Bangkok

Telex: BK 2753  
Telegr.:  
„Ekmans Bangkok“

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## Australia



### Australien

Australia  
Australie  
Australia  
Australia

### Neu-Kaledonien

New Caledonia  
Nouvelle-Calédonie  
Nouva-Caledonia  
Nueve Caledonia

### Tahiti

Tahiti  
Tahiti  
Tahiti  
Tahiti

### Neuseeland

New Zealand  
Nouvelle-Zélande

### Neuseeland

New Zealand  
Nouvelle-Zélande

### Bankstown N.S.W. 2200

\* CLAE ENGINE Sales & Service  
31-35 Hoskins Ave.  
P.O.Box 204  
Bankstown W.S.W. 2200

### Noumea

\* ABC-Import  
Ste Minier-Mouldous & Cie  
28 Rue de Verdun  
B.P. 617  
Nouméa  
Nouvelle-Calédonie  
Pacifique Sud

### Papeete

\* Société d'Oxygène et  
d'Acétylène d'Extrême — Orient  
B.P. 632  
Papeete  
S.T.I.C.  
B.P. 129  
Papeete

### Wellington

\* DIS Industries Limited  
42 Kent Terrace  
P.O.B. 2280  
Wellington 1,

### Penrose

DIS Industries Limited  
Church Street  
Penrose, Auckland

### Christchurch

DIS Industries Limited  
Blenheim Road  
Christchurch

Tel.: (02) 709 4 777  
Telex: AA 230 73  
Cable: CLAEMARINE  
SYDNEY

720-49  
Cables:  
ABC NOUMEA

2.74.06

2.81.16, 2.81.17,  
2.71.00  
Telex: 071 FP  
COWAN  
Telegr.: STIC  
PAPEETE

557 - 957  
Cables:  
DISL Wellington 1,  
New Zealand





592 - 109

41 - 485

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**builds**

-  **single-cylinder**
-  **two-cylinder**
-  **three-cylinder**
-  **four-cylinder**

**Diesel engines**

**aircooled fourstroke**

**from 1,5 to 80 HP**



# When ordering spare parts

**Please always indicate:**

1. Engine number
2. part/order-no.
3. Designation
4. Quantity

For example: For engine no. 11 X 955287

00302401 lever for governor spring 1 piece

5. Exact address, mentioning railway station
6. Please do not prescribe: "as quick as possible" or "immediately", but "per parcel post", "express", "airmail", or "freight" and "express-freight", etc.
7. In case there is no mode of dispatch indicated, we shall not choose the quickest, but the cheapest one.



## Original spare parts

**guarantee troublefree repair and operation  
as well as long engine life !**

Exact orders will avoid misunderstanding !

In doubtful cases send us the damaged part !

In guarantee cases, please send us the damaged part !

Guarantee covers cost of damaged parts only.

Repairs will be charged as low as possible.

Price quotations without obligation will be supplied on request.

Repairs and part deliveries only against „cash on delivery“.

In general our normal sales- and delivery terms are applicable.

**Ruhstorf/Rott, Mai 1974**

Table No.	Item No.	Quote when ordered		Qty. for engine type	E 80	E 85	E 89
		Part-/Ordering No.	DESIGNATION				
		00326700	GASKET SET. . . . .	1	-	-	
		00326800	GASKET SET CYL.HEAD . . . . .	1	-	-	
		00331200	GASKET SET. . . . .	-	1	-	
		00331300	GASKET SET CYL.HEAD . . . . .	-	1	-	
		00333300	GASKET SET. . . . .	-	-	1	
		00333400	GASKET SET CYL.HEAD . . . . .	-	-	1	
			CRANKCASE =====				
1	1	00339202	CRANKCASE WITH ITEM NO.3-4,7-8. . .	1	1	-	
1	1	00333602	CRANKCASE WITH ITEM NO.3-4,7-8. . .	-	-	1	
1	3	03025802	RING FOR OIL OVERFLOW . . . . .	1	1	1	
1	4	50043600	CLOS.SCREW M 10X1 . . . . .	2	2	2	
1	7	50036700	PIN 6X22. . . . .	2	2	2	
1	8	50037300	STUD M 8X18 . . . . .	11	11	11	
1	8A	03229201	CAP SCREW R 3/4 . . . . .	1	1	1	
1	10	00302401	LEVER F.GOVERNOR SPRING . . . . .	1	1	1	
1	13	03146200	FRICTION DISC . . . . .	1	1	1	
1	14	03023601	HANDLEVER . . . . .	1	1	1	
1	15	50010600	FITTING KEY A 4X4X14. . . . .	1	1	1	
1	16	50016900	DISC 10,5 . . . . .	1	1	1	
1	17	50023800	HEXAGON NUT BM 10 . . . . .	2	2	2	
1	18	03146001	GOVERNOR SPRING 3,7 N=1500-2750 . .	1	1	1	
1	19	03145900	GOVERNOR SPRING 3,5 . . . . .	1	1	1	
			(ONLY WITH GENERATOR N=1500)				
1	20	00333701	GOVERNOR LEVER . . . . .	1	1	1	
1	23	03021400	PIN F.GOVERNOR LEVER . . . . .	1	1	1	
1	24	50025600	HEXAGON SCREW BM 6X12 . . . . .	1	1	1	
1	25	50026200	HEXAGON SCREW BM 6X30 . . . . .	1	1	1	
1	26	03133200	DISC . . . . .	1	1	1	
1	27	50036100	PIN 2X22. . . . .	1	1	1	
1	28	03022200	ECCENTRIC . . . . .	1	1	1	
1	29	50040700	STUD M 10X30. . . . .	1	1	1	
1	30	50023800	HEXAGON NUT BM 10 . . . . .	2	2	2	
1	31	03156700	THREADED BOLT . . . . .	1	1	1	
1	31A	50023200	HEXAGON NUT AM 8. . . . .	1	1	1	
1	32	03155901	COVER SMALL . . . . .	1	1	1	
1	33	03156000	GASKET FOR COVER. . . . .	1	1	1	
1	36	03021601	COVER BIG . . . . .	1	1	1	
1	37	03146100	GASKET FOR COVER. . . . .	1	1	1	

		Qty. when ordered		Qty. for engine type		
Table No.	Item No.	Part/Ordering No.	DESCRIPTION	Dry		
				58	57	59
1	38	50026700	HEXAGON SCREW M 8X15. . . . .	4	4	4
1	38A	50027000	HEXAGON SCREW M 8X25. . . . .	3	3	3
1	39	00442500	CHIPSTICK W.ITEM NO.41 . . . . .	1	1	1
1	41	40022400	WASHER. . . . .	1	1	1
FULL LOAD LIMIT WITH START FILLING =====						
		00441601	EXTRA FUEL DEVICE . . . . .	1	1	1
		00335301	ECCENTRIC SHAFT WITH ITEM NO.42-45.	1	1	1
1	46	03036000	THREADED BUSH . . . . .	1	1	1
1	47	50024000	HEXAGON NUT M 12. . . . .	1	1	1
1	48	03160200	PRESSURE SPRING . . . . .	1	1	1
1	49	03039801	DRAW BUTTON . . . . .	1	1	1
1	50	03160300	CAPSULE . . . . .	1	1	1
1	50A	03160400	HEXAGON NUT M 6X0,75. . . . .	1	1	1
1	51	03033100	COVER . . . . .	1	1	1
1	52	50030900	HEXAGON SCREW M 12X20 . . . . .	2	2	2
1	53	03031900	ENGINE BRACKET GOV.SIDE . . . . .	1	1	1
1	53A	03033800	ENGINE BRACKET START.DEV. . . . .	1	1	1
1	54	50029300	HEXAGON SCREW M 10X30 . . . . .	8	8	8
1	55	50002900	SPRING WASHER 10. . . . .	8	8	8
1	56	50012400	SLOTTED SET PIN 5X24. . . . .	1	1	1
1	57	03169103	OIL DRAIN PLUG R 1/2 WITH MAGNET. .	1	1	1
1	58	50001500	JOINT A 21X26 . . . . .	1	1	1
CRANKSHAFT =====						
2	1	00327101	CRANKSHAFT WITH COVER 25. . . . .	1	1	-
		50043200	COVER 25. . . . .	1	1	1
2	1	00327001	CRANKSHAFT WITH ITEM NO.1-11. . . .	1	1	-
2	1	00333901	CRANKSHAFT WITH COVER 25. . . . .	-	-	1
2	1	00333801	CRANKSHAFT WITH ITEM NO.1-11. . . .	-	-	1
2	2	03023101	COUNTER WIGHT . . . . .	2	2	-
2	2	03035901	COUNTER WIGHT . . . . .	-	-	2
2	4	50055000	ALLEN SCREW M 10X50 . . . . .	4	4	4
2	5	50002900	SPRING WASHER 10. . . . .	4	4	4
2	6	50047600	CYL.ROLLER BEARING NJ 309 E . . . .	1	1	1
2	7	50022100	CIRCLIP 100X3 . . . . .	1	1	1
2	8	50048900	CYL.ROLLER BEARING NUP 309 E. . . .	1	1	1
2	9	03028701	INTERMEDIATE RING . . . . .	1	1	1
2	10	50011900	FITTING KEY A 10X8X35 . . . . .	1	1	1
2	11	40023700	WASHER 45X49X2. . . . .	1	1	1

Quote when ordered

Table No.	Item No.	Part-/Ordering No.	DESIGNATION	Qty. for engine type		
				E 80	E 85	E 89
2	12	03027502	GEARWHEEL FOR CRANKSHAFT. . . . .	1	1	1
2	13	03021100	DISC. . . . .	1	1	1
2	14	50031200	HEXAGON SCREW M 12X30 . . . . .	1	1	1
2	15	50003000	SPRING WASHER 12. . . . .	1	1	1
2	16	03146300	PLATE SPRING. . . . .	2	2	2
2	17	03285300	HEXAGON NUT M 30X1,5. . . . .	1	1	1
2	17A	03026000	HEXAGON NUT . . . . .	1	1	1
2	18	50005100	THREADED PIN AM 10X25 . . . . .	1	1	1
2	18A	03198600	SECURITY PLATE. . . . .	1	1	1
2	19	50018100	DISC SPRING 8X11. . . . .	1	1	1
			BEARING FLANGE =====			
2	20	00327301	BEARING FLANGE WITH ITEM NO.21. . .	1	1	1
2	21	50045400	OIL SEAL RING B 55X70X8 . . . . .	1	1	1
2	22	03146401	GASKET FOR BEARING FLANGE . . . . .	1	1	1
2	23	50018800	SECURITY PLATE 8,4. . . . .	8	8	8
2	24	50022900	HEXAGON NUT M 8 . . . . .	8	8	8
			FLYWHEEL =====			
2	25	03038100	FLYWHEEL. . . . .	-	-	1
2	25	03038200	FLYWHEEL (HEAVY DESIGN) . . . . .	-	-	1
2	26	03032400	FLYWHEEL. . . . .	1	1	-
2	26	03032500	FLYWHEEL (HEAVY DESIGN) . . . . .	1	1	-
			BLOWER RING =====			
2	27	03030300	BLOWER RING . . . . .	1	1	-
2	28	50052700	ALLEN SCREW M 8X50. . . . .	4	4	-
2	29	50002800	SPRING WASHER . . . . .	4	4	-
			PISTON =====			
2	30	00327502	PISTON WITH RINGS . . . . .	1	-	-
2	30	00331402	PISTON WITH RINGS . . . . .	-	1	-
2	30	00334701	PISTON WITH RINGS . . . . .	-	-	1
2	30A	00570401	PISTON RING-SET . . . . .	1	-	-
2	30A	00570801	PISTON RING SET . . . . .	-	1	-
2	30A	00571001	PISTON RING SET . . . . .	-	-	1
2	31	50088000	GUDGEON PIN . . . . .	1	-	-
2	31	50090001	GUDGEON PIN . . . . .	-	1	-
2	31	50100501	GUDGEON PIN . . . . .	-	-	1

