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English



Français



Español



ASSOCIATED PUBLICATIONS

WORKSHOP MANUAL
OPERATORS HANDBOOK

MANUAL No. 027-08208
BOOK No. 027-08152



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

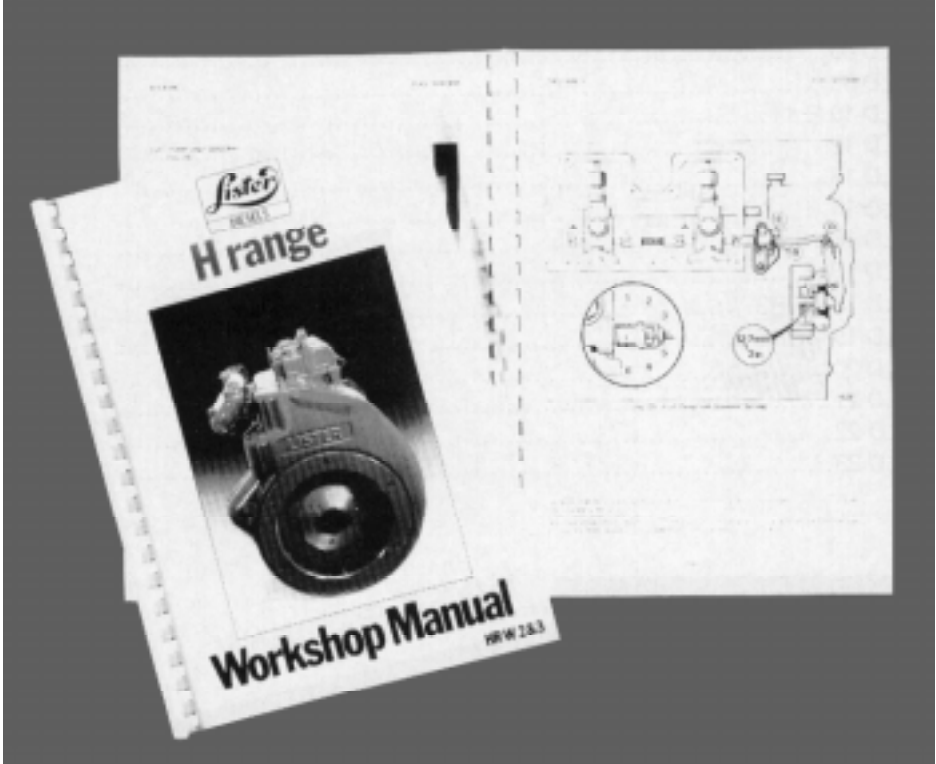
IMPORTANT

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 on Page 73 and when ordering always quote '**ENGINE No., PART No.**' and '**DESCRIPTION OF PART**'.
3. The Engine No. can be found on the plate on the Fuel Pump Housing Door. The normal rotation of the engine is anticlockwise (ACW) when looking at the flywheel end.
4. Main bearings and big end bearings can be supplied undersize, and pistons and piston rings can be supplied oversize. Piston rings are only supplied in complete sets and pistons are supplied complete with piston rings and gudgeon pin.
5. Undersize and oversize measurements are 0.010", 0.020", 0.030" and 0.040" and examples of ordering undersize and oversize parts are given below: -
 - (a) Crankshaft Bearing.....352-50620/020
 - (b) Piston Ring Set.....572-50622/020
6. All parts included in an assembly are indented. When an individual item cannot be purchased by itself no part number is quoted.
7. The differences between Build 01 and other Builds are listed under 'Variations from Build 01' on Page 6.

ASSOCIATED PUBLICATION

The Workshop Manual



Available from
your Lister-Petter distributor

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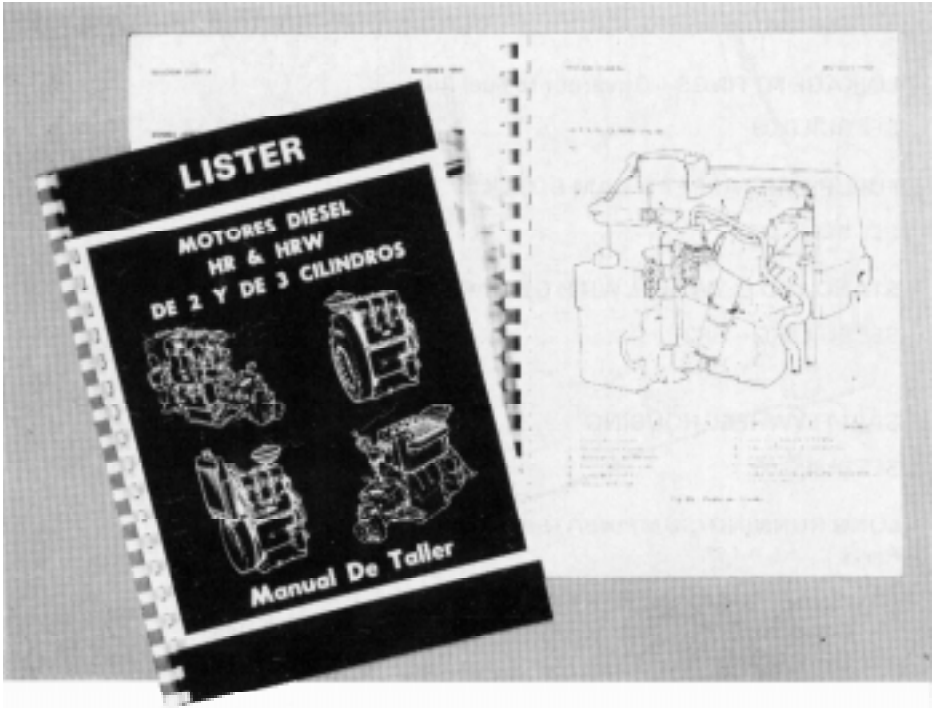
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El Manual de Taller



