

Index

Introduction

English



Français



Español

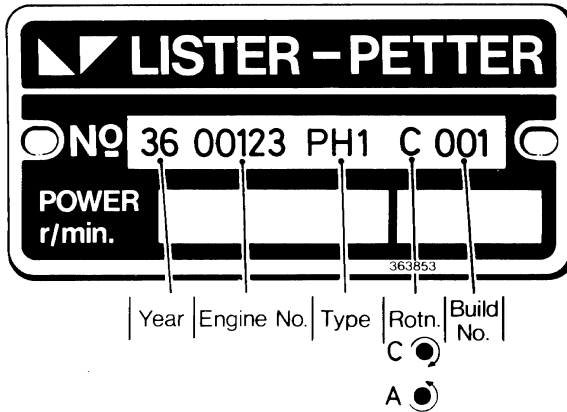


ASSOCIATED PUBLICATIONS

WORKSHOP MANUAL
OPERATORS HANDBOOK

MANUAL No. 027-08184
BOOK No. 027-08229

To ensure that you receive exactly the right parts, it is essential for you to quote both the part number and the engine number.



Sample Engine Number Plate

IMPORTANT

When purchasing parts or giving instructions for repairs, customers should in their own interest, always specify:

Genuine Lister-Petter Parts

Parts that have not been supplied by the Lister-Petter organisation cannot be relied upon for correct material, dimensions or finish LISTER-PETTER LTD. cannot therefore be responsible for any damage arising from the use of such parts and the guarantee will be invalidated.

In your own interest, therefore, specify

GENUINE LISTER-PETTER PARTS

Produced by the Technical Publications Department of
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IMPORTANT

REPLACEMENT PARTS - DIRECTIONS FOR ORDERING

1. This Parts list contains illustrations, and a list of replacement parts for the engine, together with the more usual accessories and optional extras. The list is completed for engines in current production and, when compiled, contains no obsolescent or obsolete parts. No amendments will be forwarded for this Parts List.
2. A specimen Order Form for replacement parts can be found at the back of the book, and when ordering always quote '**ENGINE NO., PART NO.**', and '**DESCRIPTION OF PART**'. When ordering complete Optional Extras or Accessories always quote **ENGINE DESIGNATION PH1 or PH2**.
3. The PH1 & 2 Diesel Engines are manufactured to a number of standard Builds. The Build can be identified by the last 3 digits of the engine number which will be found on the plate attached to the Rocker Box. (See sample engine plate on page 2).
4. **STANDARD ROTATION** - is Clockwise looking on the flywheel end.
Anticlockwise engines are available.
5. Main bearings and big end bearings can be supplied undersize. Pistons and piston rings can be supplied oversize. Piston rings are only supplied in complete sets, and Pistons are supplied complete with piston rings, gudgeon pin and circlips.
6. Undersize and oversize measurements are 0.25mm, 0.51 mm, 0.76mm and 1.02mm.
7. All parts included in an assembly are indented. When an individual item cannot be purchased by itself no part number is quoted.

AVIS IMPORTANT

PIECES DE RECHANGE - CONSIGNES POUR COMMANDER

1. Cette nomenclature contient des illustrations et une liste des pièces de rechange pour le moteur, ainsi que les accessoires les plus usuels et les éléments supplémentaires à option. La liste est dressée pour les moteurs en fabrication courante et, au moment de sa rédaction, ne comprend aucune pièce tombée en désuétude ou hors d'usage. Aucune mise à jour ne sera diffusée pour cette liste de pièces.
2. Un exemple de la formule de commande pour les pièces de rechange se trouve à la page 136. En dressant la commande, toujours citer les: **No. DU MOTEUR, No. DE LA PIECE** ainsi que **LA DESIGNATION DE LA PIECE**. Pour commander les éléments supplémentaires à option ou les accessoires complete toujours citer **LA DESIGNATION DU MOTEUR PH1 ou PH2**.

IMPORTANTE

REPUESTOS - COMO PEDIRLOS

1. Esta Lista de Repuestos contiene ilustraciones y una lista de recambios para el motor, juntas con los accesorios más usuales y extras opcionales. Es una lista completa para motores actualmente en producción; no contiene partes en camino al desuso ni piezas anticuadas. No emitiremos modificación alguna a esta lista.
2. En la página 136 hallará Vd. una Nota de Pedido ejemplar. Al necesitar repuestos cite siempre el **NUMERO DE REGISTRO DEL MOTOR**, el **NUMERO DEL REPUESTO** y su **DESCRIPCION**. Al pedir Extras Opcionales completas o Accesorios, cite siempre la **DESIGNACION DEL MOTOR PH1 o PH2**.

PH1 & 2

INDEX BUILD 001

| Description | Page No. |
|------------------------------------|----------|
| CAMSHAFT | 32 |
| CRANKCASE | 10 |
| CRANKSHAFT | 24 |
| CONNECTING ROD | 26 |
| COWLING | 30 |
| CYLINDER BARREL | 18 |
| CYLINDER HEAD | 20 |
| CYLINDER HEAD COVER | 20 |
| DIPSTICK | 10 |
| EXHAUST MANIFOLD - PH2 | 28 |
| FLYWHEEL | 24 |
| FUEL PUMP | 12 |
| FUEL PIPES | 34 |
| GEAR END COVER | 16 |
| GOVERNOR | 32 |
| INJECTOR | 20 |
| LUBRICATING OIL PIPES | 34 |
| LUBRICATING OIL PUMP | 36 |
| LUBRICATING OIL RELIEF VALVE | 38 |
| PISTON | 26 |

VARIATIONS FROM BUILD 001

| | |
|-----------------|----|
| BUILD 002 | 42 |
| BUILD 003 | 42 |
| BUILD 005 | 44 |
| BUILD 006 | 48 |
| BUILD 007 | 49 |
| BUILD 008 | 50 |
| BUILD 009 | 52 |
| BUILD 010 | 53 |
| BUILD 011 | 54 |
| BUILD 012 | 56 |

PH1 & 2

INDICE MODELO 001

| Descripcion | Pagina |
|---------------------------|--------|
| EJE DE LEVAS | 32 |
| CARTER | 10 |
| ELE CIGUENAL | 24 |
| BEILA | |
| CAPERUZA DE AIRE | 30 |
| CUERPO DE CILINDRO | 16 |
| CULATA DE CILINDRO | 20 |
| ELEMENTOS DE CULATA | 20 |
| MEDIDOR DE ACEITE | 10 |
| VOLANTE | 24 |
| BOMBA DE ASPIRACION | 12 |
| TUBERIA | 34 |
| TAPA TERMINAL | 16 |
| REGULADOR | 32 |
| INYECTOR | 20 |
| TUBERIA DE ACEITE | 34 |
| BOMBA DE ACEITE | 36 |
| VALVULA DE ALIVIO | 38 |
| PISTON | 26 |
| MULTIPLES - PH2..... | 28 |

VARIACIONES DEL MODELO 001

| | |
|------------------|----|
| MODELO 002 | 42 |
| MODELO 003 | 42 |
| MODELO 005 | 44 |
| MODELO 006 | 48 |
| MODELO 007 | 49 |
| MODELO 008 | 50 |
| MODELO 009 | 52 |
| MODELO 010 | 53 |
| MODELO 011 | 54 |
| MODELO 012 | 56 |

PH1 & 2

REPertoire TYPE DE CONSTRUCTION 001

| Designation | Page No |
|----------------------------------|---------|
| ARBRE A CAMES | 32 |
| CARTER MOTEUR | 10 |
| VILEBREQUIN | 24 |
| BIELLE | 26 |
| POTAGES | 30 |
| CYLINDRE-FUT | 18 |
| CYLINDRE-CULASSE | 20 |
| CAPOT DE CULASSE | 20 |
| JAUGE DE NIVEAU | 10 |
| VOLANTE | 24 |
| POMPE A CARBURANT | 12 |
| TUYAUTERIES | 34 |
| COUVERCLE DE DISTRIBUTION | 16 |
| REGULATEUR | 32 |
| INJECTEUR | 20 |
| TUYAU D'HUILE DE GRAISSAGE | 34 |
| POMPE D'HUILE DE GRAISSAGE | 36 |
| CLAPET DE SURET | 38 |
| PISTON | 26 |
| COLLECTEURS - PH2 | 28 |

VARIANTES DU TYPE DE CONSTRUCTION 001

| | |
|--------------------------------|----|
| TYPE DE CONSTRUCTION 002 | 42 |
| TYPE DE CONSTRUCTION 003 | 42 |
| TYPE DE CONSTRUCTION 005 | 44 |
| TYPE DE CONSTRUCTION 006 | 48 |
| TYPE DE CONSTRUCTION 007 | 49 |
| TYPE DE CONSTRUCTION 008 | 50 |
| TYPE DE CONSTRUCTION 009 | 52 |
| TYPE DE CONSTRUCTION 010 | 53 |
| TYPE DE CONSTRUCTION 011 | 54 |
| TYPE DE CONSTRUCTION 012 | 56 |

PH1 & 2

INDEX ACCESSORES

| Description | Page No |
|----------------------------------|---------|
| AIR CLEANERS | 58 |
| CLUTCH | 68 |
| DIPSTICK - Gear End | 120 |
| EXHAUST MANIFOLD - PH1 | 129 |
| EXTENSION SHAFT | 64+66 |
| FUEL TANK - 6.8L | 86 |
| FUEL TANK - 1.8L | 90 |
| FUEL FEED PUMP | 92 |
| FLEXIBLE FUEL PIPES | 94 |
| FOUNDATION BOLTS | 132 |
| GUARDS:- | |
| ALTERNATOR DRIVE BELT | 106 |
| BLANKED OFF GEAR END | 98 |
| EXTENSION SHAFT | 100+102 |
| FLYWHEEL | 104+108 |
| STARTING SHAFT | 96 |
| HYDRAULIC PUMP ADAPTOR | 110+112 |
| JOINT SETS | 40 |
| INLET MANIFOLDS | 60 |
| LUBRICATING OIL FILTER | 124 |
| PULLEY | 74 |
| STARTING:- | |
| COUPLED DECOMPRESSOR | 84 |
| STARTING SHAFT | 62 |
| STARTING HANDLE | 76 |
| STARTER MOTOR & ALTERNATOR | 78+80 |
| START PANEL & HARNESS | 134 |
| SILENCERS | 128+130 |
| SPEED CONTROL:- | |
| FIXED | 114 |
| VARIABLE | 116+122 |

PH1 & 2

INDICE ACCESORIOS

| Descripcion | Pagina |
|--|---------|
| FILTRO DE AIRE | 58 |
| EMÈBRAGUE | 68 |
| MEDIDOR DE ACEITE | 120 |
| PROLONGACIONES | 64+66 |
| TANGUES DE COMBUSTIBLE | 86+90 |
| BOMBA DE ASPIRACION DE COMBUSTIBLE | 92 |
| TUBERIA - Flexible | 94 |
| PERNOS DE ANCLAJE | 132 |
| GUARDAS:- | |
| ALTERNADOR | 106 |
| PROLONGACIONES | 96+102 |
| VOLANTE | 104+108 |
| ADAPTADOR | 110+112 |
| MULTIPLES | 60+129 |
| FILTRO DE ACEITE | 124 |
| POLEA | 74 |
| ARRANQUE:- | |
| DESCOMPRESORES ACOPLADOS | 84 |
| PROLONGACION | 62 |
| MANIVELAS DE ARRANQUE | 76 |
| MOTOR DE ARRANQUE Y ALTERNADOR | 78+80 |
| PANEL DE ARRANQUE | 134 |
| SILENCIADOR | 128+130 |
| REGULADOR DE VELOCIDAD | 114+122 |
| JUEGO DE JUNTAS | 40 |

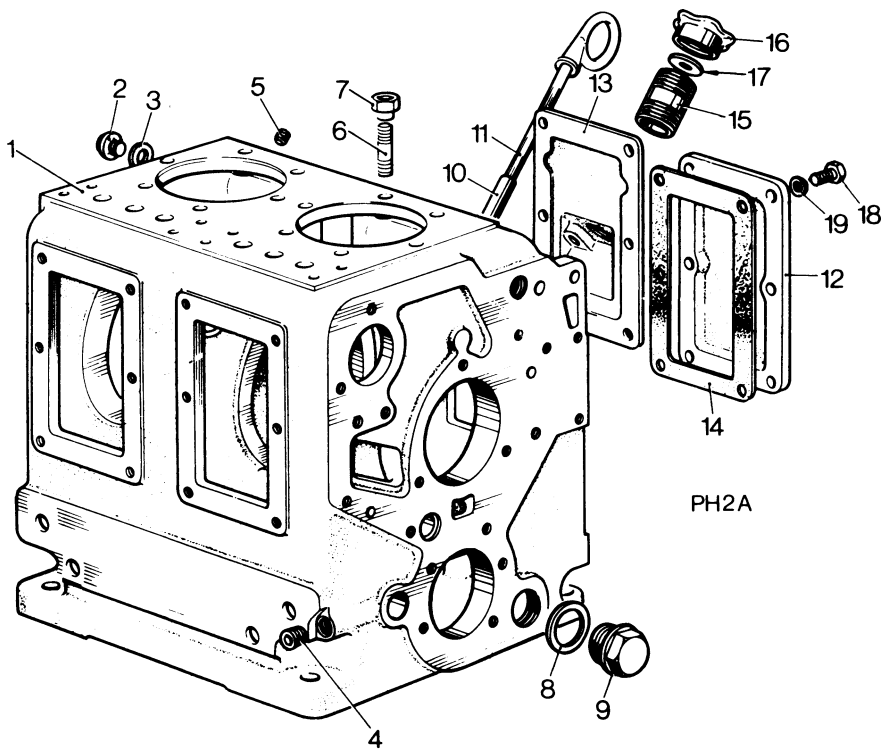
PH1 & 2

REPertoire ACCESSOIRES

| Designation | Page No |
|--|---------|
| EPURATEUR D'AIR | 58 |
| EMBAYAGE | 68 |
| PIGE DE NIVEAU D'HUILE | 120 |
| EXTENSIONS | 64+66 |
| RESERVOIR A CARBURANT | 86+90 |
| POMPE D'ELEVATION DE CARBURANT | 92 |
| TUYAU DE CARBURANT - Flexible | 94 |
| BOULONS DE FIXATION | 132 |
| CARTERS DE PROTECTION:- | |
| ALTERNADOR | 106 |
| EXTENSIONS | 96+102 |
| VOLANTE | 104+108 |
| ADAPTATEUR | 110+112 |
| COLLECTEURS | 60+129 |
| FILTRE A HUILE DE GRAISSAGE | 124 |
| POULIE | 74 |
| DEMARRAGE:- | |
| DESCOMPRESSEURS ACCOUPLES | 84 |
| EXTENSION | 62 |
| MANIVELLES DE DEMARRAGE | 76 |
| MOTEUR DE DEMARRAGE et ALTERNATEUR | 78+80 |
| PANNEAU DE COMMANDE | 134 |
| SILENCIEUX | 128+130 |
| COMMANDE DE VITESSE | 114+122 |
| POCHETTE DE JOINTS | 40 |

PH1 & 2 BUILD 001

| Illus No. | Description | Part No. | PH | |
|------------------|------------------------------------|----------|----|----|
| | | | 1 | 2 |
| CRANKCASE | | | | |
| - | CRANKCASE - 1 cyl - Includes | 147767 | 1 | - |
| 1 | - 2 cyl | 406519 | - | 1 |
| 2 | PLUG - Oilway | 317267 | 1 | 1 |
| 3 | COPPER WASHER | 843105 | 1 | 1 |
| 4 | PLUG | 823002 | 2 | 2 |
| 5 | PLUG - Taper | 360945 | 2 | 2 |
| 6 | STUD - Cylinder | 361103 | 6 | 12 |
| 7 | NUT | 360575 | 6 | 12 |
| 8 | WASHER - Copper | 843157 | 1 | 1 |
| 9 | PLUG - Sump Drain | 267002 | 1 | 1 |
| 10 | TUBE - Dipstick | 364624 | 1 | 1 |
| 11 | DIPSTICK | 363502 | 1 | 1 |
| 12 | DOOR | 150124 | - | 1 |
| 13 | DOOR - Oil Filler | 284659 | 1 | 1 |
| 14 | JOINT | 360267 | 1 | 2 |
| 15 | EXTENSION - Oil Filler | 257608 | 1 | 1 |
| 16 | CAP- Oil Filler | 257607 | 1 | 1 |
| 17 | JOINT | 258432 | 1 | 1 |
| 18 | SETSCREW - 5/16" BSF x 3/4" | 722025 | 6 | 12 |
| 19 | SPRING WASHER | 786029 | 6 | 12 |

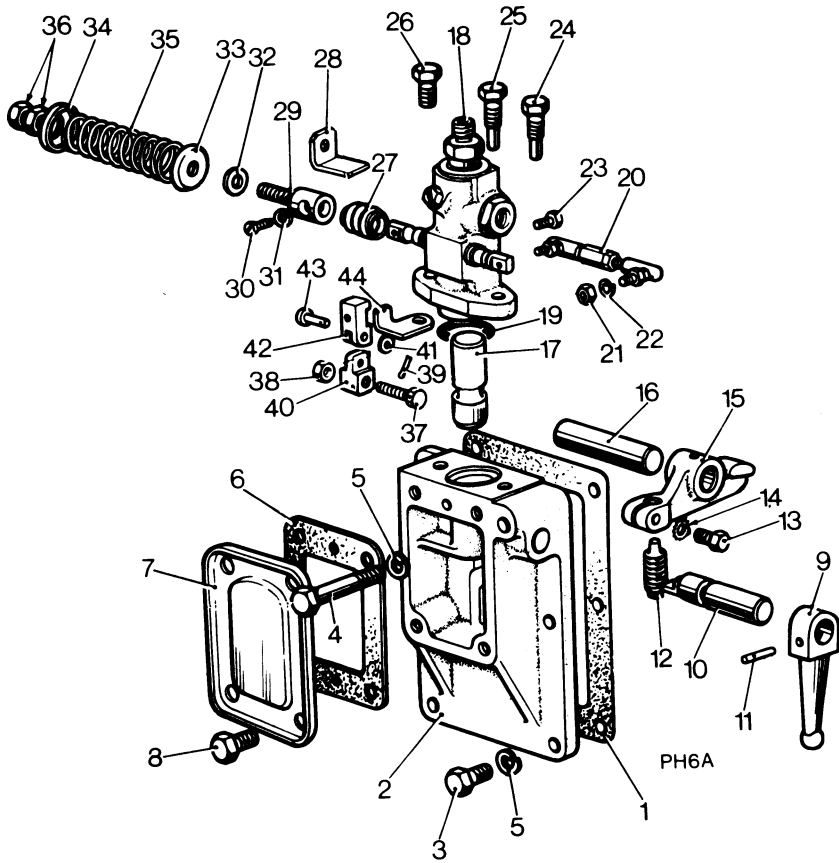


PH2A

CRANKCASE © 1987

PH1 & 2 BUILD 001

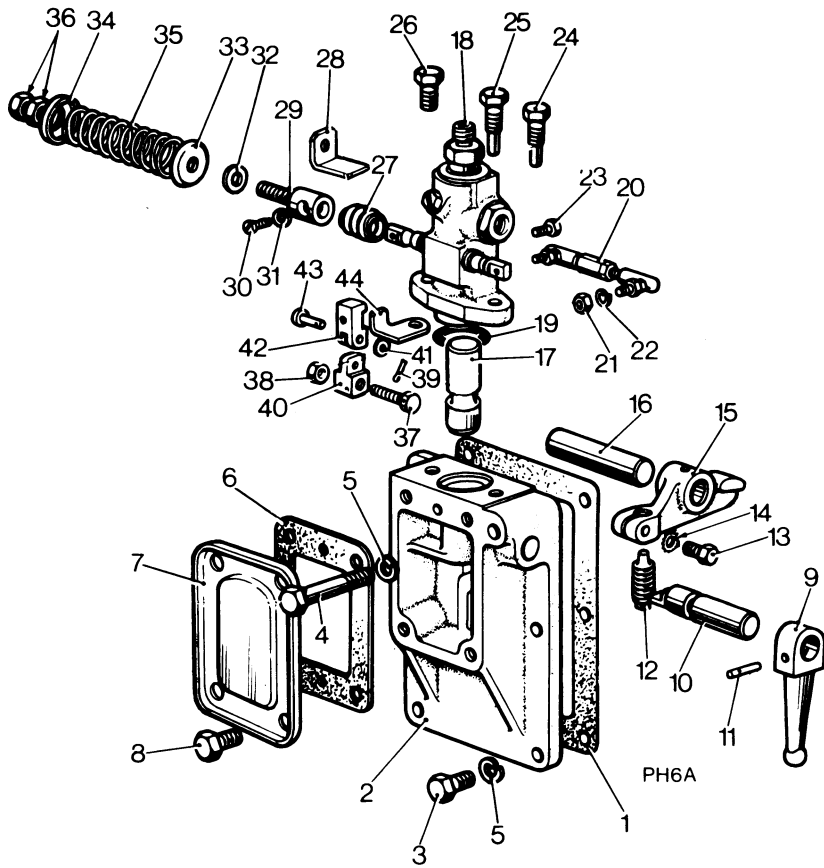
| Illus No. | Description | Part No. | PH | |
|------------------|--|----------|----|----|
| | | | 1 | 2 |
| FUEL PUMP | | | | |
| 1 | JOINT - Fuel Pump Bracket | 360271 | 1 | 2 |
| 2 | BRACKET - Fuel Pump | 190190 | 1 | 2 |
| 3 | SETSCREW - 5/16" BSF x 3/4" | 722025 | 5 | 10 |
| 4 | BOLT - 5/16" BSF x 2.1/2" | 725035 | 1 | 2 |
| 5 | SPRING WASHER | 786029 | 6 | 12 |
| 6 | JOINT - Fuel Pump Housing Cover | 360276 | 1 | 2 |
| 7 | COVER - Fuel Pump Housing | 317745 | 1 | 2 |
| 8 | SETSCREW- 5/16" BSF x 1/2" | 722023 | 4 | 8 |
| 9 | LEVER - Fuel Pump Priming | 205394 | 1 | 2 |
| 10 | SHAFT - Fuel Pump | 204942 | 1 | 2 |
| 11 | PIN | 772111 | 1 | 2 |
| 12 | SCREW - Fuel Pump Rocker Adj | 340325 | 1 | 2 |
| 13 | SETSCREW - 1/4" BSF x 3/4" | 722003 | 1 | 2 |
| 14 | WASHER | 786006 | 1 | 2 |
| 15 | ROCKER - Fuel Pump | 269256 | 1 | 2 |
| 16 | SPINDLE - Fuel Pump Rocker | 204936 | 1 | 2 |
| 17 | TAPPET - Fuel Pump | 336883 | 1 | 2 |
| 18 | FUEL PUMP | 273014 | 1 | 2 |
| 19 | JOINT | 361958 | 1 | 2 |
| 20 | LINK - Fuel Pump Rack - 2 Cyl only | 250888 | - | 1 |
| 21 | NUT - 2BA | 716001 | - | 2 |
| 22 | WASHER | 785005 | - | 2 |
| 23 | SETSCREW - 2BA x 1/2" | 712007 | 1 | 2 |
| 24 | SETSCREW - Fuel Pump | 204927 | - | 1 |
| 25 | SETSCREW - Overload Stop | 251003 | 1 | 1 |
| 26 | SETSCREW - 5/16" BSF x 3/4" | 722025 | 1 | 2 |
| 27 | BELLOWS - Fuel Pump Rack | 256188 | 2 | 4 |



FUEL PUMP © 1987

PH1 & 2 BUILD 001

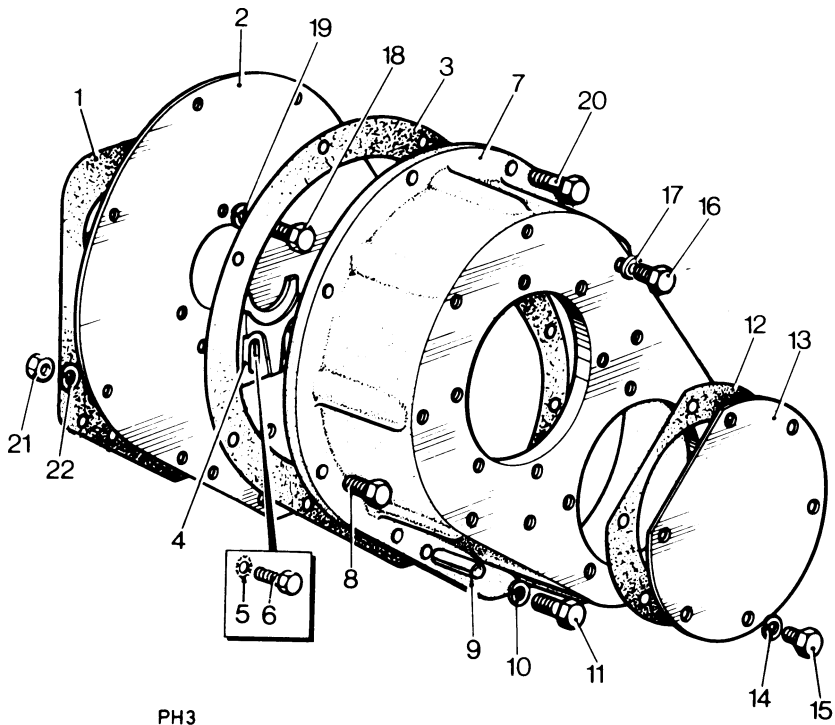
| Illus No. | Description | Part No. | PH | |
|--------------------------|---------------------------------------|----------|----|---|
| | | | 1 | 2 |
| FUEL PUMP (Cont.) | | | | |
| 28 | STOP - Pump Rack | 259270 | 1 | 1 |
| 29 | ROD - Fuel Pump Rack Extension | 256815 | 1 | 1 |
| 30 | SCREW - Extension Rod Locating | 253493 | 1 | 1 |
| 31 | SPRING WASHER | 786003 | 2 | 3 |
| 32 | COPPER WASHER | 843103 | 1 | 1 |
| 33 | COLLAR - Speeder Spring | 204928 | 1 | 1 |
| 34 | COLLAR - Speeder Spring | 256650 | 1 | 1 |
| 35 | SPEEDER SPRING | 256923 | 1 | 1 |
| 36 | LOCKNUT - 5/16" BSF | 726017 | 2 | 2 |
| 37 | SCREW - Overload Adjusting | 252688 | 1 | 1 |
| 38 | NUT - 1/4" BSF | 726001 | 1 | 1 |
| 39 | SPLIT PIN | 773001 | 1 | 1 |
| 40 | PAWL - Fuel Pump Rack Extension | 250883 | 1 | 1 |
| 41 | WASHER | 785005 | 1 | 1 |
| 42 | FORK - Fuel Pump Rack Extension | 250881 | 1 | 1 |
| 43 | PIN - Pawl | 250882 | 1 | 1 |
| 44 | STOP - Overload | 252687 | 1 | 1 |



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PH1 & 2 BUILD 001

| Illus No. | Description | Part No. | PH | |
|-----------------------|-------------------------------------|----------|----|---|
| | | | 1 | 2 |
| GEAR END COVER | | | | |
| 1 | JOINT - Gear Cover Plate | 272353 | 1 | 1 |
| 2 | PLATE - Gear Cover | 194529 | 1 | 1 |
| 3 | JOINT - Gear Cover | 360270 | 1 | 1 |
| 4 | PLATE - Camshaft Thrust | 204951 | 1 | 1 |
| 5 | WASHER | 85736 | 2 | 2 |
| 6 | SETSCREW - 5/16" BSF x 3/4" | 722025 | 2 | 2 |
| 7 | END COVER | 194527 | 1 | 1 |
| 8 | BOLT - 5/16" BSF x 1.1/4" | 725029 | 2 | 2 |
| 9 | DOWEL | 266113 | 2 | 2 |
| 10 | SPRING WASHER | 786029 | 6 | 6 |
| 11 | SETSCREW - 5/16" BSF x 1.3/8" | 722030 | 6 | 6 |
| 12 | JOINT - Blanking Plate | 360268 | 1 | 1 |
| 13 | BLANKING PLATE | 254475 | 1 | 1 |
| 14 | SPRING WASHER | 786029 | 6 | 6 |
| 15 | SETSCREW - 5/16" BSF x 1/2" | 722023 | 6 | 6 |
| 16 | SETSCREW - 5/16" BSF x 1/2" | 722023 | 7 | 7 |
| 17 | WASHER | 785012 | 7 | 7 |
| 18 | SETSCREW | 722024 | 4 | 4 |
| 19 | SPRING WASHER | 786029 | 4 | 4 |
| 20 | BOLT - 5/16" BSF x 1.5/8" | 725177 | 2 | 2 |
| 21 | NUT - 5/16" BSF | 726002 | 4 | 4 |
| 22 | SPRING WASHER | 786029 | 4 | 4 |



PH3

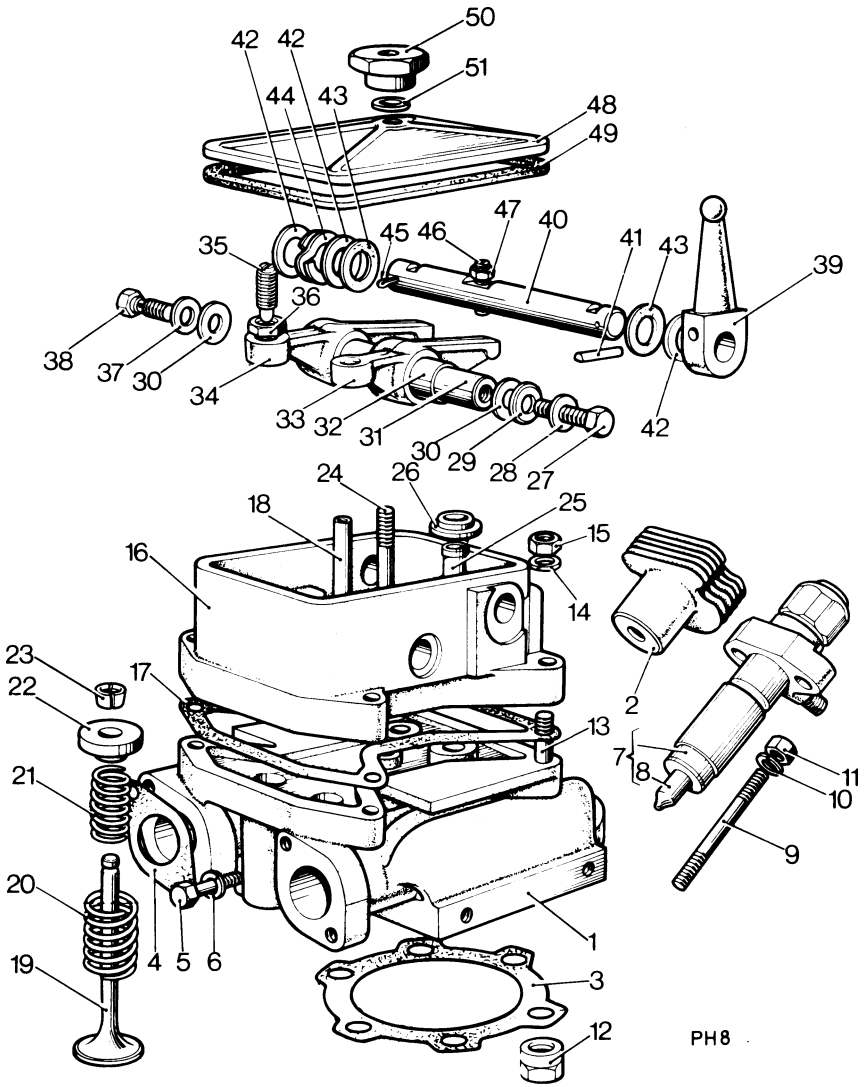
GEAR END COVER © 1987

PH1 & 2 BUILD 001

| Illus No. | Description | Part No. | PH | |
|------------------------|----------------------------------|----------|--------|----|
| | | | 1 | 2 |
| CYLINDER BARREL | | | | |
| 1 | CYLINDER BARREL - Includes | 393033 | 1 | 2 |
| | NUT - Items 15 & 16 | 360575 | 12 | 24 |
| 2 | SHIM - 0.38mm | 360658 | AsReqd | |
| | - 0.13mm | 361819 | AsReqd | |
| | - 0.08mm | 360657 | AsReqd | |
| 3 | JOINT | 336400 | 1 | 2 |
| 4 | PUSH ROD HOUSING | 299776 | 1 | 2 |
| 5 | SPRING WASHER | 786029 | 4 | 8 |
| 6 | BOLT | 722027 | 4 | 8 |
| 7 | 'O' RING - Bottom | 355708 | 2 | 4 |
| 8 | WASHER | 785521 | 2 | 4 |
| 9 | PUSH ROD TUBE | 359421 | 2 | 4 |
| 10 | SPRING - Push Rod Tube... .. | 336848 | 2 | 4 |
| 11 | SEAL | 208493 | 2 | 4 |
| 12 | ADAPTOR | 250517 | 2 | 4 |
| 13 | 'O' RING - Top | 355707 | 1 | 2 |
| 14 | STUD - Cylinder Head | 208508 | 6 | 12 |
| 15 | NUT - Cylinder Head | 360575 | 6 | 12 |
| 16 | NUT - Crankcase | 360575 | 6 | 12 |