		Quote when ordered		Qty. for engine type		
Fabr. No.	Item No.	Part./Ordering No.	DESIGNATION			
				E 80	E 85	E 89
2	32	50020800	CIRCLIP 30X1,2. . . . .	2	2	2
2	33	50088300	COMPRESSION RING. . . . .	1	-	-
2	34	50088101	COMPRESSION RING. . . . .	1	-	-
2	35	50088900	OIL CONTROL RING. . . . .	1	-	-
2	33	50099300	COMPRESSION RING. . . . .	-	1	-
2	34	50099500	2-FACED COMPRESSION RING. . . . .	-	1	-
2	35	50100301	OIL CONTROL RING. . . . .	-	1	-
2	33	50100800	COMPRESSION RING. . . . .	-	-	1
2	34	50101000	2-FACED COMPRESSION RING. . . . .	-	-	1
2	35	50101600	OIL CONTROL RING. . . . .	-	-	1
CONNECTING ROD =====						
2	36	00301101	CONNECTING ROD. . . . .	1	1	1
2	37	50036300	PIN 5X8 . . . . .	1	1	1
2	38	03021500	BUSH FOR CONROD . . . . .	1	1	1
2	39	03146701	CONROD SCREW. . . . .	2	2	2
2	40	03146501	BIG END BEARING . . . . .	1	1	1
CYLINDER =====						
2	41	03028902	CYLINDER. . . . .	1	-	-
2	41	03033602	CYLINDER. . . . .	-	1	-
2	41	03040301	CYLINDER. . . . .	-	-	1
2	41	00565300	CYLINDER WITH PISTON . . . . .	1	-	-
2	41	00565500	CYLINDER WITH PISTON . . . . .	-	1	-
2	41	00565600	CYLINDER WITH PISTON . . . . .	-	-	1
2	42	03148300	STUD. . . . .	4	4	4
2	43	50023900	HEXAGON NUT M 12. . . . .	4	4	4
CYLINDER HEAD =====						
3	1	00327700	CYLINDER HEAD WITH ITEM NO.2-4. . .	1	-	-
3	1	00331600	CYLINDER HEAD WITH ITEM NO.2-4. . .	-	1	-
3	1	00334901	CYLINDER HEAD WITH ITEM NO.2-5. . .	-	-	1
3	2	03148401	VALVE GUIDE . . . . .	2	2	2
3	3	50036500	PIN 5X12. . . . .	2	2	2
3	4	50037700	STUD M 8X20 . . . . .	2	2	-
3	4	50037500	STUD M 8X20 . . . . .	-	-	2
3	5	50038300	STUD M 8X30 . . . . .	-	-	2
3	5A	50022900	HEXAGON NUT M8. . . . .	-	-	2

Quote when ordered

Table No.	Item No.	Part/Ordering No.	DESIGNATION	Qty. for engine type		
				E 80	E 85	E 89
3	6	03148800	GASKET FOR CYL.-HEAD 0,5 * . . . . .	1	-	-
3	6	03148900	GASKET FOR CYL.-HEAD 0,6 * . . . . .	1	-	-
3	6	03149300	GASKET FOR CYL.-HEAD 0,7 * . . . . .	1	-	-
3	6	03149400	GASKET FOR CYL.-HEAD 0,8 * . . . . .	1	-	-
3	6	03149500	GASKET FOR CYL.-HEAD 0,9 * . . . . .	1	-	-
3	6	03155400	GASKET FOR CYL.-HEAD 0,5 * . . . . .	-	1	-
3	6	03155500	GASKET FOR CYL.-HEAD 0,6 * . . . . .	-	1	-
3	6	03155600	GASKET FOR CYL.-HEAD 0,7 * . . . . .	-	1	1
3	6	03155700	GASKET FOR CYL.-HEAD 0,8 * . . . . .	-	1	-
3	6	03155800	GASKET FOR CYL.-HEAD 0,9 * . . . . .	-	1	-
3	6	03158600	GASKET FOR CYL.-HEAD 0,6 * . . . . .	-	-	1
3	6	03159300	GASKET FOR CYL.-HEAD 0,7 * . . . . .	-	-	1
3	6	03159400	GASKET FOR CYL.-HEAD 0,8 * . . . . .	-	-	1
3	6	03159500	GASKET FOR CYL.-HEAD 0,9 * . . . . .	-	-	1
3	7	40022500	WASHER 11X18X4. . . . .	2	2	2
3	8	03149100	CAP . . . . .	2	2	2
			ROCKER HOUSING =====			
4	1	03024405	ROCKER HOUSING. . . . .	1	1	-
4	1	03037004	ROCKER HOUSING. . . . .	-	-	1
4	2	03148700	JOINT WASHER. . . . .	2	2	2
			(MOUNTING DEVICE SEE TABLE 3 STIPPLED)			
4	3	03026900	VALVE INLET . . . . .	1	1	-
4	3	03038800	VALVE INLET . . . . .	-	-	1
4	4	03026800	VALVE EXHAUST . . . . .	1	1	-
4	4	03038900	VALVE EXHAUST . . . . .	-	-	1
4	5	03148501	VALVE SPRING. . . . .	2	2	-
4	5	03158701	VALVE SPRING. . . . .	-	-	2
4	6	50019400	CIRCLIP 8X0,8 . . . . .	2	2	2
4	7	03148600	COLLETT . . . . .	2	2	2
4	8	03022300	CUP INLET . . . . .	1	1	1
4	9	03035600	CUP EXHAUST . . . . .	1	1	1
4	10	00327901	ROCKER INLET WITH ITEM NO.14-15 . .	1	1	1
4	11	00328001	ROCKER EXHAUST WITH ITEM NO.14-17 .	1	1	1
4	13	03033401	SHIM 4,0 * . . . . .	-	-	1
4	13	03405300	SHIM 4,1 * . . . . .	-	-	1
4	13	03400700	SHIM 4,2 * . . . . .	-	-	1
4	13	03400800	SHIM 4,3 * . . . . .	-	-	1
		03329600	LIFTING STRAP . . . . .	1	1	1
		50029200	HEXAGON SCREW M 10X25 ** . . . . .	2	2	2
		50002900	SPRING WASHER ** . . . . .	2	2	2

\*ACCORDING TO REQUIRMENTS  
\*\*NOT NECESSARY FOR MOUNTING OF FUEL TANK

Folio No.	Item No.	Quote when ordered		Qty. for engine type	E 80	E 85	E 90
		Part-/Ordering No.	DESIGNATION				
4	13A	03169400	SHIM 0,1 * . . . . .	1	1	—	
4	13A	03169600	SHIM 0,2 * . . . . .	1	1	—	
4	13A	03169700	SHIM 0,3 * . . . . .	1	1	—	
4	13A	03169800	SHIM 0,5 * . . . . .	1	1	—	
4	14	03022100	ADJUSTING SCREW . . . . .	2	2	2	
4	15	03149000	HEXAGON NUT M 10x1. . . . .	2	2	2	
4	16	03022001	ADJUSTING SCREW . . . . .	1	1	1	
4	17	50022700	HEXAGON NUT M 6 . . . . .	1	1	1	
4	18	03148901	ROCKER SHAFT. . . . .	1	1	1	
4	19	40022300	WASHER 8X12X2 . . . . .	4	4	4	
4	21	50018700	SECURITY PLATE 6,4. . . . .	1	1	1	
4	22	03023800	DECOMPRESSION LEVER . . . . .	1	1	1	
4	23	50019500	CIRCLIP 12X1. . . . .	2	2	2	
4	24	50009800	BALL 6 MM . . . . .	1	1	1	
4	25	03159100	PRESSURE SPRING . . . . .	1	1	1	
4	26	03079500	GAP SCREW M 10X1. . . . .	1	1	1	
4	27	03150901	STUD M 8X30 . . . . .	1	1	1	
4	28	03149700	VALVE DIAPHRAGM . . . . .	1	1	1	
4	29	03158800	STROKE LIMITATION . . . . .	1	1	1	
4	30	50022900	HEXAGON NUT M 6 . . . . .	1	1	1	
4	31	03158900	GASKET. . . . .	1	1	1	
			BREATHER =====				
4	32	00304303	COVER WITH TUBE . . . . .	1	1	1	
4	33	50000900	JOINT A 8X11,5 . . . . .	1	1	1	
4	34	40028400	HEXAGON NUT M 8 . . . . .	1	1	1	
4	35	00328100	IGNITION PAPER HOLDER . . . . .	1	1	1	
4	36	00328200	IGNITION PAPER HOLDER WITH HANDLE	1	1	1	
4	37	03143603	COVER . . . . .	1	1	—	
4	37	03159602	COVER . . . . .	—	—	1	
4	38	50052200	ALLEN SCREW M 8X30. . . . .	4	4	4	
4	39	03149801	GASKET FOR COVER. . . . .	1	1	—	
4	39	03159701	GASKET FOR COVER. . . . .	—	—	1	
4	43	03159200	PIPE CLIP . . . . .	1	1	1	
4	44	50000900	JOINT A 8X11,5. . . . .	1	1	1	
4	45	03228800	JOINT 1,0 . . . . .	1	1	1	
4	46	50044700	CLOSING SCREW R 1/4 . . . . .	1	1	1	

\* ACCORDING TO REQUIREMENTS

Quantity when ordered

Table No.	Item No.	Part / Order designation	DESIGNATION	Qty. for angles type		
				£ 80	£ 85	£ 89
			<u>CAMSHAFT</u> =====			
5	1	00538501	CAMSHAFT WITH 2 GOV.WEIGHTS . . . . .	1	1	1
			CONSISTING OF ITEM NO.1A-10			
5	1	00538700	CAMSHAFT WITH 4 GOV.WEIGHTS . . . . .	1	1	1
			CONSISTING OF ITEM NO.1A-10			
5	1	00538601	CAMSHAFT WITH 3 GOV.WEIGHTS . . . . .	1	1	1
			CONSISTING OF ITEM NO.1A-10			
5	1A	00334501	CAMSHAFT WITH FITTING KEY . . . . .	1	1	1
5	5	00334302	GOVERNOR SLEEVE WITH ITEM NO.5A . . . . .	1	1	1
5	5A	40031100	CIRCLIP . . . . .	1	1	1
5	6	40036100	AXIAL BEARING STAR . . . . .	1	1	1
5	7	50021600	CIRCLIP 45X1,75 . . . . .	1	1	1
5	8	03027403	GEARWHEEL FOR CAMSHAFT. . . . .	1	1	1
5	9	03037701	GOVERNOR WEIGHT *			
5	10	03156900	PIN FOR GOVERNOR WEIGHT *			
5	11	50015500	GROOVED BALL BEARING 16014. . . . .	1	1	1
5	12	50014700	GROOVED BALL BEARING 6304 . . . . .	1	1	1
			<u>GOVERNOR HOUSING</u> =====			
5	13	00328500	GOVERNOR HOUSING W.ITEM NO.14-14B . . . . .	1	1	1
5	14	50045600	OIL SEAL B 70X85X8. . . . .	1	1	1
5	14A	03168901	CAP SCREW . . . . .	1	1	1
5	14B	40023600	WASHER 36X44X4. . . . .	1	1	1
5	15	03150000	GASKET. . . . .	1	1	1
5	16	50051900	ALLEN SCREW M 8X20. . . . .	9	9	9
5	17	50052100	ALLEN SCREW M 8X25. . . . .	1	1	1
			<u>PUSHROD AND PROTECTION TUBE</u> =====			
5	18	00335100	PUSHROD . . . . .	2	2	2
5	19	03159800	TAPPET. . . . .	2	2	2
5	20	03038002	PROTECTION TUBE . . . . .	1	1	1
5	21	03160100	WASHER. . . . .	1	1	1
5	22	03160000	PRESSURE SPRING . . . . .	1	1	1
5	23	03159900	PRESSURE RING . . . . .	2	2	2
5	24	40023500	WASHER 35X47X6. . . . .	2	2	2
			<u>OIL PUMP</u> =====			
5	25	00429202	OIL PUMP. . . . .	1	1	1