Obtenible de
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PUBLICACIONES AFINES

**MANUAL DE TALLER
MANUAL DE OPERACION**

**MANUAL No. 027-08210
MANUAL No. 027-08154**



IMPORTANTE

Al comprar repuestos o al mandar hacer reparaciones, en defensa de sus propios intereses especifique siempre:

REPUESTOS LISTER-PETTER LEGITIMOS

Los repuestos de procedencia distinta de la Casa Lister-Petter no merecen confianza en cuanto a material, dimensiones y acabado se refiere. Por lo tanto LISTER-PETTER LTD. no se hará cargo de los daños y perjuicios que cause el empleo de tales repuestos y su garantía quedará anulada.

Repetimos: defienda sus propios intereses y pida siempre

REPUESTOS LISTER-PETTER LEGITIMOS

**POR FAVOR CITE SIEMPRE EL
NUMERO DE REGISTRO DEL MOTOR**

IMPORTANTE

REPUESTOS - COMO PEDIRLOS

1. Esta es una lista ilustrada de repuestos para los motores, con sus accesorios de mayor uso y sus equipos opcionales. Contiene todos los repuestos necesarios para los motores actualmente en producción y, al ser compilada, carece por completo de piezas en camino al descarte o ya en desuso. No será sometida a modificación alguna.
2. En la página 73 hallará Vd. una Nota de Pedido modelo. Al pedir repuestos, cite siempre **EL NUMERO DE REGISTRO DEL MOTOR, EL NUMERO DEL REPUESTO Y SU DESCRIPCION.**
3. El número de registro del motor está en la placa fijada a la puerta de la caja de las bombas de combustible. El giro normal del motor es sinistrorso, mirando de frente al extremo en que está el volante.
4. Los cojinetes principales y de cabeza de biela pueden suministrarse también de subtamaño; los pistones y sus anillos son obtenibles también de sobretamaño. Los anillos de pistón se suministran únicamente por juegos completos; los pistones completos con anillos y muñequilla.
5. Los subtamaños y sobretamaños son 0,010", 0,020", 0,030" y 0,040" inferiores o superiores, respectivamente, a los tamaños normales. Ponemos a continuación ejemplos del sufijo numérico necesario para pedirlos: -
(a) Cojinete Principal.....352-50620/020
(b) Juego de Anillos de Pistón.....572-50622/020
6. Todas las piezas que forman parte de un conjunto están impresas sangradas. Pieza que no pueda comprarse individualmente no tiene número de referencia en esta lista.
7. Las diferencias entre el Modelo 01 y los demás Modelos están en la página 14 bajo el encabezamiento "HR2 & 3 Variaciones Del Modelo 01".

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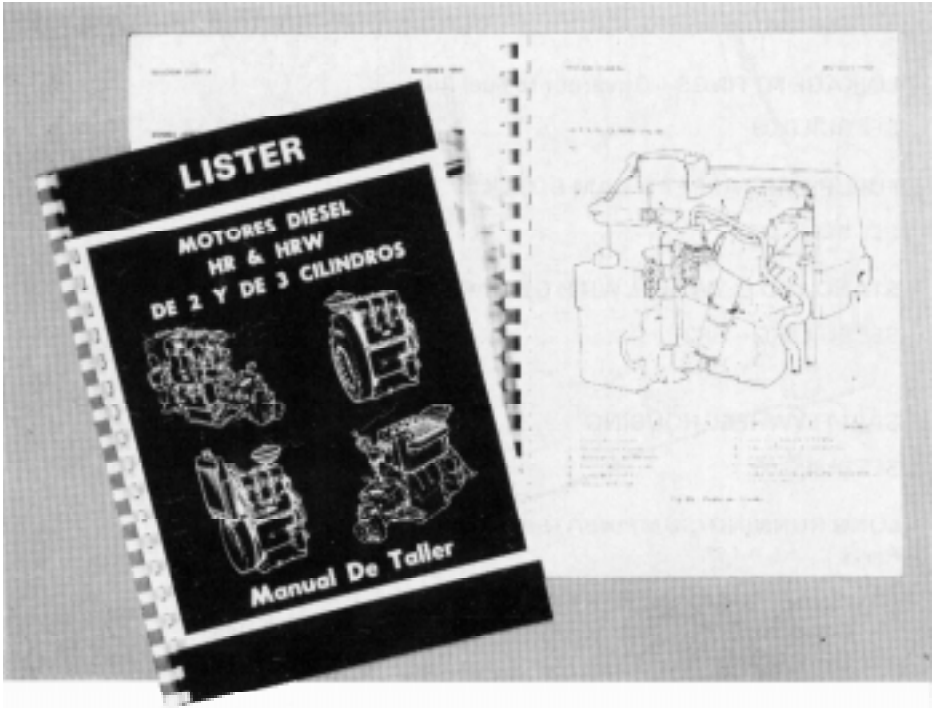
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El Manual de Taller