PH1 & 2 BUILD 001

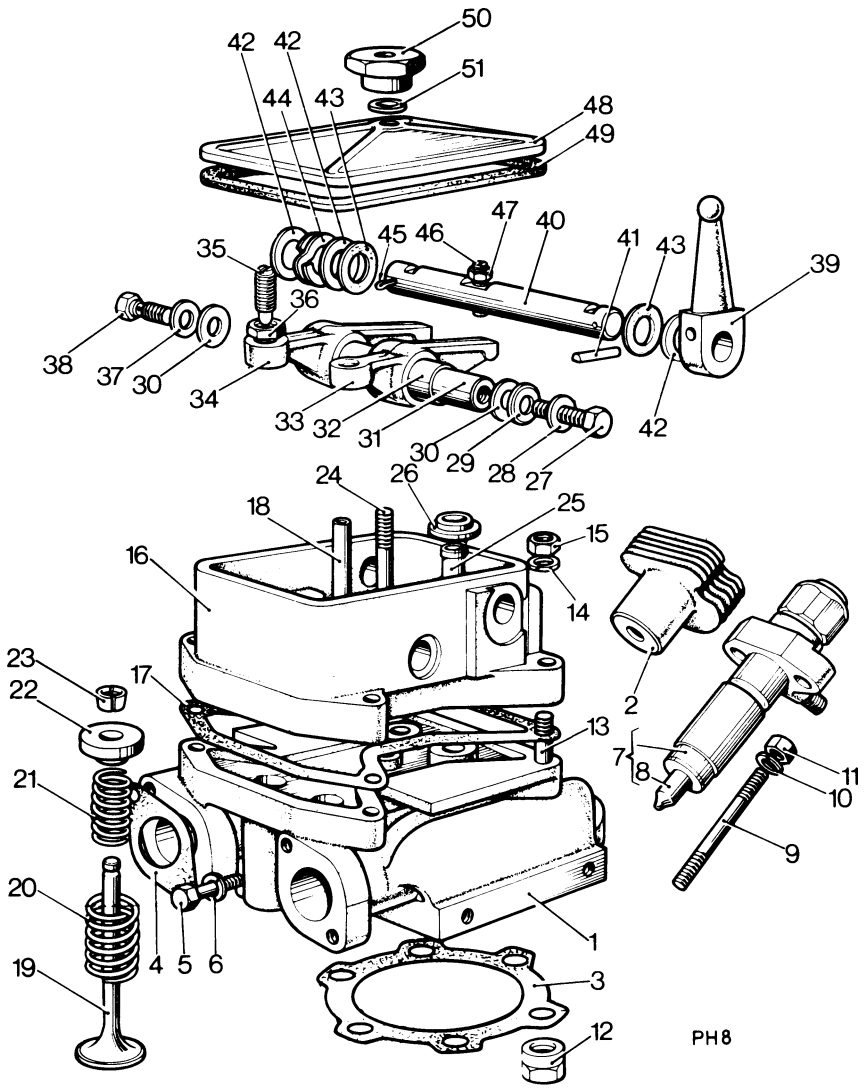
| Illus No. | Description | Part No. | PH | |
|----------------------------------|---|----------|-----|-----|
| | | | 1 | 2 |
| CYLINDER HEAD & COVER | | | | |
| 1 | CYLINDER HEAD ASSEMBLY | 392833 | 1 | 2 |
| | Includes Items 2, 18, 19, 20, 21, 22, 23, 25, 26. | | | |
| 2 | INJECTOR SLEEVE | 287267 | 1 | 2 |
| 3 | GASKET - Cylinder Head | 252670 | 1 | 2 |
| 4 | GASKET - Inlet & Exhaust Manifold | 256926 | 2 | 4 |
| 5 | SETSCREW - 5/16" BSF x 3/4" | 722025 | 4 | 8 |
| 6 | SPRING WASHER | 786029 | 4 | 8 |
| 7 | FUEL INJECTOR - Includes | 318862 | 1 | 2 |
| 8 | NOZZLE | 250437 | 1 | 2 |
| 9 | STUD - Injector | 760050 | 2 | 4 |
| 10 | SPRING WASHER | 786029 | 2 | 4 |
| 11 | NUT - 5/16" BSF | 726002 | 2 | 4 |
| 12 | NUT - Cylinder Head | 360575 | 6 | 12 |
| 13 | STUD - 5/16" BSF x 1.3/4" | 760036 | 4 | 8 |
| 14 | SPRING WASHER | 786029 | 4 | 8 |
| 15 | NUT - 5/16" BSF | 726002 | 4 | 8 |
| 16 | ROCKER BOX | 193982 | 1 | 2 |
| 17 | JOINT | 250501 | 1 | 2 |
| 18 | BREATHER TUBE | 365323 | 1 | 2 |
| 19 | VALVE - Inlet & Exhaust | 336865 | 2 | 4 |
| - | 'O' RING | 266003 | 2 | 4 |
| 20 | VALVE SPRING - Outer | 336848 | 2 | 4 |
| 21 | VALVE SPRING - Inner | 336849 | 2 | 4 |
| 22 | CUP | 336862 | 2 | 4 |
| 23 | COLLET | 336861 | 2pr | 4pr |



CYLINDER HEAD & COVER © 1987

PH1 & 2 BUILD 001

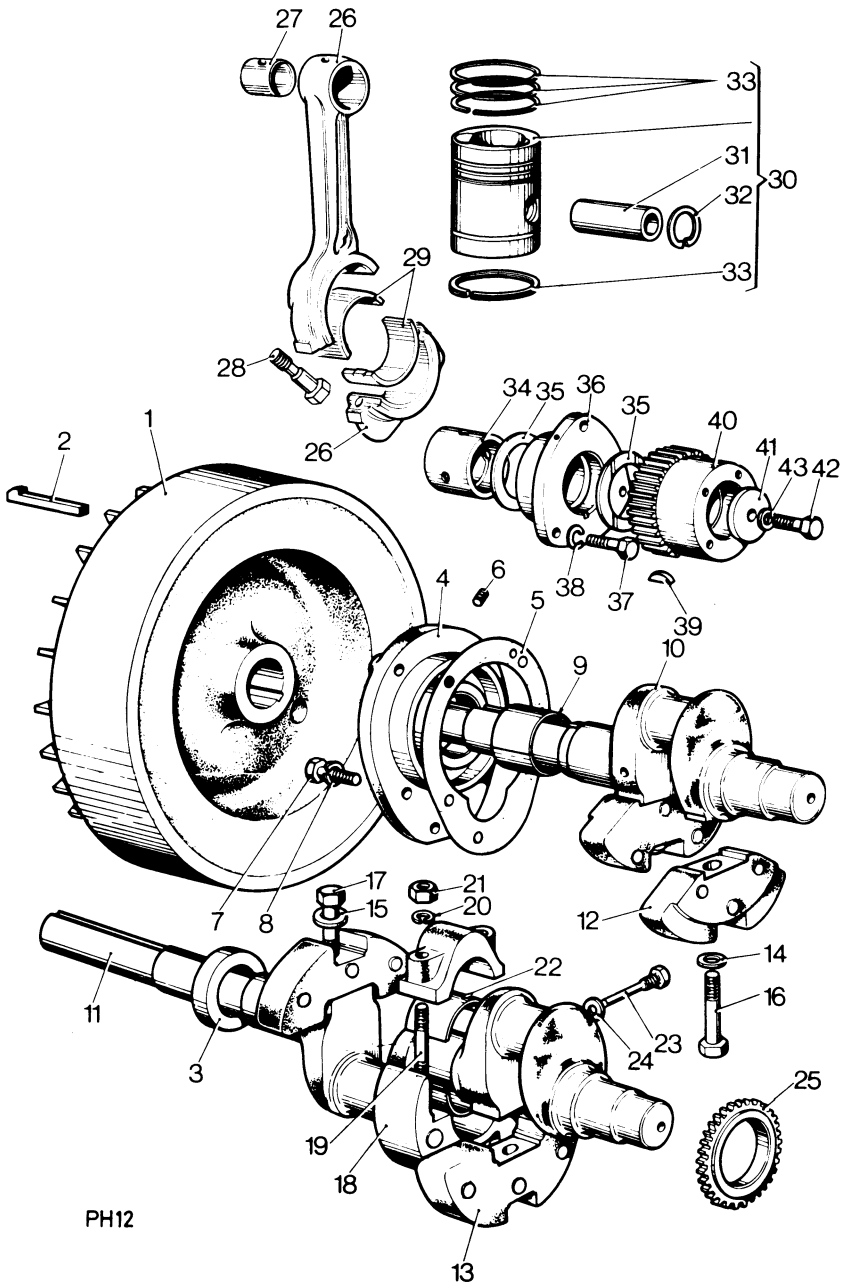
| Illus No. | Description | Part No. | PH | |
|--|---------------------------------------|----------|----|---|
| | | | 1 | 2 |
| CYLINDER HEAD & COVER (Cont.) | | | | |
| 24 | STUD - Rocker Box Cover | 252447 | 1 | 2 |
| 25 | VALVE GUIDE - Includes | 392954 | 2 | 4 |
| 26 | SPRING PLATE | | 2 | 4 |
| 27 | SETSCREW - 5/16" BSF x 1/2" | 722023 | 1 | 2 |
| 28 | COPPER WASHER | 843103 | 1 | 2 |
| 29 | WASHER | 250513 | 1 | 2 |
| 30 | WASHER | 359580 | 2 | 4 |
| 31 | SHAFT - Valve Rocker | 250504 | 1 | 2 |
| 32 | BUSH | 250500 | 2 | 4 |
| 33 | ROCKER - Inlet Valve Assembly | 391116 | 1 | 2 |
| | Includes BUSH Item 32 | | | |
| 34 | ROCKER - Exhaust Valve Assembly | 391115 | 1 | 2 |
| | Includes BUSH Item 32 | | | |
| 35 | SCREW - Valve Rocker Adjusting | 263841 | 2 | 4 |
| 36 | LOCKNUT - 3/8" BSF | 726018 | 2 | 4 |
| 37 | COPPER WASHER | 843104 | 1 | 2 |
| 38 | PLUG - Swivel Union | 250173 | 1 | 2 |
| 39 | LEVER - Decompressor | 205394 | 1 | 2 |
| 40 | SHAFT - Decompressor | 250499 | 1 | 2 |
| 41 | PIN | 772111 | 1 | 2 |
| 42 | WASHER | 785017 | 3 | 6 |
| 43 | WASHER | 250350 | 2 | 4 |
| 44 | DOUBLE SPRING WASHER | 786210 | 1 | 2 |
| 45 | SPLIT PIN | 773032 | 1 | 2 |
| 46 | SCREW | 205854 | 1 | 2 |
| 47 | LOCK NUT - 5/16" BSF | 726017 | 1 | 2 |
| 48 | ROCKER BOX COVER | 190197 | 1 | 2 |
| 49 | JOINT | 250502 | 1 | 2 |
| 50 | NUT | 254916 | 1 | 2 |
| 51 | SHAKEPROOF WASHER | 786705 | 1 | 2 |



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PH1 & 2 BUILD 001

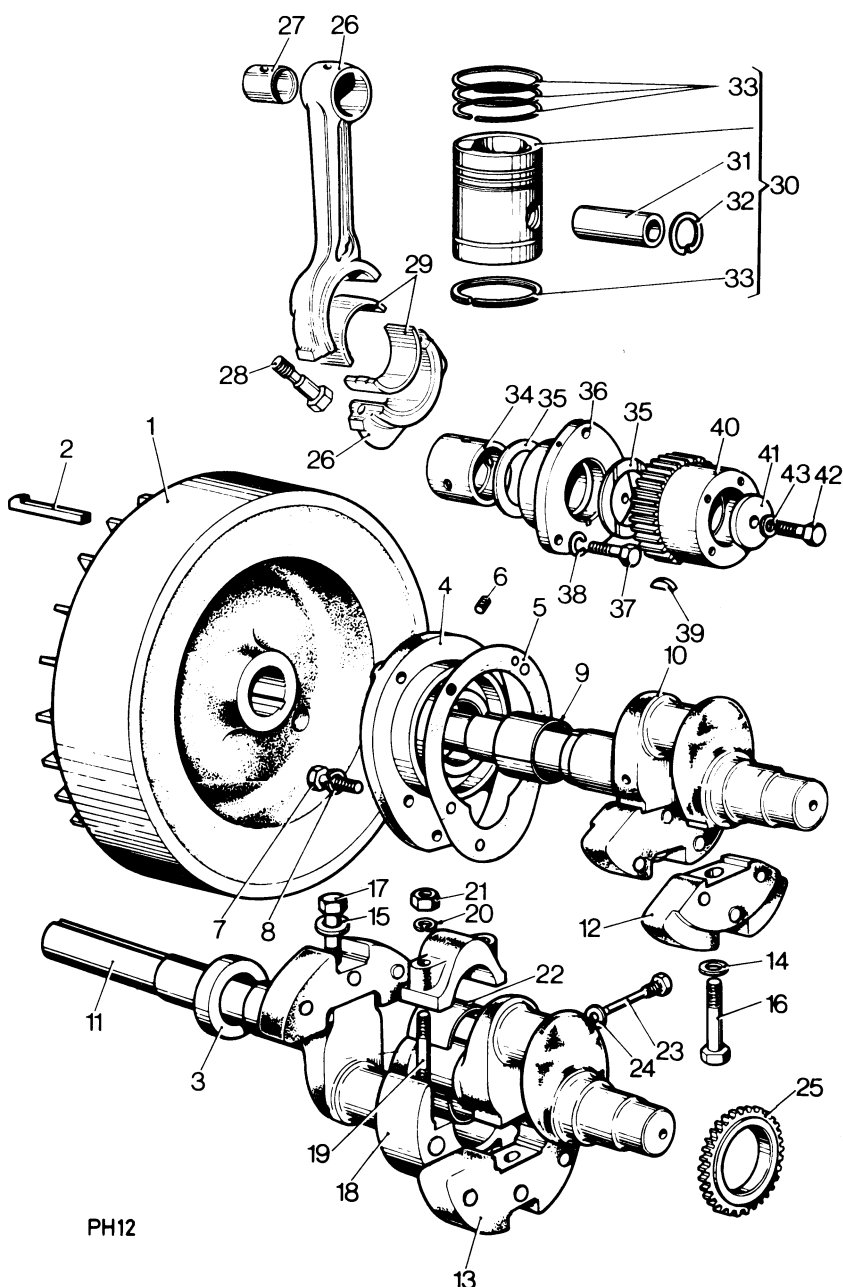
| Illus No. | Description | Part No. | PH | |
|--|---|----------|----|---|
| | | | 1 | 2 |
| FLYWHEEL, CRANKSHAFT & PISTON | | | | |
| 1 | FLYWHEEL | 402658 | 1 | 1 |
| 2 | KEY | 263937 | 1 | 1 |
| 3 | OIL SEAL..... | 258390 | 1 | 1 |
| 4 | MAIN BEARING HOUSING | 296261 | 1 | 1 |
| 5 | JOINT | 361956 | 1 | 1 |
| 6 | PLUG | 347690 | 1 | 1 |
| 7 | SETSCREW - 3/8" BSF x 1.1/2" | 725053 | 5 | 5 |
| 8 | SPRING WASHER | 786030 | 5 | 5 |
| 9 | MAIN BEARING - Flywheel End | 264905 | 1 | 1 |
| | -0.25mm u/s | 268296 | | |
| | -0.51mm u/s | 268297 | | |
| | -0.76mm u/s | 268298 | | |
| | -1.02mm u/s | 268299 | | |
| 10 | CRANKSHAFT -1 cyl..... | 393159 | 1 | - |
| 11 | -2 cyl..... | 393160 | - | 1 |
| 12 | BALANCE WEIGHT - 1 cyl | 288172 | 2 | - |
| 13 | - 2 cyl | 275131 | - | 2 |
| 14 | WASHER - 1 cyl | 323499 | 2 | - |
| 15 | - 2 cyl | 323260 | - | 2 |
| 16 | BOLT - 1 cyl..... | 323405 | 2 | - |
| 17 | - 2 cyl..... | 323261 | - | 2 |
| 18 | BEARING HOUSING - Intermediate - Includes | 296265 | - | 1 |
| 19 | STUD - 3/8" BSF x 2.1/2" | 760173 | - | 2 |
| 20 | SPRING WASHER | 786030 | - | 2 |
| 21 | NUT- 3/8" BSF | 726003 | - | 2 |
| 22 | BEARING - Top & Bottom | 392994 | - | 2 |
| | 0.25mm u/s | 392995 | | |
| | 0.51mm u/s | 392996 | | |
| | 0.76mm u/s | 392997 | | |
| | 1.02mm u/s | 392998 | | |
| 23 | SCREW - Locking | 204954 | - | 1 |
| 24 | SHAKEPROOF WASHER | 786705 | - | 1 |



PH12

PH1 & 2 BUILD 001

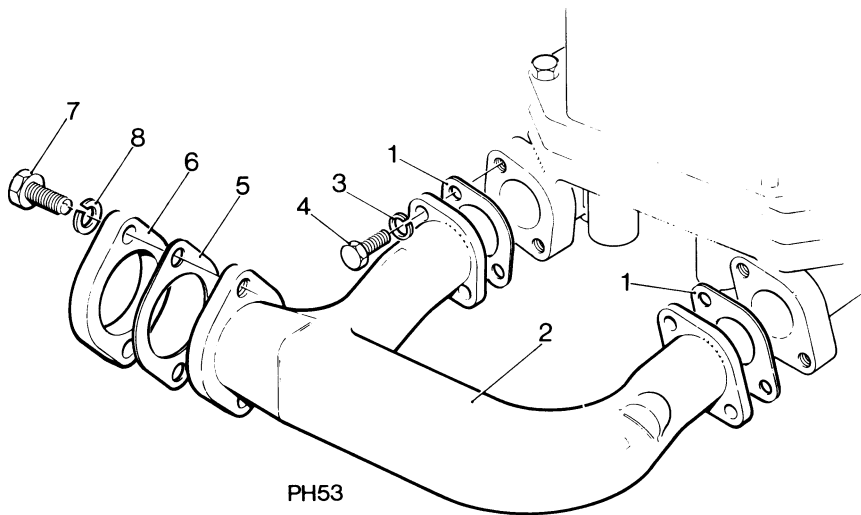
| Illus No. | Description | Part No. | PH | |
|--|---|----------|----|---|
| | | | 1 | 2 |
| FLYWHEEL, CRANKSHAFT & PISTON (Cont.) | | | | |
| 25 | GEARWHEEL - 37 Tooth - Oil Pump Driving | 317594 | 1 | 1 |
| 26 | CONNECTING ROD - Includes | 294661 | 1 | 2 |
| 27 | BUSH - Small End | 332596 | 1 | 2 |
| 28 | BOLT | 344423 | 1 | 2 |
| 29 | BEARING KIT | 392989 | 2 | 4 |
| - | -0.25mm u/s | 392990 | | |
| - | -0.51mm u/s | 392991 | | |
| - | -0.76mm u/s | 392992 | | |
| - | -1.02mm u/s | 392993 | | |
| 30 | PISTON ASSEMBLY - Includes | 365351 | 1 | 2 |
| - | -0.51mm o/s | 365356 | | |
| - | -1.02mm o/s | 365361 | | |
| 31 | GUDGEON PIN | | 1 | 2 |
| 32 | CIRCLIP | 205891 | 2 | 4 |
| 33 | PISTON RING SET | 365363 | 1 | 2 |
| - | -0.51mm o/s | 365364 | | |
| - | -1.02mm o/s | 365365 | | |
| 34 | BEARING - Gear End | 264904 | 1 | 1 |
| - | -0.25mm u/s | 265481 | | |
| | -0.51mm u/s | 265482 | | |
| | -0.76mm u/s | 265483 | | |
| - | -1.02mm u/s | 265484 | | |
| 35 | THRUST WASHER | 257762 | 2 | 2 |
| 36 | MAIN BEARING HOUSING | 194525 | 1 | 1 |
| 37 | SETSCREW - 5/16" BSF x 1" | 722027 | 3 | 3 |
| 38 | SPRING WASHER | 786029 | 3 | 3 |
| 39 | KEY | 792018 | 1 | 1 |
| 40 | GEARWHEEL - Crankshaft - 1 cyl | 251099 | 1 | - |
| - | - 2 cyl | 257809 | - | 1 |
| 41 | RETAINING PLATE | 206339 | 1 | 1 |
| 42 | BOLT | 347565 | 1 | 1 |
| 43 | WASHER | 786706 | 1 | 1 |



PH12

PH2 BUILD 001

| Illus No. | Description | Part No. | PH | |
|-------------------------|----------------------|----------|----|---|
| | | | 1 | 2 |
| EXHAUST MANIFOLD | | | | |
| 1 | GASKET | 256926 | - | 2 |
| 2 | MANIFOLD | 190260 | - | 1 |
| 3 | SPRING WASHER | 786029 | - | 4 |
| 4 | BOLT | 722025 | - | 4 |
| 5 | JOINT - Flange | 203067 | - | 1 |
| 6 | FLANGE | 203064 | - | 1 |
| 7 | BOLT | 722027 | - | 2 |
| 8 | SPRING WASHER | 786029 | - | 2 |

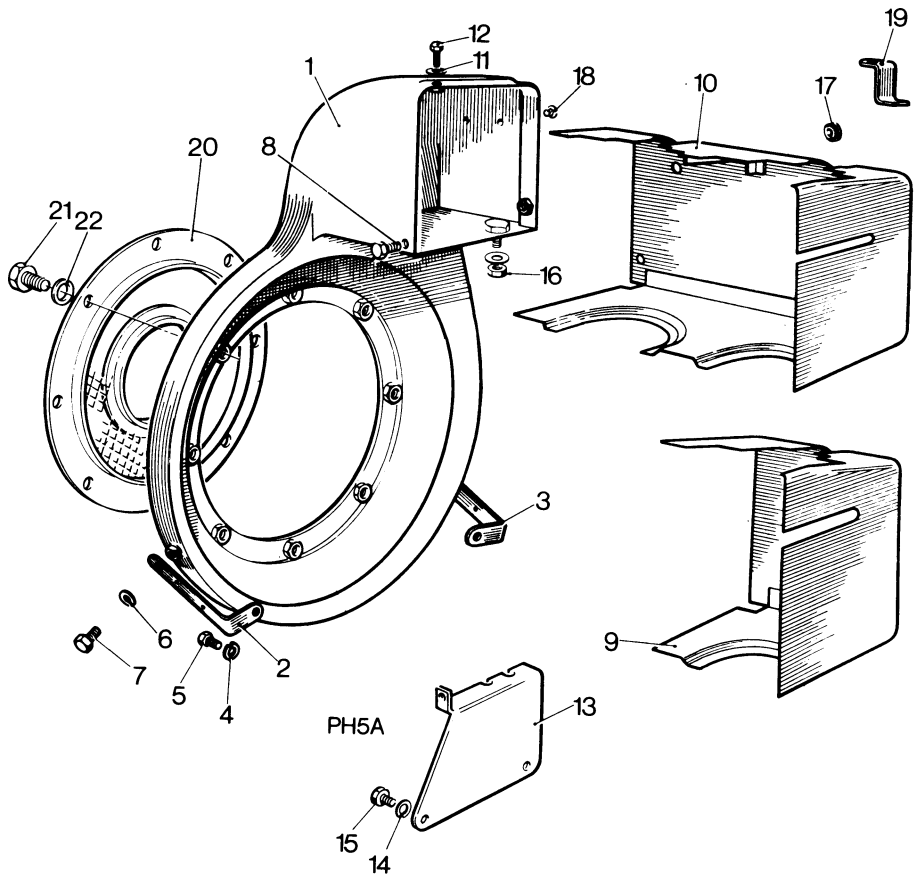


PH53

EXHAUST MANIFOLD- PH2 © 1989

PH1 & 2 BUILD 001

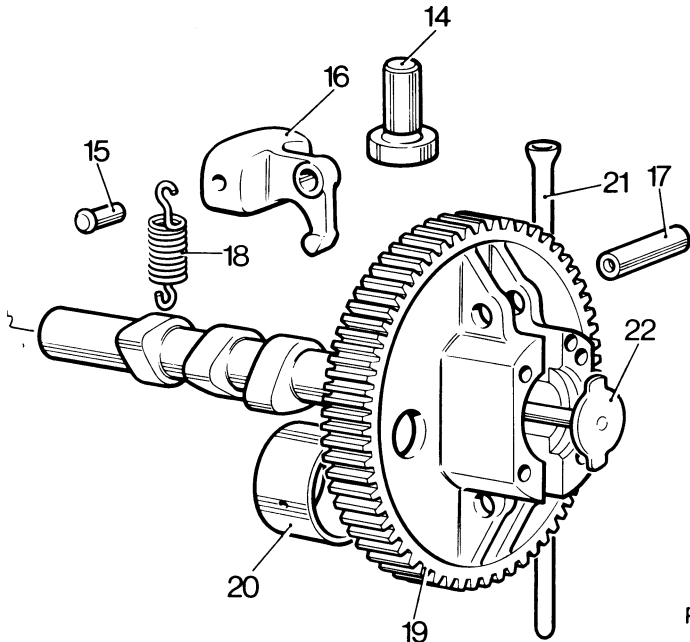
| Illus No. | Description | Part No. | PH | |
|----------------|---------------------------|----------|--------|---|
| | | | 1 | 2 |
| COWLING | | | | |
| 1 | COWLING | 406213 | 1 | 1 |
| 2 | BRACKET | 193423 | 1 | 1 |
| 3 | BRACKET | 193424 | 1 | 1 |
| 4 | SPRING WASHER | 786031 | 2 | 2 |
| 5 | SETSCREW | 722069 | 2 | 2 |
| 6 | WASHER | 785012 | AsReqd | |
| 7 | SETSCREW | 722026 | 2 | 2 |
| 8 | SETSCREW | 722023 | 1 | 1 |
| 9 | COWLING - 1 cyl..... | 405096 | 1 | - |
| 10 | - 2 cyl..... | 405097 | - | 1 |
| 11 | WASHER | 785512 | 2 | 2 |
| 12 | SETSCREW | 702223 | 3 | 3 |
| 13 | BRACKET | 299979 | 1 | 1 |
| 4 | WASHER | 266991 | 2 | 2 |
| 5 | SETSCREW | 722069 | 2 | 2 |
| 16 | NUT | 707004 | 1 | 1 |
| 17 | GROMMET | 787064 | 1 | 2 |
| 18 | PLUG | 358007 | 2 | 2 |
| 19 | BRACKET - 2 Cyl | 257401 | - | 1 |
| 20 | FAN GUARD - Cowling | 296171 | 1 | 1 |
| 21 | SCREW | 360964 | 8 | 8 |
| 22 | WASHER | 786377 | 8 | 8 |



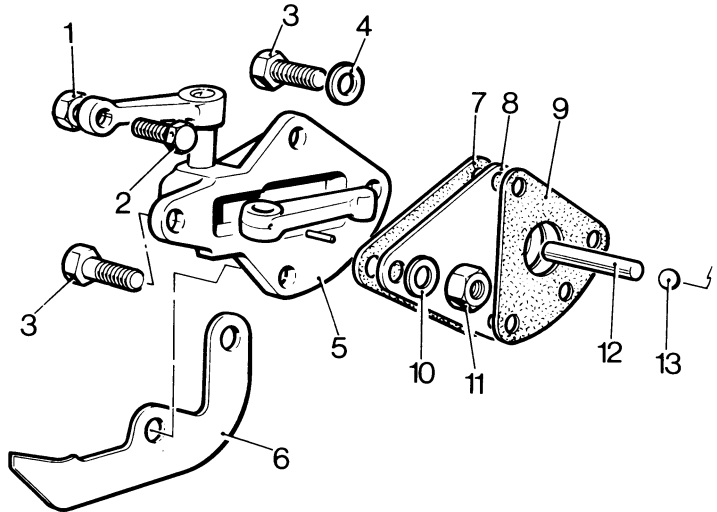
COWLING © 1987

PH1 & 2 BUILD 001

| Illus No. | Description | Part No. | PH | |
|--------------------------------|--|----------|------|------|
| | | | 1 | 2 |
| CAMSHAFT & GOVERNOR | | | | |
| 1 | NUT | 726017 | 1 | 1 |
| 2 | SCREW - Lever Adjusting | 205455 | 1 | 1 |
| 3 | SETSCREW - 3/8" BSF x 7/8" | 722048 | 4 | 4 |
| 4 | SPRING WASHER | 786030 | 3 | 3 |
| 5 | LEVER ASSEMBLY | 197966 | 1 | 1 |
| 6 | POINTER - Flywheel | 266986 | 1 | 1 |
| 7 | JOINT | 361953 | 1 | 1 |
| 8 | PLATE | 204970 | 1 | 1 |
| 9 | JOINT | 361955 | 1 | 1 |
| 10 | WASHER | 785013 | 1 | 1 |
| 11 | NUT- 3/8" BSF | 726003 | 1 | 1 |
| 12 | PUSH ROD - Governor - Flywheel End | 204924 | 1 | 1 |
| 13 | BALL | 202258 | 1 | 1 |
| 14 | CAM FOLLOWER | 208498 | 2 | 4 |
| 15 | PIN - Governor Spring | 204966 | 4 | 4 |
| 16 | GOVERNOR WEIGHT | 204858 | 1 pr | 1 pr |
| 17 | PIN - Governor Weight | 320804 | 2 | 2 |
| 18 | GOVERNOR SPRING | 206663 | 2 | 2 |
| 19 | CAMSHAFT & GEARWHEEL - 1 cyl | 294120 | 1 | - |
| - | - 2 cyl | 402935 | - | 1 |
| 20 | BUSH | 202485 | 2 | 3 |
| 21 | PUSH ROD - Valve | 250765 | 2 | 4 |
| 22 | PUSH ROD - Governor End - 1 cyl | 255065 | 1 | - |
| - | - 2 cyl | 255066 | - | 1 |



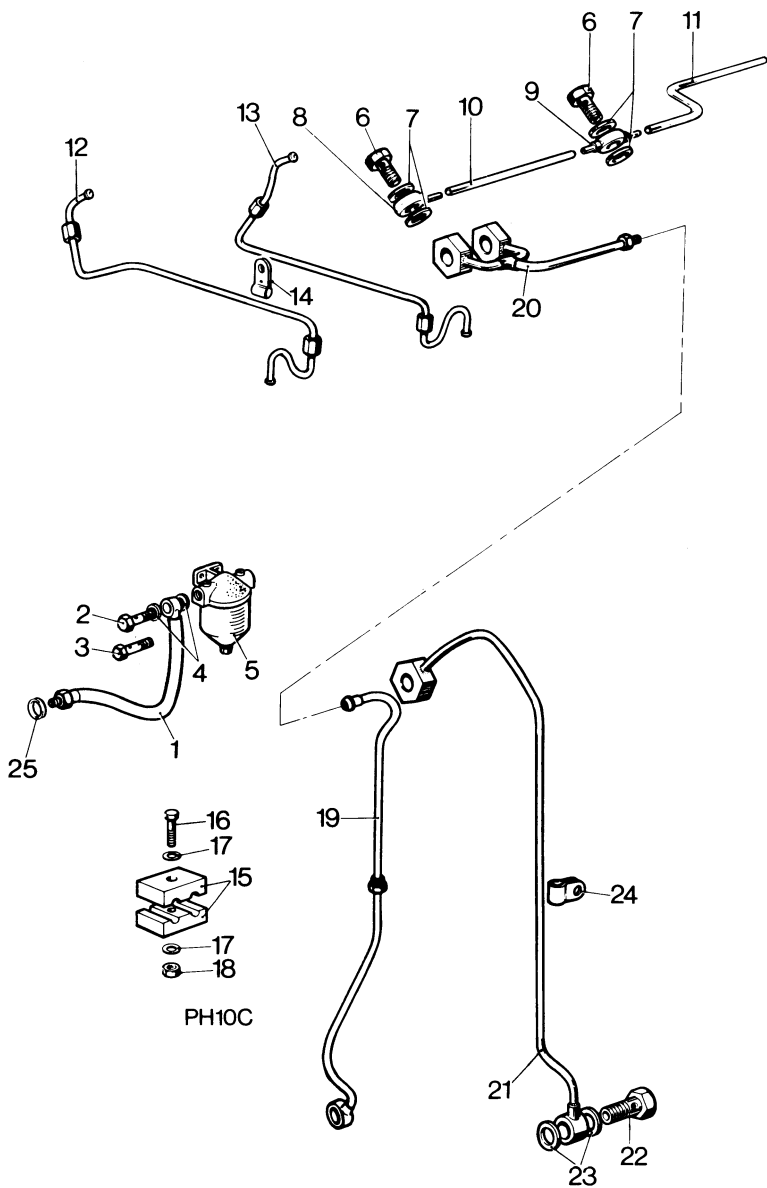
PH11B



CAMSHAFT & GOVERNOR © 1987

PH1 & 2 BUILD 001

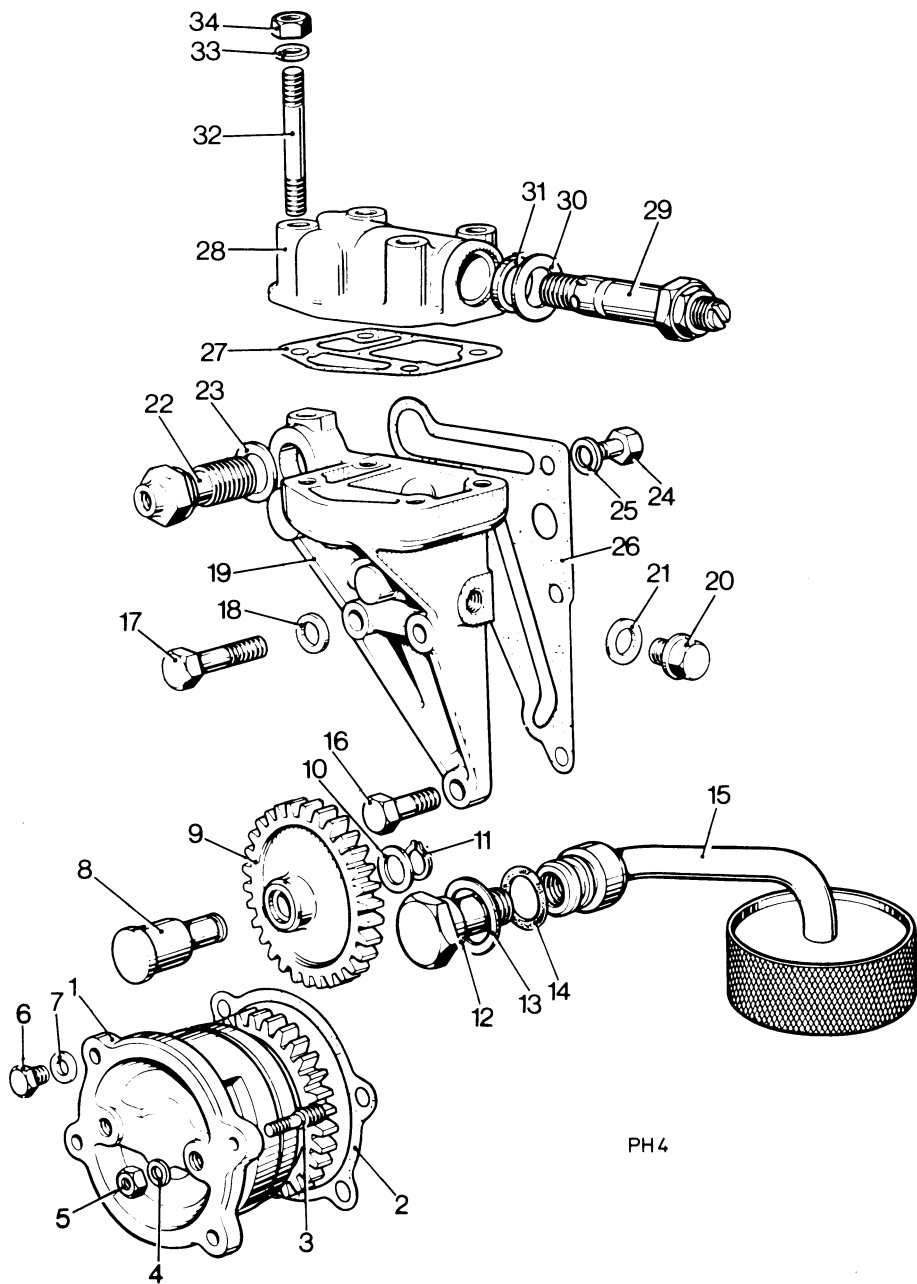
| Illus No. | Description | Part No. | PH | |
|---|------------------------------------|----------|----|---|
| | | | 1 | 2 |
| FUEL & LUBRICATING OIL PIPES | | | | |
| 1 | FUEL PIPE - Filter to Pump | 262936 | 1 | 2 |
| 2 | SWIVEL UNION PLUG - Single | 831026 | 1 | - |
| 3 | - Double | 262935 | - | 1 |
| 4 | COPPER WASHER | 843105 | 2 | 3 |
| 5 | FUEL FILTER - Includes | 284359 | 1 | 1 |
| | ELEMENT | 252427 | 1 | 1 |
| | WASHER PACK | 95710 | 1 | 1 |
| 6 | SWIVEL UNION PLUG | 268169 | 1 | 2 |
| 7 | COPPER WASHER | 843103 | 2 | 4 |
| 8 | SWIVEL UNION | 268839 | 1 | 1 |
| 9 | SWIVEL UNION - Double | 318977 | - | 1 |
| 10 | FUEL LEAK OFF PIPE | 671110 | 1 | 1 |
| 11 | FUEL LEAK OFF PIPE | 671110 | - | 1 |
| 12 | FUEL PIPE - Pump to Injector | 294578 | 1 | 1 |
| 13 | - 2 cyl - Flywheel End | 294579 | - | 1 |
| 14 | CLIP | 347951 | 1 | - |
| 15 | DAMPER | 256365 | - | 2 |
| 16 | BOLT | 710010 | - | 1 |
| 17 | WASHER | 785005 | - | 2 |
| 18 | NUT | 716001 | - | 1 |
| 19 | LUBRICATING OIL PIPE - 2 cyl | 194536 | - | 1 |
| 20 | LUBRICATING OIL PIPE - 2 cyl | 318623 | - | 1 |
| 21 | LUBRICATING OIL PIPE - 1 cyl | 284982 | 1 | - |
| 22 | SWIVEL UNION PLUG | 831025 | 1 | 1 |
| 23 | COPPER WASHER | 843104 | 2 | 2 |
| 24 | CLIP - Pipe | 250947 | 2 | 2 |
| 25 | WASHER | 843126 | 1 | 2 |