\* 2-4 PIECES ACC.TO SPEED



			Quote when ordered				Qty. for engine type		
Table No.	Item No.	Part/Ordering No.	DESIGNATION	E 80	F 85	E 89			
5	26	50010400	FITTING KEY . . . . .	1	1	1			
5	27	03027802	GEARWHEEL F.OIL PUMP DRIVE. . . . .	1	1	1			
5	28	40028400	HEXAGON NUT M 8 . . . . .	1	1	1			
5	29	03149900	GASKET. . . . .	1	1	1			
5	30	50027500	HEXAGON SCREW M 8X35. . . . .	1	1	1			
5	31	50002800	SPRING WASHER 8 . . . . .	1	1	1			
<u>INJECTION PUMP AND INJECTION VALVE</u>									
5	32	40005101	INJECTION PUMP. . . . .	1	1	-			
5	32	40005301	INJECTION PUMP . . . . .	-	-	1			
5	33	50022900	HEXAGON NUT M 8 . . . . .	3	3	3			
5	34	03168301	SHIM 0,15 * . . . . .	1	1	1			
5	34	03168500	SHIM 0,20 * . . . . .	1	1	1			
5	34	03168600	SHIM 0,25 * . . . . .	1	1	1			
5	34	03168700	SHIM 0,30 * . . . . .	1	1	1			
5	35	40006000	INJECTION VALVE WITH NOZZLE . . . . .	1	1	-			
5	36	40006300	INJECTION VALVE WITH NOZZLE . . . . .	-	-	1			
5	35	40004400	NOZZLE. . . . .	1	1	-			
5	36	40004500	NOZZLE. . . . .	-	-	1			
5	39	03160500	JOINT WASHER. . . . .	1	1	1			
		49009500	BANJO BOLT . . . . .	1	1	1			
<u>STARTING HANDLE</u>									
5	41	00302302	STARTING HANDLE . . . . .	1	1	1			
5	42	03024901	CRANK JAW . . . . .	1	1	1			
5	43	50053800	ALLEN SCREW M 10X25 . . . . .	2	2	2			
<u>SUCTION NIPPLE</u>									
5	44	00328702	SUCTION NIPPLE. . . . .	1	1	1			
5	45	50001800	JOINT A 30X36 . . . . .	1	1	1			
<u>OIL RELIEF VALVE</u>									
5	46	00328801	OIL RELIEF VALVE . . . . .	1	1	1			
5	47	50001600	JOINT A 22X27 . . . . .	1	1	1			
5	48	03150100	CAP SCREW . . . . .	1	1	1			
5	49	50033300	HEXAGON SCREW M 8X1X12. . . . .	1	1	1			
5	50	50000900	JOINT A 8X11,5. . . . .	1	1	1			
<u>FUEL TANK</u>									
5	1	00329001	FUEL TANK 7 LTRS. . . . .	1	1	1			
* ACCORDING TO REQUIREMENTS									

\* ACCORDING TO REQUIREMENTS

		Quote when ordered		Qty. for engine type		
Table No.	Item No.	Part/Ordering No.	DESIGNATION	E80	E85	E88
6	1	00329301	FUEL TANK 10 5 LTRS. . . . .	1	1	1
6	2	40032700	CAP SCREW B 40. . . . .	1	1	1
6	3	00329102	FUEL FILTER . . . . .	1	1	1
6	3A	40043800	FILTER ELEMENT . . . . .	1	1	1
6	4	03150201	GASKET. . . . .	1	1	1
6	5	50050300	ALLEN SCREW M 6X8 . . . . .	4	4	4
6	6	50055900	ALLEN SCREW M 10X120. . . . .	2	2	2
			(FOR 7 LTRS.TANK)			
6	6	03150500	STUD (FOR 10,5 LTRS.TANK) . . . . .	2	2	2
6	7	50053800	ALLEN SCREW M 10X25 . . . . .	2	2	2
6	8	50002900	SPRING WASHER 10. . . . .	4	4	4
6	9	50023500	HEXAGON NUT M 10. . . . .	2	2	2
			(FOR 10,5 LTRS.TANK)			
6	15	00339301	FUEL PRESSURE PIPE. . . . .	1	1	-
6	15	00335401	FUEL PRESSURE PIPE. . . . .	-	-	1
6	16	03160600	FUEL PIPE . . . . .	1	1	1
6	17	03150801	FUEL LEAK-OFF PIPE. . . . .	1	1	1
6	18	50006100	BANJO BOLT A 2/3. . . . .	2	2	2
6	19	50000900	JOINT A 8X11,5. . . . .	4	4	4
6	20	50006400	BANJO BOLT A 8. . . . .	1	1	1
6	21	50001200	JOINT A 14X18 . . . . .	2	2	2
6	22	50006300	BANJO BOLT A 6. . . . .	1	1	1
6	23	50001100	JOINT A 12X16 . . . . .	2	2	2
6	24	03150900	CLAMP . . . . .	1	1	1
6	25	50000300	FIXING STRAP BSN 12 . . . . .	1	1	1
6	26	50050500	ALLEN SCREW M 6X12. . . . .	1	1	1
			COOLING AIR DUCT =====			
6	27	03036601	COWLING BIG . . . . .	1	1	1
6	28	03024601	COWLING SMALL . . . . .	1	1	-
6	28	03036501	COWLING SMALL . . . . .	-	-	1
6	29	50005900	ALLEN SCREW AM5X8 . . . . .	3	3	3
6	30	40028200	HEXAGON NUT M 5 . . . . .	3	3	3
6	31	50049400	ALLEN SCREW M 5X20. . . . .	2	2	2
6	32	03449200	ANGLE . . . . .	1	1	1
6	33	50049500	ALLEN SCREW M 5X50. . . . .	1	1	-
6	33	50049900	ALLEN SCREW AM 5X75 . . . . .	-	-	1
6	34	40028200	HEXAGON NUT M 5 . . . . .	1	1	1

Table No.	Item No.	Part-/Ordering No.	DESIGNATION	Qty. for engine type		
				E 80	E 85	E 89
			EXHAUST =====			
6	35	03020801	EXHAUST ELBOW . . . . .	1	1	-
6	35	03034200	EXHAUST ELBOW . . . . .	-	-	1
6	36	50002000	GASKET 26 CU AS 2,5 . . . . .	1	1	-
6	36	50002200	GASKET 36 CU AS 2,5 . . . . .	-	-	1
6	38	50023000	HEXAGON NUT M 8 MS. . . . .	2	2	2
			FLEXIBLE COUPLING, FLYWHEELSIDE =====			
7	1	00329500	FLANGE WITH 3 BOLTS . . . . .	1	1	1
7	1	00335500	FLANGE WITH 6 BOLTS . . . . .	-	-	1
7	1	03022400	FLANGE. . . . .	1	1	1
7	2	00307200	TAPPET. . . . .	3	3	6
7	3	03151000	RUBBER SHELL. . . . .	3	3	6
7	4	03079000	DISC. . . . .	3	3	6
7	5	50017200	DISC 13 . . . . .	3	3	6
7	6	50023900	HEXAGON NUT M 12. . . . .	3	3	6
7	7	50053800	ALLEN SCREW M 10X25 . . . . .	4	4	4
7	8	50002900	SPRING WASHER 10. . . . .	4	4	4
7	9	03023000	COUNTER FLANGE. . . . .	1	1	-
7	9	03035800	COUNTER FLANGE. . . . .	-	-	1
7	10	50004900	THREADED PIN M 10X16. . . . .	1	1	1
			FLEXIBLE COUPLING ON GOVERNOR SIDE =====			
7	1	00329500	FLANGE WITH 3 BOLTS . . . . .	1	1	-
7	1	00341801	FLANGE WITH 6 BOLTS * . . . . .	-	-	1
7	1	03004201	FLANGE. . . . .	1	1	1
			FREE SHAFT END =====			
7	13	03027300	FREE SHAFT END. . . . .	1	1	1
7	13A	50011700	FITTING KEY A 8X7X63. . . . .	1	1	1
7	14	50053800	ALLEN SCREW M 10X25 . . . . .	4	4	4
7	15	50002900	SPRING WASHER 10. . . . .	4	4	4
			SHAFT COUPLING =====			
			MD=4,3 MKG+MD=10 MKG =====			
7	16	03022600	FLANGE. . . . .	1	1	-
7	16	03039900	INTERMEDIATE FLANGE . . . . .	-	-	1

\* WHEN REPLACING BOTH GEARWHEELS OF ENGINE E 89 ON CRANKSHAFT OR CAMSHAFT, ONLY USE HARDENED GEARWHEELS WITH PART-NO. 03039701/03039402

Quote when ordered

Table No.	Item No.	Part/Ordering No.	DESIGNATION	Qty. for engine type		
				E 20	E 35	E 55
7	17	50053800	ALLEN SCREW M 10X25 . . . . .	4	4	4
7	18	50002900	SPRING WASHER 10. . . . .	4	4	4
7	19	03096401	INTERMEDIATE FLANGE . . . . .	1	1	—
7	20	40015700	CLUTCH ORTLINGHAUS 100-15 * . . . . .	1	1	—
7	20	40015800	CLUTCH ORTLINGHAUS 100-23 * . . . . .	—	—	1
7	21	40025400	CONTROL DEVICE 202-15 . . . . .	1	1	—
7	21	40025500	CONTROL DEVICE 202-31 . . . . .	—	—	1
7	22	03020700	PIN . . . . .	1	1	—
7	22	03138600	PIN . . . . .	—	—	1
7	23	50013700	GROOVED BALL BEARING 6204 . . . . .	1	1	—
7	23	50014200	GROOVED BALL BEARING 6206 . . . . .	—	—	1
7	24	50020300	CIRCLIP 20X1,2. . . . .	2	2	—
7	24	50020900	CIRCLIP 30X1,5. . . . .	—	—	2
7	25	50029300	HEXAGON SCREW M 10X30 . . . . .	4	4	—
7	25	50029200	HEXAGON SCREW M 10X25 . . . . .	—	—	4
7	26	50002900	SPRING WASHER 10. . . . .	4	4	4
CLUTCH FOR VEHICLE ENGINES =====						
7	27	00332700	CONNECTING FLANGE WITH ITEM NO.28 . . . . .	1	1	1
7	27	03029300	CONNECTING FLANGE . . . . .	1	1	1
7	28	50013800	GROOVED BALL BEARING 6204-2RS . . . . .	1	1	1
7	29	50002900	SPRING WASHER 10. . . . .	3	3	3
7	30	50054100	ALLEN SCREW M 10X30 . . . . .	3	3	3
7	31	40004000	PRESSURE PLATE. . . . .	1	1	1
7	31	40017400	CLUTCH DISC . . . . .	1	1	1
7	31	40015000	BALL BEARING DISCONNECTOR . . . . .	1	1	1
7	31	40009200	SHAPE SPRING. . . . .	2	2	2
7	32	50026700	HEXAGON SCREW M 8X15. . . . .	6	6	6
7	33	50002800	SPRING WASHER 8 . . . . .	6	6	6
7	35	00332401	CLUTCH HOUSING WITH BALL BEARING. . . . .	1	1	1
DISCONNECTOR AND ITEM NO.35-56						
7	36	50007900	GREASE NIPPLE CM 8X1. . . . .	2	2	2
7	37	03029402	DISCONNECTOR SHAFT. . . . .	1	1	1
7	38	03030201	FORKED LEVER. . . . .	1	1	1
7	39	50020000	CIRCLIP 18X1,2. . . . .	1	1	1
7	39A	50017600	DISC 19 . . . . .	1	1	1
7	40	03156200	RETURN SPRING . . . . .	1	1	1
7	41	50035300	PIN 6X28. . . . .	2	2	2

\* 100-15 MD=4,3 MKG+100-23 MD=10 MKG

Table No.	Item No.	Quote when ordered		Qty. for engine type	E 80	E 85	E 89
		Part-/Ordering No.	DESIGNATION				
7	42	50034400	PIN 3,5X28. . . . .	2	2	2	
7	43	00332602	SWITCH LEVER WITH ITEM NO.43-48 . .	1	1	1	
7	44	03032000	HUB FOR CONTR.LEVER . . . . .	1	1	1	
7	45	50051400	ALLEN SCREW M 8X12. . . . .	2	2	2	
7	46	50002800	SPRING WASHER 8 . . . . .	2	2	2	
7	47	50027000	HEXAGON SCREW M 8X25. . . . .	1	1	1	
7	48	50022900	HEXAGON NUT M 8 . . . . .	1	1	1	
7	49	03262100	ADJUSTING PLATE . . . . .	1	1	1	
7	50	50029100	HEXAGON SCREW M 10X20 . . . . .	2	2	2	
7	51	50016900	DISC 10,5 . . . . .	2	2	2	
7	53	50059300	PIN 6X16. . . . .	2	2	2	
7	54	03032200	PROTECTION SCREEN . . . . .	1	1	1	
7	55	03029700	SHIM. . . . .	5	5	5	
7	56	40002800	BLIND RIVET 4X15. . . . .	5	5	5	
7	57	00332501	BEARING FLANGE WITH ITEM NO.57-65 .	1	1	1	
7	57	03031701	BEARING FLANGE. . . . .	1	1	1	
7	58	03031303	CLUTCH SHAFT. . . . .	1	1	1	
7	59	50015000	GROOVED BALL BEARING 6307-2 RS. . .	1	1	1	
7	60	40027600	CIRCLIP J 80X2,5V . . . . .	1	1	1	
7	61	50021100	CIRCLIP 35X1,5. . . . .	1	1	1	
7	62	50017300	DISC B 13 . . . . .	1	1	1	
7	63	50002900	SPRING WASHER 10. . . . .	1	1	1	
7	64	50029300	HEXAGON SCREW M 10X30 . . . . .	1	1	1	
7	65	50012000	FITTING KEY A 10X8X50 . . . . .	1	1	1	
7	66	50053800	ALLEN SCREW M 10X25 . . . . .	4	4	4	
7	66A	50030100	HEXAGON SCREW M 10X65 . . . . .	6	6	6	
7	67	50002900	SPRING WASHER 10. . . . .	6	6	6	
7	69	03156300	COVER RING *. . . . .	1	1	1	
7	70	50002700	SPRING WASHER 6 *. . . . .	6	6	6	
7	71	50025300	HEXAGON SCREW M 6X8 *. . . . .	6	6	6	
			BELT PULLEY =====				
7	72	03025501	BELT PULLEY 125 DIA.. . . . .	1	1	1	
7	73	03025601	BELT PULLEY 150 DIA.. . . . .	1	1	1	
7	74	03025701	BELT PULLEY 175 DIA.. . . . .	1	1	1	
7	75	50029200	HEXAGON SCREW M 10X25 . . . . .	4	4	4	
7	76	50002900	SPRING WASHER 10. . . . .	4	4	4	