Obtenible de
su distribuidor Lister-Petter

IMPORTANTE

Al comprar repuestos o al mandar hacer reparaciones, en defensa de sus propios intereses especifique siempre:

REPUESTOS LISTER-PETTER LEGITIMOS

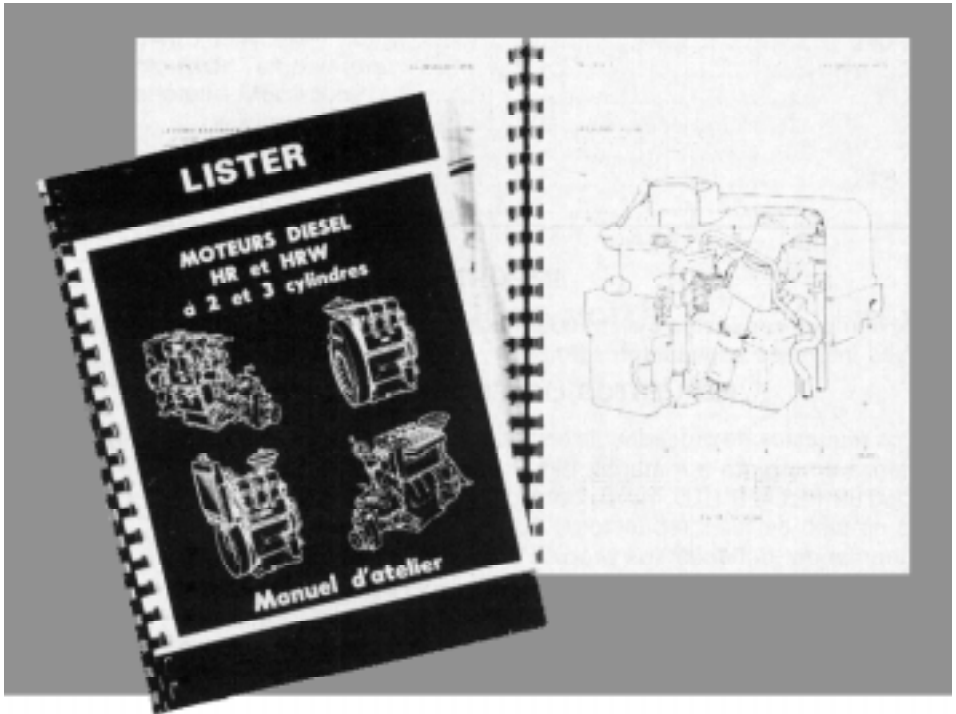
Los repuestos de procedencia distinta de la Casa Lister-Petter no merecen confianza en cuanto a material, dimensiones y acabado se refiere. Por lo tanto LISTER-PETTER LTD. no se hará cargo de los daños y perjuicios que cause el empleo de tales repuestos y su garantía quedará anulada.

Repetimos: defienda sus propios intereses y pida siempre

REPUESTOS LISTER-PETTER LEGITIMOS

PUBLICATIONS ASSOCIEES

Manuel d'atelier



**Disponibles chez
votre distributeur Lister-Petter**



IMPORTANT

En achetant des pièces ou en donnant des instructions de réparation, les clients doivent toujours spécifier, dans leur propre intérêt:

PIECES LISTER-PETTER D'ORIGINE

Il n'est pas possible de se fier à des pièces qui n'ont pas été fournies par l'organisation Lister-Petter, en ce qui concerne le Matériau, les dimensions ou la finition.

LISTER-PETTER LTD. ne peut donc pas accepter la responsabilité en cas d'avaries survenant du fait de l'utilisation de telles pièces, et la garantie sera invalidée.

Par conséquent, dans votre propre intérêt spécifiez:

PIECES DETACHEES DE LISTER-PETTER D'ORIGINE

**IF FAUT TOUJOURS RAPPELER LE
NUMERO DU MOTEUR**

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 hors d'usage ou tombée en désuétude. 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 73. En dressant la commande, toujours citer les: **No. DU MOTEUR, No. DE LA PIECE** ainsi que **LA DESIGNATION DE LA PIECE**.
3. Le numéro de série du moteur est inscrit sur la plaque signalétique fixée sur la porte d'accès au boîtier de la (des) pompe(s) à injection de carburant. Normalement, le moteur tourne dans le sens contraire des aiguilles d'une montre, vu du côté volant.
4. Les paliers principaux ainsi que les paliers des têtes de bielles peuvent être fournis sous-dimensionnés, tandis que les pistons et les segments de pistons peuvent être fournis surdimensionnés. Les segments de pistons ne peuvent être fournis qu'en jeux complets. Les pistons sont fournis au complet avec leurs segments et leurs axes de pieds de bielles.
5. Les sous-dimensions et surdimensionnements sont de 0,010" (0,254mm.), 0,020" (0,508mm.), 0,030" (0,762mm.), 0,040" (1,016mm.). Des exemples de commandes de pièces sous-dimensionnées et surdimensionnées sont cités ci-dessous.
(a) Palier Vilebrequin.....352-50620/020
(b) Jeu de Segments de Piston..... 572-50622/020
6. Toutes les pièces faisant partie d'un ensemble sont indiquées par les lignes en retrait. Lorsqu'un élément particulier ne peut être acheté par lui-même, aucune référence n'est citée.
7. Les différences entre Les Types De Construction 01 et les autres Types De Construction sont indiquées en page 24, sous le titre 'HR2 et 3 Variantes Du Type De Construction 01'.