PH10C

PH1 & 2 BUILD 001

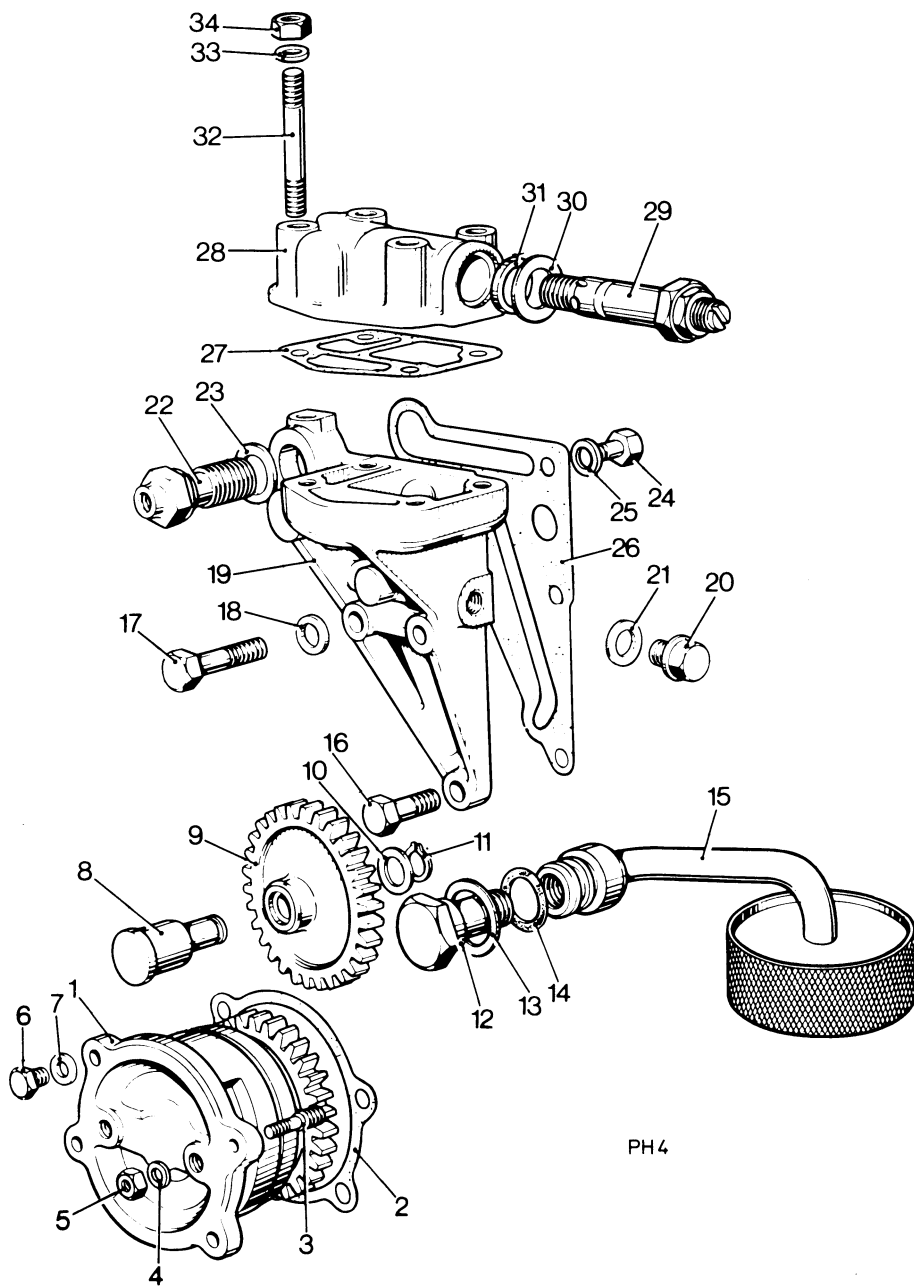
| Illus No. | Description | Part No. | PH | |
|-----------------------------|-----------------------------------|----------|----|---|
| | | | 1 | 2 |
| LUBRICATING OIL PUMP | | | | |
| 1 | OIL PUMP - 31 Tooth | 340779 | 1 | 1 |
| 2 | JOINT | 363159 | 1 | 1 |
| 3 | STUD | 259513 | 1 | 1 |
| 4 | WASHER | 785011 | 1 | 1 |
| 5 | NUT - 1/4" BSF | 726001 | 1 | 1 |
| 6 | SETSCREW - 5/16" BSF x 3/4" | 722025 | 3 | 3 |
| 7 | WASHER | 785012 | 3 | 3 |
| 8 | SPIGOT - Idler Gear | 268477 | 1 | 1 |
| 9 | IDLER GEAR - 29 Tooth | 268602 | 1 | 1 |
| 10 | WASHER | 266111 | 1 | 1 |
| 11 | CIRCLIP | 784205 | 1 | 1 |
| 12 | SWIVEL UNION PLUG | 259519 | 1 | 1 |
| 13 | WASHER | 259520 | 1 | 1 |
| 14 | OIL SEAL | 358760 | 1 | 1 |
| 15 | STRAINER | 194526 | 1 | 1 |
| 16 | SETSCREW - 5/16" BSF x 1" | 722027 | 1 | 1 |
| 17 | BOLT - 5/16" BSF x 1.5/8" | 725177 | 2 | 2 |
| 18 | WASHER | 785012 | 3 | 3 |
| 19 | BRACKET - Inciudes | 269994 | 1 | 1 |
| 20 | PLUG | 317267 | 1 | 1 |
| 21 | WASHER | 843105 | 1 | 1 |



PH4

PH1 & 2 BUILD 001

| Illus No. | Description | Part No. | PH | |
|-------------------------------------|-------------------------------------|----------|----|---|
| | | | 1 | 2 |
| LUBRICATING OIL PUMP (Cont.) | | | | |
| 22 | RESTRICTOR ASSEMBLY | 262505 | 1 | 1 |
| 23 | COPPER WASHER | 843106 | 1 | 1 |
| 24 | SETSCREW - 5/16" BSF x 1.1/8" | 722028 | 1 | 1 |
| 25 | SPRING WASHER | 786029 | 1 | 1 |
| 26 | JOINT - Bracket | 360275 | 1 | 1 |
| 27 | JOINT - Adaptor | 360272 | 1 | 1 |
| 28 | ADAPTOR - Relief Valve | 273932 | 1 | 1 |
| 29 | RELIEF VALVE ASSEMBLY | 362735 | 1 | 1 |
| 30 | COPPER WASHER | 262180 | 1 | 1 |
| 31 | SEAL | 340893 | 1 | 1 |
| 32 | STUD - 5/16" BSF x 2.1/2" | 760042 | 4 | 4 |
| 33 | WASHER | 785012 | 4 | 4 |
| 34 | NUT - 5/16" BSF | 726002 | 4 | 4 |



PH4

PH1 & 2 BUILD 001

| Illus No. | Description | Part No. | PH 1 2 |
|-------------------|-------------------------------|----------|-----------|
| JOINT SETS | | | |
| | DECARBONISING JOINT SET... .. | 359503 | 1 2 |
| | CONVERSION JOINT SET..... | 334273 | 1 1 |

**PH1 & 2
VARIATIONS FROM
BUILD 001**

**ITEMS NOT MENTIONED ARE
THE SAME AS BASIC BUILD**

PH1 & 2 BUILD 002

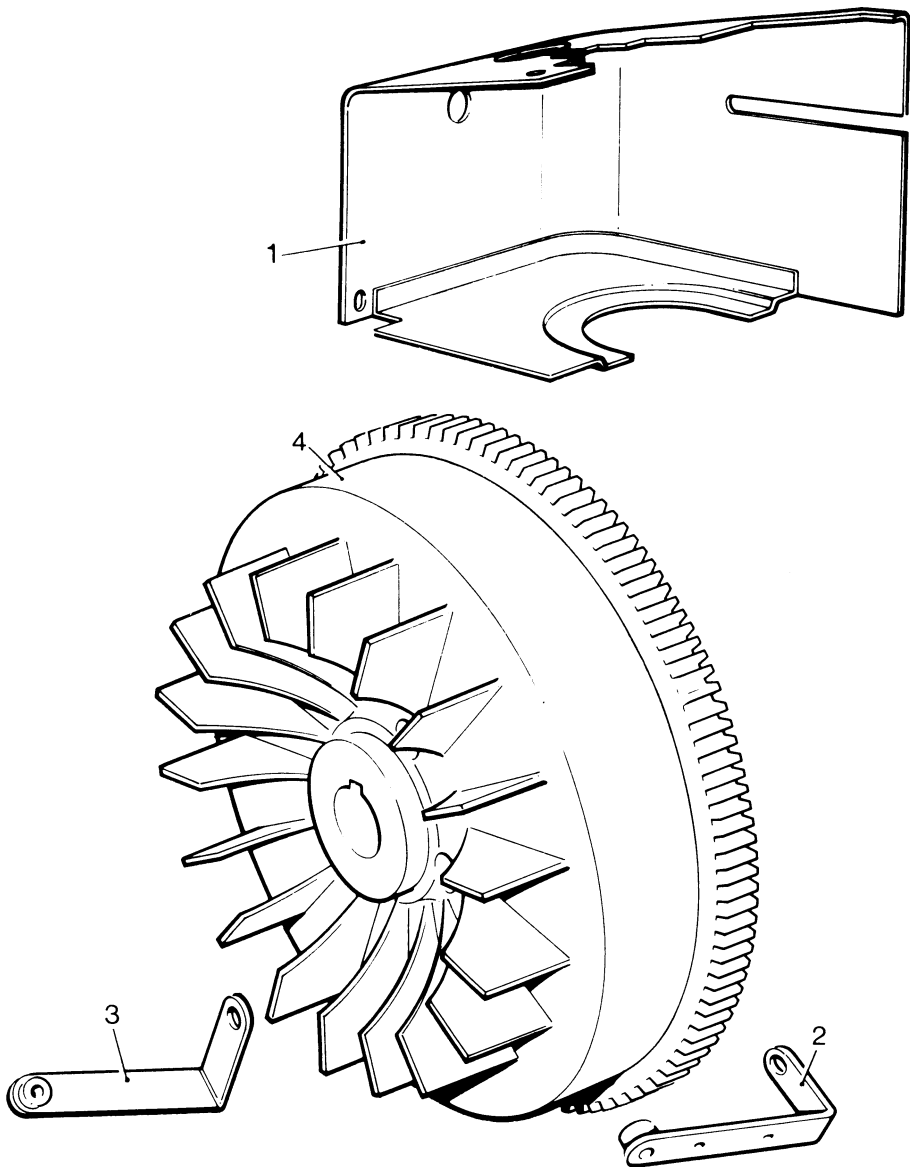
Fixed speed. 2200 r/min.

| Illus No. | Description | Part No. | PH | |
|-------------------|----------------------------------|----------|----|---|
| | | | 1 | 2 |
| CRANKSHAFT | | | | |
| | BALANCE WEIGHT - 1 cyl | 296577 | 2 | - |
| | BALANCE WEIGHT - 2 cyl | 275131 | - | 2 |
| COWLING | | | | |
| | COWLING - Cylinder - 1 cyl | 405096 | 1 | - |

PH1 & 2 BUILD 003

Fixed speed. 2200 r/min. Gear Ring on flywheel

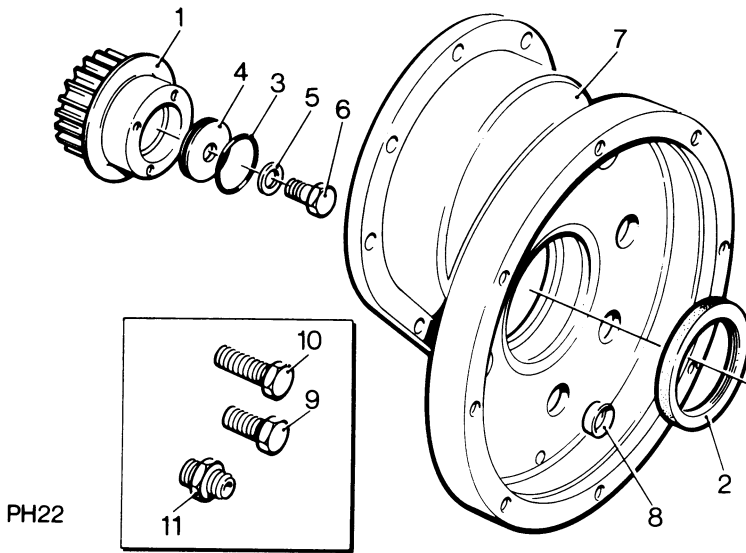
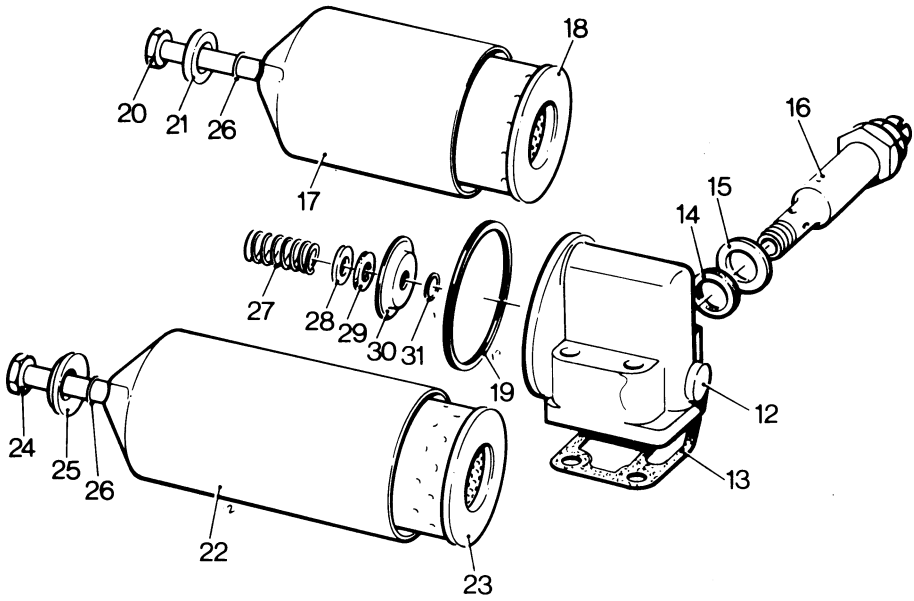
| Illus No. | Description | Part No. | PH | |
|-------------------|----------------------------------|----------|----|---|
| | | | 1 | 2 |
| CRANKSHAFT | | | | |
| | BALANCE WEIGHT - 1 cyl | 296577 | 2 | - |
| | BALANCE WEIGHT - 2 cyl | 275131 | - | 2 |
| COWLING | | | | |
| 1 | COWLING - Cylinder - 1 cyl | 405096 | 1 | - |
| 2 | BRACKET - Fan Cowling | 193435 | 1 | 1 |
| 3 | BRACKET - Cowling | 193984 | 1 | 1 |
| FLYWHEEL | | | | |
| 4 | FLYWHEEL & GEAR RING ASSY | 407073 | 1 | 1 |



PH19

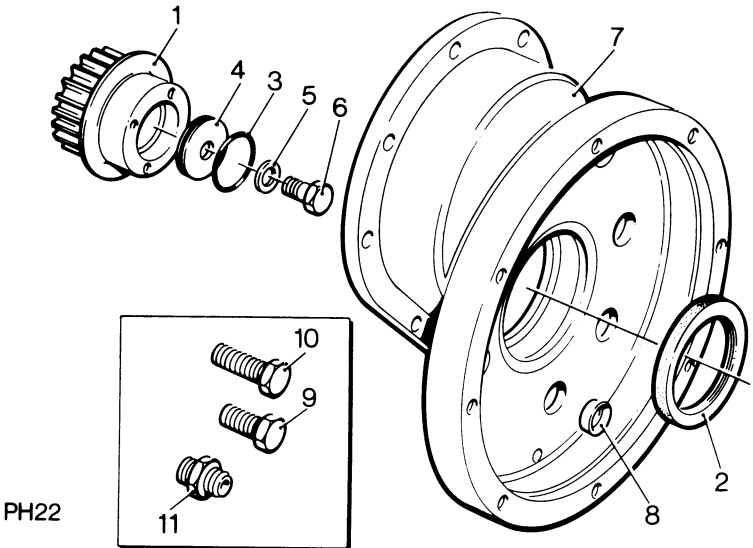
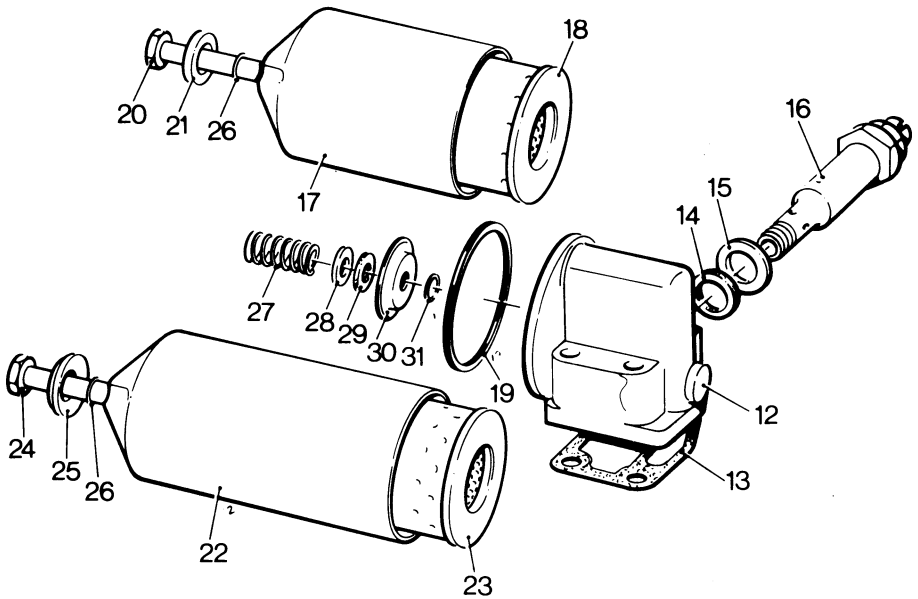
PH1 & 2 BUILD 005

| Illus No. | Description | Part No. | PH | |
|-------------------|-------------------------|----------|----|---|
| | | | 1 | 2 |
| CRANKSHAFT | | | | |
| - | GEARWHEEL - 1 cyl | 254407 | 1 | - |
| 1 | GEARWHEEL - 2 cyl | 257808 | - | 1 |
| 2 | OIL SEAL | 251215 | 1 | 1 |
| 3 | SEALING RING | 344654 | 1 | 1 |
| 4 | RETAINING PLATE | 344655 | 1 | 1 |
| 5 | WASHER | 786706 | 1 | 1 |
| 6 | BOLT | 347565 | 1 | 1 |
| END COVER | | | | |
| 7 | END COVER | 142356 | 1 | 1 |
| 8 | PLUG | 318722 | 5 | 5 |
| 9 | SETSCREW | 722026 | 2 | 2 |
| 10 | BOLT | 722027 | 6 | 6 |
| 11 | UNION | 833025 | 1 | 1 |



PH1 & 2 BUILD 005

| Illus No. | Description | Part No. | PH | |
|-------------------------------|----------------------------------|----------|----|---|
| | | | 1 | 2 |
| LUBRICATING OIL SYSTEM | | | | |
| LUBRICATING OIL FILTER | | | | |
| | -1 cyl Comprises | 272368 | 1 | - |
| | -2 cyl Comprises | 272367 | - | 1 |
| 12 | FILTER HEAD | 92545 | 1 | 1 |
| 13 | JOINT | 360272 | 1 | 1 |
| 14 | SEAL - Relief Valve | 340893 | 1 | 1 |
| 15 | WASHER - Relief Valve | 262180 | 1 | 1 |
| 16 | RELIEF VALVE | 362735 | 1 | 1 |
| 17 | BOWL - 1 cyl | | 1 | - |
| 18 | ELEMENT - 1 Cyl - Includes | 258089 | 1 | - |
| 19 | SEAL | 259006 | 1 | - |
| 20 | BOLT | 393274 | 1 | - |
| 21 | COLLAR | 93569 | 1 | - |
| 22 | BOWL - 2cyl | | - | 1 |
| 23 | ELEMENT - 2 Cyl - Includes | 250657 | - | 1 |
| 19 | SEAL | 259006 | - | 1 |
| 24 | BOLT | 393275 | - | 1 |
| 25 | COLLAR | 393031 | - | 1 |
| 26 | SEAL | 259008 | 1 | 1 |
| 27 | SPRING | 93590 | 1 | 1 |
| 28 | WASHER | 93722 | 1 | 1 |
| 29 | SEAL | 259009 | 1 | 1 |
| 30 | ELEMENT GUIDE | 93593 | 1 | 1 |
| 31 | CIRCLIP | 93589 | 1 | 1 |



PH1 & 2 BUILD 006

| Illus No. | Description | Part No. | PH | |
|-------------------|------------------------------|----------|----|---|
| | | | 1 | 2 |
| CRANKSHAFT | | | | |
| | GEARWHEEL - 1 cyl | 254407 | 1 | - |
| | GEARWHEEL - 2 cyl | 257808 | - | 1 |
| | OIL SEAL..... | 251215 | 1 | 1 |
| | SEALING RING | 344654 | 1 | 1 |
| | RETAINING PLATE | 344655 | 1 | 1 |
| | WASHER..... | 786706 | 1 | 1 |
| | BALANCE WEIGHT - 1 cyl | 296577 | 2 | - |
| | BALANCE WEIGHT - 2 cyl | 296749 | - | 2 |

COWLING

As Build 002

END COVER

As Build 005

LUB OIL SYSTEM

As Build 005

PH1 & 2 BUILD 007

| Illus No. | Description | Part No. | PH 1 2 |
|--------------|--------------------------------|----------|-----------|
| | CRANKSHAFT | | |
| | As Build 006 | | |
| | COWLING | | |
| | As Build 003 | | |
| | END COVER | | |
| | As Build 005 | | |
| | LUBRICATING OIL SYSTEM | | |
| | As Build 005 | | |
| | FLYWHEEL | | |
| | FLYWHEEL & GEAR RING ASSY..... | 407073 | 1 1 |

PH1 & 2 BUILD 008

| Illus No. | Description | Part No. | PH | |
|--------------|-------------|----------|----|---|
| | | | 1 | 2 |

LUBRICATING OIL SYSTEM

As Build 005

| | | | |
|-------------------------------|--------|---|---|
| OIL FILTER - 1 cyl | 272368 | 1 | - |
| OIL FILTER - 2 cyl | 272367 | - | 1 |
| RELIEF VALVE - Includes | 362735 | 1 | 1 |
| COPPER WASHER | 262180 | 1 | 1 |
| JOINT | 360272 | 1 | 1 |

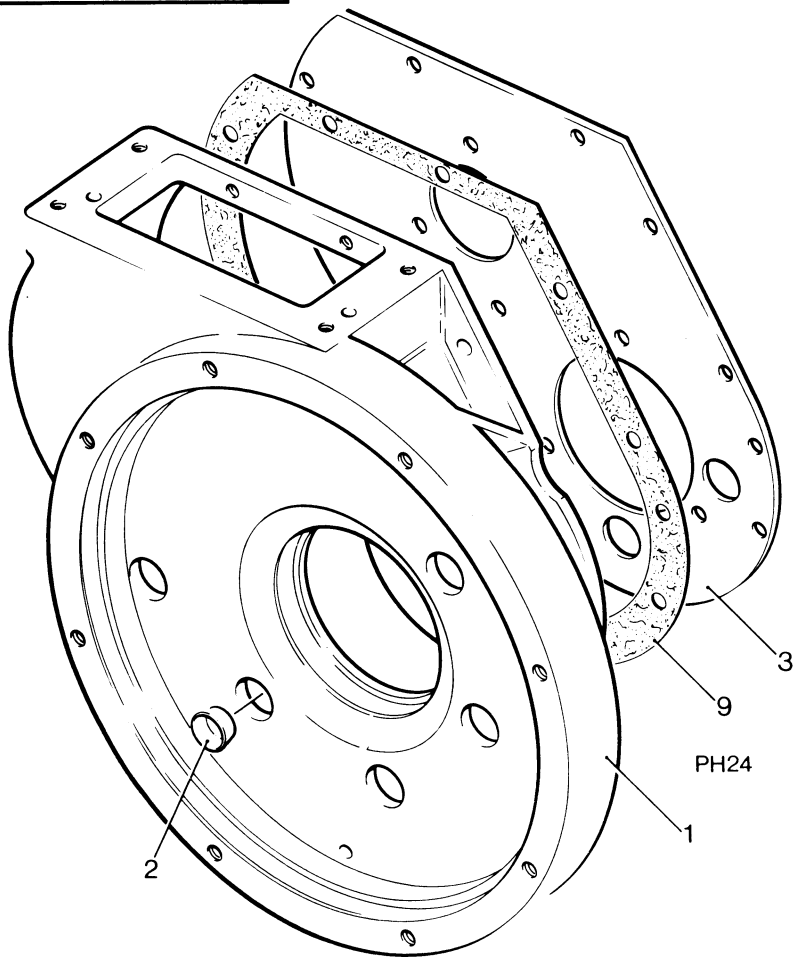
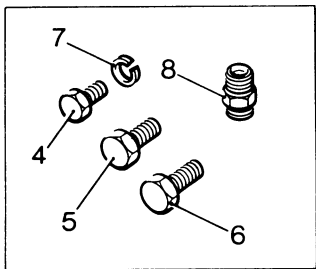
END COVER - Hydraulic Pump

| | | | | |
|---|---------------------|--------|---|---|
| 1 | END COVER | 402694 | 1 | 1 |
| 2 | PLUG | 318722 | 5 | 5 |
| 3 | PLATE | 197632 | 1 | 1 |
| 4 | SETSCREW | 722002 | 2 | 2 |
| 5 | SETSCREW | 722026 | 2 | 2 |
| 6 | SETSCREW | 722027 | 6 | 6 |
| 7 | SPRING WASHER | 786028 | 2 | 2 |
| 8 | UNION | 833025 | 1 | 1 |
| 9 | JOINT | 360273 | 1 | 1 |

CRANKSHAFT

As Build 005

| | | | |
|---|--------|---|---|
| GEAR ASSEMBLY - Oil Thrower - 1 cyl | 254407 | 1 | - |
| GEAR ASSEMBLY - Oil Thrower - 2 cyl | 257808 | - | 1 |
| OIL SEAL | 251215 | 1 | 1 |
| SEALING RING | 344654 | 1 | 1 |
| RETAINING PLATE | 344655 | 1 | 1 |
| WASHER | 786706 | 1 | 1 |
| BOLT | 347565 | 1 | 1 |



VARIATIONS FROM BUILD 001- BUILD 008 © 1987

PH1 & 2 BUILD 009

| Illus No. | Description | Part No. | PH | |
|--------------|-------------|----------|----|---|
| | | | 1 | 2 |

CRANKSHAFT

As Build 005 - PLUS

| | | | |
|------------------------------|--------|---|---|
| BALANCE WEIGHT - 1 cyl | 296577 | 2 | - |
|------------------------------|--------|---|---|

| | | | |
|------------------------------|--------|---|---|
| BALANCE WEIGHT - 2 cyl | 296749 | - | 2 |
|------------------------------|--------|---|---|

LUBRICATING OIL SYSTEM

As Build 005

END COVER - Hydraulic Pump

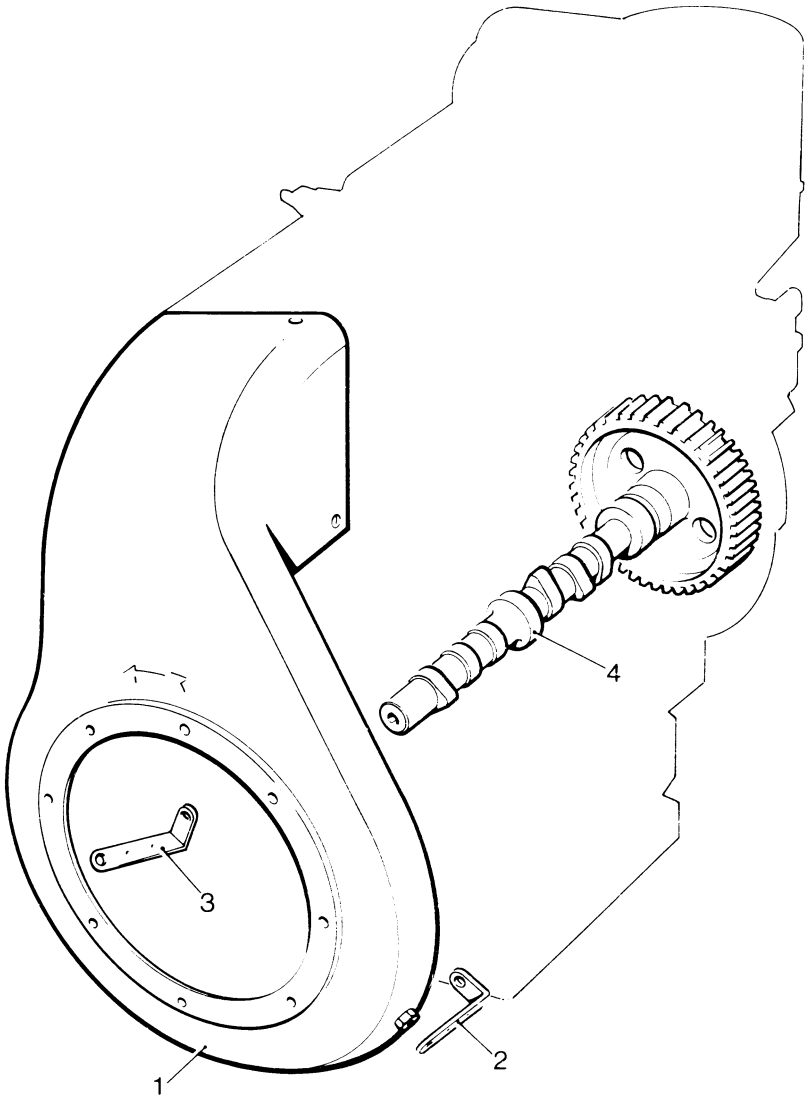
As Build 008

PH1 & 2 BUILD 010

| Illus No. | Description | Part No. | PH 1 2 |
|--------------|---|----------|-----------|
| | CRANKSHAFT As Build 006 | | |
| | COWLING As Build 003 | | |
| | END COVER - Hydraulic Pump As Build 008 | | |
| | LUBRICATING OIL SYSTEM As Build 005 | | |
| | FLYWHEEL As Build 007 | | |