\* RECOMMENDABLE IF ENGINE IS STRONGLY EXPOSED TO DUST

Table No.	Item No.	Part./Ordering No.	Quote when ordered		Qty. for engine type		
			DESIGNATION		E 80	E 85	E 87
			REDUCTION GEAR WITH DISCONNECTABLE				
			=====				
			F&S-CLUTCH K 180 ON FLYWHEEL-SIDE				
			=====				
7	27	00332700	CONNECTING FLANGE WITH ITEM NO.28 .		1	1	1
7	27	03029300	CONNECTING FLANGE . . . . .		1	1	1
7	28	50013800	GROOVED BALL BEARING 6204-2RS . . .		1	1	1
7	29	50002900	SPRING WASHER 10. . . . .		3	3	3
7	30	50054100	ALLEN SCREW M 10X30 . . . . .		3	3	3
7	31	40004000	PRESSURE PLATE. . . . .		1	1	1
7	31	40017400	CLUTCH DISC . . . . .		1	1	1
7	31	40015000	BALL BEARING DISCONNECTOR . . . . .		1	1	1
7	31	40009200	SHAPE SPRING. . . . .		2	2	2
7	32	50026700	HEXAGON SCREW M 8X15. . . . .		6	6	6
7	33	50002800	SPRING WASHER 8 . . . . .		6	6	6
7	35	00332401	CLUTCH HOUSING WITH BALL BEARING. .		1	1	1
			DISCONNECTOR AND ITEM NO.35-56				
7	36	50007900	GREASE NIPPLE CM 8X1. . . . .		2	2	2
7	37	03029402	DISCONNECTOR SHAFT. . . . .		1	1	1
7	38	03030201	FORKED LEVER. . . . .		1	1	1
7	39	50020000	CIRCLIP 18X1,2. . . . .		1	1	1
7	39A	50017600	DISC 19 . . . . .		1	1	1
7	40	03156200	RETURN SPRING . . . . .		1	1	1
7	41	50035300	PIN 6X28. . . . .		2	2	2
7	42	50034400	PIN 3,5X28. . . . .		2	2	2
7	43	00332602	SWITCH LEVER WITH ITEM NO.43-48 . .		1	1	1
7	44	03032000	HUB FOR CONTR.LEVER . . . . .		1	1	1
7	45	50051400	ALLEN SCREW M 8X12. . . . .		2	2	2
7	46	50002800	SPRING WASHER 8 . . . . .		2	2	2
7	47	50027000	HEXAGON SCREW M 8X25. . . . .		1	1	1
7	48	50022900	HEXAGON NUT M 8 . . . . .		1	1	1
7	49	03262100	ADJUSTING PLATE . . . . .		1	1	1
7	50	50029100	HEXAGON SCREW M 10X20 . . . . .		2	2	2
7	51	50016900	DISC 10,5 . . . . .		2	2	2
7	53	50059300	PIN 6X16. . . . .		2	2	2
7	54	03032200	PROTECTION SCREW. . . . .		1	1	1
7	55	03029700	SHIM. . . . .		5	5	5
7	56	40002800	BLIND RIVET 4X15. . . . .		5	5	5
7	57A	00335900	BEARING FLANGE W.ITEM NO.57A,58A-61		1	1	1

		Quote when ordered		Qty. for engine type		
Part No.	Part No.	Part / Ordering No.	DESCRIPTION	# 80	# 85	# 89
7	57A	03037200	BEARING FLANGE. . . . .	1	1	1
7	58A	03034100	DRIVING SHAFT . . . . .	1	1	1
7	59	50015000	GROOVED BALL BEARING 6307-2RS . . . . .	1	1	1
7	60	40027600	CIRCLIP J 80X2,5V . . . . .	1	1	1
7	61	50021100	CIRCLIP 35X1,5. . . . .	1	1	1
7	62	50017300	DISC B 13 . . . . .	1	1	1
7	63	50002900	SPRING WASHER 10. . . . .	1	1	1
7	64	50029300	HEXAGON SCREW M 10X30 . . . . .	1	1	1
7	65A	50018000	DISC SPRING 6X11. . . . .	1	1	1
7	66	50053800	ALLEN SCREW M 10X25 . . . . .	4	4	4
7	66A	50030100	HEXAGON SCREW M 10X65 . . . . .	6	6	6
7	67	50002900	SPRING WASHER 10. . . . .	6	6	6
7	68	40039400	REDUCTION GEAR 2 1 ** . . . . .	1	1	1
7	68	40039500	REDUCTION GEAR 1 1,5 ** . . . . .	1	1	1
7	68	40039600	REDUCTION GEAR 1 1,8 ** . . . . .	1	1	1
7	68A	50042000	STUD M 10X95. . . . .	4	4	4
7	68B	50002900	SPRING WASHER 10. . . . .	4	4	4
7	68C	50023500	HEXAGON NUT M 10. . . . .	4	4	4
7	69	03156300	COVER RING *. . . . .	1	1	1
7	70	50002700	SPRING WASHER 6 * . . . . .	6	6	6
7	71	50025300	HEXAGON SCREW M 6X8 * . . . . .	6	6	6
			CRANK JAW AND STARTING HANDLE IN =====			
			CASE OF MOUNTED BELT PULLEY GOV.SID =====			
7	77	03025000	CRANK JAW . . . . .	1	1	1
7	78	50053800	ALLEN SCREW M 10X25 . . . . .	2	2	2
7	79	50054100	ALLEN SCREW M 10X30 . . . . .	2	2	2
7	80	00302502	STARTING HANDLE . . . . .	1	1	1
7	81	03026600	STEP BEARING PLATE. . . . .	1	1	1
			SAFETY STARTING HANDLE =====			
7	82	03029100	SUPPORT . . . . .	1	1	1
7	83	50029400	HEXAGON SCREW M 10X35 . . . . .	3	3	3
7	84	50002900	SPRING WASHER 10. . . . .	3	3	3
7	80	00302803	STARTING HANDLE . . . . .	1	1	1

\* RECOMMENDABLE IF ENGINE IS STRONGLY EXPOSED TO DUST

\*\* ACCORDING TO REQUIREMENTS

Table No.	Item No.	Part-/Ordering No.	DESIGNATION	Qty. for engine type		
				E 80	E 85	E 89
			Quote when ordered			
			SAFETY STARTING HANDLE =====			
			WITH SUPPORT =====			
7	80	00302803	STARTING HANDLE . . . . .	1	1	1
7	85	03081101	GUIDING SHELL . . . . .	1	1	1
7	86	50016700	DISC 8,4. . . . .	4	4	4
7	87	50052100	ALLEN SCREW M 8X25. . . . .	4	4	4
7	85	03071500	GUIDING SHELL (BOMAG) . . . . .	1	1	1
			REDUCTION GEAR 1 3 AND 1 4 =====			
8	1	00329600	GOVERNOR HOUSING WITH ITEM NO.2-3B.	1	1	1
8	2	50045600	OIL SEAL B 70X85X8. . . . .	1	1	1
8	3	50015500	GROOVED BALL BEARING 16014. . . . .	1	1	1
8	3A	03168901	CAP SCREW . . . . .	1	1	1
8	3B	40023600	WASHER 36X44X4. . . . .	1	1	1
8	4	03028101	GEARWHEEL . . . . .	1	1	-
8	4	03039701	GEARWHEEL . . . . .	-	-	1
8	5	03021100	DISC . . . . .	1	1	1
8	6	50056200	ALLEN SCREW M 12X25 . . . . .	1	1	1
8	7	03025300	HUB . . . . .	1	1	1
8	8	03028001	GEARWHEEL ON CRANKSHAFT 1 3 . . . . .	1	1	1
8	8	03028301	GEARWHEEL ON CRANKSHAFT 1 4 . . . . .	1	1	1
8	9	50051900	ALLEN SCREW M 8X20. . . . .	6	6	6
8	10	50002800	SPRING WASHER 8 . . . . .	6	6	6
8	11	50014200	GROOVED BALL BEARING 6206 . . . . .	1	1	1
8	12	03027403	GEARWHEEL FOR CAMSHAFT . . . . .	1	1	-
8	12	03039402	GEARWHEEL FOR CAMSHAFT . . . . .	-	-	1
8	13	03027901	GEARWHEEL ON CAMSHAFT 1 3 . . . . .	1	1	1
8	13	03028201	GEARWHEEL ON CAMSHAFT 1 4 . . . . .	1	1	1
8	14	50054100	ALLEN SCREW M 10X30 . . . . .	4	4	4
8	15	50002900	SPRING WASHER 10 . . . . .	4	4	4
8	16	03126400	COVER FOR GOVERNOR HOUSING. . . . .	1	1	1
8	17	03126500	GASKET . . . . .	1	1	1
8	18	50026700	HEXAGON SCREW M 8X15. . . . .	6	6	6
8	19	50000900	JOINT A 8X11,5 . . . . .	6	6	6
8	20	03222200	CRANK JAW . . . . .	1	1	1
8	21	50053800	ALLEN SCREW M 10X25 . . . . .	2	2	2



Quote when ordered

Table No.	Item No.	Part-/Ordering No.	DESIGNATION	Qty. for engine type		
				E 80	E 85	E 89
			REDUCTION GEAR 1 1,45 =====			
			ON GOVERNOR SIDE =====			
8	1	00335700	GOVERNOR HOUSING 1 1,45 W.I.NO.2-3B	1	1	1
8	2	50045600	OIL SEAL B 70X85X8 . . . . .	1	1	1
8	3A	03168901	CAP SCREW . . . . .	1	1	1
8	3B	40023600	WASHER 36X44X4 . . . . .	1	1	1
8	16	00335800	BEARING GOVER WITH ITEM NO.2. . . .	1	1	1
8	2	50045600	OIL SEAL B 70X85X8 . . . . .	1	1	1
8	12	03039601	GEARWHEEL . . . . .	1	1	1
8	3	50047000	CYL.ROLLER BEARING NJ 207 . . . . .	1	1	1
8	3	50015500	GROOVED BALL BEARING 16014 . . . .	1	1	1
8	17	03160700	GASKET . . . . .	1	1	1
8	10	50002800	SPRING WASHER 8 . . . . .	6	6	6
8	18	50026800	HEXAGON SCREW M 8X20 . . . . .	6	6	6
8	4	03039701	GEARWHEEL ON CRANKSHAFT . . . . .	1	1	1
			POWER-TAKE-OFF ON CRANKSHAFT =====			
8	1	00329800	GOVERNOR HOUSING WITH ITEM NO.2-3B	1	1	1
8	2	50045600	OIL SEAL B 70X85X8 . . . . .	2	2	2
8	3A	03168901	CAP SCREW . . . . .	1	1	1
8	3B	40023600	WASHER 36X44X4 . . . . .	1	1	1
8	4	03028401	GEARWHEEL . . . . .	1	1	1
8	6	50054900	ALLEN SCREW M 10X50 . . . . .	1	1	1
8	5	40033200	USITRING 12,7X18X1,5. . . . .	1	1	1
8	3	50015500	GROOVED BALL BEARING 16014. . . . .	1	1	1
			OILBATH-AIRFILTER =====			
8	23	40089100	OILBATH-AIRFILTER . . . . .	1	1	1
8	23	40020400	OILBATH-AIRFILTER * . . . . .	-	-	1
8		40089300	RAIN PROTECTION CAP . . . . .	1	1	1
8		40040400	RAIN PROTECTION CAP * . . . . .	-	-	1
8	24	03040000	INTERMEDIATE FLANGE . . . . .	-	-	1
8	25	50041100	STUD M 10X40 . . . . .	-	-	1
8	25	50041800	STUD M 10X75 ** . . . . .	-	-	1
8	26	50053600	ALLEN SCREW M 10X20 . . . . .	-	-	1
8	26	50055200	ALLEN SCREW M 10X60 ** . . . . .	-	-	1
8	27	03150700	GASKET . . . . .	1	1	1
8	27	03230000	GASKET . . . . .	-	-	1
8	28	50029100	HEXAGON SCREW M 10X20 . . . . .	2	2	-