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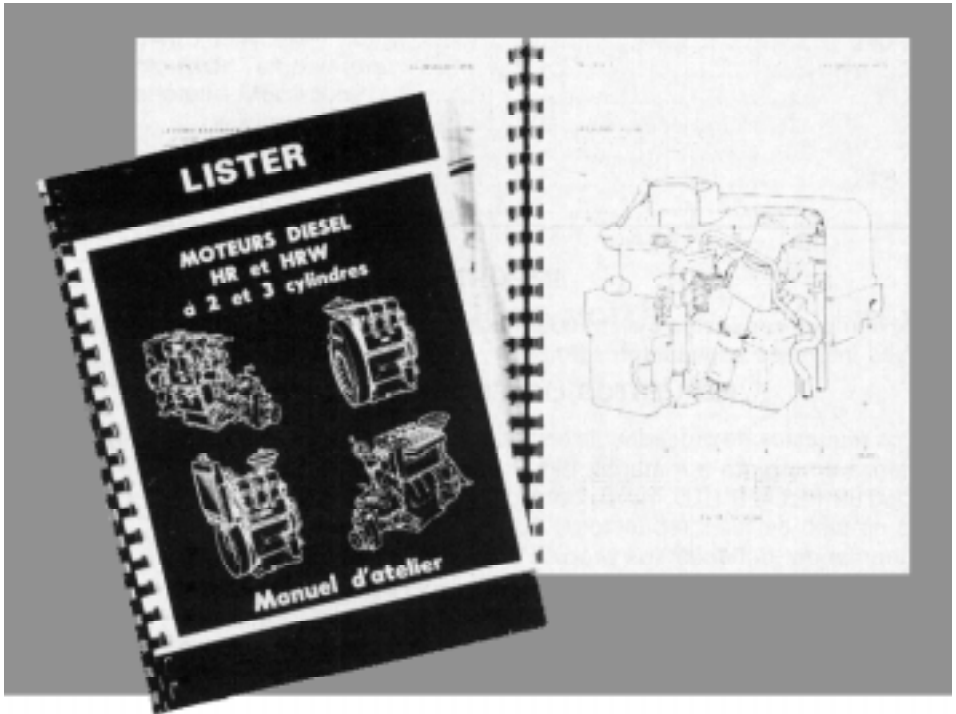
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- Moteur de Démarrage	146
- Solénaide - 12V	148
- Alternateur	150
- Accessoires Fournis Séparément	270
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- Batterie	268
- Câbles de Batterie	268
SYSTEME DE PROTECTION MOTEUR	
- Avec Canalisation d'Air	204
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SYSTEME POUR UTILISATION PROLONGEE	
- Réservoir et Garnitures	226
- Sans Réservoir	224
TROUSSE A OUTILS	250

PUBLICATIONS ASSOCIEES

Manuel d'atelier



**Disponibles chez
votre distributeur Lister-Petter**

IMPORTANT

En achetant des pièces ou en donnant des instructions de réparation, les clients doivent toujours spécifier, dans leur propre intérêt:

PIECES LISTER-PETTER D'ORIGINE

Il n'est pas possible de se fier à des pièces qui n'ont pas été fournies par l'organisation Lister-Petter, en ce qui concerne le Matériau, les dimensions ou la finition.

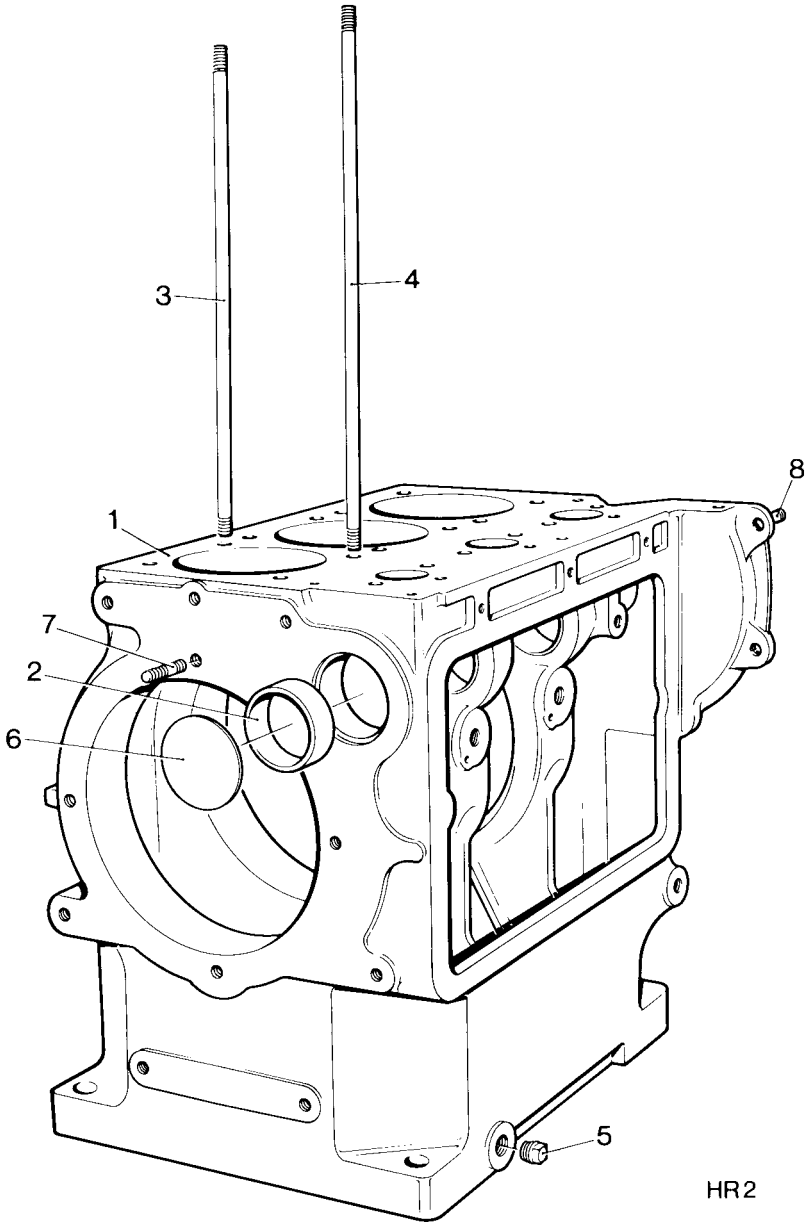
LISTER-PETTER LTD. ne peut donc pas accepter la responsabilité en cas d'avaries survenant du fait de l'utilisation de telles pièces, et la garantie sera invalidée.