PH1 & 2 BUILD 011

| Illus No. | Description | Part No. | PH | |
|-----------------|-----------------------------|----------|----|---|
| | | | 1 | 2 |
| COWLING | | | | |
| 1 | COWLING - Fan | 406214 | 1 | 1 |
| 2 | BRACKET | 193432 | 1 | 1 |
| 3 | BRACKET | 193433 | 1 | 1 |
| CAMSHAFT | | | | |
| - | CAMSHAFT ASSY - 1 cyl | 296910 | 1 | - |
| 4 | CAMSHAFT ASSY - 2 cyl | 405098 | - | 1 |



PH23

VARIATIONS FROM BUILD 001- BUILD 011 © 1987

PH1 & 2 BUILD 012

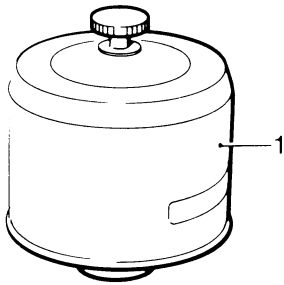
Anti-Clockwise Rotation

| Illus No. | Description | Part No. | PH 1 2 |
|-------------------|--------------------------------------|----------|-----------|
| CRANKSHAFT | | | |
| | BALANCE WEIGHTS As Build 002 | | |
| COWLING | | | |
| | As Build 011 PLUS | | |
| | COWLING - Cylinder - 1 Cyl only..... | 405096 | 1 - |
| CAMSHAFT | | | |
| | As Build 011 | | |
| FLYWHEEL | | | |
| | FLYWHEEL & GEAR RING ASSY..... | 407074 | 1 1 |

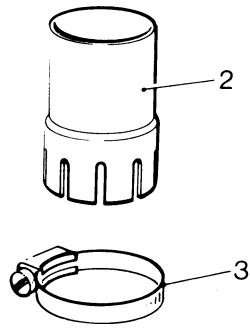
**PH1 & 2
ACCESSORIES**

PH1 & 2 CODE AA, AB, AC, AD

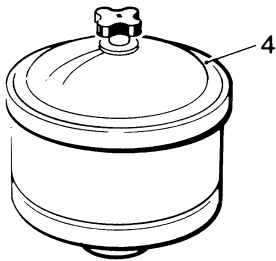
| Illus No. | Description | Part No. | PH | |
|---|---------------------------------------|----------|----|---|
| | | | 1 | 2 |
| AIR CLEANER - Dry Type | | | | |
| | AIR CLEANER KIT | Code AA | 1 | 1 |
| 1 | AIR CLEANER ASSEMBLY - Includes | 289263 | 1 | 1 |
| | ELEMENT | 289185 | 1 | 1 |
| | INSTRUCTION LABEL | 334643 | 1 | 1 |
| EXTENSION PIECE - 1 cyl Only | | | | |
| | EXTENSION PIECE KIT | Code AB | 1 | - |
| 2 | EXTENSION PIECE | 258694 | 1 | - |
| 3 | CLIP | 783008 | 1 | - |
| AIR CLEANER - Oil Bath - Cooper | | | | |
| | AIR CLEANER KIT | Code AC | 1 | 1 |
| 4 | AIR CLEANER ASSEMBLY | 272741 | 1 | 1 |
| AIR CLEANER - Oil Bath - Burgess | | | | |
| | AIR CLEANER KIT | Code AD | 1 | 1 |
| 5 | PRE CLEANER | 330889 | 1 | 1 |
| 6 | AIR CLEANER | 289754 | 1 | 1 |
| 7 | CLAMP | 359427 | 1 | 1 |
| 8 | SPRING WASHER | 786079 | 1 | 1 |
| 9 | EXHAUST BEND - 1 cyl | 251025 | 1 | - |
| 10 | BOLT - 5/16" x 2.1/2" | 725035 | 1 | - |
| 11 | INLET MANIFOLD - 1 cyl | 194806 | 1 | - |
| 12 | INLET MANIFOLD - 2 cyl | 194807 | - | 1 |



AA

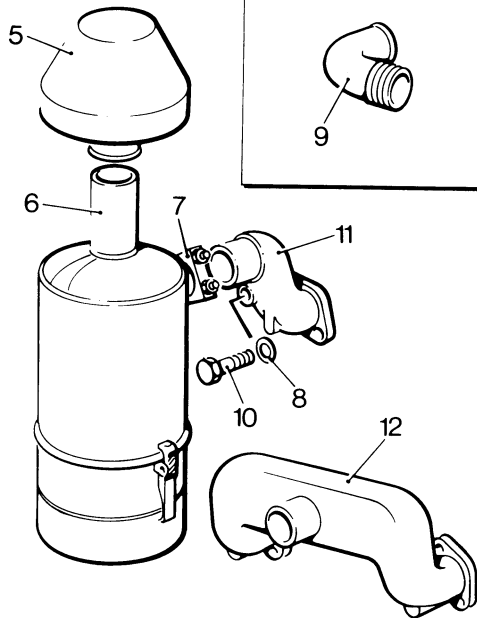


AB



PH15

AC

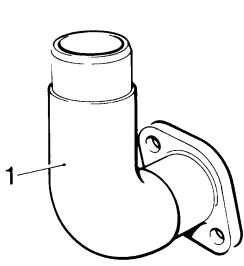


AD

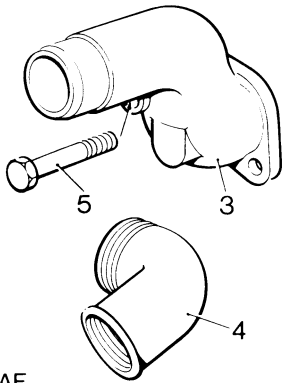
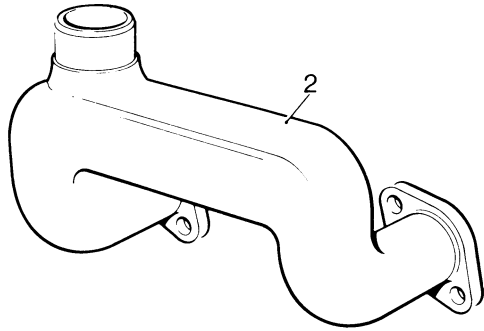
AIR CLEANERS © 1987

PH1 & 2 CODE AE, AF, AG.

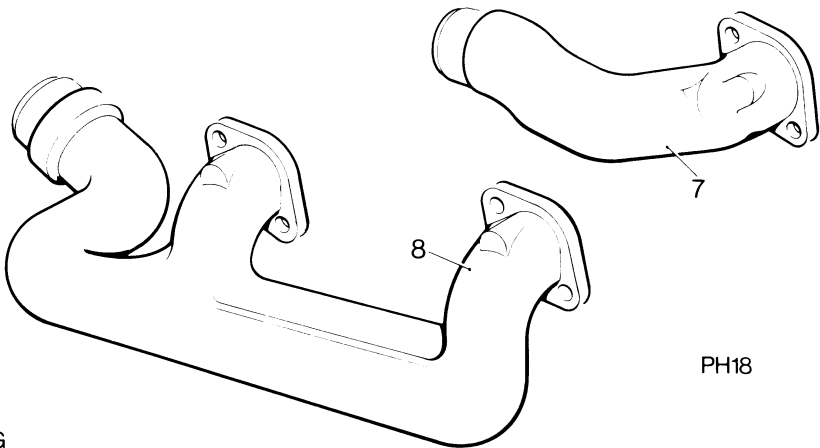
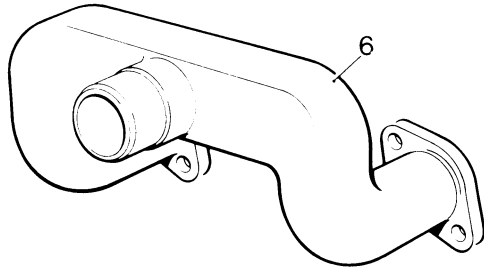
| Illus No. | Description | Part No. | PH | |
|--|------------------------------|----------|----|---|
| | | | 1 | 2 |
| VERTICAL AIR INLET MANIFOLD | | | | |
| | INLET MANIFOLD KIT | Code AE | 1 | 1 |
| 1 | INLET MANIFOLD - 1 cyl | 258561 | 1 | - |
| 2 | INLET MANIFOLD - 2 cyl | 190259 | - | 1 |
| HORIZONTAL AIR INLET MANIFOLD - FPS | | | | |
| | INLET MANIFOLD KIT | Code AF | 1 | 1 |
| 3 | INLET BEND -1 cyl | 193992 | 1 | - |
| 4 | EXHAUST BEND -1 cyl | 251025 | 1 | - |
| 5 | BOLT - 5/16" x 2.1/2" | 725035 | 1 | - |
| 6 | INLET MANIFOLD - 2 cyl | 190546 | - | 1 |
| HORIZONTAL AIR INLET MANIFOLD - FWE | | | | |
| | INLET MANIFOLD KIT | Code AG | 1 | 1 |
| 7 | INLET MANIFOLD - 1 cyl | 194150 | 1 | - |
| 8 | INLET MANIFOLD - 2 cyl | 142397 | - | 1 |



AE



AF

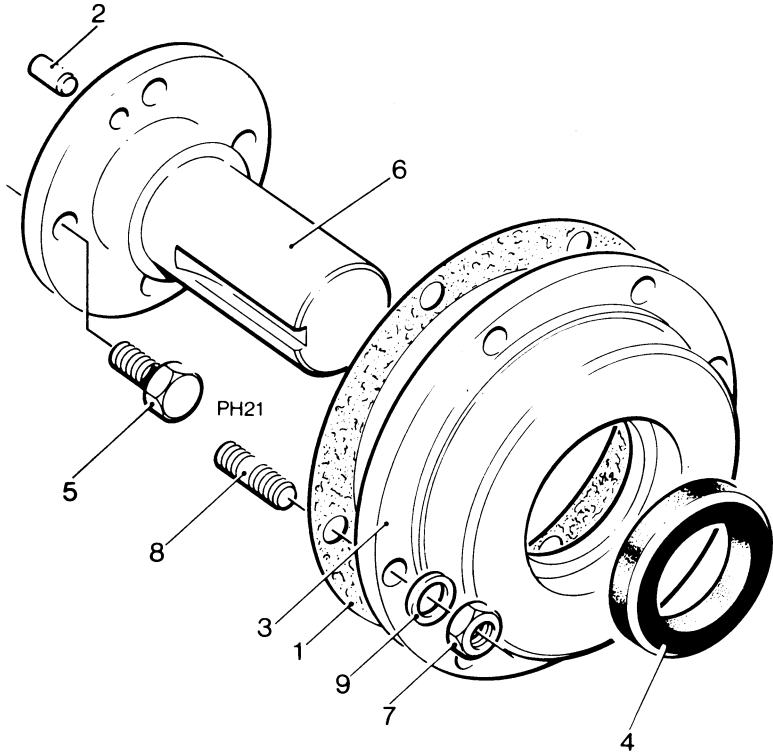


AG

PH18

PH1 & 2 CODE BA

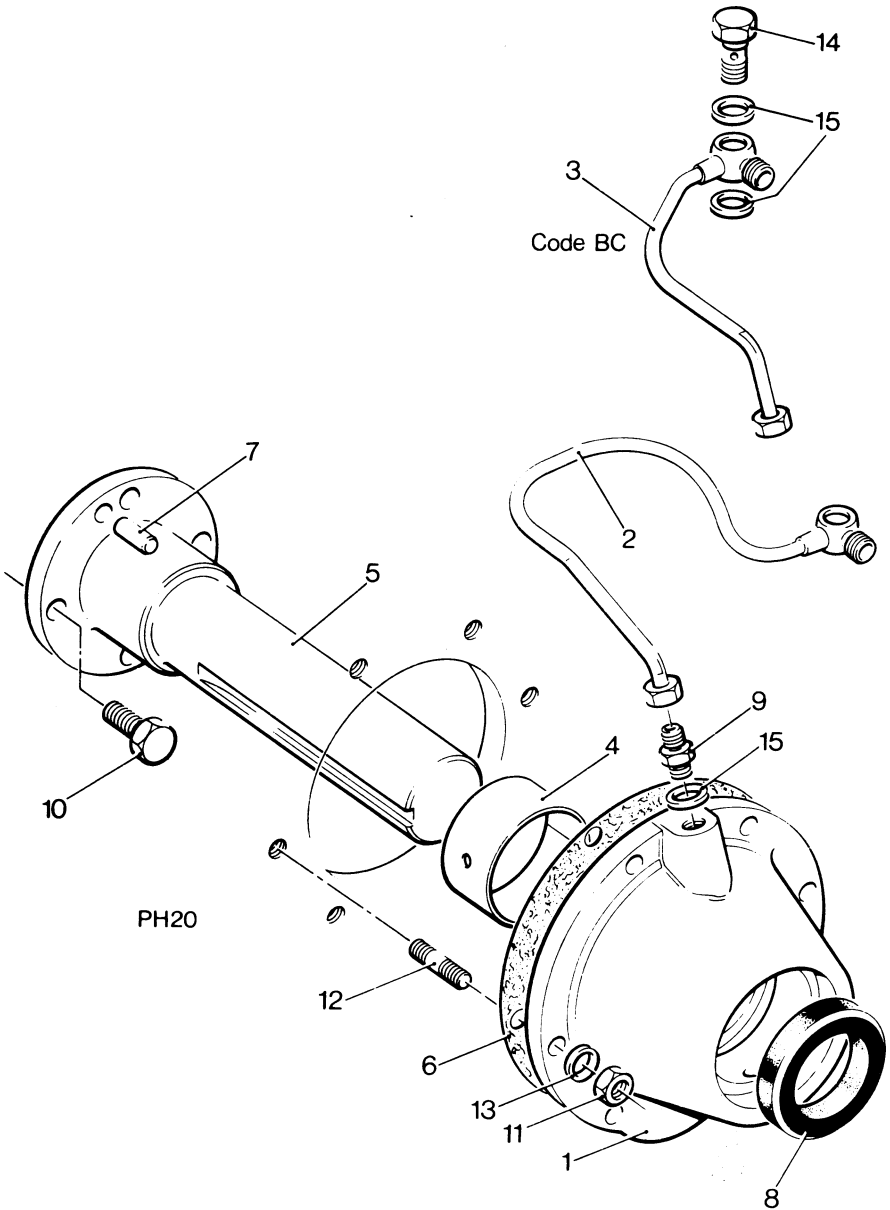
| Illus No. | Description | Part No. | PH | |
|-----------------------------|----------------------------------|----------|----|---|
| | | | 1 | 2 |
| GEAR END START SHAFT | | | | |
| | START SHAFT KIT | Code BA | 1 | 1 |
| 1 | JOINT - Housing | 205322 | 1 | 1 |
| 2 | DOWEL | 206091 | 1 | 1 |
| 3 | HOUSING - Oil Seal | 207076 | 1 | 1 |
| 4 | OIL SEAL - Extension Shaft | 250979 | 1 | 1 |
| 5 | SETSCREW | 327492 | 4 | 4 |
| 6 | EXTENSION SHAFT | 363541 | 1 | 1 |
| 7 | NUT - 5/16" BSF | 726002 | 6 | 6 |
| 8 | STUD | 760032 | 6 | 6 |
| 9 | WASHER | 785012 | 6 | 6 |
| - | TRANSFER - Starting Shaft | 251714 | 1 | 1 |



START SHAFT © 1987

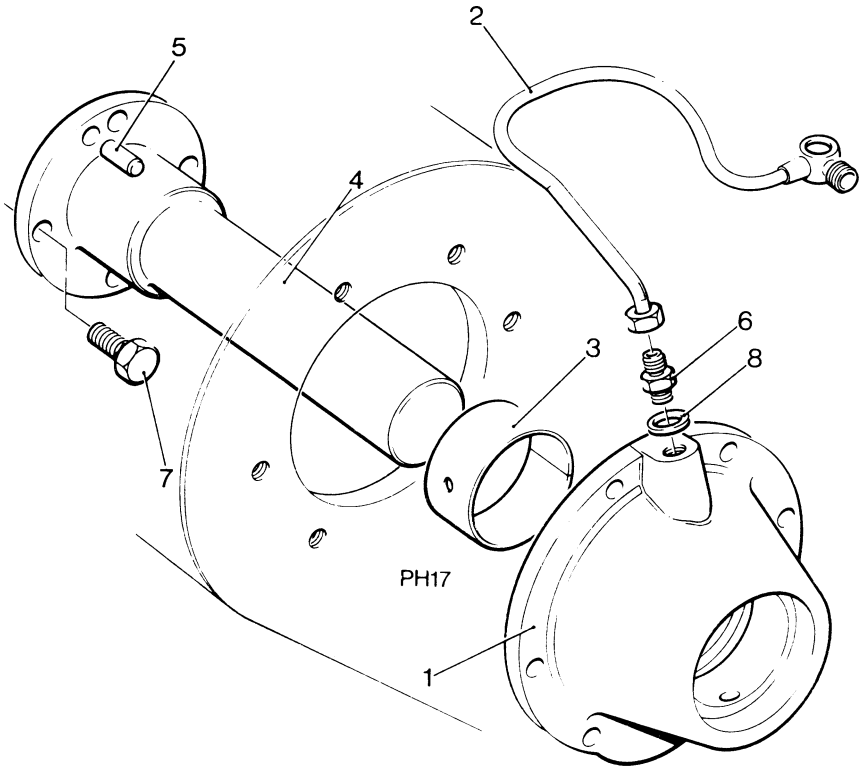
PH1 & 2 CODE BB, BC

| Illus No. | Description | Part No. | PH | |
|-----------------------------------|--|----------|----|---|
| | | | 1 | 2 |
| EXTENSION SHAFT - Gear End | | | | |
| EXTENSION SHAFT KIT | | | | |
| | CAMSHAFT DRIVE - Mk 1 - Half Speed Engines | Code BB | 1 | 1 |
| | CRANKSHAFT DRIVE - Mk 2 - Full Speed Engines | Code BC | 1 | 1 |
| 1 | HOUSING - Extn Shaft Bearing | 150528 | 1 | 1 |
| 2 | PIPE ASSEMBLY - Code BB | 194872 | 1 | 1 |
| 3 | PIPE ASSEMBLY - Code BC | 263262 | 1 | 1 |
| 4 | BUSH | 202485 | 1 | 1 |
| 5 | EXTENSION SHAFT | 204957 | 1 | 1 |
| 6 | JOINT | 205322 | 1 | 1 |
| 7 | DOWEL | 206091 | 1 | 1 |
| 8 | OIL SEAL | 250979 | 1 | 1 |
| 9 | UNION - Lub Oil | 251418 | 1 | 1 |
| 10 | SETSCREW | 327492 | 4 | 4 |
| 11 | NUT | 726002 | 6 | 6 |
| 12 | STUD | 760032 | 6 | 6 |
| 13 | WASHER | 785012 | 6 | 6 |
| 14 | PLUG - Swivel Union | 831025 | 1 | 1 |
| 15 | WASHER | 843104 | 2 | 2 |



PH1 & 2 CODE BD

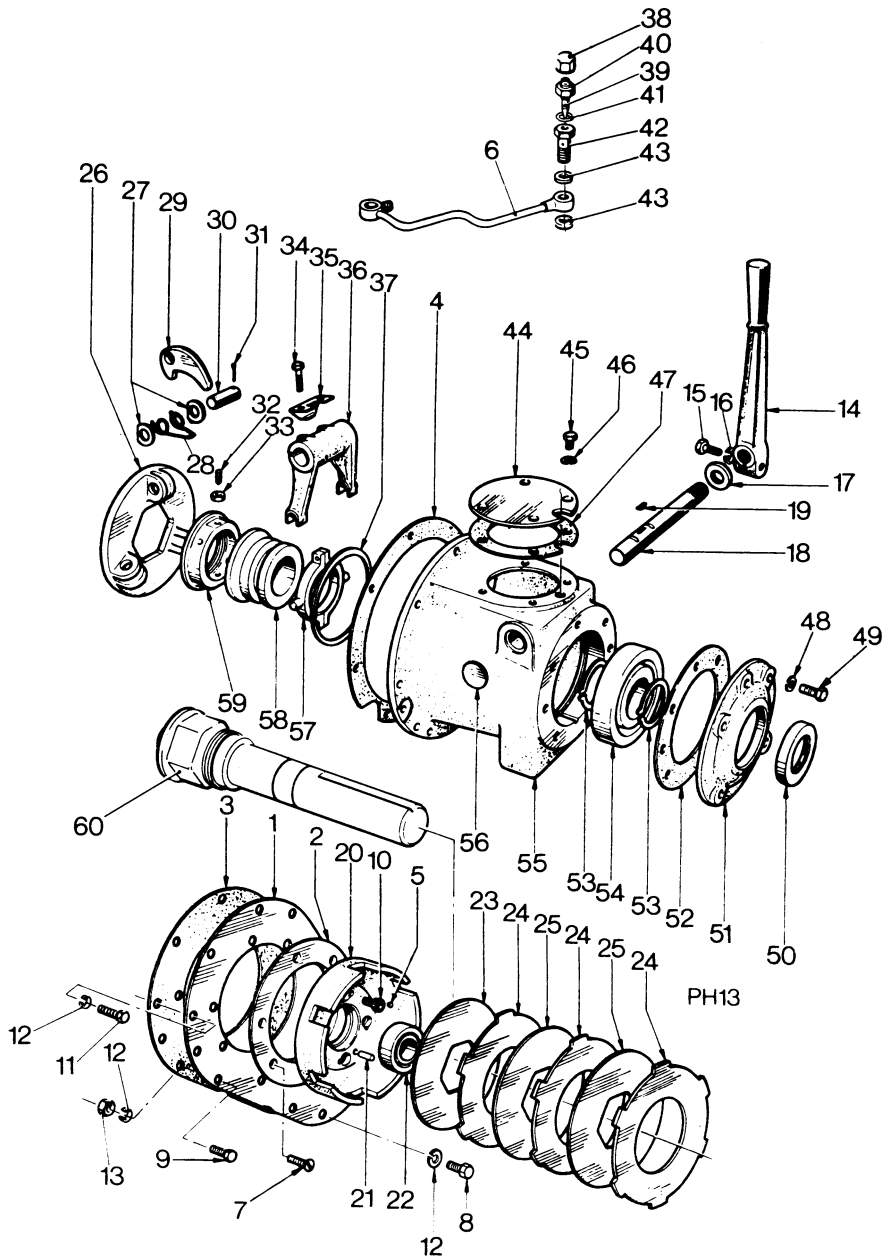
| Illus No. | Description | Part No. | PH | |
|--|------------------------------------|----------|----|---|
| | | | 1 | 2 |
| EXTENSION SHAFT - Gear End - Partially Machined | | | | |
| | EXTENSION SHAFT KIT | Code BD | 1 | 1 |
| 1 | HOUSING - Extn Shaft Bearing | 150528 | 1 | 1 |
| 2 | PIPE ASSEMBLY - Lub Oil | 194872 | 1 | 1 |
| 3 | BUSH | 202485 | 1 | 1 |
| 4 | EXTENSION SHAFT | 296278 | 1 | 1 |
| 5 | DOWEL | 206091 | 1 | 1 |
| 6 | UNION - Lub Oil | 251418 | 1 | 1 |
| 7 | SETSCREW | 327492 | 4 | 4 |
| 8 | WASHER | 843104 | 1 | 1 |



EXTENSION SHAFT © 1987

PH1 & 2 CODE BE & BF

| Illus No. | Description | Part No. | PH | |
|---------------|--|----------|----|----|
| | | | 1 | 2 |
| CLUTCH | | | | |
| | CLUTCH KIT - Crankshaft Drive | Code BE | 1 | 1 |
| | CLUTCH KIT - Camshaft Drive | Code BF | 1 | 1 |
| 1 | PLATE - Adaptor | 150597 | 1 | 1 |
| 2 | PLATE - Spigot | 150598 | 1 | 1 |
| | JOINT - Adaptor Plate:- | | | |
| 3 | Code BE | 150599 | 1 | 1 |
| - | Code BF | 150600 | 1 | 1 |
| 4 | JOINT | 206342 | 1 | 1 |
| 5 | SEAL SCREW | 251098 | 4 | 4 |
| | PIPE ASSEMBLY - Oil Feed:- | | | |
| 6 | Code BE | 5/253263 | 1 | 1 |
| - | Code BF | 196917 | 1 | 1 |
| 7 | SCREW - Countersunk - 5/16" x 3/4" | 721018 | 4 | 4 |
| 8 | BOLT - 5/16" x 3/4" | 722025 | 4 | 4 |
| 9 | SETSCREW - 5/16" x 7/8" | 722026 | 5 | 5 |
| 10 | CAPSCREW - 5/16" x 3/4" | 724030 | 4 | 4 |
| 11 | BOLT - 5/16" x 1.1/8" | 725028 | 3 | 3 |
| 12 | SPRING WASHER | 786029 | 12 | 12 |
| 13 | NUT - 5/16 BSF | 726002 | 4 | 4 |
| | CLUTCH ASSEMBLY - Comprising | 294225 | 1 | 1 |
| 14 | OPERATING LEVER | 192222 | 1 | 1 |
| 15 | BOLT | 725029 | 1 | 1 |
| 16 | SPRING WASHER | 786029 | 1 | 1 |
| 17 | OIL SEAL | 254452 | 1 | 1 |
| | CLUTCH COMPRISING | 294223 | 1 | 1 |
| 18 | SHAFT - Yoke | 255318 | 1 | 1 |
| 19 | WOODRUFF KEY | 792011 | 1 | 1 |
| 20 | FLANGE - Driving | 192614 | 1 | 1 |

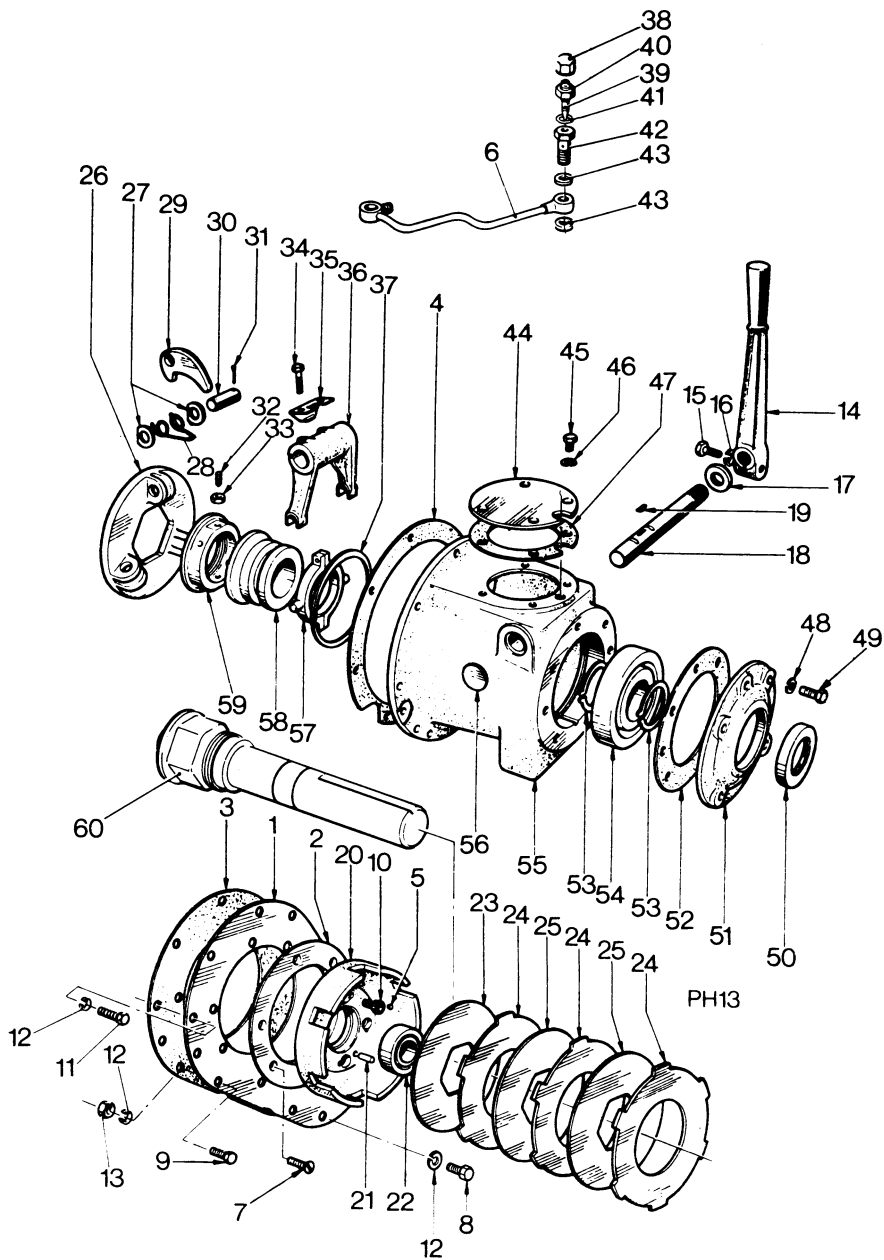


PH1 & 2 CODE BE & BF

| Illus No. | Description | Part No. | PH | |
|-----------------------|---------------------------------------|----------|----|---|
| | | | 1 | 2 |
| CLUTCH | | | | |
| CLUTCH ASSEMBLY Cont. | | | | |
| 21 | DOWEL | 206091 | 1 | 1 |
| 22 | ROLLER BEARING | 255312 | 1 | 1 |
| 23 | PLATE - Inner | 255317 | 1 | 1 |
| 24 | PLATE - Driving | 255315 | 3 | 3 |
| 25 | PLATE - Driven | 255316 | 2 | 2 |
| 26 | PLATE - Outer | 340120 | 1 | 1 |
| 27 | WASHER - Toggle Pin | 257656 | 6 | 6 |
| 28 | SPRING - Toggle | 340045 | 3 | 3 |
| 29 | TOGGLE | 255308 | 3 | 3 |
| 30 | PIN - Toggle | 340067 | 3 | 3 |
| 31 | SPLIT PIN | 773016 | 6 | 6 |
| 32 | SCREW - Adjusting Ring | 254098 | 1 | 1 |
| 33 | LOCKNUT | 726016 | 1 | 1 |
| 34 | BOLT | 725006 | 2 | 2 |
| 35 | TABWASHER - Yoke | 258526 | 1 | 1 |
| 36 | YOKE | 255319 | 1 | 1 |
| 37 | CIRCLIP | 784022 | 1 | 1 |
| | RESTRICTOR ASSEMBLY - Comprises | 347731 | 1 | 1 |
| 38 | CAPNUT | | 1 | 1 |
| 39 | RESTRICTOR | | 1 | 1 |
| 40 | LOCKNUT | | 1 | 1 |
| 41 | 'O'RING | | 1 | 1 |
| 42 | PLUG - Swivel Union | | 1 | 1 |
| 43 | COPPER WASHER | 843104 | 2 | 2 |

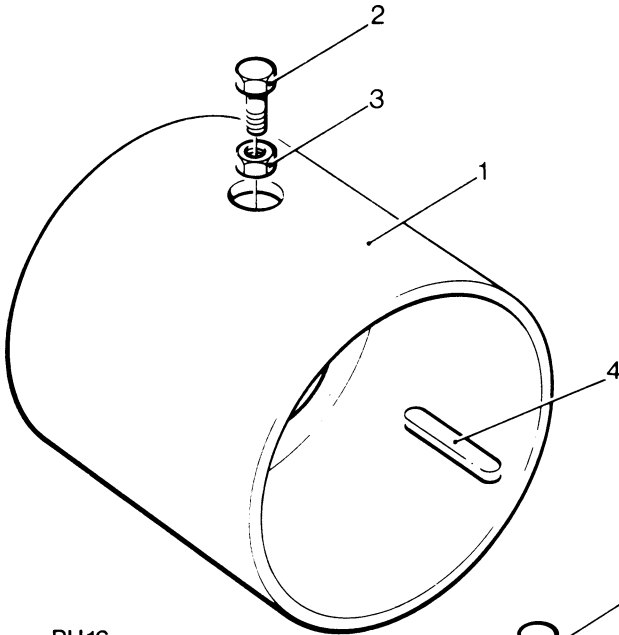
PH1 & 2 CODE BE & BF

| Illus No. | Description | Part No. | PH | |
|-----------------------|--------------------------------|----------|----|---|
| | | | 1 | 2 |
| CLUTCH | | | | |
| CLUTCH ASSEMBLY Cont. | | | | |
| 44 | COVER | 254093 | 1 | 1 |
| 45 | SETSCREW - 5/16" x 1/2" | 722023 | 4 | 4 |
| 46 | SPRING WASHER | 786029 | 4 | 4 |
| 47 | JOINT | 269778 | 1 | 1 |
| 48 | SPRING WASHER | 786030 | 5 | 5 |
| 49 | SETSCREW - 3/8" x 1.1/8" | 722050 | 5 | 5 |
| 50 | OIL SEAL - Drive Shaft | 844009 | 1 | 1 |
| 51 | HOUSING - Oil Seal | 192613 | 1 | 1 |
| 52 | JOINT | 206284 | 1 | 1 |
| 53 | CIRCLIP | 784213 | 2 | 2 |
| 54 | BALL BEARING | 250596 | 1 | 1 |
| 55 | HOUSING | 141375 | 1 | 1 |
| 56 | CORE PLUG | 264493 | 1 | 1 |
| 57 | THRUST RING ASSEMBLY | 255310 | 1 | 1 |
| 58 | SLEEVE - Sliding | 340119 | 1 | 1 |
| 59 | ADJUSTING RING | 255309 | 1 | 1 |
| 60 | DRIVE SHAFT | 192612 | 1 | 1 |