\* FOR ENGINES ABOVE N=2000RPM  
 \*\* ONLY WHEN HEATER FLANGE IS USED

Quote when ordered

Table No.	Item No.	Part-/Ordering No.	DESIGNATION	Qty. for engine type		
				E 80	E 85	E 89
8	28	50029200	HEXAGON SCREW M 10X25 . . . . .	—	—	1
8	29	50002900	SPRING WASHER 10 . . . . .	2	2	2
8	30	50023500	HEXAGON NUT M 10 . . . . .	—	—	1
			STARTER GEARING =====			
8	31	03156100	GEARING . . . . .	1	1	—
8	31	03156101	GEARING . . . . .	—	—	1
8	32	50052700	ALLEN SCREW M 8X50. . . . .	4	4	—
8	33	50002800	SPRING WASHER 8 . . . . .	4	4	—
			ELECTRICAL EQUIPMENT =====			
8	34	40000400	ELECTRIC STARTER 12 V =BOSCH= . . .	1	1	1
8	35	50042100	STUD M 12X22. . . . .	2	2	2
8	36	50003000	SPRING WASHER 12. . . . .	2	2	2
8	37	50023900	HEXAGON NUT M 12. . . . .	2	2	2
8	38	03030601	SUPPORT FOR DYNAMO. . . . .	1	1	1
8	40	50040600	STUD M 10X30. . . . .	2	2	2
8	41	50016900	DISC 10,5 . . . . .	2	2	2
8	43	50023500	HEXAGON NUT M 10. . . . .	2	2	2
8	44	40018100	DYNAMO 12 V =BOSCH= . . . . .	1	1	1
8	44A	40036300	REGULATOR =BOSCH= . . . . .	1	1	1
8	44B	50025700	HEXAGON SCREW M 6X15 . . . . .	2	2	2
8	45	03030900	V-BELT PULLEY ON DYNAMO . . . . .	1	1	1
8	46	40028900	STRAP SP . . . . .	2	2	2
8	50	03030800	V-BELT PULLEY ON CAMSHAFT . . . . .	1	1	1
8	51	50054400	ALLEN SCREW M 10X35 . . . . .	2	2	2
8	52	50008700	V-BELT 10X950 . . . . .	1	1	1
8	53	40009900	GLOW PLUG =BERU=. . . . .	1	1	1
8	54	40011200	GLOW CONTROLLER . . . . .	1	1	1
8	55	40012000	HEATER FLANGE . . . . .	1	1	1
8	56	03150700	GASKET . . . . .	1	1	1
8	57	40009500	GLOW STARTING SWITCH . . . . .	1	1	1
8	57	40015400	PLASTIC BUTTON . . . . .	1	1	1
8	58	40025300	SWITCH BOX . . . . .	1	1	1
8	59	40001500	INDICATOR LAMP . . . . .	1	1	1
8	59	40009700	BULB 12V-2 W . . . . .	1	1	1

Table No.	Item No.	Quote when ordered		DESIGNATION	Qty. for engine type		
		Part-/Ordering No.			E 80	E 85	E 89
8	60	50041600		STLC M10X55 * . . . . .	2	2	2
8	61	50002900		SPRING WASHER 10. . . . .	2	2	2
8	62	50023500		HEXAGON NUT M 10. . . . .	2	2	2
8	63	03029500		INSTRUMENT PANEL. . . . .	1	1	1
8	63	03089500		INSTRUMENT PANEL. . . . .	1	1	1
				EXHAUST BOX =====			
8	64	40091900		EXHAUST SILENCER R 1 . . . . .	1	1	-
8	64	40050900		EXHAUST SILENCER R 1 1/4. . . . .	-	-	1
				DYNAMO 12 V WITH STARTER =====			
				FOR MARINE ENGINES =====			
9	1	03023501		SUPPORT FOR DYNAMO. . . . .	1	1	1
9	2	50029700		HEXAGON SCREW M 10X50 . . . . .	3	3	3
8	44	40018100		DYNAMO 12 V BOSCH . . . . .	1	1	1
8	44A	40036300		REGULATOR =BOSCH= . . . . .	1	1	1
8	44B	50025700		HEXAGON SCREW M 6X15 . . . . .	2	2	2
8	44C	00332101		ELECTRIC WIRE . . . . .	1	1	1
8	44D	00332201		ELECTRIC WIRE . . . . .	1	1	1
8	44E	00332301		ELECTRIC WIRE . . . . .	1	1	1
8	45	03030900		V-BELT PULLEY ON DYNAMO . . . . .	1	1	1
8	46	40028900		STRAP SP . . . . .	2	2	2
8	50	03030800		V-BELT PULLEY ON CAMSHAFT . . . . .	1	1	1
8	50A	03028801		INTERMEDIATE PIECE. . . . .	1	1	1
8	51	50054700		ALLEN SCREW M 10X45 . . . . .	2	2	2
8	52	50008700		V-BELT 10X950 . . . . .	1	1	1
				DYNAMO 12 V FOR ENGINES AND =====			
				EXTERNAL BEARING =====			
8	40	50040600		STUD M 10X30. . . . .	2	2	2
8	41	50016900		DISC 10,5 . . . . .	2	2	2
8	43	50023500		HEXAGON NUT M 10. . . . .	2	2	2
8	44	40018100		DYNAMO 12 V =BOSCH= . . . . .	1	1	1
8	44A	40036300		REGULATOR =BOSCH= . . . . .	1	1	1
8	44B	50025700		HEXAGON SCREW M 6X15. . . . .	2	2	2

\*FOR ENGINE E80 AND E85 WITH HEATER FLANGE  
 FOR ENGINE E89 WITH HEATER FLANGE AND  
 OILBATH-AIRFILTER

Table No.	Item No.	Quote when ordered		DESIGNATION	Qty. for engine type		
		Part/Ordering No.			E 80	E 85	E 89
8	45	03030900		V-BELT PULLEY ON DYNAMO . . . . .	1	1	1
8	46	40028900		STRAP SP . . . . .	2	2	2
9	3	03031000		V-BELT PULLEY ON CAMSHAFT . . . . .	1	1	1
8	52	50008700		V-BELT 10X950 . . . . .	1	1	1
				DYNAMO 12V WITH STARTER IN CASE OF =====			
				POWER-TAKE-OFF GOVERNOR SIDE =====			
9	4	03031101		V-BELT PULLEY ON CAMSHAFT . . . . .	1	1	1
9	5	03029600		DYNAMO SUPPORT PIECE . . . . .	1	1	1
8	40	50041300		STUD M 10X50 . . . . .	2	2	2
8	52	50008600		V-BELT 10X900 . . . . .	1	1	1
8	38	03030601		SUPPORT FOR DYNAMO . . . . .	1	1	1
8	41	50016900		DISC 10,5 . . . . .	2	2	2
8	43	50023500		HEXAGON NUT M 10 . . . . .	2	2	2
8	44	40018100		DYNAMO 12 V =BOSCH= . . . . .	1	1	1
8	44A	40036300		REGULATOR =BOSCH= . . . . .	1	1	1
8	44B	50025700		HEXAGON SCREW M 6X15 . . . . .	2	2	2
8	45	03030900		V-BELT PULLEY ON DYNAMO . . . . .	1	1	1
8	46	40028900		STRAP SP . . . . .	2	2	2
				DYNAMO 12 V FOR ENGINES WITH =====			
				REDUCTION GEAR 1 3,1 4 =====			
9	5	03029600		DYNAMO SUPPORT PIECE . . . . .	1	1	1
8	38	03030601		SUPPORT FOR DYNAMO . . . . .	1	1	1
8	40	50030200		STUD M 10X70 . . . . .	2	2	2
		03354300		SPACE TUBE . . . . .	2	2	2
8	41	50016900		DISC 10,5 . . . . .	2	2	2
8	43	50023500		HEXAGON NUT M 10 . . . . .	2	2	2
8	44	40018000		DYNAMO 12 V BOSCH . . . . .	1	1	1
8	44A	40036300		REGULATOR BOSCH . . . . .	1	1	1
8	44B	50025700		HEXAGON SCREW M 6X15 . . . . .	2	2	2

Table No.	Item No.	Quote when ordered		Qty. for engine type	E 80	E 85	E 89
		Part-/Ordering No.	DESIGNATION				
8	45	03030900	V-BELT PULLEY ON DYNAMO . . . . .	1	1	1	
8	46	40028900	STRAP SP. . . . .	2	2	2	
8	50	03030800	V-BELT PULLEY ON CAMSHAFT . . . . .	1	1	1	
8	51	50054400	ALLEN SCREW M 10X35 . . . . .	2	2	2	
8	52	50008800	V-BELT 10X1100. . . . .	1	1	1	
			STARTING DEVICE ON FLYWHEEL-SIDE =====				
9	6	00335601	BEARING HOUSING WITH ITEM NO.7-16 .	1	1	1	
9	7	03011300	GEARWHEEL WITH SHAFT. . . . .	1	1	1	
9	8	03008500	PINION SHAFT. . . . .	1	1	1	
9	9	50009500	GROOVED DOWEL PIN 8X45. . . . .	1	1	1	
9	10	03175301	BEARING RING. . . . .	3	3	3	
9	11	50009800	BALL 6 MM III . . . . .	49	49	49	
9	12	03012401	INTERMEDIATE RING . . . . .	1	1	1	
9	13	50020400	CIRCLIP 24X1,2. . . . .	2	2	2	
9	14	03159100	PRESSURE SPRING . . . . .	4	4	4	
9	15	50007800	GREASE NIPPLE AM 8X1. . . . .	1	1	1	
9	16	03079400	THREADED PIN M 8X1. . . . .	3	3	3	
9	17	03037400	CRANK JAW . . . . .	1	1	1	
9	18	50030500	HEXAGON SCREW M 10X100. . . . .	2	2	2	
9	19	50016900	DISC 10,5 . . . . .	2	2	2	
9	20	50002900	SPRING WASHER 10 . . . . .	2	2	2	
9	21	00302902	STARTING HANDLE . . . . .	1	1	1	
9	22	50005100	THREADED PIN AM 10X25 . . . . .	1	1	1	
			DECOMPRESSION DEVICE =====				
			LIFTING MAGNET =====				
9	23	00653400	ANGLE . . . . .	1	1	1	
9	24	40012400	LIFTING MAGNET . . . . .	1	1	1	
9	25	50040200	STUD M 10X20 . . . . .	1	1	1	
9	26	50023800	HEXAGON SCREW AM 10 . . . . .	1	1	1	
9	28	50052200	ALLEN SCREW M 8X30. . . . .	1	1	1	
9	28	50052300	ALLEN SCREW M 8X35 . . . . .	2	2	2	
9	29	03151100	CONNECTION ROD. . . . .	1	1	1	
9	30	50000600	PIN 4 H11X16X14 . . . . .	2	2	2	
9	31	50000400	BARE DISC 4 . . . . .	2	2	2	
9	32	50035900	PIN 1X18. . . . .	2	2	2	
9	33	03023700	LEVER . . . . .	1	1	1	