Par conséquent, dans votre propre intérêt spécifiez:

PIECES DETACHEES DE LISTER-PETTER D'ORIGINE

HR2 & 3 BUILD 01

Illus No.	Description	Part No.	HR	
			2	3
CRANKCASE				
	CRANKCASE ASSEMBLY - HR2 Comprises	572-50291	1	-
	CRANKCASE ASSEMBLY - HR3 Comprises	572-50301	-	1
-	CRANKCASE - HR2		1	-
1	CRANKCASE - HR3		-	1
-	MAIN BEARING ASSEMBLY (See Page 44)	352-50620	1	1
2	CAMSHAFT BUSH (See Page 44)	202-12030	2	3
3	CYLINDER HEAD STUD - Short	351-10240	4	6
4	CYLINDER HEAD STUD - Long	351-10250	4	6
5	DRAIN PLUG	027-00469	1	1
6	EXPANSION PLUG - Camshaft Bore	027-04208	1	1
-	EXPANSION PLUG - Oil Suction Hole (See Page 64)	027-00757	2	2
7	STUD - Main Bearing Housing - 3/8"UNF x 1 3/8"	270-00111	1	1
8	SOCKET SETSCREW - 5/16"UNF x 3/8" - For blanking end cover holes	270-00051	6	6

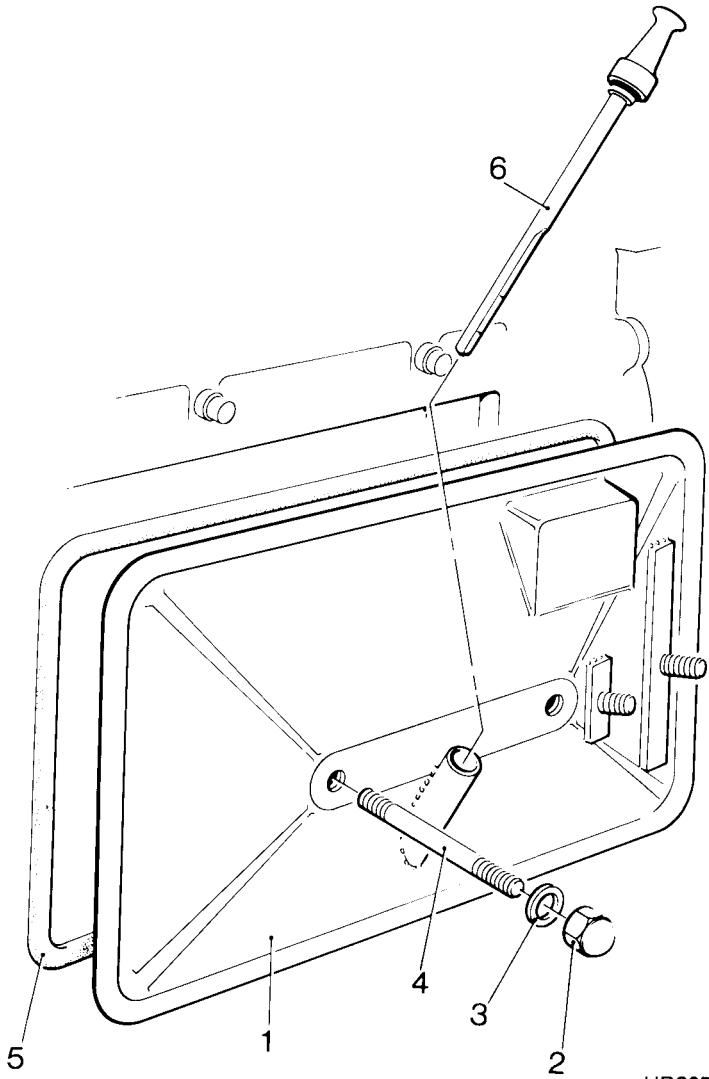


HR2

CRANKCASE

HR2 & 3 BUILD 01

Illus No.	Description	Part No.	HR	
			2	3
CRANKCASE DOOR				
-	CRANKCASE DOOR - HR2	352-13452	1	-
1	CRANKCASE DOOR - HR3	353-13452	-	1
2	NUT - 5/16"UNF Brass Cap	270-00046	1	2
3	COPPER WASHER	616-01608	1	2
4	STUD - Crankcase Door - 5/16"UNF x 4"	270-00086	1	2
-	JOINT - HR2	352-11430	1	-
5	JOINT - HR3	353-11430	-	1
6	DIPSTICK ASSEMBLY Includes	572-10250	1	1
-	'O'RING	201-13120	1	1