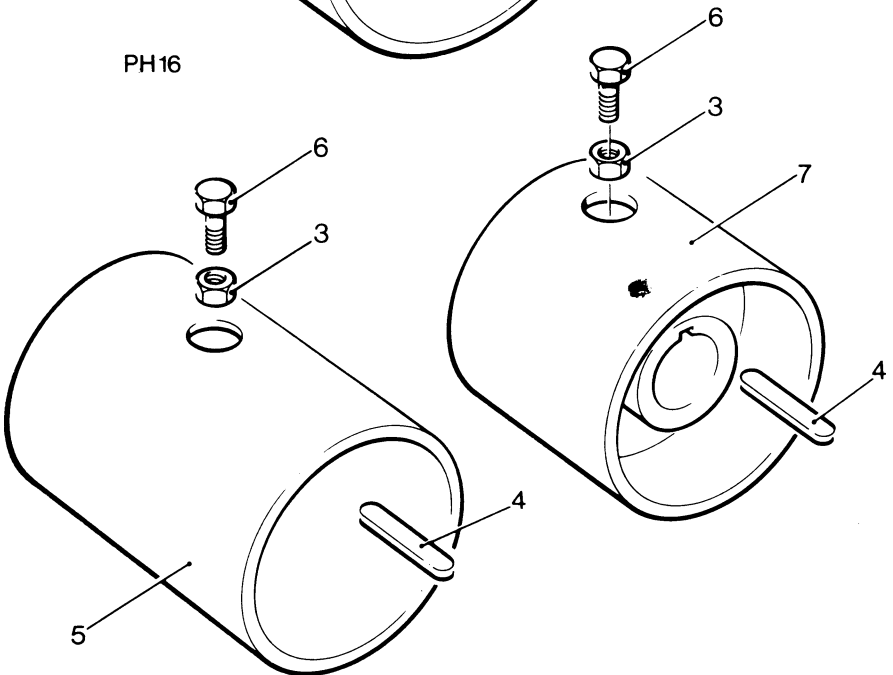


PH1 & 2 CODE BG, BH, BJ.

| Illus No. | Description | Part No. | PH | |
|----------------|-------------------------------|----------|----|---|
| | | | 1 | 2 |
| PULLEYS | | | | |
| | 7" x 7" PULLEY KIT | Code BG | 1 | 1 |
| 1 | PULLEY 7" x 7" | 150593 | 1 | 1 |
| 2 | BOLT - 5/16" BSF x 7/8" | 722026 | 1 | 1 |
| 3 | LOCKNUT | 726017 | 1 | 1 |
| 4 | KEY | 790021 | 1 | 1 |
| | 7" x 5" PULLEY KIT | Code BH | 1 | 1 |
| 3 | LOCKNUT | 726017 | 1 | 1 |
| 4 | KEY | 790021 | 1 | 1 |
| 5 | PULLEY 7" x 5" | 150594 | 1 | 1 |
| 6 | BOLT - 5/16" BSF x 7/8" | 722026 | 1 | 1 |
| | 4.1/2" x 5" PULLEY KIT | Code BJ | 1 | 1 |
| 3 | LOCKNUT | 726017 | 1 | 1 |
| 4 | KEY | 790021 | 1 | 1 |
| 6 | BOLT - 5/16" BSF x 7/8" | 722026 | 1 | 1 |
| 7 | PULLEY 4.1/2" x 5" | 252435 | 1 | 1 |

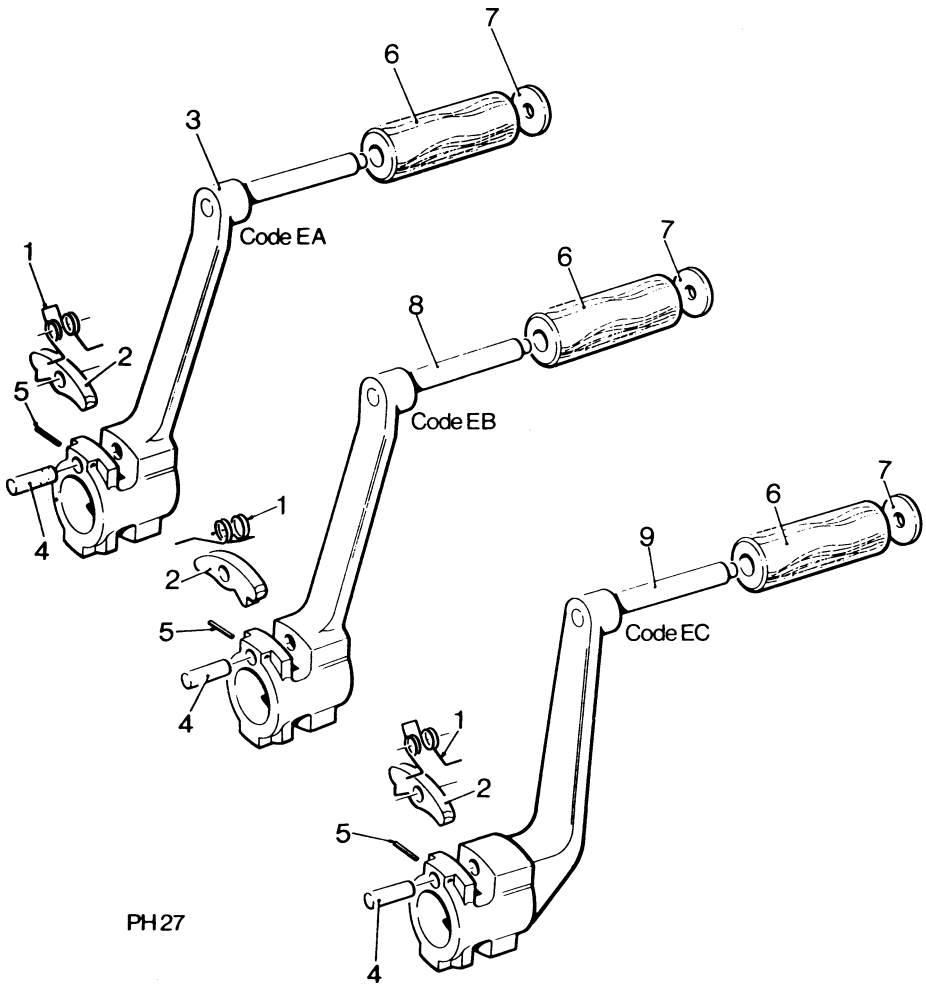


PH16



PH1 & 2 CODE EA, EB, EC.

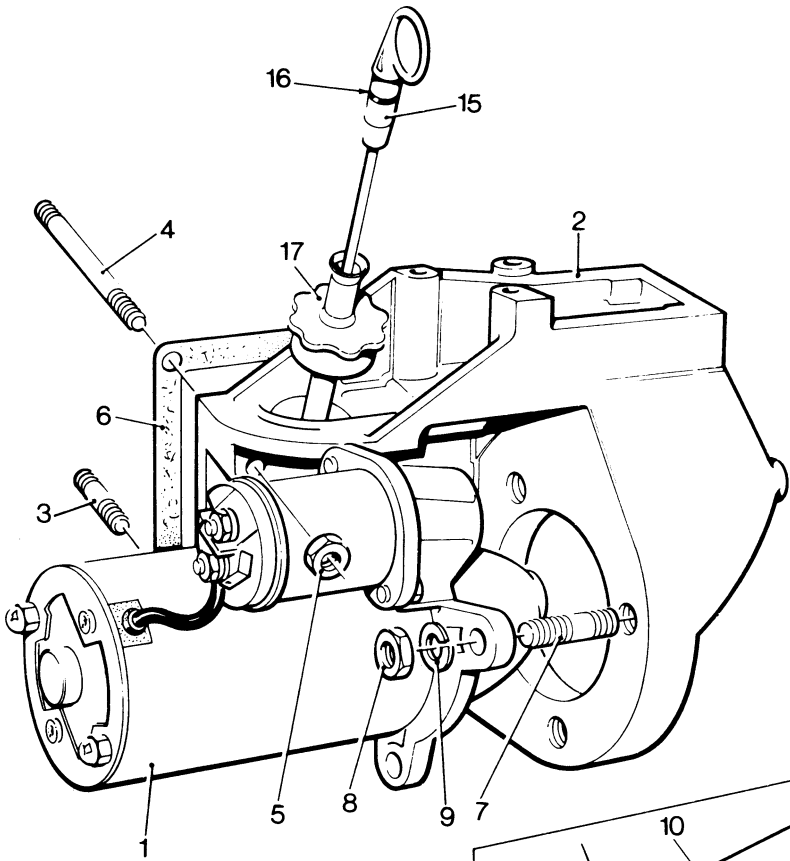
| Illus No. | Description | Part No. | PH | |
|-------------------------|-----------------------------------|----------|----|---|
| | | | 1 | 2 |
| STARTING HANDLES | | | | |
| | CLOCKWISE ROTATION KIT | Code EA | 1 | 1 |
| - | STARTING HANDLE ASSEMBLY | 193374 | 1 | 1 |
| 1 | SPRING PAWL | 251959 | 1 | 1 |
| 2 | PAWL | 251960 | 1 | 1 |
| 3 | HANDLE & SPINDLE ASSY | 272553 | 1 | 1 |
| 4 | PIN | 350840 | 1 | 1 |
| 5 | SPRING TENSION PIN | 774110 | 1 | 1 |
| 6 | WOOD GRIP | 20911 | 1 | 1 |
| 7 | WASHER | 50382 | 1 | 1 |
| | ANTI-CLOCKWISE ROTATION KIT | Code EB | 1 | 1 |
| - | STARTING HANDLE ASSEMBLY | 193398 | 1 | 1 |
| 1 | SPRING PAWL | 251959 | 1 | 1 |
| 2 | PAWL | 251960 | 1 | 1 |
| 4 | PIN | 350840 | 1 | 1 |
| 5 | SPRING TENSION PIN | 774110 | 1 | 1 |
| 6 | WOOD GRIP | 20911 | 1 | 1 |
| 7 | WASHER | 50382 | 1 | 1 |
| 8 | HANDLE & SPINDLE ASSY | 272553 | 1 | 1 |
| | LONG STARTING HANDLE KIT | Code EC | 1 | 1 |
| - | STARTING HANDLE ASSEMBLY | 292124 | 1 | 1 |
| 1 | SPRING PAWL | 251959 | 1 | 1 |
| 2 | PAWL | 251960 | 1 | 1 |
| 4 | PIN | 350840 | 1 | 1 |
| 5 | SPRING TENSION PIN | 774110 | 1 | 1 |
| 6 | WOOD GRIP | 20911 | 1 | 1 |
| 7 | WASHER | 50382 | 1 | 1 |
| 9 | HANDLE & SPINDLE ASSY | 292126 | 1 | 1 |



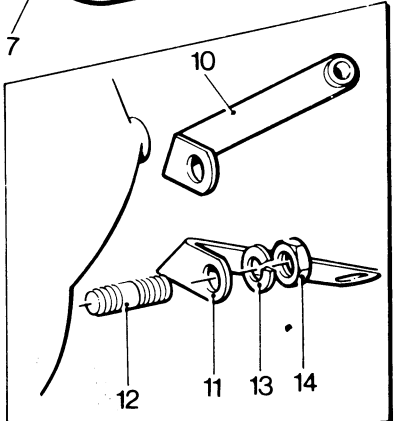
STARTING HANDLES © 1987

PH1 & 2 CODE EE, EF

| Illus No. | Description | Part No. | PH | |
|----------------------|--------------------------------------|-----------|----|---|
| | | | 1 | 2 |
| STARTER MOTOR | | | | |
| | CLOCKWISE ROTATION KIT | Code EE | 1 | 1 |
| | ANTI - CLOCKWISE ROTATION KIT | Code EF | 1 | 1 |
| 1 | STARTER MOTOR - Clockwise | 366-08053 | 1 | 1 |
| - | STARTER MOTOR - Anti-Clockwise | 204-13270 | 1 | 1 |
| 2 | BRACKET | 402535 | 1 | 1 |
| 3 | STUD | 760032 | 3 | 3 |
| 4 | STUD | 760046 | 1 | 1 |
| 5 | NUT | 726002 | 4 | 4 |
| 6 | JOINT | 360271 | 1 | 1 |
| 7 | STUD | 760061 | 3 | 3 |
| 8 | NUT | 726003 | 3 | 3 |
| 9 | SPRING WASHER | 786030 | 3 | 3 |
| 10 | BRACKET-} Clockwise | 193435 | 1 | 1 |
| 11 | BRACKET-} Rotation Only | 350503 | 1 | 1 |
| 12 | STUD | 760174 | 1 | 1 |
| 13 | SPRING WASHER | 786030 | 1 | 1 |
| 14 | NUT | 726003 | 1 | 1 |
| 15 | DIPSTICK - Includes | 363837 | 1 | 1 |
| 16 | 'O' RING | 266003 | 1 | 1 |
| 17 | DIPSTICK TUBE | 364625 | 1 | 1 |
| | CIRCUIT DRAWING | 362158 | 1 | 1 |
| | INSTRUCTION TRANSFER | 361380 | 1 | 1 |

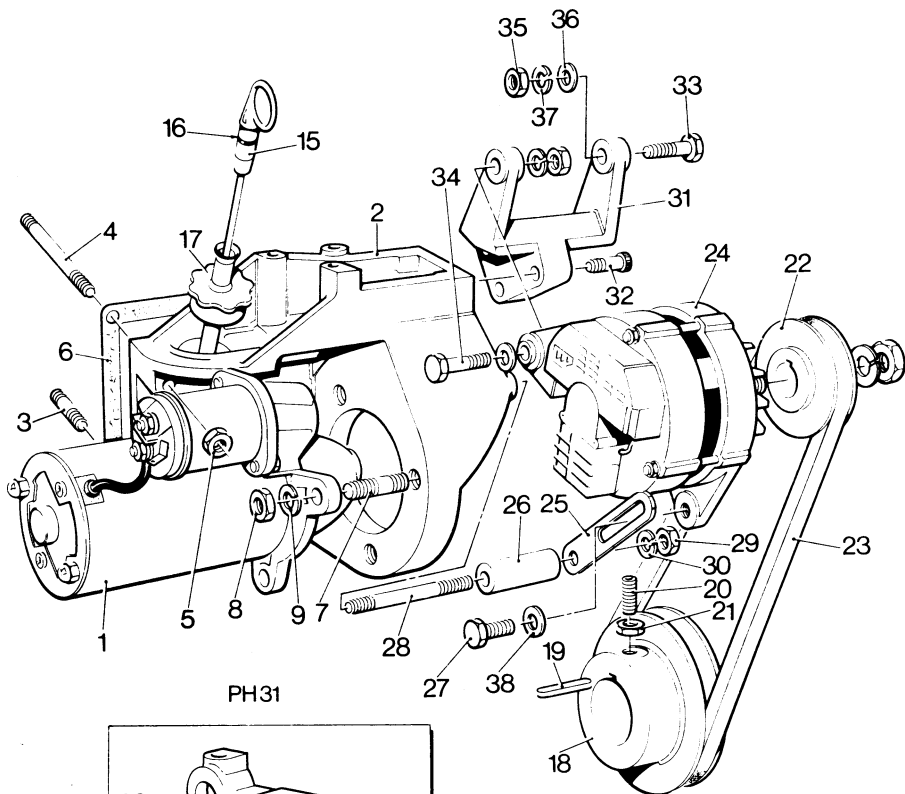


PH30

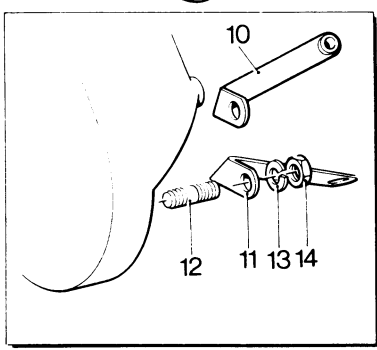
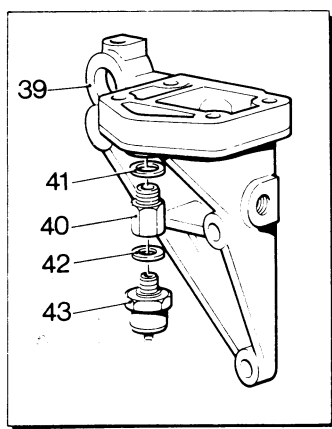


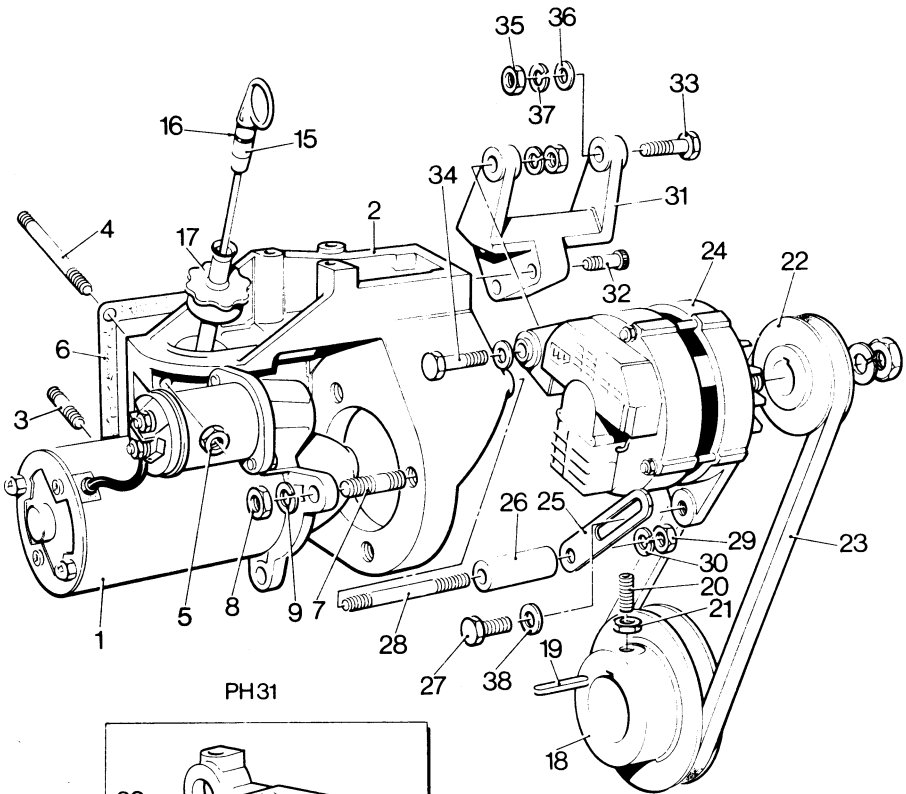
PH1 & 2 CODE EG, EH

| Illus No. | Description | Part No. | PH | |
|---------------------------------------|--------------------------------------|-----------|----|---|
| | | | 1 | 2 |
| STARTER MOTOR & ALTERNATOR | | | | |
| | CLOCKWISE ROTATION KIT | Code EG | 1 | 1 |
| | ANTI-CLOCKWISE ROTATION KIT | Code EH | 1 | 1 |
| 1 | STARTER MOTOR - Clockwise | 366-08053 | 1 | 1 |
| - | STARTER MOTOR - Anti-Clockwise | 204-13270 | 1 | 1 |
| 2 | BRACKET | 402535 | 1 | 1 |
| 3 | STUD | 760032 | 3 | 3 |
| 4 | STUD | 760046 | 1 | 1 |
| 5 | NUT | 726002 | 4 | 4 |
| 6 | JOINT | 360271 | 1 | 1 |
| 7 | STUD | 760061 | 3 | 3 |
| 8 | NUT | 726003 | 3 | 3 |
| 9 | SPRING WASHER | 786030 | 3 | 3 |
| 10 | BRACKET-} Clockwise | 193435 | 1 | 1 |
| 11 | BRACKET-} Rotation Only | 350503 | 1 | 1 |
| 12 | STUD | 760174 | 1 | 1 |
| 13 | SPRING WASHER | 786030 | 1 | 1 |
| 14 | NUT | 726003 | 1 | 1 |
| 15 | DIPSTICK - Includes | 363837 | 1 | 1 |
| 16 | 'O' RING | 266003 | 1 | 1 |
| 17 | DIPSTICK TUBE | 364625 | 1 | 1 |
| | CIRCUIT DRAWING | 362158 | 1 | 1 |
| | INSTRUCTION TRANSFER | 361380 | 1 | 1 |

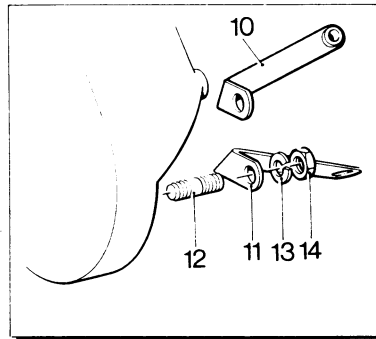
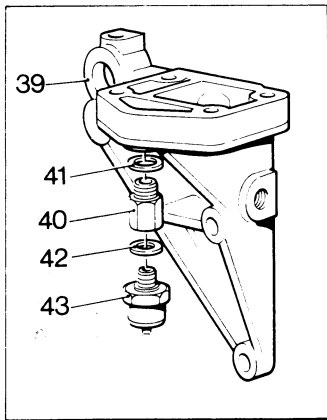


PH31



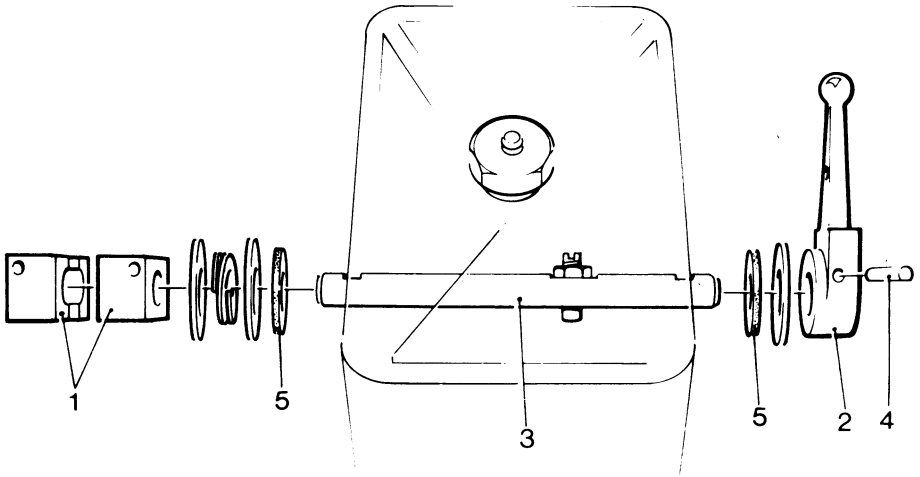


PH31



PH2 CODE EJ, EX

| Illus No. | Description | Part No. | PH | |
|---|---------------------------|----------|----|---|
| | | | 1 | 2 |
| COUPLED DECOMPRESSORS - 2 Cyl only | | | | |
| COUPLED DECOMPRESSOR KIT :- | | | | |
| | FITTED FLYWHEEL END | Code EJ | - | 1 |
| | FITTED GEAR END | Code EX | - | 1 |
| 1 | DOG - Decompressor | 250311 | - | 2 |
| 2 | LEVER | 252662 | - | 1 |
| 3 | SHAFT | 253025 | - | 1 |
| 4 | PIN | 772111 | - | 1 |
| 5 | WASHER | 785017 | - | 2 |



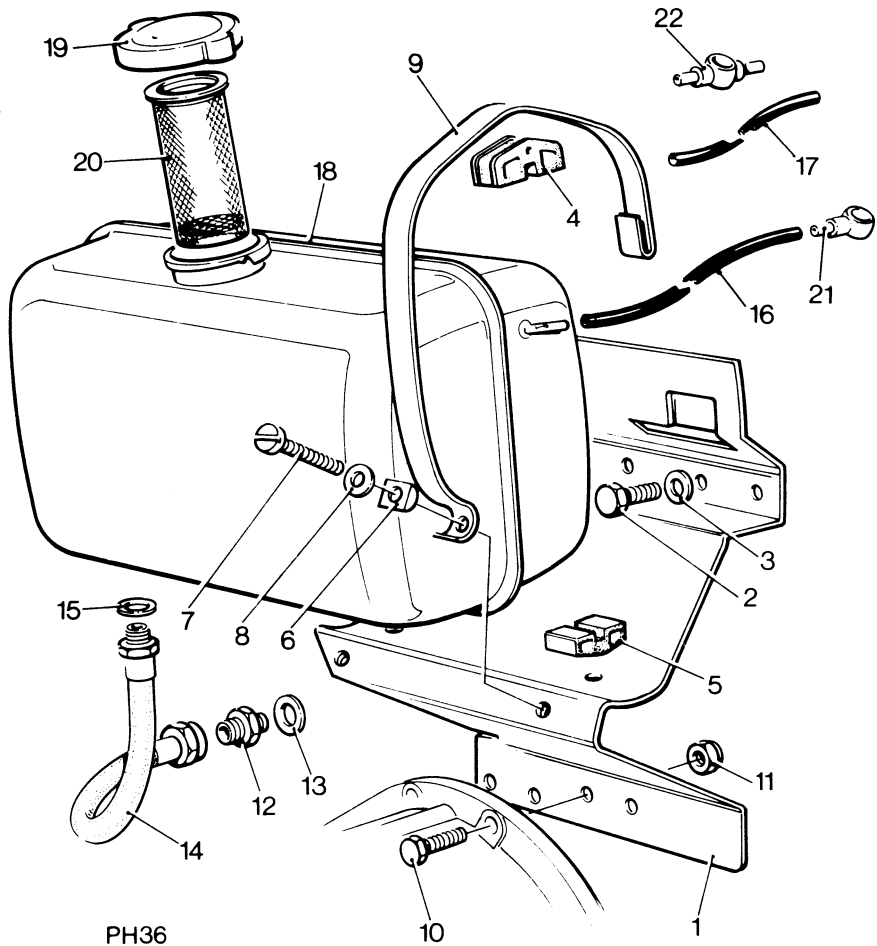
PH51

COUPLED DECOMPRESSORS © 1987

PH1 & 2 CODE FA

| Illus No. | Description | Part No. | PH | |
|--|----------------------------------|----------|----|---|
| | | | 1 | 2 |
| FUEL TANK - 6.8L Engine Mounted | | | | |
| | 6.8L FUEL TANK KIT | Code FA | 1 | 1 |
| 1 | BRACKET | 299054 | 1 | 1 |
| 2 | SETSCREW - 5/16" x 3/4" | 722025 | 2 | 2 |
| 3 | WASHER | 785632 | 2 | 2 |
| 4 | PACKING | 334019 | 2 | 2 |
| 5 | PACKING | 334020 | 2 | 2 |
| 6 | BOSS | 259900 | 2 | 2 |
| 7 | SCREW | 720009 | 2 | 2 |
| 8 | WASHER | 785011 | 2 | 2 |
| 9 | STRAP - Fuel Tank | 325625 | 2 | 2 |
| 10 | SETSCREW | 722003 | 2 | 2 |
| 11 | LOCKNUT | 727001 | 2 | 2 |
| 12 | REDUCING UNION | 833054 | 1 | 1 |
| 13 | COPPER WASHER | 843105 | 1 | 1 |
| 14 | FUEL PIPE - Flexible | 250227 | 1 | 1 |
| 15 | COPPER WASHER | 843005 | 1 | 1 |
| 16 | FUEL PIPE - Leak off - *** | 259041 | 1 | 1 |
| 17 | FUEL PIPE - Leak off - *** | 258722 | - | 1 |
| 18 | FUEL TANK | 292970 | 1 | 1 |
| 19 | CAP - Fuel Tank | 266555 | 1 | 1 |
| 20 | STRAINER | 205459 | 1 | 1 |
| 21 | SWIVEL UNION. | 268839 | 1 | 1 |
| 22 | SWIVEL UNION | 318977 | - | 1 |

*** Use 671110 in 1ft Lengths



6.8L ENGINE MOUNTED FUEL TANK © 1987

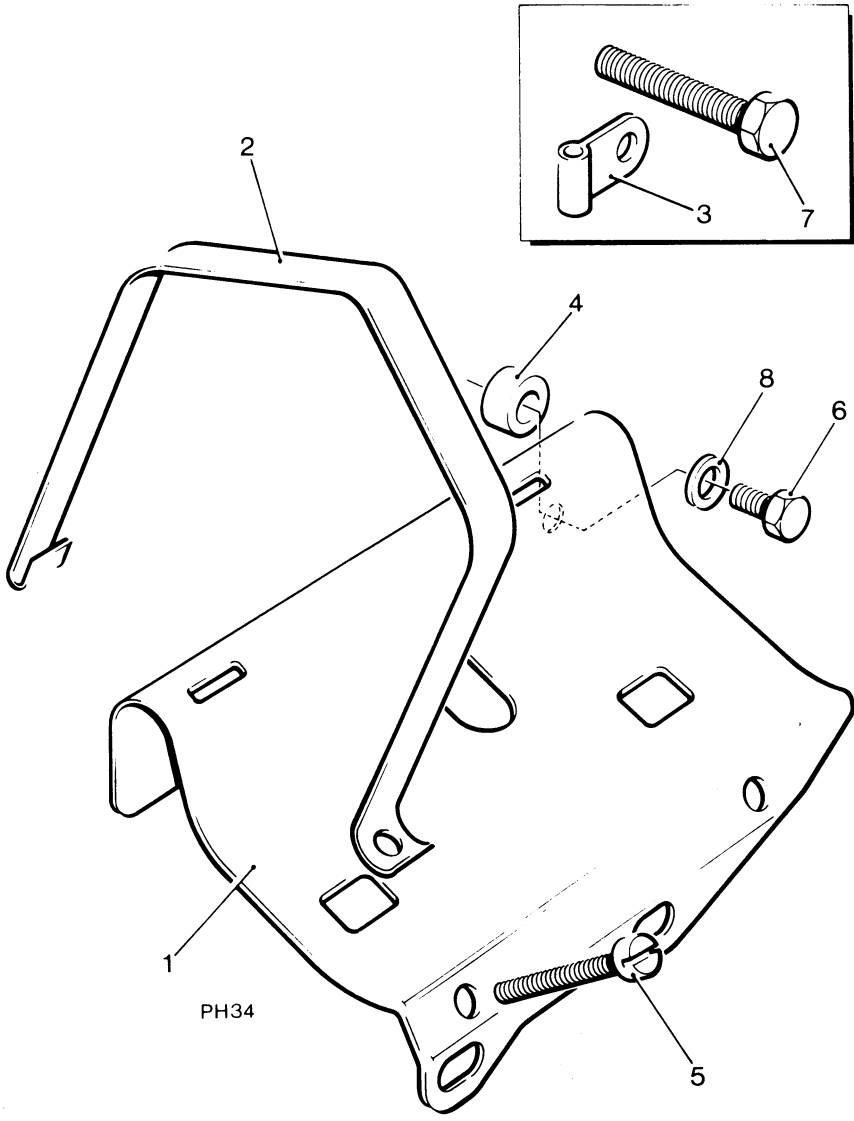
PH1 & 2 CODE FB

| | | | |
|-------|-------------|----------|-----|
| Illus | | | PH |
| No. | Description | Part No. | 1 2 |