Table No.	Item No.	Quantity when ordered		Qty. for engine type	E 88	E 85	E 99
		Part / Ordering No.	DESIGNATION				
9	34	50026800	HEXAGON SCREW M 8X20 . . . . .	1	1	1	
9	35	03027200	SHAFT FOR DECOMPRESSION . . . . .	1	1	1	
9	36	03034500	DISC . . . . .	2	2	2	
9	37	03160800	SUPPORT FOR DYNAMO. . . . .	1	1	1	
9	38	03160900	SUPPORT FOR GOV.SWITCH. . . . .	1	1	1	
			EXHAUST BOX =====				
9	40	00310200	EXHAUST BOX . . . . .	1	1	1	
9	41	50002200	GASKET 36 CU-AS 2,5 . . . . .	1	1	1	
9	42	03089300	EXHAUST MANIFOLD. . . . .	1	1	-	
9	42	03102300	EXHAUST MANIFOLD. . . . .	-	-	1	
9	43	50027300	HEXAGON SCREW M 8X30. . . . .	2	2	2	
9	44	50023000	HEXAGON NUT M 8 MS . . . . .	2	2	2	
9	45	50026800	HEXAGON SCREW M 8X20 . . . . .	2	2	2	
9	46	03176300	ELBOW . . . . .	1	1	1	
9	47	03298800	TWIN-SCREW FLANGE A 32X58 . . . . .	1	1	1	
9	49	50016700	DISC 8,4 . . . . .	2	2	2	
9	50	50026800	HEXAGON SCREW M 8X20. . . . .	2	2	2	
			MOUNTING PARTS FOR BOWDEN-CONTROL =====				
9	51	03108000	CONSOLE . . . . .	1	1	1	
9	52	03072500	SPEED CONTROL LEVER . . . . .	1	1	1	
9	53	03074600	LOCK . . . . .	1	1	1	
			MOUNTING PARTS F.CENTR.BELT PULLEY =====				
9	54	03025200	NUT . . . . .	1	1	1	
9	55	03198600	SECURITY PLATE . . . . .	1	1	1	
9	56	50031900	HEXAGON SCREW M 12X80 . . . . .	1	1	1	
9	57	50003600	SPRING WASHER B 12. . . . .	1	1	1	
			CENTRIFUGAL BELT PULLEY =====				
9	58	40008600	CENTRIFUGAL BELT PULLEY . . . . .	1	1	1	
9	59	40008800	CENTRIFUGAL BELT PULLEY . . . . .	1	1	1	
			EXTERNAL BEARING ON GOVERNOR SIDE =====				
10	1	00562200	GOVERNOR HOUSING. . . . . WITH ITEM NO.1-2	1	1	1	
10	1A	03168901	CAP SCREW . . . . .	1	1	1	

Quote when ordered

Table No.	Item No.	Part/Ordering No.	DESIGNATION	Qty for engine type		
				E 80	E 85	E 89
10	18	40023600	WASHER 36X44X4. . . . .	1	1	1
10	2	50045700	OIL SEAL B 75X90X8. . . . .	1	1	1
10	3	03039701	GEARWHEEL FOR CRANKSHAFT. . . . .	1	1	1
10	4	03039402	GEARWHEEL FOR CAMSHAFT . . . . .	1	1	1
10	5	03022800	FLANGED SHAFT . . . . .	1	1	1
10	6	50054100	ALLEN SCREW M 10X30 . . . . .	4	4	4
10	7	50002900	SPRING WASHER 10. . . . .	4	4	4
10	8	50047200	CYL.ROLLER BEARING NJ 306 . . . . .	1	1	1
10	9	50045100	OIL SEAL B 30X50X12 . . . . .	1	1	1
10	10	50011500	FITTING KEY A 8X7X35 . . . . .	1	1	1
10	11	03022700	FLANGE HUB . . . . .	1	1	1
10	12	50004800	THREADED PIN AM 10X15 . . . . .	1	1	1
10	13	50053800	ALLEN SCREW M 10X25 . . . . .	4	4	4
10	14	50002900	SPRING WASHER 10. . . . .	4	4	4
AUTOMATIC DECOMPRESSION						
=====						
10	16	00328300	DECOMPRESSION SHAFT . . . . .	1	1	1
10	21	03027600	GEARWHEEL . . . . .	1	1	1
10	22	50034100	PIN 3X16 . . . . .	1	1	1
10	23	03026400	PIN . . . . .	1	1	1
10	24	40021600	WASHER 2,5X4,9X1,2. . . . .	2	2	2
10	25	03151200	PLATE SPRING. . . . .	1	1	1
10	26	03151300	SECURITY PLATE . . . . .	1	1	1
10	27	50025500	HEXAGON SCREW M 6X12. . . . .	2	2	2
10	28	00335200	PUSHROD WITH FLANGED TOP. . . . .	1	1	1
10	29	03000401	CAP . . . . .	1	1	1
10	30	03174402	PRESSURE SPRING . . . . .	1	1	1
10	31	40030900	CIRCLIP SEEGER SW 10. . . . .	1	1	1
SPEED CONTROL LEVER WITH SEGMENT						
=====						
10	33	03087600	ADJUSTING PLATE * . . . . .	1	1	1
10	33	03076100	ADJUSTING PLATE ** . . . . .	1	1	1
10	34	03074600	LOCK . . . . .	1	1	1
10	35	03072200	HANDLEVER . . . . .	1	1	1
10	36	03075900	PAWL. . . . .	1	1	1
10	37	03217700	SPRING . . . . .	1	1	1
10	38	50026000	HEXAGON SCREW M 6X30. . . . .	1	1	1
10	39	50022700	HEXAGON NUT M 6 . . . . .	1	1	1
10	40	50046700	CYL.SCREW 3X12 . . . . .	1	1	1

\* NO LOAD,N= 1700,N=2000

\*\* NO LOAD,N= 2000,N=2500

Составить ведомость материалов

№ п/п	Код	Наименование	Единица измерения	Количество	Значение	Значение
№ п/п	Код	Наименование	Единица измерения	Количество	Значение	Значение
10	41	50046800	CYLINDER SCREW 3X16	1	1	1
10	42	03286200	ADJUSTING PLATE *	1	1	1
10	43	50046700	CYLINDER SCREW 3X12	2	2	2
10	44	03076200	ADJUSTING PLATE	1	1	1
10	45	50046700	CYLINDER SCREW 3X12	2	2	2
10	46	00306900	BELT GUARD	1	1	1
* N=1500, N=2500						





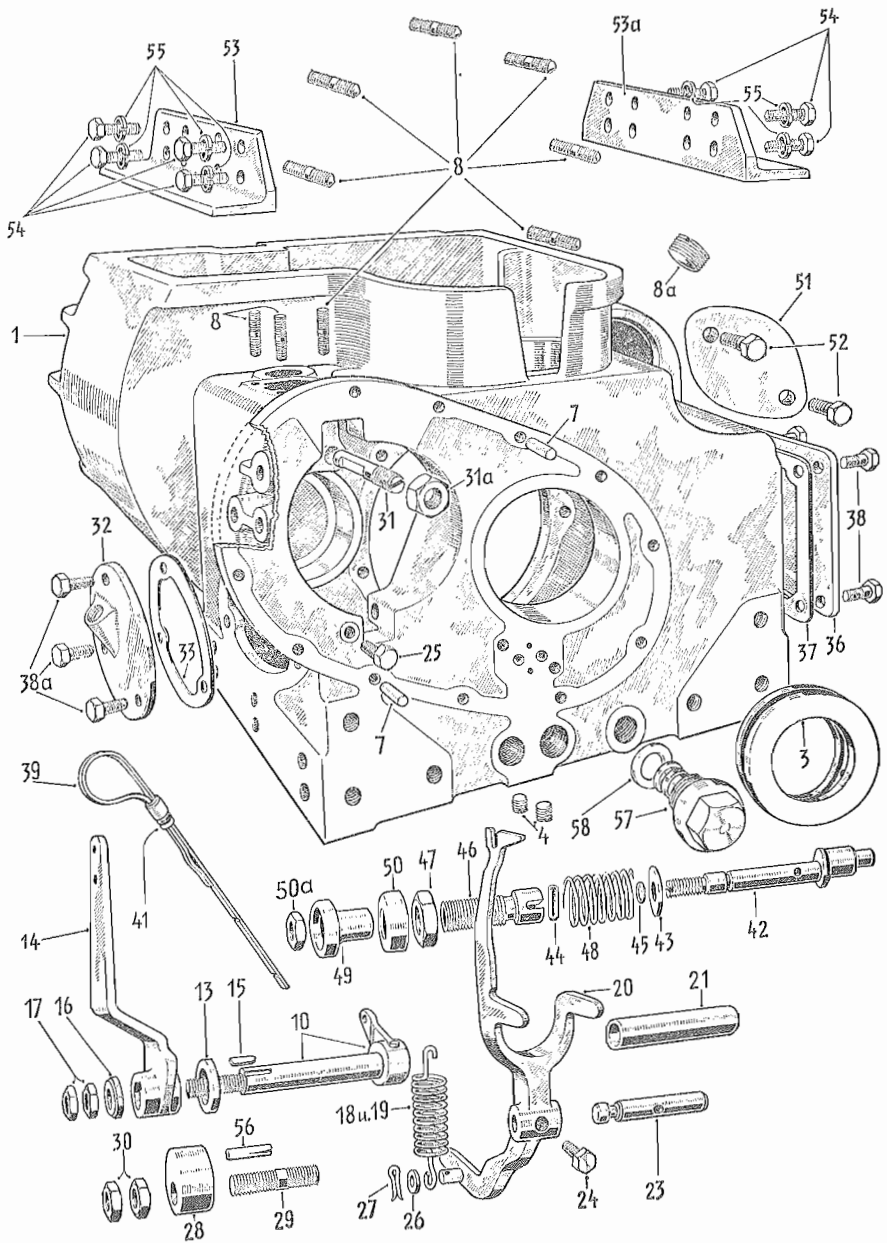
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## Table 1-10