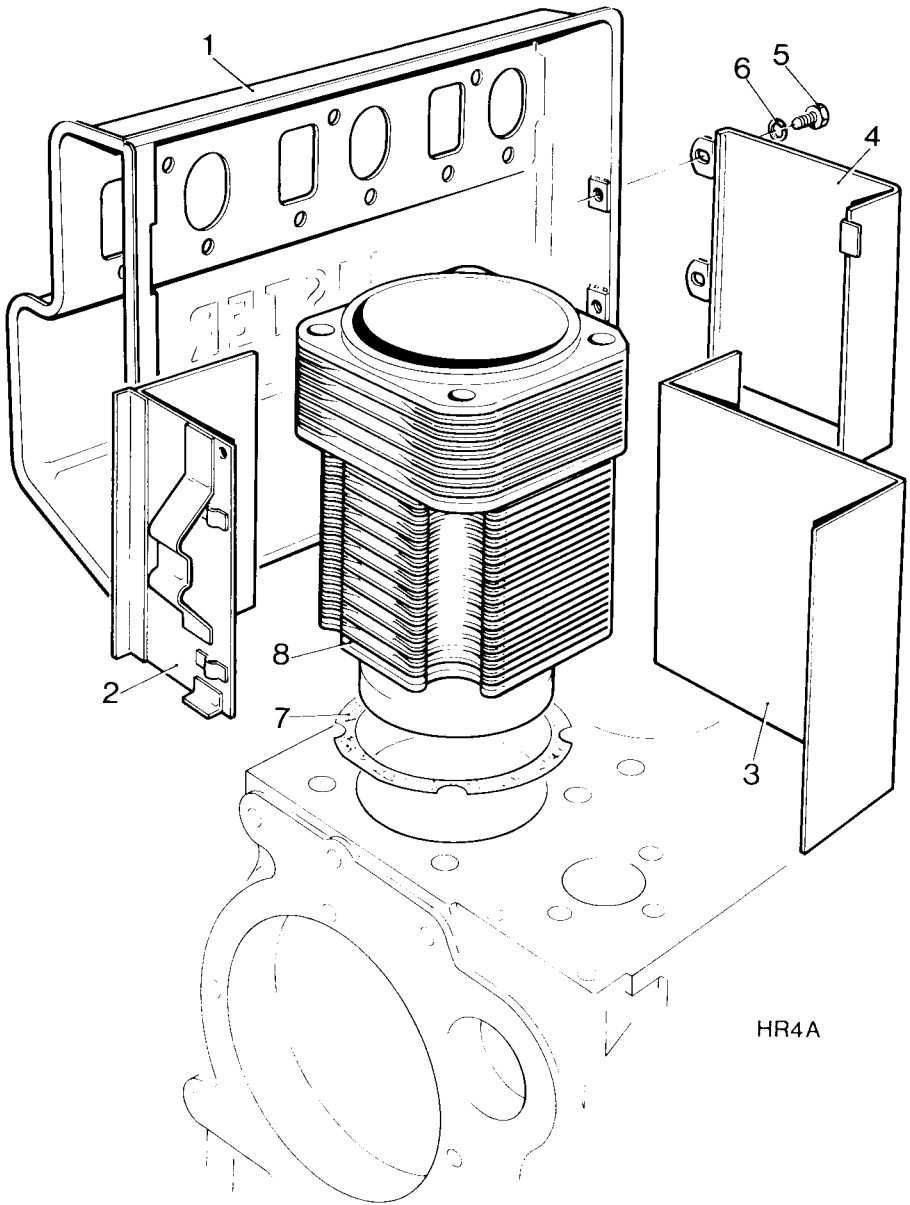


HR287

CRANKCASE DOOR

HR2 & 3 BUILD 01

Illus No.	Description	Part No.	HR	
			2	3
SHIELDS AND COWLINGS				
-	COWLING - HR2	352-32800	1	-
1	COWLING - HR3	353-32800	-	1
2	SIDE SHIELD - Flywheel End	351-50710	1	1
3	CENTRE SHIELD	356-31190	1	2
4	SIDE SHIELD - Governor End	351-32720	1	1
5	SET SCREW - 1/4"UNF x 1/2"	270-00054	2	2
6	SPRING WASHER	027-00451	2	2
CYLINDER BARREL				
7	JOINT - Cylinder Barrel	351-10390	2	3
8	CYLINDER BARREL	353-80971	2	3