6.8L ENGINE MOUNTED FUEL TANK

ADDITIONAL PARTS REQUIRED WITH HYDRAULIC PUMP

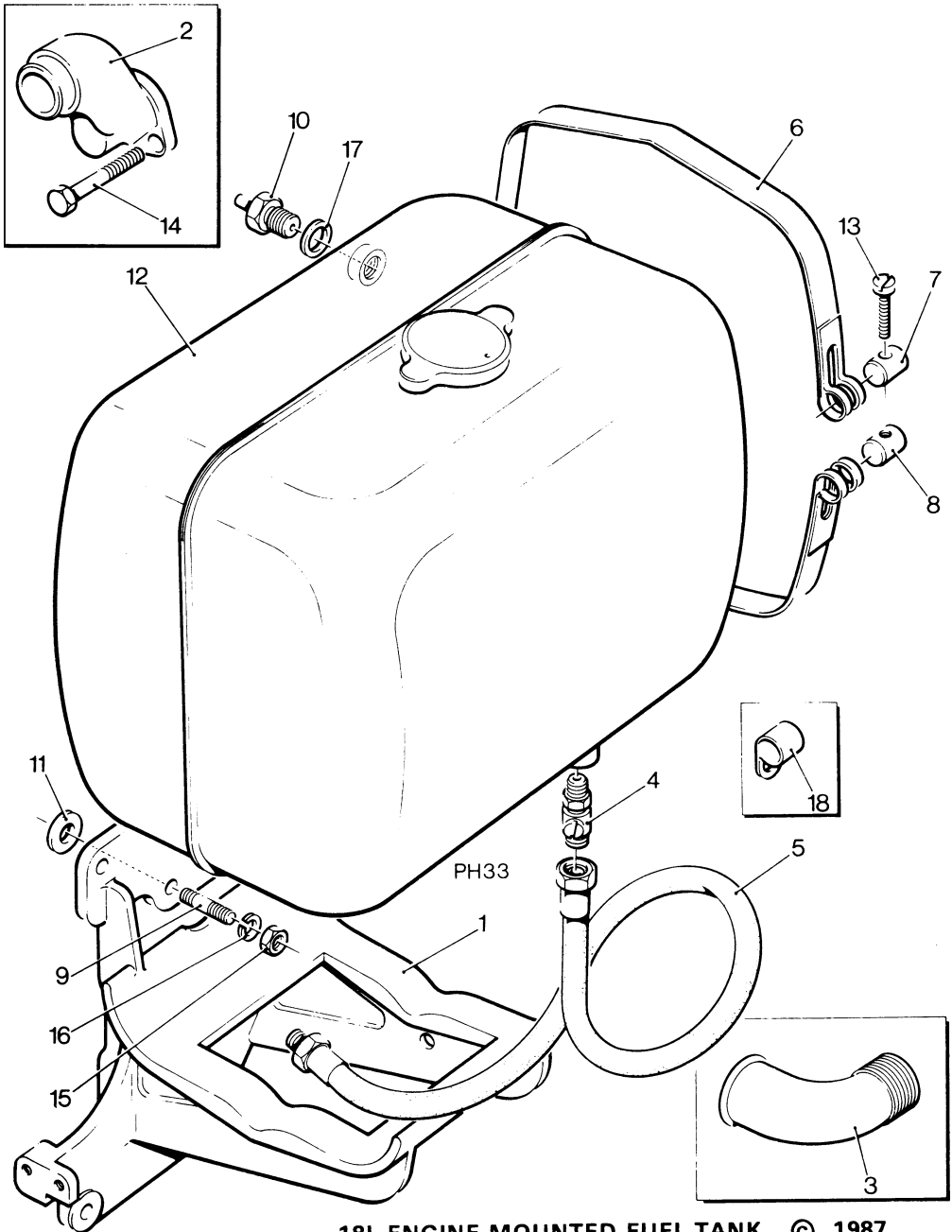
| | | | |
|---------------------------------------|--------------------------|--------|-----|
| ENGINE MOUNTED FUEL TANK | | | |
| WITH HYDRAULIC PUMP KIT Code FB | | | |
| 1 | BRACKET | 197644 | 1 1 |
| 2 | STRAP | 259899 | 2 2 |
| 3 | CLIP - Oil Pipe | 320736 | 1 1 |
| 4 | SPACER | 340845 | 2 2 |
| 5 | SCREW - Cheese Head..... | 720012 | 2 2 |
| 6 | SETSCREW | 722024 | 2 2 |
| 7 | SETSCREW | 722056 | 2 2 |
| 8 | WASHER..... | 785013 | 2 2 |



6.8L ENGINE MOUNTED FUEL TANK © 1987

PH1 & 2 CODE FC

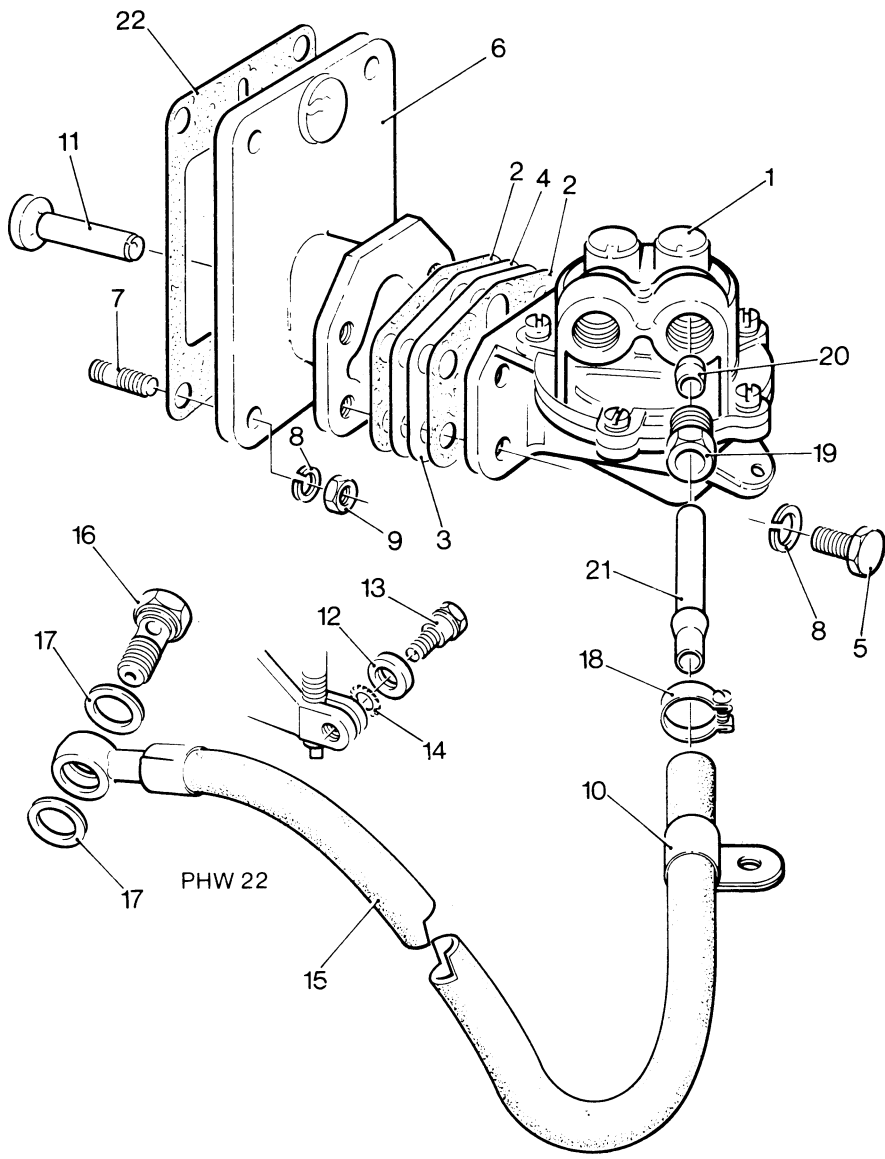
| Illus No. | Description | Part No. | PH | |
|-------------------------------------|------------------------------|----------|----|---|
| | | | 1 | 2 |
| 18L ENGINE MOUNTED FUEL TANK | | | | |
| | 18L FUEL TANK KIT | Code FC | 1 | 1 |
| 1 | BRACKET | 140037 | 1 | 1 |
| 2 | INLET MANIFOLD - 1 cyl | 191058 | 1 | - |
| 3 | EXHAUST BEND | 251025 | 1 | - |
| 4 | TAP - Fuel Tank | 205393 | 1 | 1 |
| 5 | FUEL PIPE - 18" | 250692 | 1 | 1 |
| 6 | STRAP | 251230 | 2 | 2 |
| 7 | BOSS | 251231 | 2 | 2 |
| 8 | BOSS | 251232 | 2 | 2 |
| 9 | STUD | 257102 | 2 | 2 |
| 10 | ADAPTOR SCREW | 258877 | 1 | 1 |
| 11 | DISTANCE PIECE | 325626 | 2 | 2 |
| 12 | FUEL TANK - Includes | 402045 | 1 | 1 |
| | CAP | 266555 | 1 | 1 |
| 13 | SCREW | 720012 | 2 | 2 |
| 14 | BOLT | 725035 | 1 | - |
| 15 | NUT | 726002 | 2 | 2 |
| 16 | WASHER | 786029 | 2 | 2 |
| 17 | WASHER | 843104 | 1 | 1 |
| 18 | PIPE CLIP | 255057 | - | 1 |



18L ENGINE MOUNTED FUEL TANK © 1987

PH1 & 2 CODE FG

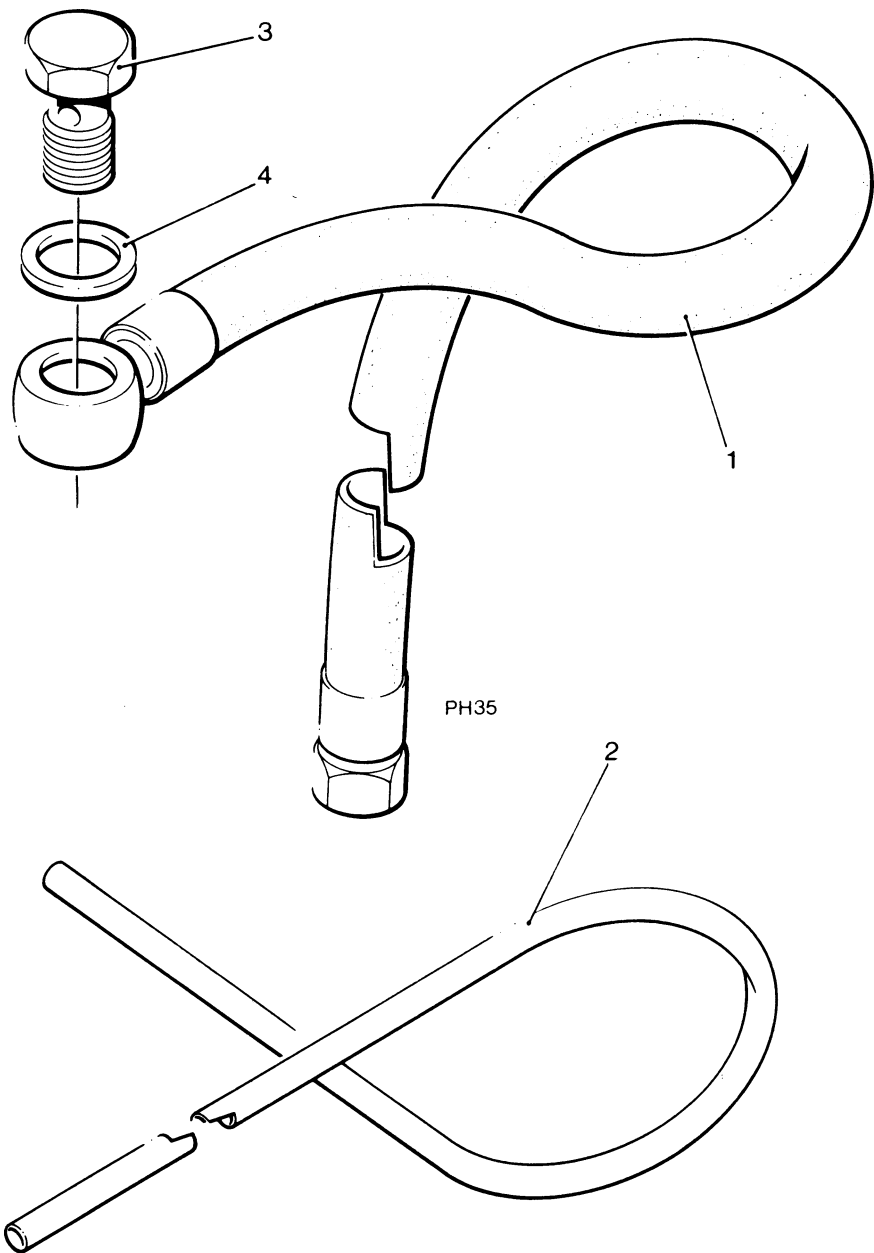
| Illus No. | Description | Part No. | PH | |
|---------------------------------------|---------------------------|-----------|----|---|
| | | | 1 | 2 |
| FUEL FEED PUMP - 4 Bolt Fixing | | | | |
| | FUEL FEED PUMP KIT | Code FG | 1 | 1 |
| 1 | FUEL FEED PUMP | 275235 | 1 | 1 |
| 2 | JOINT | 365216 | 2 | 2 |
| 3 | SHIM | 365217 | 1 | 1 |
| 4 | SHIM | 365218 | 1 | 1 |
| 5 | SETSCREW | 722024 | 4 | 4 |
| 6 | BRACKET | 275233 | 1 | 1 |
| 7 | STUD | 760032 | 4 | 4 |
| 8 | SPRING WASHER | 786029 | 8 | 8 |
| 9 | NUT | 726002 | 4 | 4 |
| 10 | PIPE CLAMP | 255057 | 1 | 1 |
| 11 | PUSH ROD | 256177 | 1 | 1 |
| 12 | ROLLER - Operating | 254117 | 1 | 1 |
| 13 | PINCH BOLT | 254118 | 1 | 1 |
| 14 | LOCK WASHER | 786606 | 1 | 1 |
| 15 | FLEXIBLE PIPE | 365265 | 1 | 1 |
| 16 | PLUG - Swivel Union | 831026 | 1 | 1 |
| 17 | COPPER WASHER | 843105 | 2 | 2 |
| 18 | PIPE CLIP | 327764 | 1 | 1 |
| 19 | UNION | 202-42370 | 2 | 2 |
| 20 | OLIVE | 601-38360 | 2 | 2 |
| 21 | CONNECTION PIPE | 365312 | 2 | 2 |
| 22 | JOINT | 360276 | 1 | 1 |



FUEL FEED PUMP © 1987

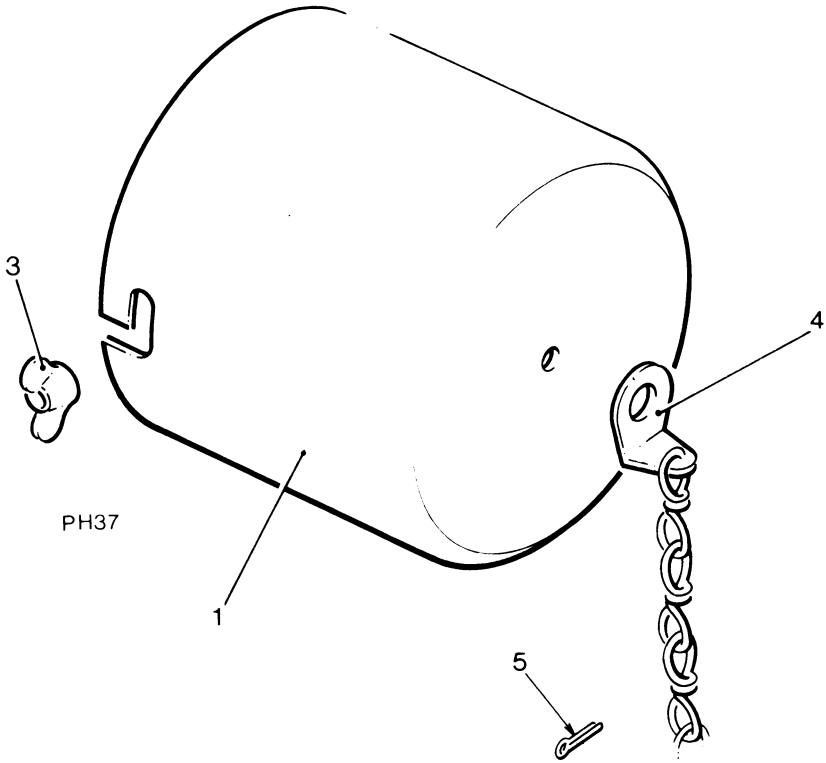
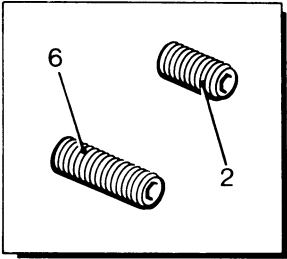
PH2 CODE FH

| Illus No. | Description | Part No. | PH | |
|----------------------------|------------------------------|----------|----|-----|
| | | | 1 | 2 |
| FLEXIBLE FUEL PIPES | | | | |
| | FLEXIBLE FUEL PIPE KIT | Code FH | - | 1 |
| 1 | FUEL PIPE Flexible | 260726 | - | 1 |
| 2 | LEAK OFF TUBING | 671110 | - | 3ft |
| 3 | PLUG - Swivel Union | 831026 | - | 1 |
| 4 | COPPER WASHER | 843005 | - | 1 |



PH1 & 2 CODE GA

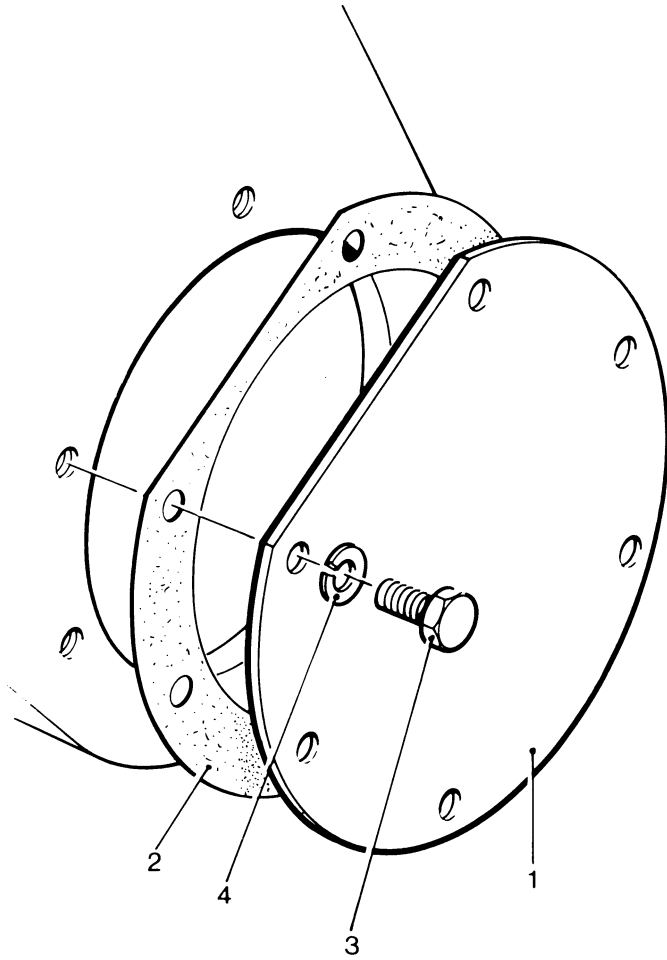
| Illus No. | Description | Part No. | PH | |
|-----------------------------|--------------------------------|----------|----|---|
| | | | 1 | 2 |
| STARTING SHAFT GUARD | | | | |
| | STARTING SHAFT GUARD KIT | Code GA | 1 | 1 |
| 1 | STARTING SHAFT GUARD | 207080 | 1 | 1 |
| - | TRANSFER | 251714 | 1 | 1 |
| 2 | GRUB SCREW | 714108 | 1 | 1 |
| 3 | WING NUT | 718002 | 1 | 1 |
| 4 | CHAIN ASSEMBLY | 207079 | 1 | 1 |
| 5 | SPLIT PIN | 773029 | 1 | 1 |
| 6 | GRUB SCREW | 714111 | 1 | 1 |



STARTING SHAFT GUARD © 1987

PH1 & 2 CODE GB

| Illus No. | Description | Part No. | PH | |
|-----------------------------|----------------------|----------|----|---|
| | | | 1 | 2 |
| BLANKED OFF GEAR END | | | | |
| | GEAR COVER KIT | Code GB | 1 | 1 |
| 1 | COVER | 254475 | 1 | 1 |
| 2 | JOINT | 360268 | 1 | 1 |
| 3 | SETSCREW | 722024 | 6 | 6 |
| 4 | SPRING WASHER | 786029 | 6 | 6 |

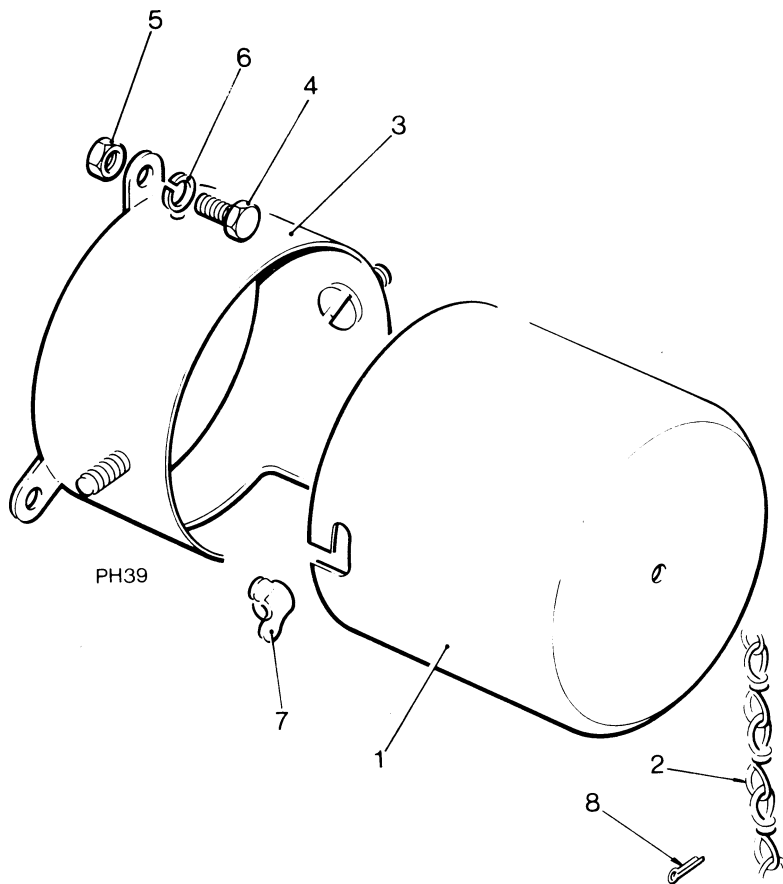


PH38

BLANKING COVER © 1987

PH1 & 2 CODE GC

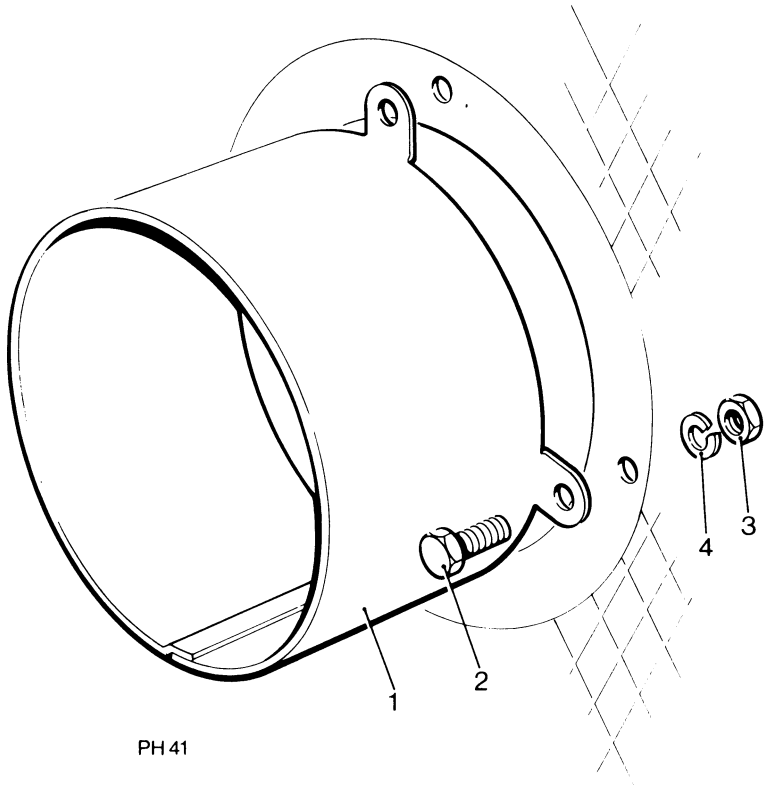
| Illus No. | Description | Part No. | PH | |
|---|-------------------------|----------|----|---|
| | | | 1 | 2 |
| SHAFT GUARD - Flywheel End - Removable | | | | |
| | SHAFT GUARD KIT | Code GC | 1 | 1 |
| 1 | GUARD | 207080 | 1 | 1 |
| 2 | CHAIN - Guard | 250220 | 1 | 1 |
| 3 | PROTECTIVE SLEEVE | 318861 | 1 | 1 |
| 4 | SETSCREW | 710007 | 3 | 3 |
| 5 | NUT | 716001 | 3 | 3 |
| 6 | SPRING WASHER | 786027 | 3 | 3 |
| 7 | WING NUT | 718002 | 2 | 2 |
| 8 | SPLIT PIN | 773029 | 2 | 2 |



SHAFT GUARD © 1987

PH1 & 2 CODE GD

| Illus No. | Description | Part No. | PH | |
|---|-----------------------|----------|----|---|
| | | | 1 | 2 |
| SHAFT GUARD - Flywheel End - Fixed | | | | |
| | SHAFT GUARD KIT | Code GD | 1 | 1 |
| 1 | GUARD | 360286 | 1 | 1 |
| 2 | SETSCREW | 710007 | 3 | 3 |
| 3 | NUT | 716001 | 3 | 3 |
| 4 | SPRING WASHER | 786027 | 3 | 3 |



PH41

SHAFT GUARD © 1987

PH1 & 2 CODE GE, GF, GG

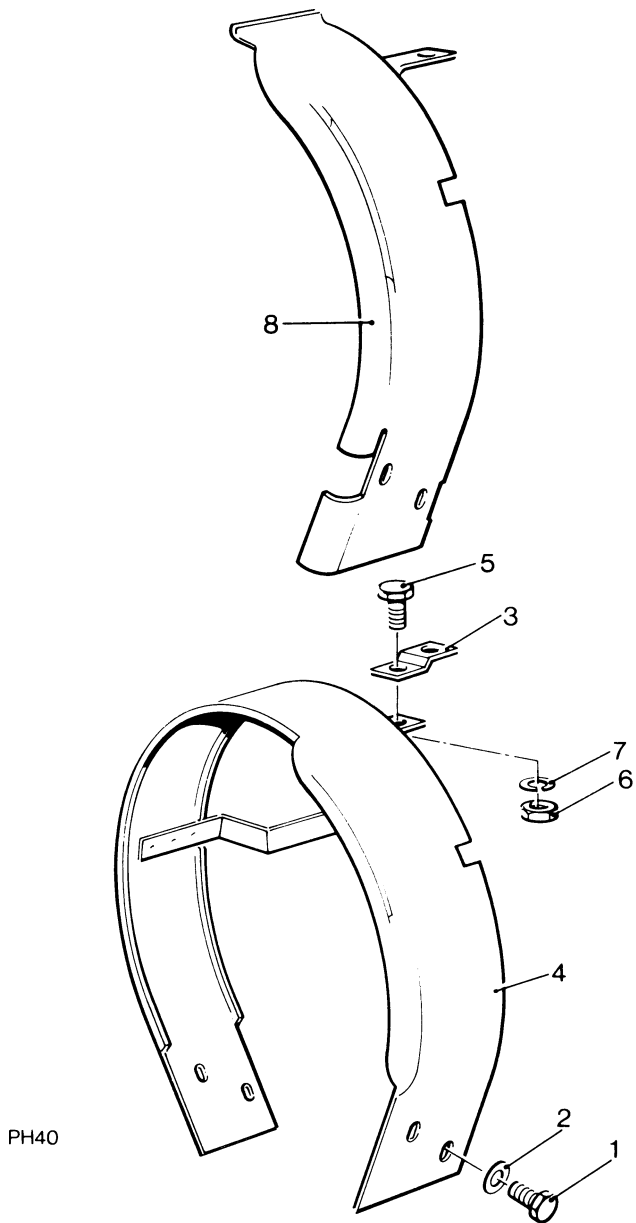
| Illus No. | Description | Part No. | PH 1 2 |
|--------------|-------------|----------|-----------|
|--------------|-------------|----------|-----------|

FLYWHEEL GUARDS

| | | | |
|---|-------------------------------------|---------|-----|
| | FLYWHEEL GUARD KIT - CW | Code GE | 1 1 |
| | FLYWHEEL GUARD KIT - ACW | Code GF | 1 1 |
| 1 | SETSCREW | 258388 | 4 4 |
| 2 | WASHER | 266991 | 4 4 |
| 3 | BRACKET | 355863 | 1 1 |
| 4 | FLYWHEEL GUARD - CW Rotation | 405508 | 1 1 |
| - | FLYWHEEL GUARD - ACW Rotation | 406351 | 1 1 |
| 5 | BOLT | 722025 | 1 1 |
| 6 | NUT | 726002 | 1 1 |
| 7 | SPRING WASHER | 786029 | 1 1 |

FLYWHEEL GUARD - Electric Start

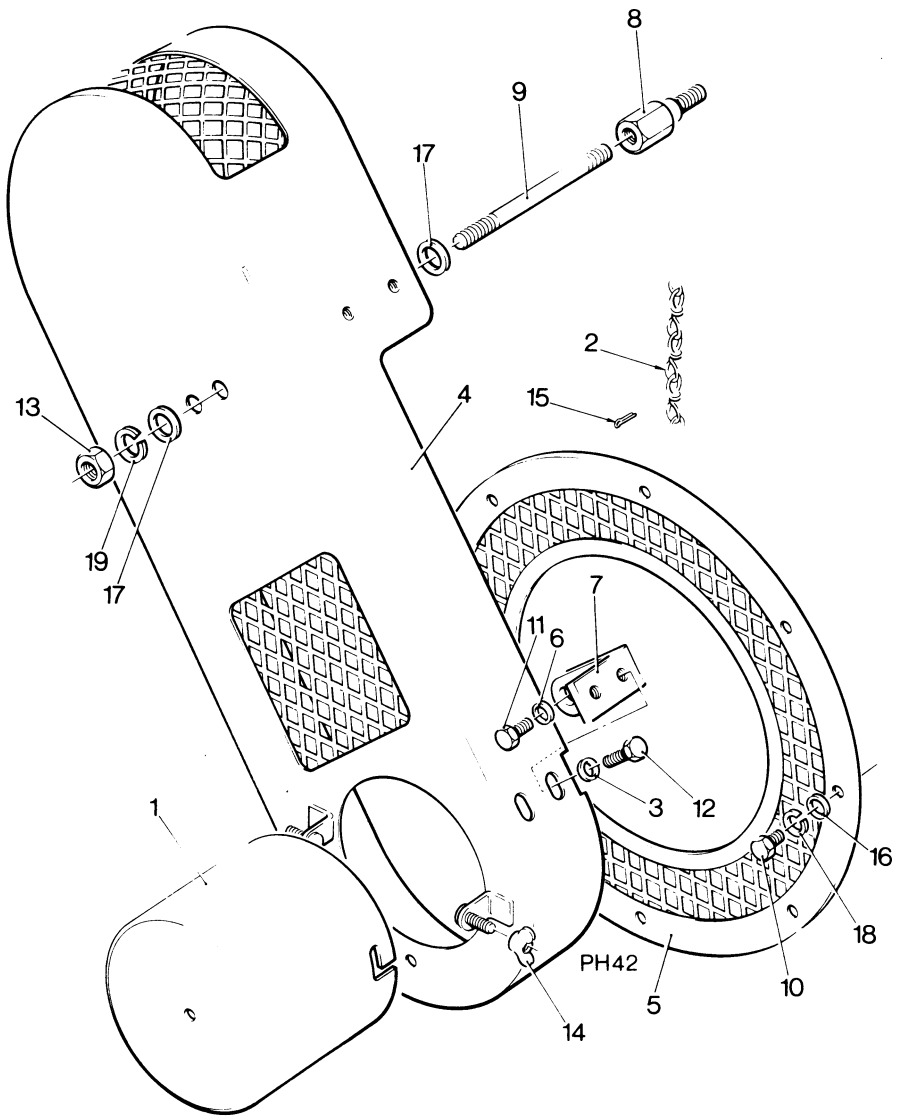
| | | | |
|---|--------------------------|---------|-----|
| | FLYWHEEL GUARD KIT | Code GG | 1 1 |
| 1 | SETSCREW | 258388 | 2 2 |
| 2 | WASHER | 266991 | 2 2 |
| 8 | GUARD | 402814 | 1 1 |



FLYWHEEL GUARD © 1987

PH1 & 2 CODE GH

| Illus No. | Description | Part No. | PH | |
|--------------------------------------|----------------------|----------|----|---|
| | | | 1 | 2 |
| GUARD - Alternator Drive Belt | | | | |
| | BELT GUARD KIT | Code GH | 1 | 1 |
| 1 | GUARD | 207080 | 1 | 1 |
| 2 | CHAIN GUARD | 250220 | 1 | 1 |
| 3 | WASHER | 266991 | 4 | 4 |
| 4 | GUARD - Fan | 296770 | 1 | 1 |
| 5 | GUARD - Belt | 298430 | 1 | 1 |
| 6 | WASHER | 355841 | 2 | 2 |
| 7 | BRACKET | 358414 | 2 | 2 |
| 8 | ADAPTOR | 358415 | 1 | 1 |
| 9 | STUD | 359025 | 1 | 1 |
| 10 | SCREW - M5 | 360964 | 6 | 6 |
| 11 | SCREW | 702203 | 2 | 2 |
| 12 | SCREW | 702223 | 4 | 4 |
| 13 | NUT | 706137 | 2 | 2 |
| 14 | WING NUT | 708003 | 2 | 2 |
| 15 | SPLIT PIN | 773029 | 2 | 2 |
| 16 | WASHER | 785511 | 6 | 6 |
| 17 | WASHER | 785514 | 2 | 2 |
| 18 | SPRING WASHER | 786303 | 8 | 8 |
| 19 | SPRING WASHER | 786305 | 1 | 1 |