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# Table 1



# Table 2

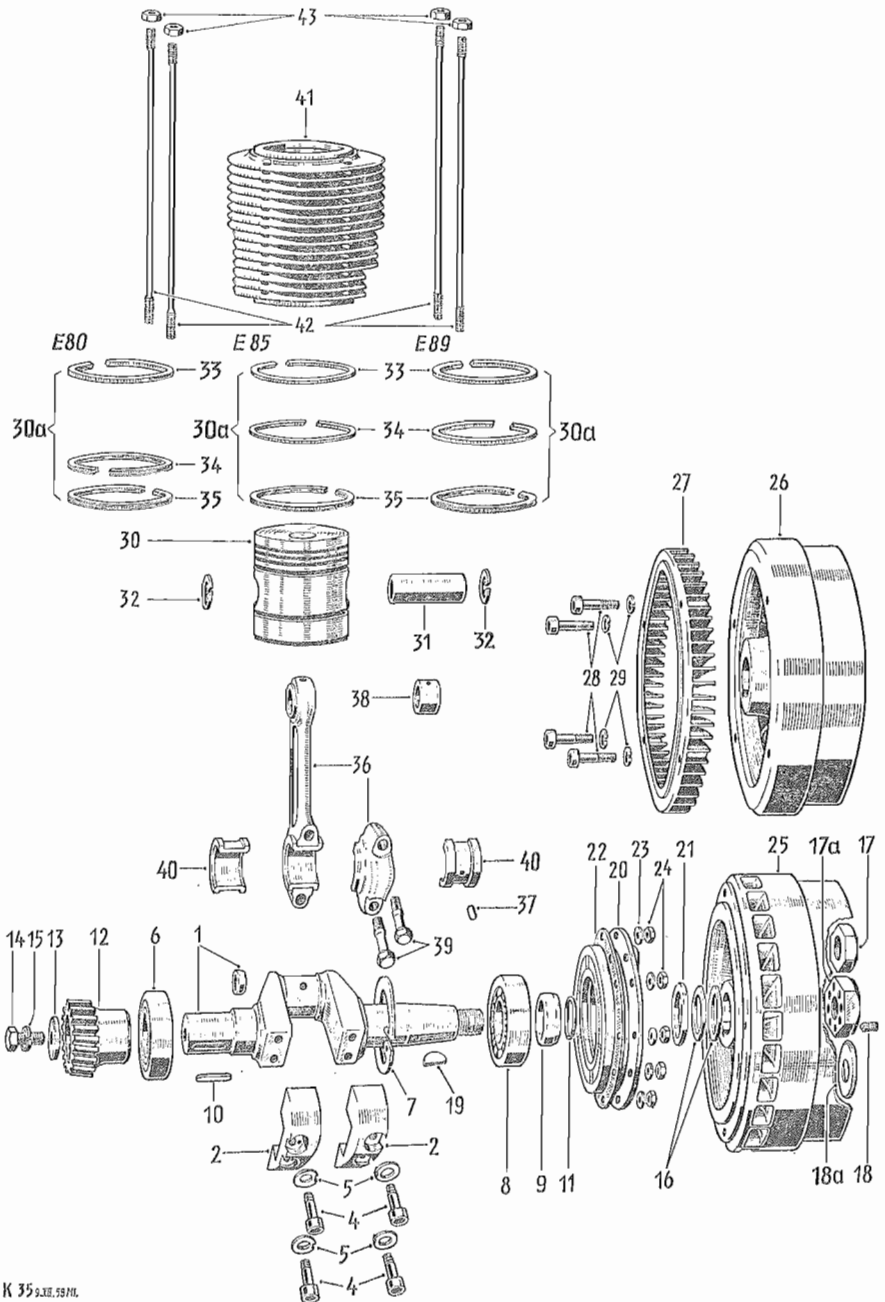
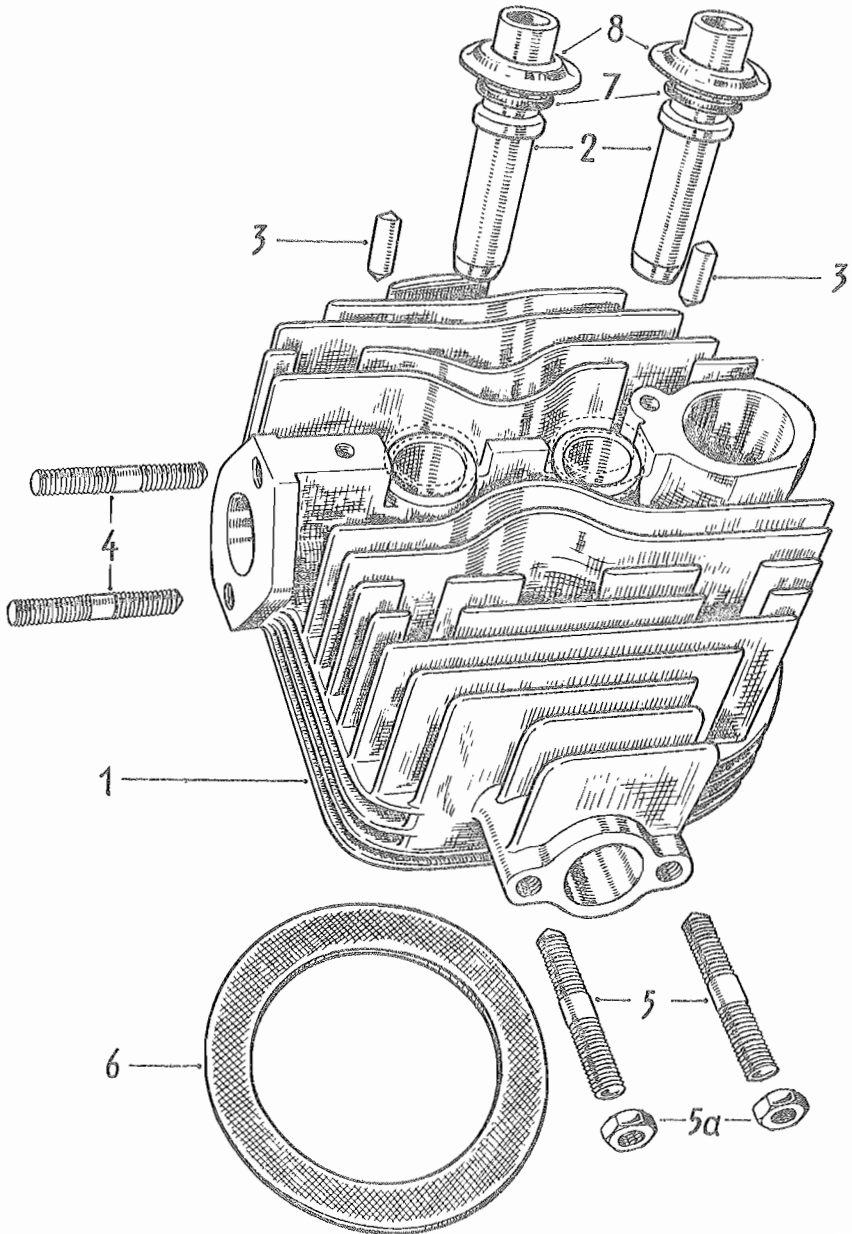
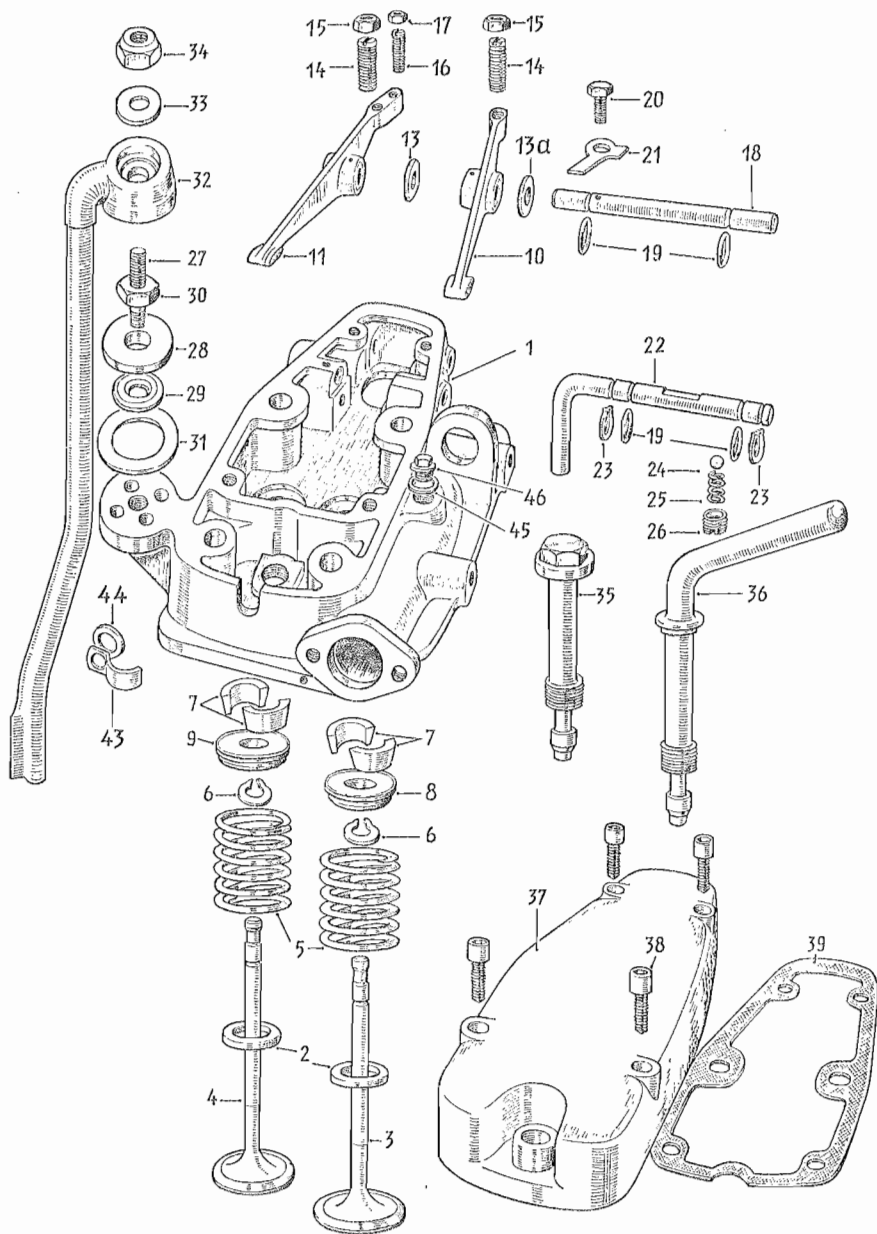