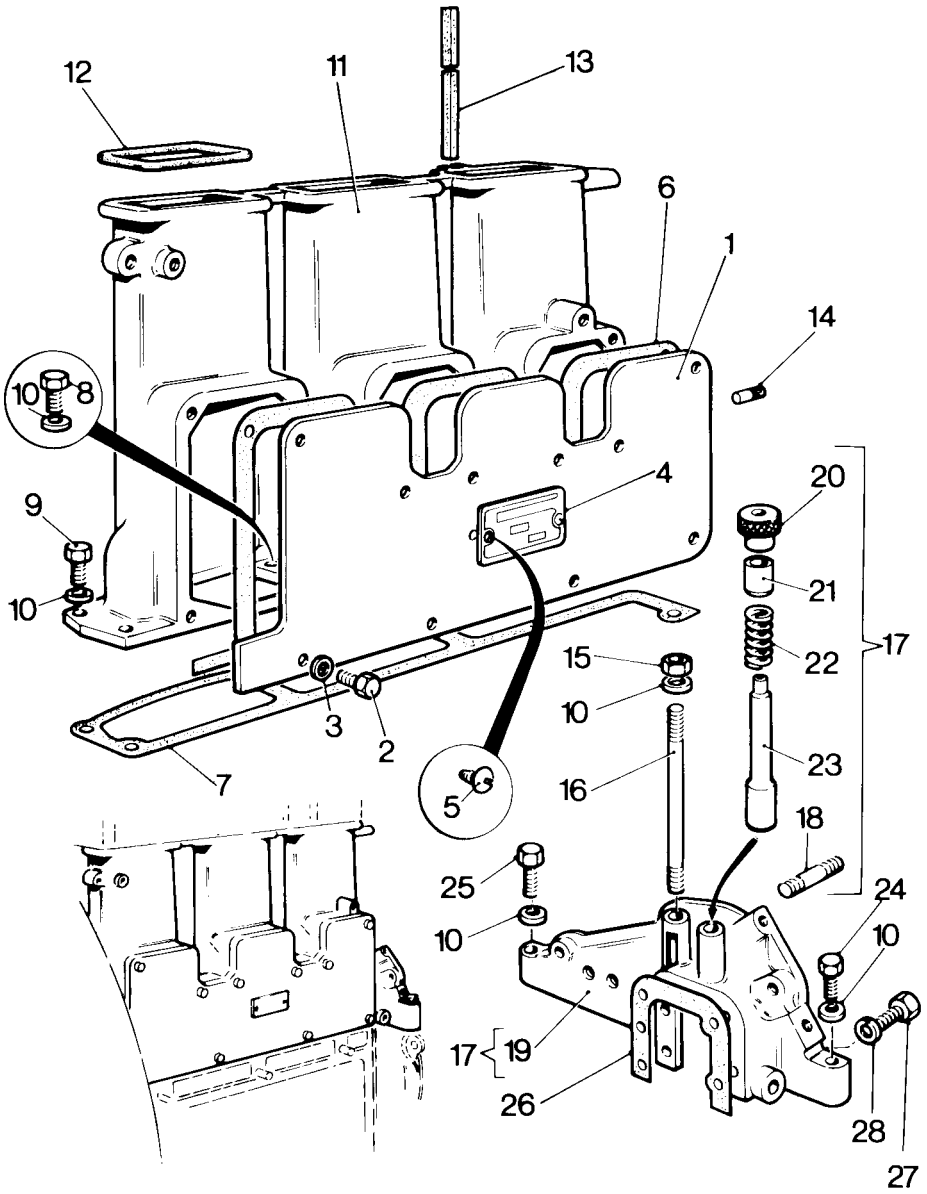


HR4A

SHIELDS, COWLINGS & CYLINDER BARREL

HR2 & 3 BUILD 01

Illus No.	Description	Part No.	HR	
			2	3
FUEL PUMP HOUSING & END PLATE				
-	FUEL PUMP HOUSING DOOR - HR2	352-15450	1	-
1	FUEL PUMP HOUSING DOOR - HR3	353-15450	-	1
2	SETSCREW - Housing Door - 1/4"UNC x 7/8"	270-00556	7	10
3	WASHER	291-26090	7	10
4	ENGINE NUMBER PLATE	027-06354	1	1
5	SCREW - Self Tapping - Engine Number Plate	064-07175/001	2	2
-	JOINT - Fuel Pump Housing Door - HR2	352-15460	1	-
6	JOINT - Fuel Pump Housing Door - HR3	353-15460	-	1
-	JOINT - Fuel Pump Housing To Crankcase - HR2	352-11171	1	-
7	JOINT - Fuel Pump Housing To Crankcase - HR3	353-11170	-	1
8	SETSCREW - Housing - 5/16"UNF x 1 1/8"	270-00025	2	2
9	SETSCREW - Housing - 5/16"UNF x 1"	270-00061	2	2
10	WASHER	616-01608	7	7
-	FUEL PUMP HOUSING - HR2	352-10600	1	-
11	FUEL PUMP HOUSING - HR3	353-10600	-	1
12	RUBBER JOINT - Top Plate	351-10480	2	3
13	FELT STRIP	352-15480	1	1
14	DOWEL - End Plate To Fuel Pump Housing	027-01434	1	1
15	NUT - 5/16"UNF	270-00003	1	1
16	STUD - End Plate - 5/16"UNF x 5 1/2"	270-00088	1	1
17	END PLATE ASSEMBLY Comprises	572-10032	1	1
18	STUD - 5/16"UNF x 1 1/4"	270-00242	2	2
19	END PLATE	351-10890	1	1
20	KNOB	351-11100	1	1
21	BUSH	351-11090	1	1
22	SPRING	351-11081	1	1
23	PLUNGER	351-11071	1	1
24	SETSCREW - End Plate - 5/16"UNF x 2 1/4"	270-00066	1	1
25	SETSCREW - End Plate - 5/16"UNF x 2"	270-00065	1	1
26	JOINT - End Plate to Fuel Pump Housing	351-11180	1	1
27	SETSCREW - 1/4"UNC x 3/4"	270-00293	4	4
28	SPRING WASHER	027-00451	4	4