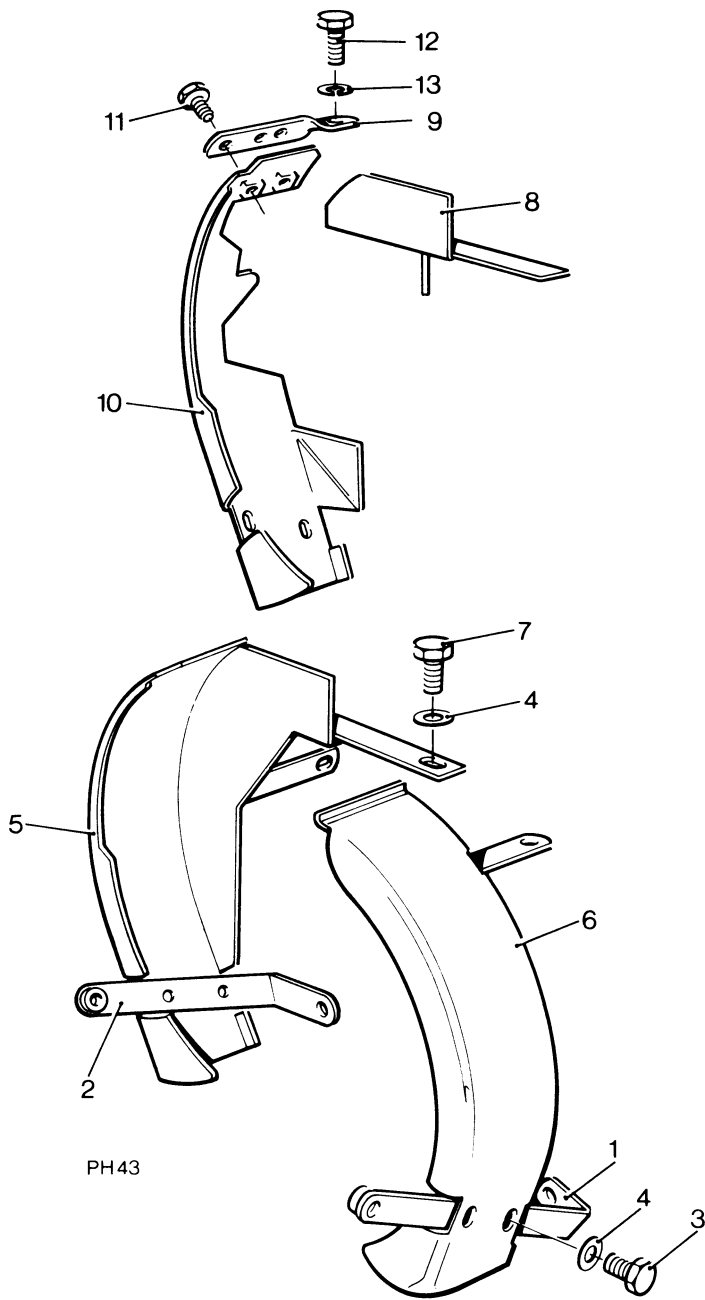
ALTERNATOR DRIVE BELT GUARD © 1987

PH1 & 2 CODE GJ, GK

| Illus No. | Description | Part No. | PH | |
|---|-----------------------------|----------|----|---|
| | | | 1 | 2 |
| FLYWHEEL GUARD - Health & Safety | | | | |
| | FLYWHEEL GUARD KIT | Code GJ | 1 | 1 |
| 1 | BRACKET - Fan Cowling | 193435 | 1 | 1 |
| 2 | BRACKET - Fan Cowling | 193984 | 1 | 1 |
| 3 | SETSCREW | 258388 | 4 | 4 |
| 4 | WASHER | 266991 | 5 | 5 |
| 5 | GUARD | 406253 | 1 | 1 |
| 6 | GUARD | 406545 | 1 | 1 |
| 7 | SCREW | 702223 | 1 | 1 |

FLYWHEEL GUARD - Health & Safety - Electric Start

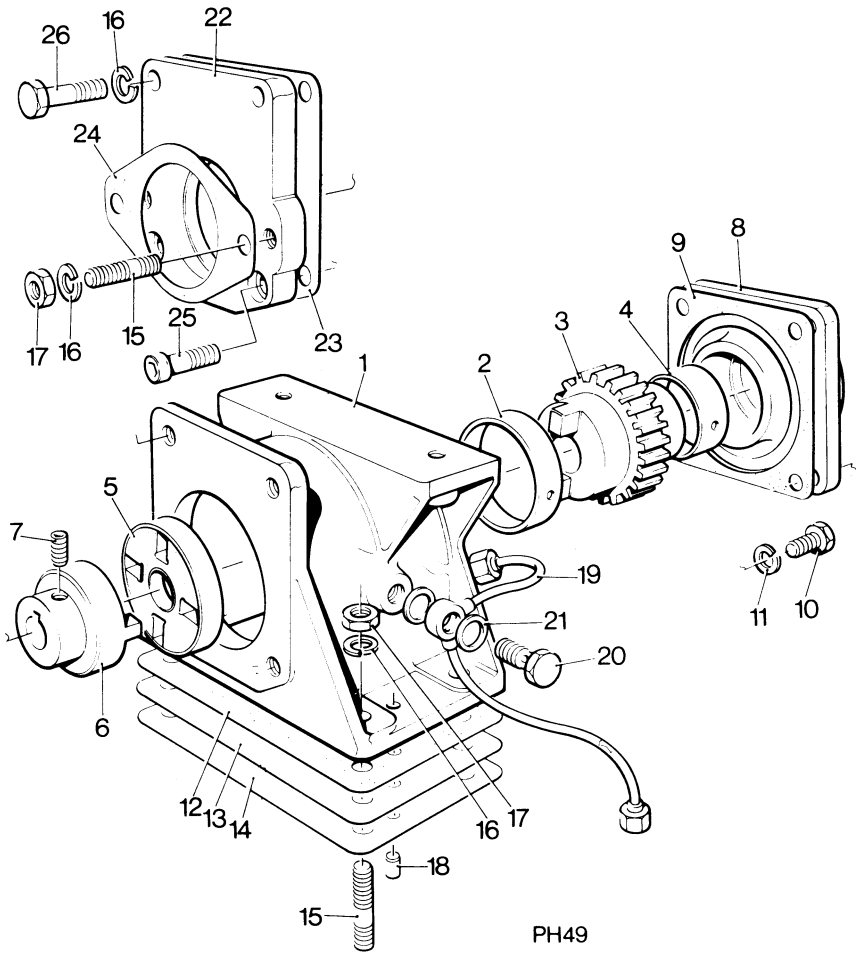
| | | | | |
|----|-----------------------------|---------|---|---|
| | FLYWHEEL GUARD KIT | Code GK | 1 | 1 |
| 1 | BRACKET - Fan Cowling | 193435 | 1 | 1 |
| 2 | BRACKET - Fan Cowling | 193984 | 1 | 1 |
| 3 | SETSCREW | 258388 | 4 | 4 |
| 4 | WASHER | 266991 | 5 | 5 |
| 6 | GUARD | 406545 | 1 | 1 |
| 7 | SCREW | 702223 | 1 | 1 |
| 8 | GUARD - Flywheel | 272705 | 1 | 1 |
| 9 | BRACKET | 361122 | 1 | 1 |
| 10 | GUARD | 406546 | 1 | 1 |
| 11 | SETSCREW | 702374 | 2 | 2 |
| 12 | SETSCREW | 722002 | 2 | 2 |
| 13 | SPRING WASHER | 786028 | 1 | 1 |



PH43

PH1 & 2 CODE HA, HB

| Illus No. | Description | Part No. | PH | |
|--|--|----------|----|---|
| | | | 1 | 2 |
| ADAPTORS HYDRAULIC PUMP - Dowty 2 Bolt Fixing | | | | |
| | ADAPTOR KIT - Dowty IP 3000 - Parallel | Code HA | 1 | 1 |
| | ADAPTOR KIT - Dowty - Taper | Code HB | 1 | 1 |
| 1 | HOUSING - Pump | 296252 | 1 | 1 |
| 2 | BEARING - Housing | 264704 | 1 | 1 |
| 3 | GEAR - Hydraulic Pump | 334968 | 1 | 1 |
| 4 | BUSH - Camshaft | 202485 | 1 | 1 |
| 5 | CENTER COUPLING | 266185 | 1 | 1 |
| 6 | COUPLING - Parellel | 334967 | 1 | 1 |
| - | COUPLING - Taper | 287908 | 1 | 1 |
| 7 | GRUBSCREW | 724202 | 1 | 1 |
| 8 | COVER - Pump Housing | 264701 | 1 | 1 |
| 9 | JOINT - Housing/Cover | 264702 | 1 | 1 |
| 10 | SETSCREW | 722024 | 4 | 4 |
| 11 | SPRING WASHER | 786029 | 4 | 4 |
| 12 | JOINT | 347744 | 1 | 1 |
| 13 | SHIM | 347745 | 4 | 4 |
| 14 | SHIM | 347746 | 2 | 2 |
| 15 | STUD | 760062 | 6 | 6 |
| 16 | SPRING WASHER | 786030 | 8 | 8 |
| 17 | NUT | 726003 | 6 | 6 |
| 18 | DOWEL | 206091 | 2 | 2 |
| 19 | PIPE ASSEMBLY | 294852 | 1 | 1 |
| 20 | PLUG - Swivel Union | 831025 | 1 | 1 |
| 21 | WASHER | 843104 | 2 | 2 |
| 22 | PLATE - Spigot | 294469 | 1 | 1 |
| 23 | JOINT - Spigot/Housing | 266159 | 1 | 1 |
| 24 | JOINT - Code HA | 334932 | 1 | 1 |
| | SHIM - Code HB | 325020 | 9 | 9 |
| 25 | CAPSCREW | 724056 | 2 | 2 |
| 26 | BOLT | 725049 | 2 | 2 |
| | INSTRUCTION LABEL | 268094 | 1 | 1 |

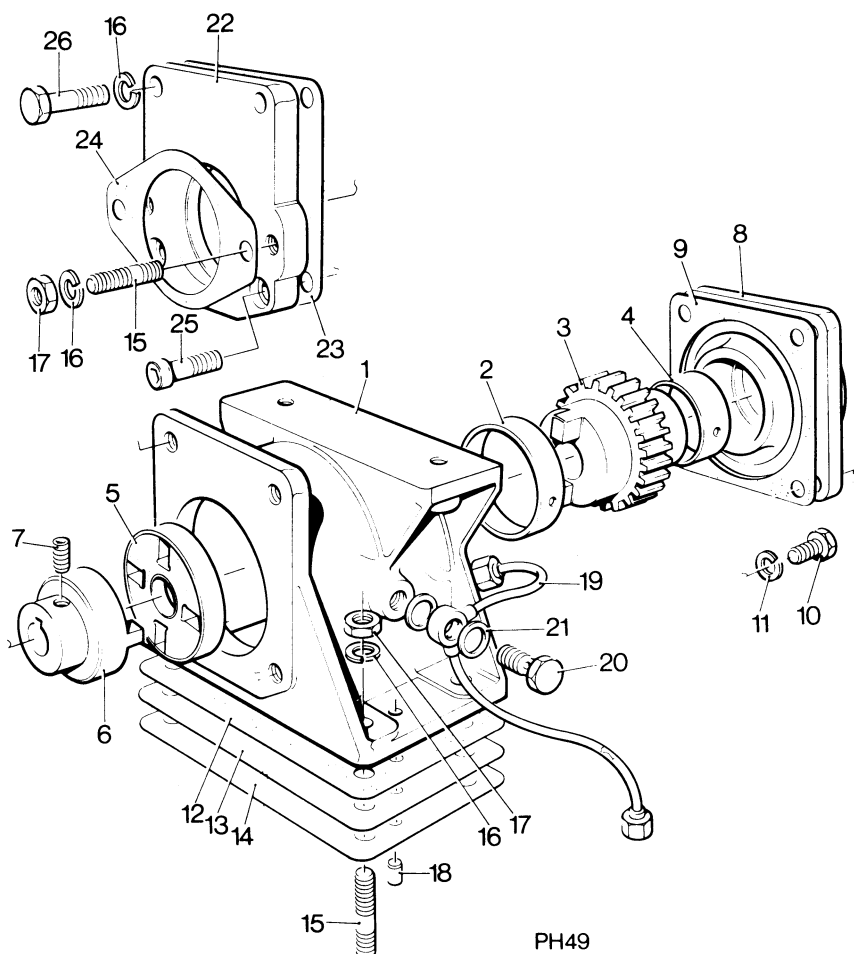


PH49

HYDRAULIC PUMP ADAPTOR © 1987

PH1 & 2 CODE HC

| Illus No. | Description | Part No. | PH | |
|--|------------------------------------|----------|----|---|
| | | | 1 | 2 |
| ADAPTOR HYDRAULIC PUMP - Salami - 4 Bolt Fixing | | | | |
| | ADAPTOR KIT - Salami - Taper | Code HC | 1 | 1 |
| 1 | HOUSING - Pump | 296252 | 1 | 1 |
| 2 | BEARING - Housing | 264704 | 1 | 1 |
| 3 | GEAR - Hydraulic Pump | 334968 | 1 | 1 |
| 4 | BUSH - Camshaft | 202485 | 1 | 1 |
| 5 | CENTER COUPLING | 266185 | 1 | 1 |
| 6 | COUPLING - Taper | 287908 | 1 | 1 |
| 7 | COVER - Pump Housing | 264701 | 1 | 1 |
| 8 | JOINT - Housing/Cover | 264702 | 1 | 1 |
| 9 | SETSCREW | 722024 | 4 | 4 |
| 10 | SPRING WASHER | 786029 | 4 | 4 |
| 11 | JOINT | 347744 | 1 | 1 |
| 12 | SHIM | 347745 | 4 | 4 |
| 13 | SHIM | 347746 | 2 | 2 |
| 14 | STUD | 760061 | 4 | 4 |
| 15 | SPRING WASHER | 786030 | 5 | 5 |
| 16 | NUT | 726003 | 4 | 4 |
| 17 | DOWEL | 206091 | 2 | 2 |
| 18 | PIPE ASSEMBLY | 294852 | 1 | 1 |
| 19 | PLUG - Swivel Union | 831025 | 1 | 1 |
| 20 | WASHER | 843104 | 2 | 2 |
| 21 | PLATE - Spigot | 296135 | 1 | 1 |
| 22 | SHIM | 347532 | 6 | 6 |
| 23 | JOINT | 347533 | 1 | 1 |
| 24 | STUD | 760036 | 4 | 4 |
| 25 | NUT - Nyloc | 727002 | 4 | 4 |
| 26 | CAPSCREW | 724056 | 3 | 3 |
| 27 | BOLT | 725049 | 1 | 1 |
| | INSTRUCTION LABEL | 358345 | 1 | 1 |

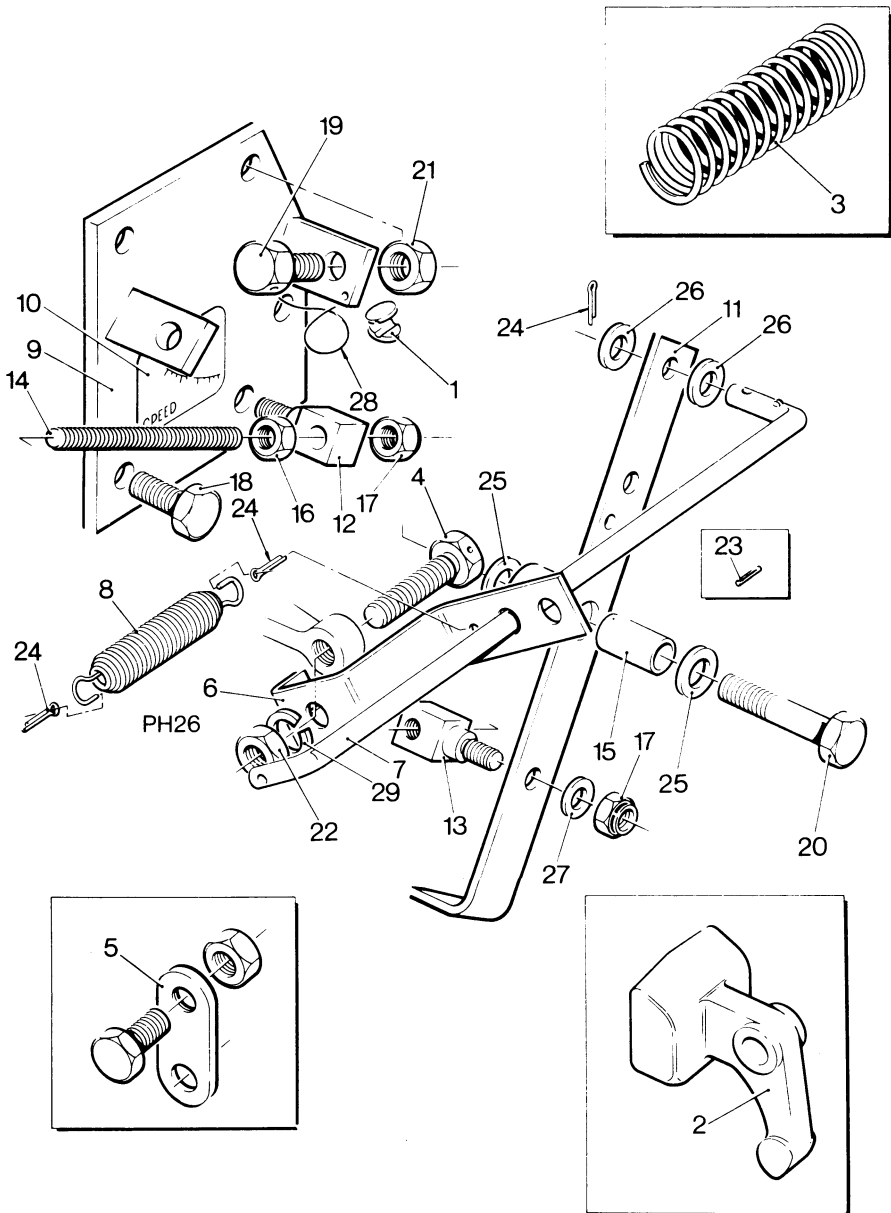


PH49

HYDRAULIC PUMP ADAPTOR © 1987

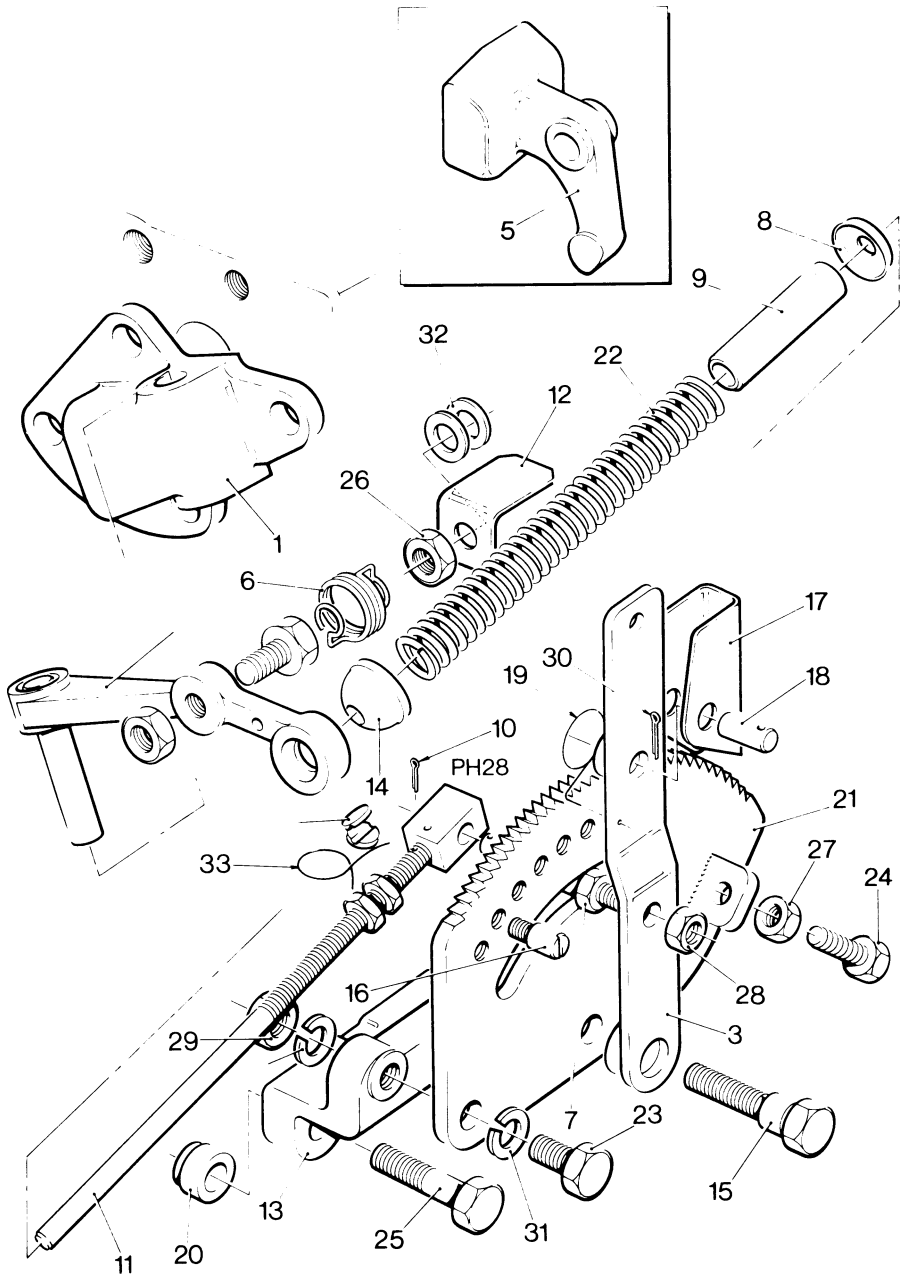
PH1 & 2 CODE KV

| Illus No. | Description | Part No. | PH | |
|---------------------------------------|----------------------------------|----------|--------|---|
| | | | 1 | 2 |
| ADJUSTABLE FIXED SPEED CONTROL | | | | |
| | SPEED CONTROL KIT | Code KV | 1 | 1 |
| 1 | SEAL | 250230 | 1 | 1 |
| 2 | GOVERNOR WEIGHT | 254671 | 2 | 2 |
| 3 | SPEEDER SPRING | 256921 | 1 | 1 |
| 4 | SETSCREW - Lever Adjusting | 259884 | 1 | 1 |
| 5 | STOP - Rack | 344634 | 1 | 1 |
| 6 | BRACKET | 344941 | 1 | 1 |
| 7 | ROD | 344942 | 1 | 1 |
| 8 | SPRING | 355562 | 1 | 1 |
| 9 | BRACKET | 359186 | 1 | 1 |
| 10 | SPEED SCALE | 359187 | 1 | 1 |
| 11 | LEVER | 359188 | 1 | 1 |
| 12 | BLOCK - Bracket..... | 359189 | 1 | 1 |
| 13 | BLOCK - Lever | 359190 | 1 | 1 |
| 14 | SCREW | 359192 | 1 | 1 |
| 15 | SPACER | 360504 | 1 | 1 |
| 16 | NUT | 706104 | 1 | 1 |
| 17 | LOCKNUT | 707004 | 3 | 3 |
| 18 | SETSCREW | 722024 | 3 | 3 |
| 19 | BOLT | 722025 | 1 | 1 |
| 20 | BOLT | 725177 | 1 | 1 |
| 21 | NUT | 726002 | 2 | 2 |
| 22 | NUT | 726017 | 1 | 1 |
| 23 | MILLS PIN | 771403 | 1 | 1 |
| 24 | SPLIT PIN | 773624 | 3 | 3 |
| 25 | WASHER | 785012 | 2 | 2 |
| 26 | WASHER | 785021 | 2 | 2 |
| 27 | WASHER | 785512 | 2 | 2 |
| 28 | WIRE | | AsReqd | |
| 29 | SPRING WASHER | 786003 | 1 | 1 |



PH1 & 2 CODE KX

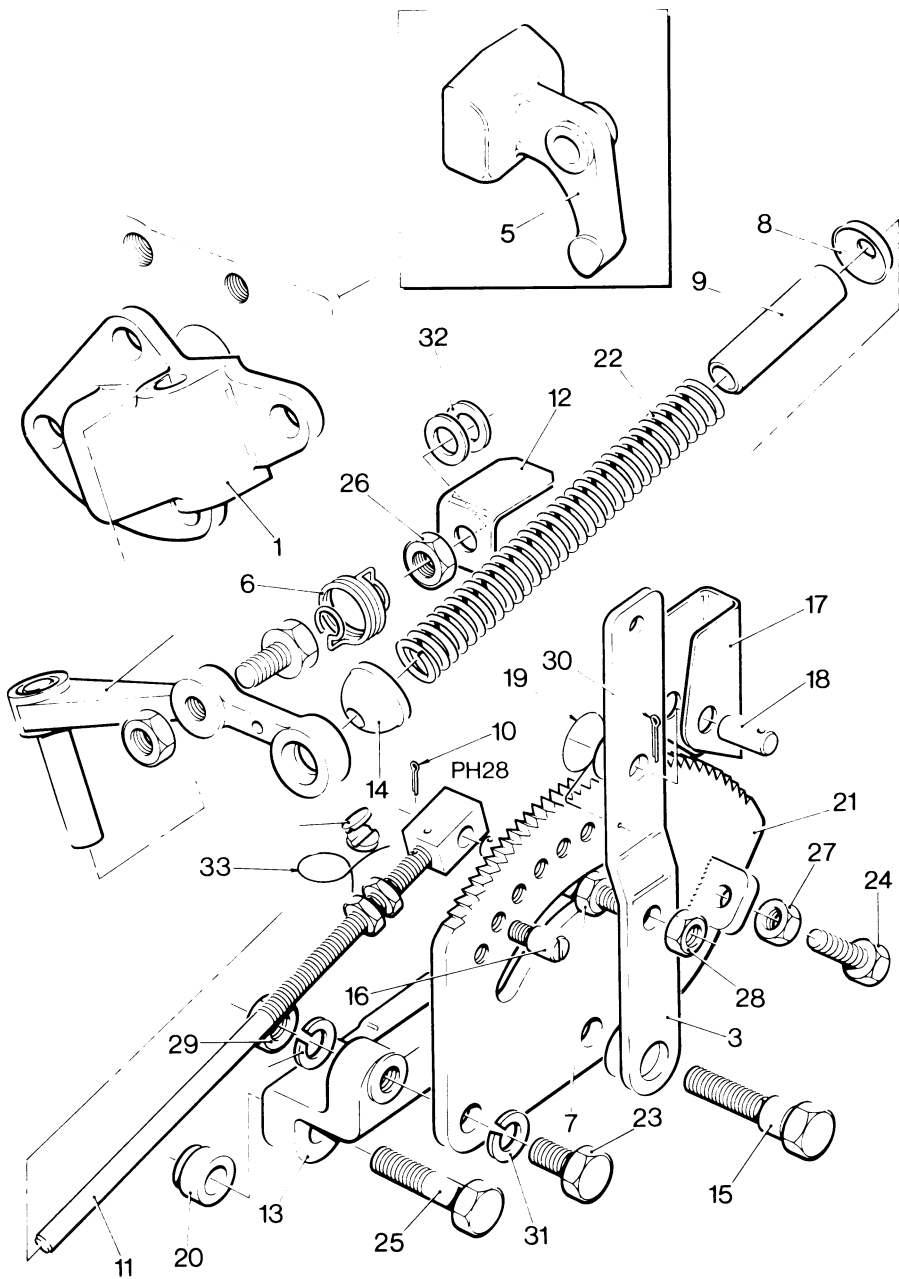
| Illus No. | Description | Part No. | PH | |
|-------------------------------|-----------------------------------|----------|----|---|
| | | | 1 | 2 |
| VARIABLE SPEED CONTROL | | | | |
| | VARIABLE SPEED CONTROL KIT | Code KX | 1 | 1 |
| 1 | BRACKET ASSEMBLY - Includes | 198000 | 1 | 1 |
| 2 | LEVER ASSEMBLY. | | 1 | 1 |
| 3 | LEVER | 253193 | 1 | 1 |
| 4 | SEAL | 250230 | 1 | 1 |
| 5 | GOVERNOR WEIGHT | 254671 | 2 | 2 |
| 6 | SPRING | 256311 | 1 | 1 |
| 7 | PIN - Link | 258846 | 1 | 1 |
| 8 | CUP - Spring..... | 258848 | 1 | 1 |
| 9 | GUIDE - Spring | 258849 | 1 | 1 |
| 10 | SPLIT PIN | 258854 | 1 | 1 |
| 11 | SPINDLE ASSEMBLY | 258857 | 1 | 1 |
| 12 | STOP..... | 259270 | 1 | 1 |
| 13 | BRACKET | 259574 | 1 | 1 |
| 14 | SPHERICAL WASHER | 263022 | 1 | 1 |
| 15 | BOLT - Spigot..... | 263106 | 1 | 1 |
| 16 | PIN - Stop..... | 264774 | 1 | 1 |
| 17 | PAWL..... | 271670 | 1 | 1 |
| 18 | PIN - Pawl | 271671 | 1 | 1 |
| 19 | RETURN SPRING | 271679 | 2 | 2 |
| 20 | DISTANCE PIECE | 317954 | 1 | 1 |



VARIABLE SPEED CONTROL © 1987

PH1 & 2 CODE KX

| Illus No. | Description | Part No. | PH | |
|-------------------------------|-----------------------|----------|----|---|
| | | | 1 | 2 |
| VARIABLE SPEED CONTROL | | | | |
| 21 | PLATE - Ratchet | 332697 | 1 | 1 |
| 22 | SPEEDER SPRING | 355353 | 1 | 1 |
| 23 | SETSCREW | 722024 | 1 | 1 |
| 24 | SCREW | 722605 | 1 | 1 |
| 25 | BOLT | 725030 | 2 | 2 |
| 26 | NUT | 726017 | 1 | 1 |
| 27 | NUT | 726101 | 1 | 1 |
| 28 | LOCKNUT | 726116 | 1 | 1 |
| 29 | NUT | 726117 | 1 | 1 |
| 30 | SPLIT PIN | 773503 | 1 | 1 |
| 31 | SPRING WASHER | 786029 | 2 | 2 |
| 32 | COPPER WASHER | 843103 | 2 | 2 |
| 33 | WIRE | AsReqd | | |

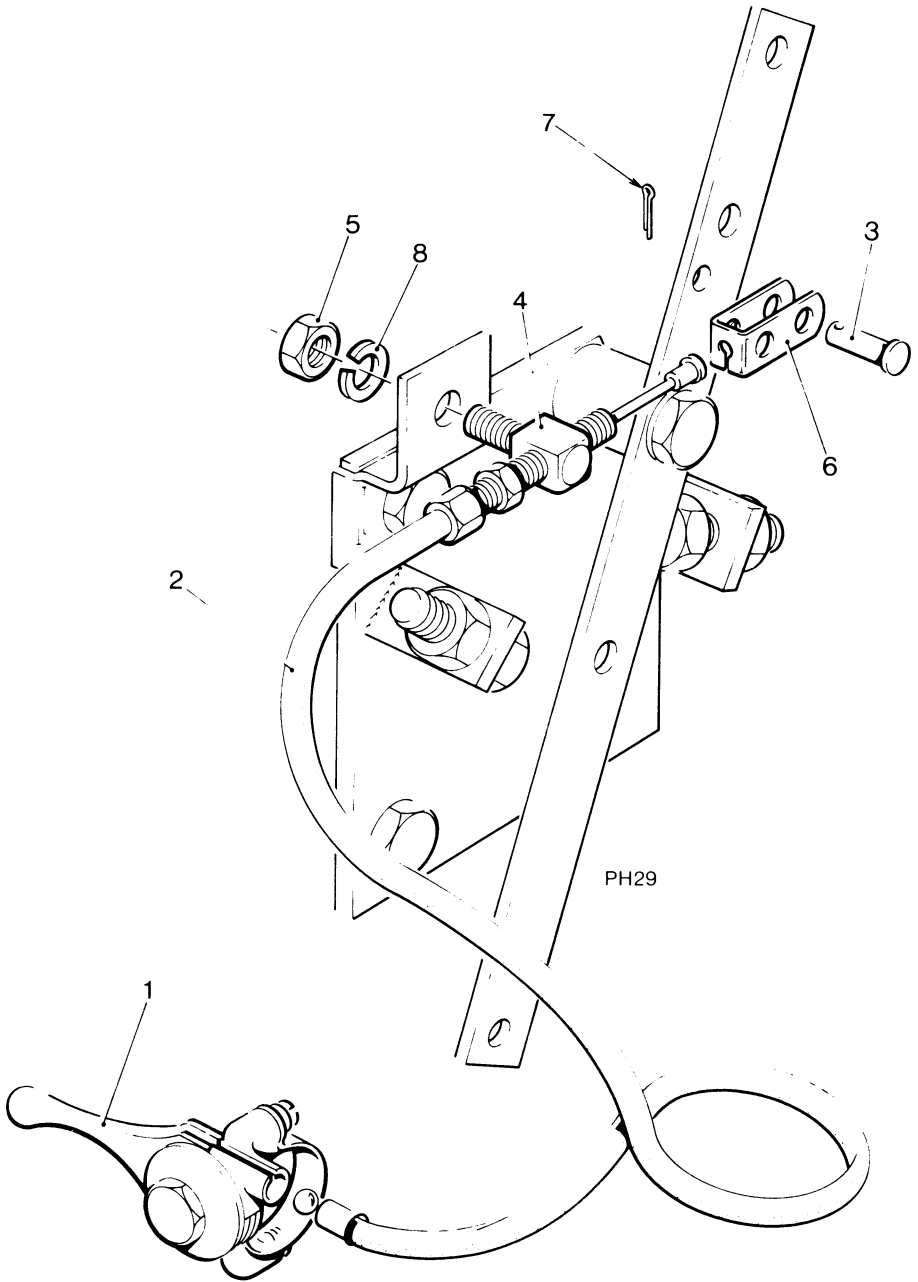


VARIABLE SPEED CONTROL © 1987

PH1 & 2 CODE KY

| Illus No. | Description | Part No. | PH | |
|-----------------------------------|----------------------------|----------|----|---|
| | | | 1 | 2 |
| CABLE & LEVER ASSEMBLY | | | | |
| | CABLE & LEVER KIT | Code KY | 1 | 1 |
| 1 | LEVER | 203836 | 1 | 1 |
| 2 | CABLE ASSEMBLY - 5ft | 269337 | 1 | 1 |
| 3 | SHACKLE PIN | 269342 | 1 | 1 |
| 4 | EYE BOLT | 269343 | 1 | 1 |
| 5 | LOCKNUT | 269344 | 1 | 1 |
| 6 | SHACKLE | 355363 | 1 | 1 |
| 7 | SPLIT PIN | 773001 | 1 | 1 |
| 8 | SPRING WASHER | 786028 | 1 | 1 |

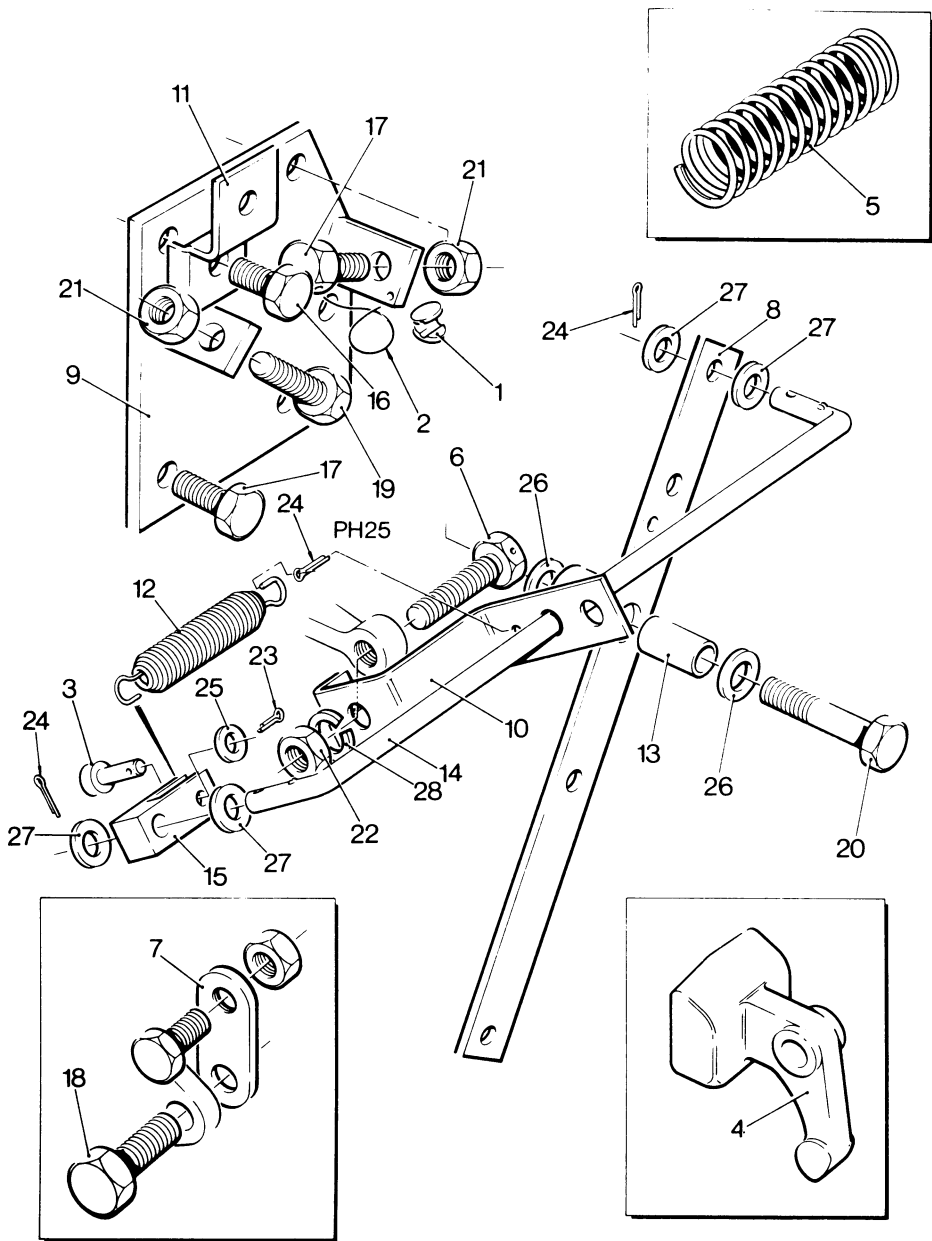
For Bracket Details See Code KZ
 Items 8, 11, 13, 16, 17, 19, 20, 21, 26.