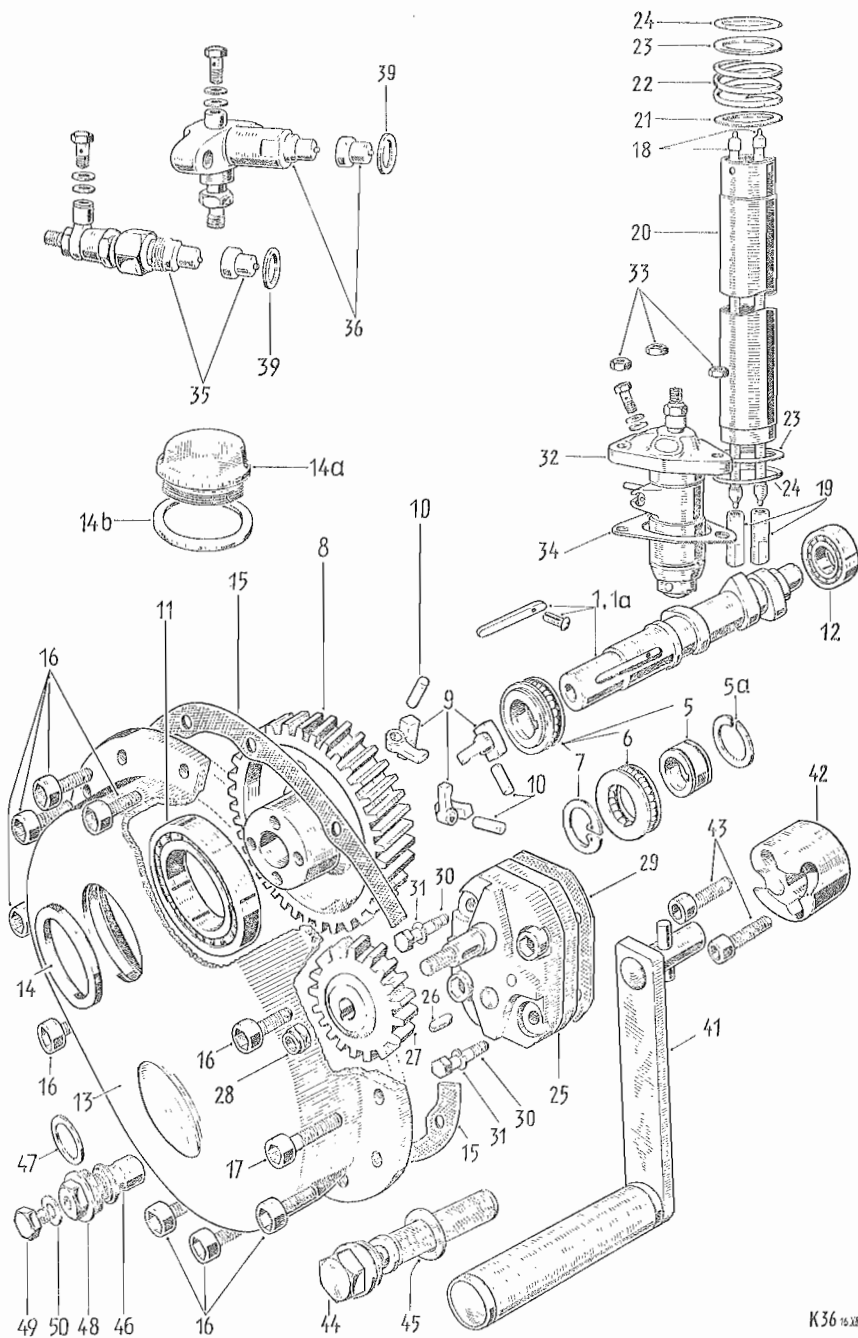
Table 3



# Table 4

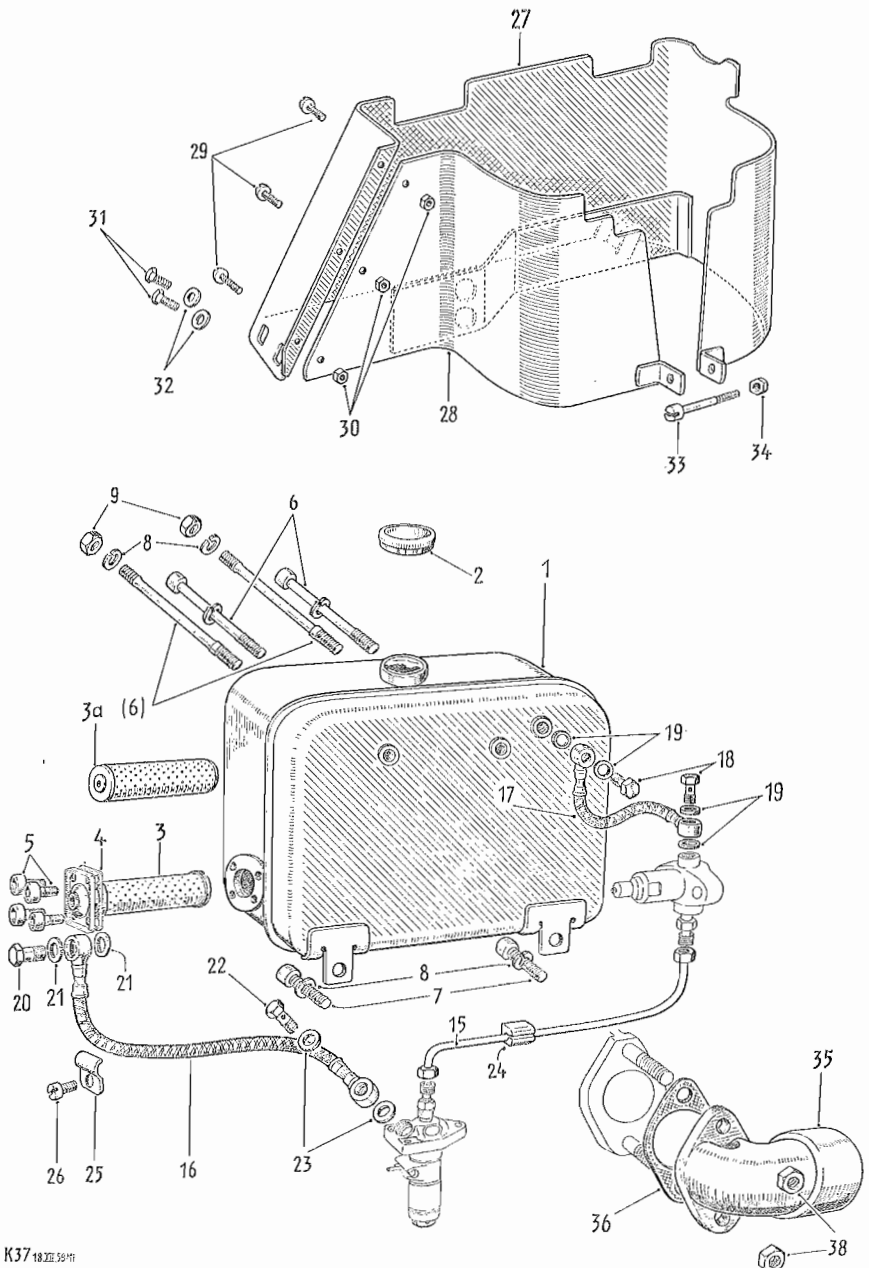


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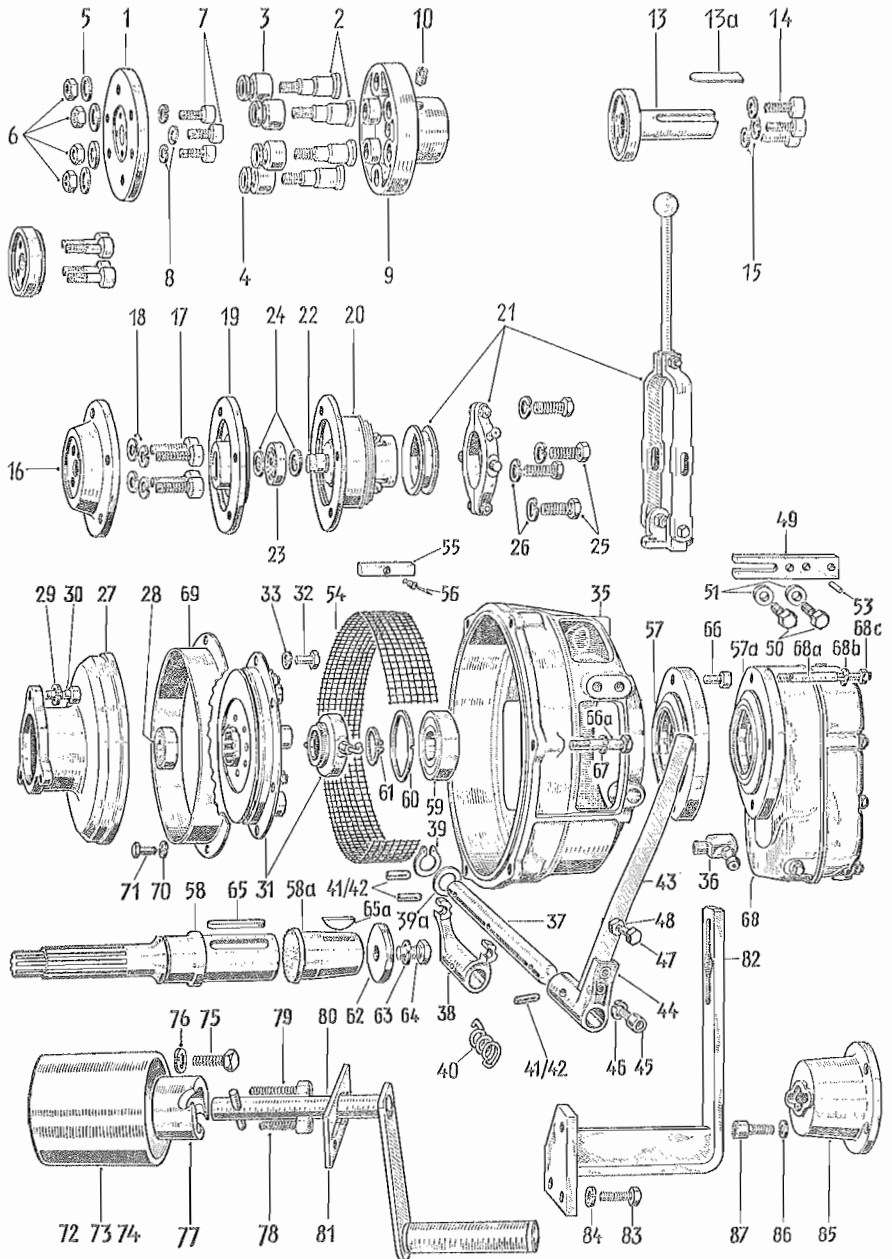




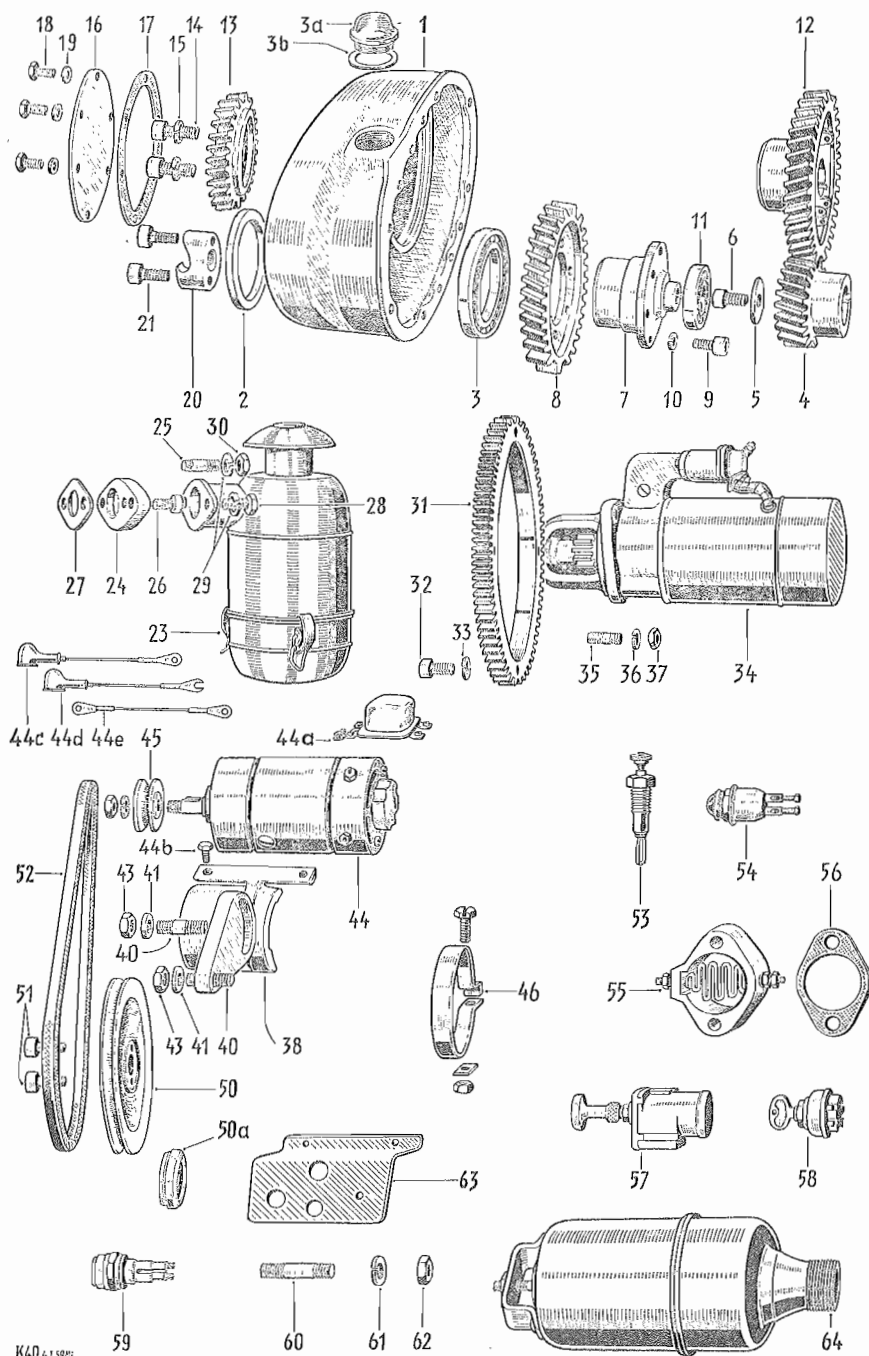
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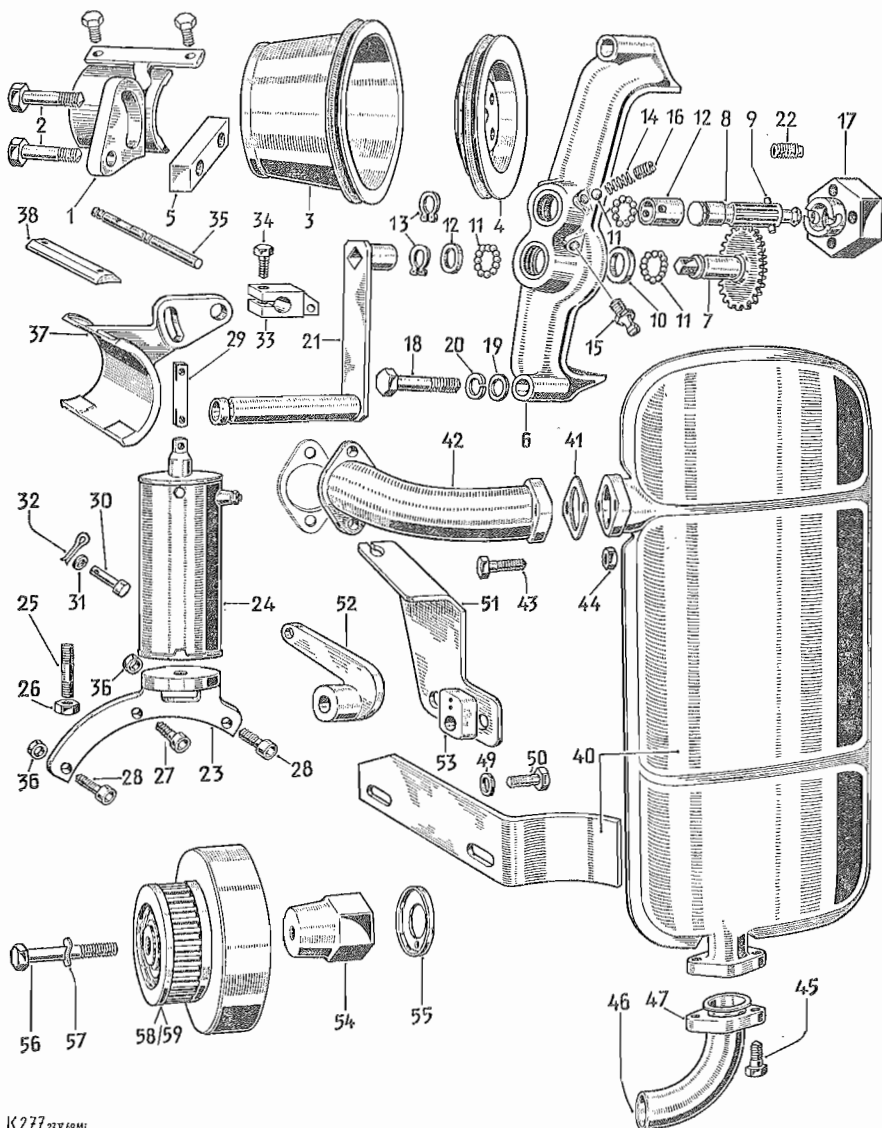
# Table 7



# Table 8



# Table 9



K277 21.1.1991.

# Table 10