CABLE & LEVER ASSEMBLY © 1987

PH1 & 2 CODE KZ

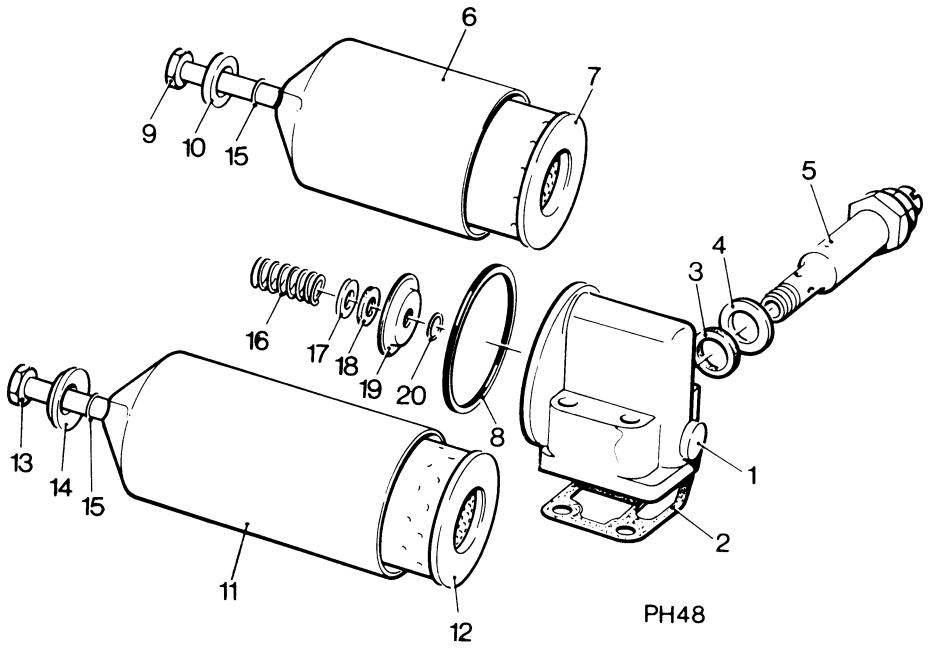
| Illus No. | Description | Part No. | PH | |
|--|----------------------------------|----------|----------|---|
| | | | 1 | 2 |
| VARIABLE SPEED CONTROL - Rod Operated | | | | |
| | VARIABLE SPEED CONTROL KIT | Code KZ | 1 | 1 |
| 1 | SEAL | 250230 | 1 | 1 |
| 2 | WIRE | | As Req'd | |
| 3 | PIN | 250882 | 1 | 1 |
| 4 | GOVERNOR WEIGHT | 254671 | 2 | 2 |
| 5 | SPEEDER SPRING | 256921 | 1 | 1 |
| 6 | SETSCREW - Lever Adjusting | 259884 | 1 | 1 |
| 7 | STOP - Rack | 344634 | 1 | 1 |
| 8 | LEVER ASSEMBLY | 344940 | 1 | 1 |
| 9 | BRACKET | 359186 | 1 | 1 |
| 10 | BRACKET | 344941 | 1 | 1 |
| 11 | BRACKET | 344953 | 1 | 1 |
| 12 | SPRING | 355562 | 1 | 1 |
| 13 | SPACER | 360504 | 1 | 1 |
| 14 | ROD - VSC | 360680 | 1 | 1 |
| 15 | BLOCK - Spring Pawl | 360681 | 1 | 1 |
| 16 | SETSCREW | 722024 | 2 | 2 |
| 17 | SETSCREW | 722025 | 2 | 2 |
| 18 | SETSCREW | 722050 | 1 | 1 |
| 19 | BOLT | 722629 | 1 | 1 |
| 20 | BOLT | 725177 | 1 | 2 |
| 21 | NUT | 726002 | 2 | 2 |
| 22 | NUT | 726017 | 1 | 1 |
| 23 | SPLIT PIN | 773001 | 1 | 1 |
| 24 | SPLIT PIN | 773624 | 3 | 3 |
| 25 | WASHER | 785005 | 1 | 1 |
| 26 | WASHER | 785012 | 2 | 2 |
| 27 | WASHER | 785021 | 4 | 4 |
| 28 | SPRING WASHER | 786003 | 1 | 1 |



VARIABLE SPEED CONTROL © 1987

PH1 & 2 CODE LA

| Illus No. | Description | Part No. | PH | |
|-------------------------------|----------------------------------|----------|----|---|
| | | | 1 | 2 |
| LUBRICATING OIL FILTER | | | | |
| | LURICATING OIL FILTER KIT | Code LA | 1 | 1 |
| | LUBRICATING OIL FILTER | | | |
| - | -1 cyl Comprises | 272368 | 1 | - |
| - | -2 cyl Comprises | 272367 | - | 1 |
| 1 | FILTER HEAD | 92545 | 1 | 1 |
| 2 | JOINT | 360272 | 1 | 1 |
| 3 | SEAL - Relief Valve | 340893 | 1 | 1 |
| 4 | WASHER - Relief Valve | 262180 | 1 | 1 |
| 5 | RELIEF VALVE | 362735 | 1 | 1 |
| 6 | BOWL - 1 cyl | | 1 | - |
| 7 | ELEMENT -1 Cyl - Includes | 258089 | 1 | - |
| 8 | SEAL | 259006 | 1 | - |
| 9 | BOLT | 393274 | 1 | - |
| 10 | COLLAR | 93569 | 1 | - |
| 11 | BOWL - 2 cyl | | - | 1 |
| 12 | ELEMENT - 2 Cyl - Includes | 250657 | - | 1 |
| 8 | SEAL | 259006 | - | 1 |
| 13 | BOLT | 393275 | - | 1 |
| 14 | COLLAR | 393031 | - | 1 |
| 15 | SEAL | 259008 | 1 | 1 |
| 16 | SPRING | 93590 | 1 | 1 |
| 17 | WASHER | 93722 | 1 | 1 |
| 18 | SEAL | 259009 | 1 | 1 |
| 19 | ELEMENT GUIDE | 93593 | 1 | 1 |
| 20 | CIRCLIP | 93589 | 1 | 1 |
| | INSTRUCTION TRANSFER | 259286 | 1 | 1 |



PH48

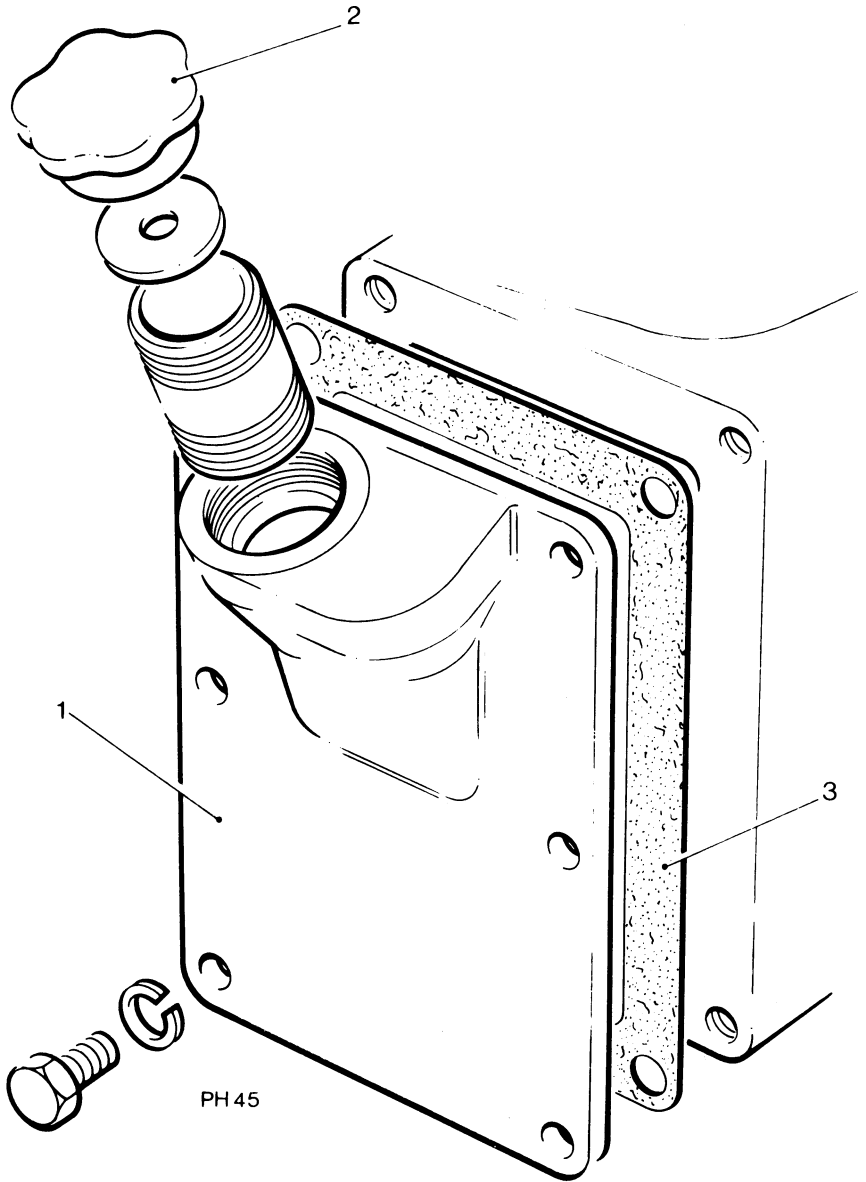
LUBRICATING OIL FILTER © 1987

PH2 CODE LB

| Illus No. | Description | Part No. | PH 1 2 |
|--------------|-------------|----------|-----------|
|--------------|-------------|----------|-----------|

FITTINGS REQUIRED WITH GEAR END DIPSTICK

| | | | |
|---|------------------------|---------|-----|
| | FITTINGS KIT | Code LB | - 1 |
| 1 | INSPECTION COVER | 193780 | - 1 |
| 2 | CAP - Oil Filler | 257607 | - 1 |
| 3 | JOINT | 360267 | - 1 |



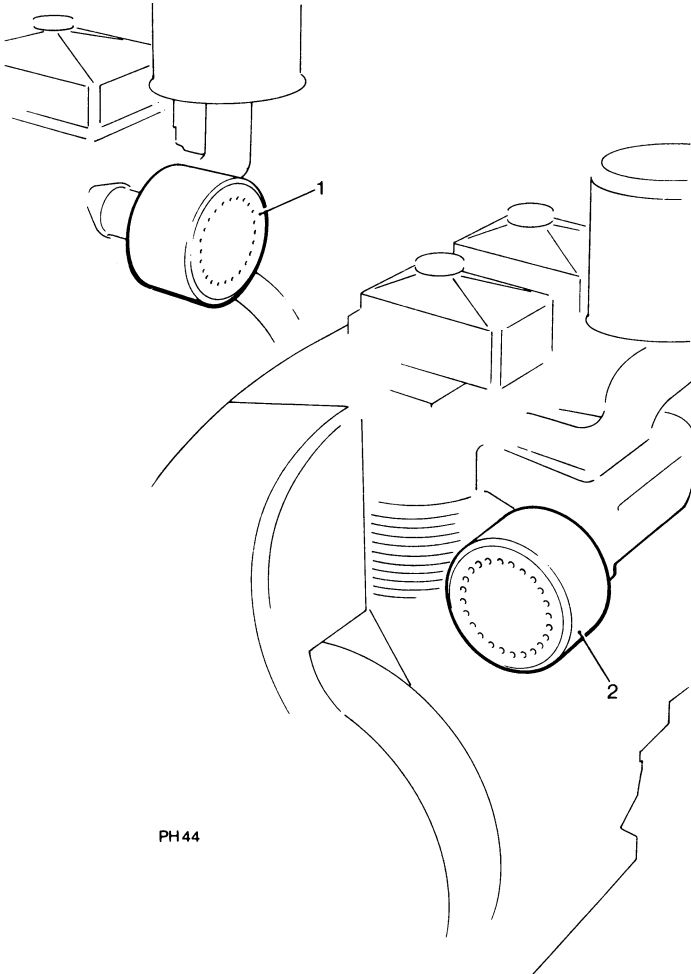
GEAR END DIPSTICK FITTINGS © 1987

PH1 & 2 CODE NA

| Illus No. | Description | Part No. | PH 1 2 |
|-----------|-------------|----------|-----------|
|-----------|-------------|----------|-----------|

PEPPER POT SILENCER

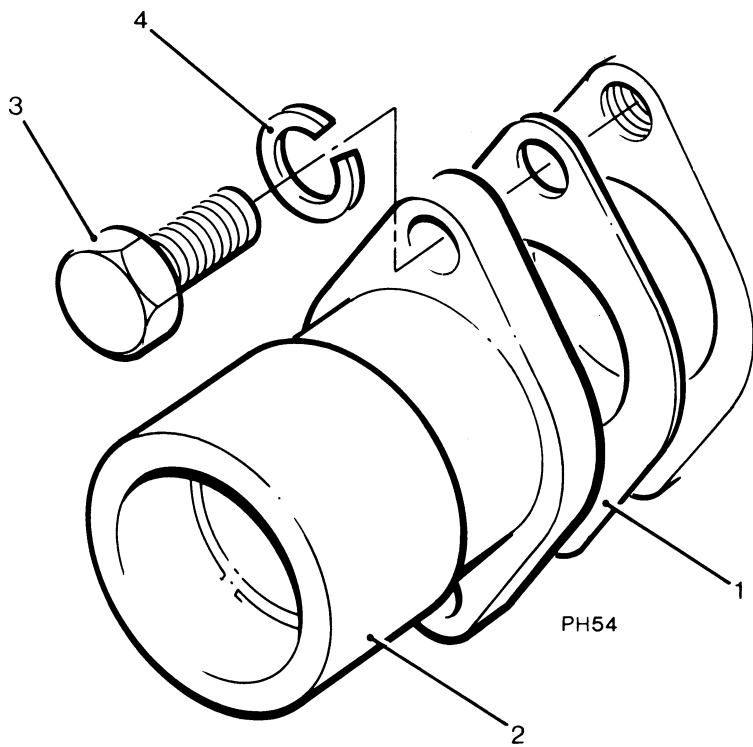
| | | | |
|---|-----------------------|---------|-----|
| | SILENCER KIT | Code NA | 1 1 |
| 1 | SILENCER - 1 cyl..... | 294158 | 1 - |
| 2 | SILENCER - 2 cyl..... | 294159 | - 1 |



PH44

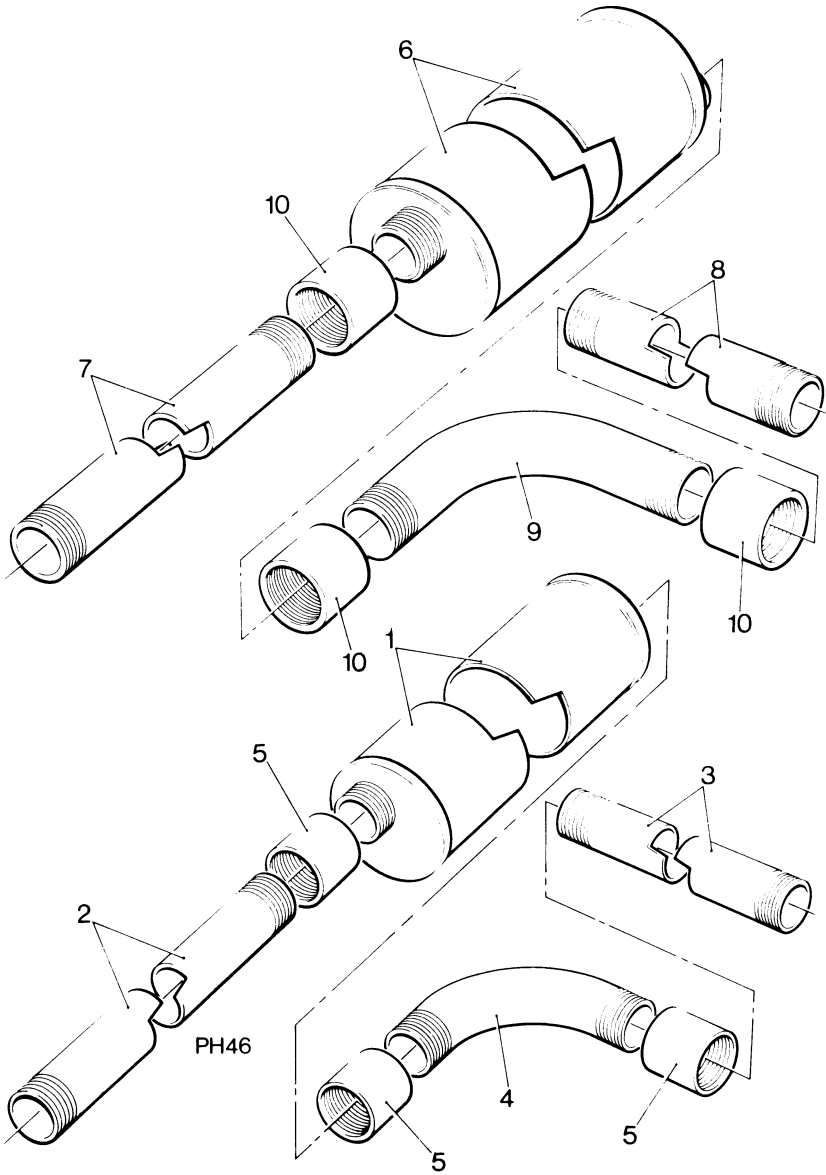
PH1 CODE ND

| Illus No. | Description | Part No. | PH | |
|-------------------------|---------------------|----------|----|---|
| | | | 1 | 2 |
| EXHAUST MANIFOLD | | | | |
| 1 | GASKET | 256926 | 1 | - |
| 2 | MANIFOLD | 250438 | 1 | - |
| 3 | BOLT | 722025 | 2 | - |
| 4 | SPRING WASHER | 786029 | 2 | - |



PH1 & 2 CODE NC

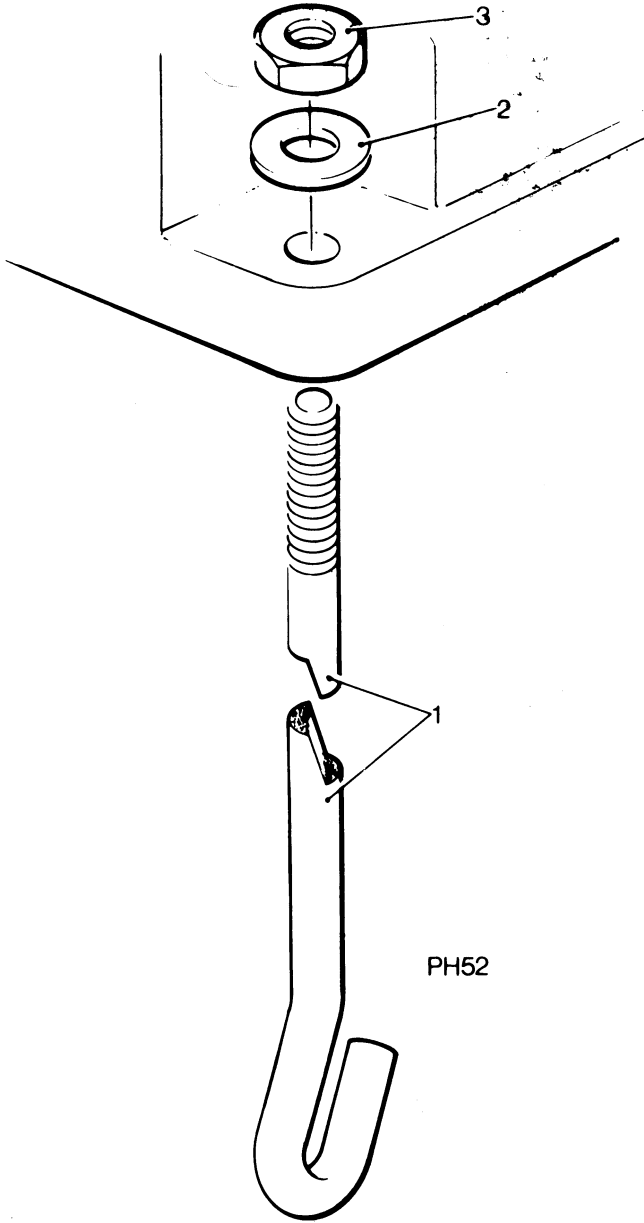
| Illus No. | Description | Part No. | PH | |
|------------------------|---------------------------|----------|----|---|
| | | | 1 | 2 |
| REMOTE SILENCER | | | | |
| | REMOTE SILENCER KIT | Code NC | 1 | 1 |
| 1 | SILENCER - 1 cyl..... | 297123 | 1 | - |
| 2 | PIPE | 206276 | 1 | - |
| 3 | PIPE | 263327 | 1 | - |
| 4 | 90° BEND | 820006 | 1 | - |
| 5 | SOCKET | 825006 | 3 | - |
| 6 | SILENCER - 2 cyl..... | 67297 | - | 1 |
| 7 | PIPE | 203183 | - | 1 |
| 8 | PIPE | 263326 | - | 1 |
| 9 | 90° BEND | 820008 | - | 1 |
| 10 | SOCKET | 825008 | - | 3 |



REMOTE EXHAUST SILENCER © 1987

PH1 & 2 CODE CA

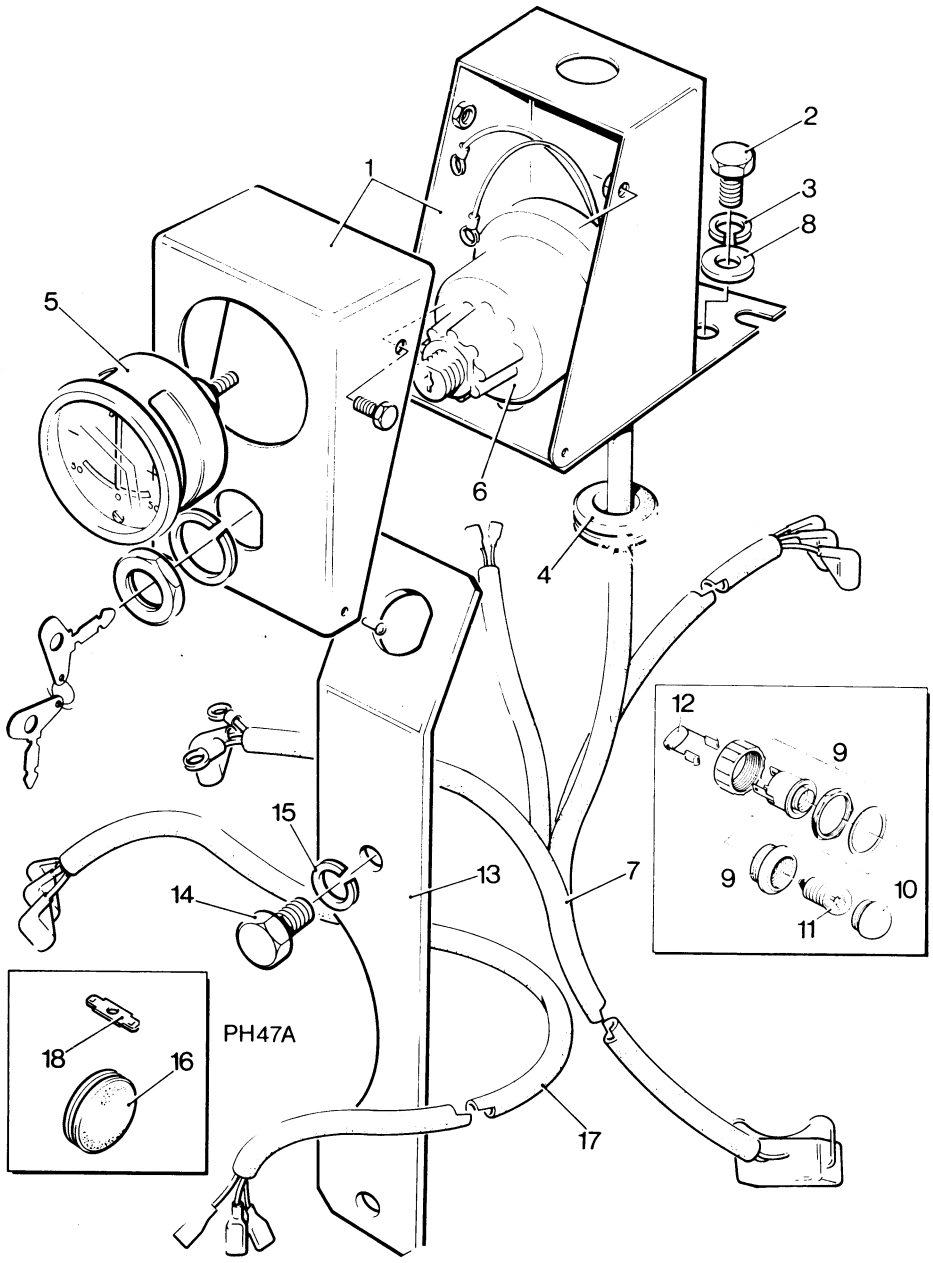
| Illus No. | Description | Part No. | PH | |
|-------------------------|---------------------------|-----------|----|---|
| | | | 1 | 2 |
| FOUNDATION BOLTS | | | | |
| | FOUNDATION BOLT KIT | Code QA | 1 | 1 |
| 1 | BOLT | 027-00584 | 4 | 4 |
| 2 | NUT | 736005 | 4 | 4 |
| 3 | WASHER..... | 785015 | 4 | 4 |






PH52

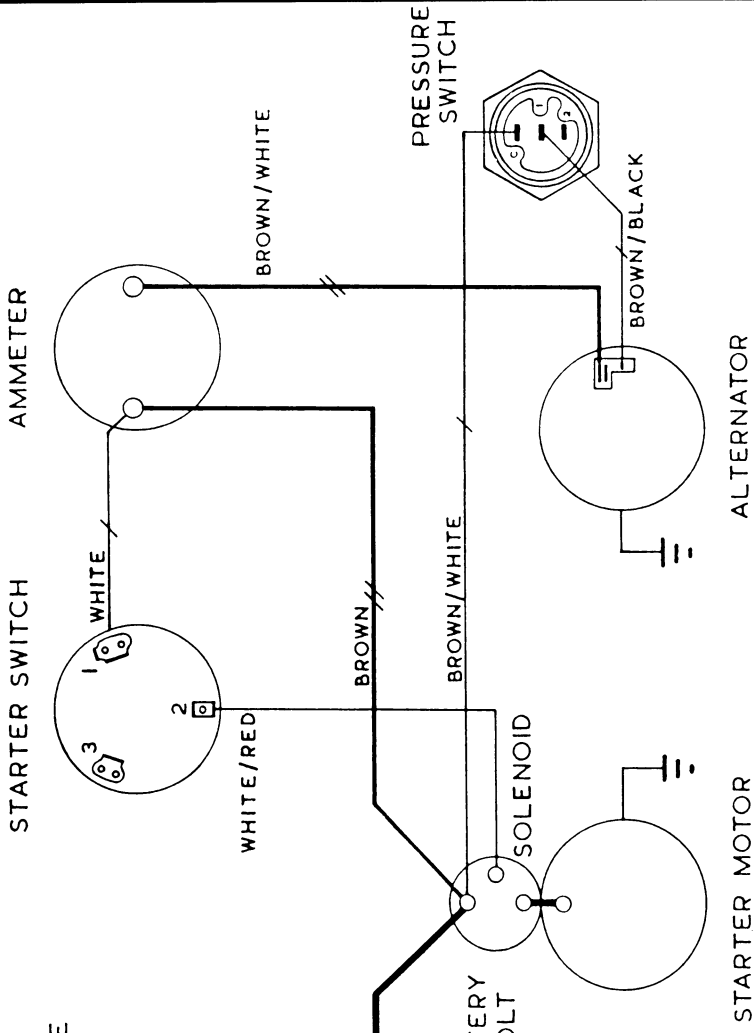
PH1 & 2 CODE WA, WB, WD

| Illus No. | Description | Part No. | PH | |
|---|--------------------------------|---------------|----|---|
| | | | 1 | 2 |
| ELECTRIC START PANEL & HARNESS | | | | |
| | PANEL & HARNESS KIT | Code WA | 1 | 1 |
| 1 | INSTRUMENT BOX | 364930 | 1 | 1 |
| 2 | SETSCREW | 722001 | 3 | 3 |
| 3 | SPRING WASHER | 786028 | 3 | 3 |
| 4 | GROMMET | 787054 | 1 | 1 |
| 5 | AMMETER | 305280 | 1 | 1 |
| 6 | KEYSWITCH | 366-06379 | 1 | 1 |
| 7 | CABLE HARNESS | 275251 | 1 | 1 |
| 8 | WASHER | 785612 | 3 | 3 |
| 9 | LAMPHOLDER | 366-07228 | 1 | 1 |
| 10 | LENS | 064-20787/001 | 1 | 1 |
| 11 | LAMP | 064-09681/001 | 1 | 1 |
| 12 | EXCITATION RESISTANCE | 366-07236 | 1 | 1 |
| EXTENSION HARNESS | | | | |
| | HARNESS KIT | Code WB | 1 | 1 |
| 13 | BRACKET - Starter Switch | 364955 | 1 | 1 |
| 14 | SETSCREW | 722024 | 2 | 2 |
| 15 | SPRING WASHER | 786029 | 2 | 2 |
| 16 | GROMMET | 787064 | 1 | 1 |
| 17 | CABLE HARNESS | 364932 | 1 | 1 |
| 18 | DOUBLE CONNECTOR | 340382 | 3 | 3 |
| KEY SWITCH - loose | | | | |
| | KEY SWITCH KIT | Code WD | 1 | 1 |
| 6 | KEY SWITCH | 366-06379 | 1 | 1 |



ELECTRIC START PANEL & HARNESS © 1987

-  1.0mm² CABLE
-  4.0mm² CABLE
-  60.0mm² CABLE



NEGATIVE EARTH