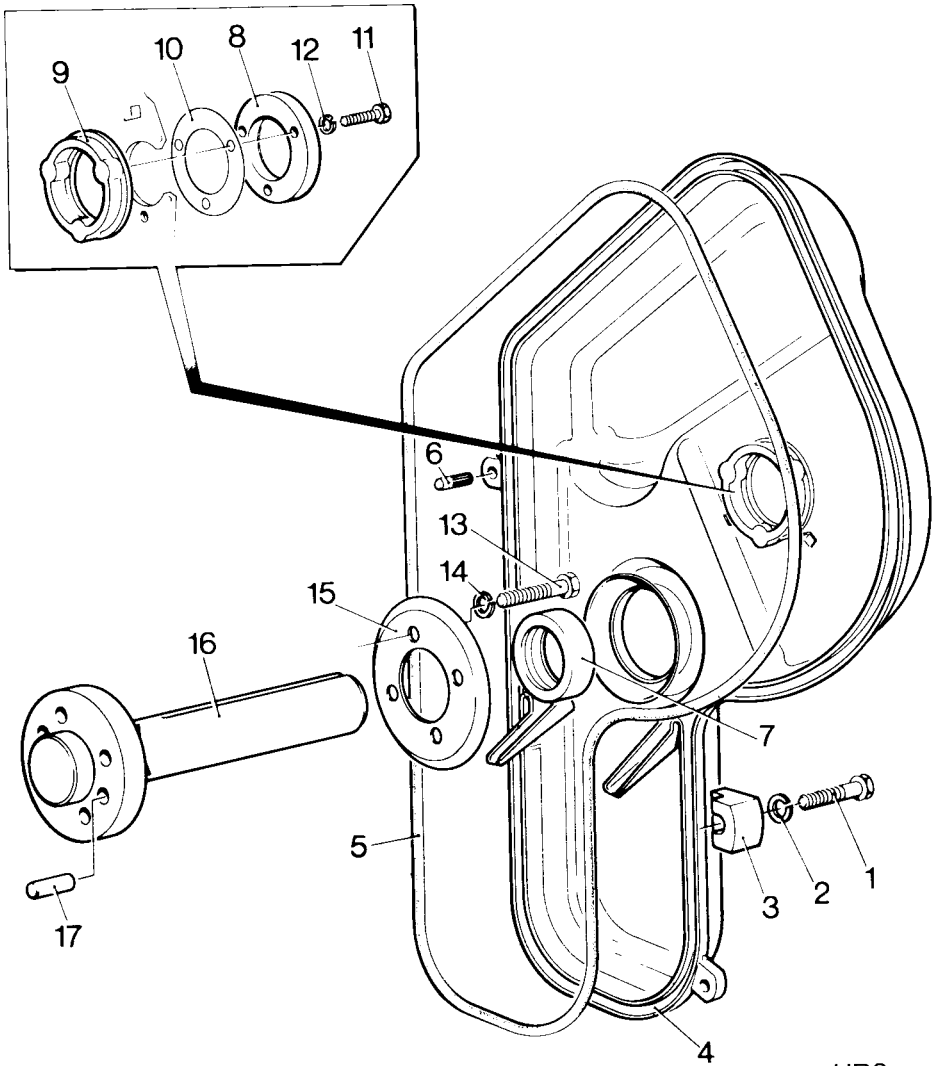


HR3

FUEL PUMP HOUSING & END PLATE

HR2 & 3 BUILD 01

Illus No.	Description	Part No.	HR	
			2	3
CRANKCASE END COVER & CRANKSHAFT EXTENSION				
1	SETSCREW - End Cover - 5/16"UNF x 1 1/4"	270-00182	8	8
2	SPRING WASHER	027-00413	8	8
3	CLAMP - End Cover	351-11401	8	8
4	END COVER ASSEMBLY	351-12092	1	1
5	JOINT - End Cover	351-11420	1	1
6	DOWEL	027-01496	2	2
7	OIL SEAL	210-00659	1	1
8	BLANKING PLATE - End Cover	351-37980	1	1
9	CLAMP RING	351-13180	1	1
10	JOINT	351-13160	2	2
11	SETSCREW - No. 10 UNF x 3/4"	270-00266	3	3
12	SPRING WASHER	027-00717	3	3
13	SETSCREW - Crankshaft Extension	270-00075	4	4
14	SPRING WASHER	027-00393	4	4
15	OIL THROWER - Gear End	351-14060	1	1
16	CRANKSHAFT EXTENSION	365-13940	1	1
17	DOWEL - Crankshaft Extension	351-10300	2	2
-	SOCKET SETSCREW - 5/16"UNF x 3/8"	270-00051	1	1

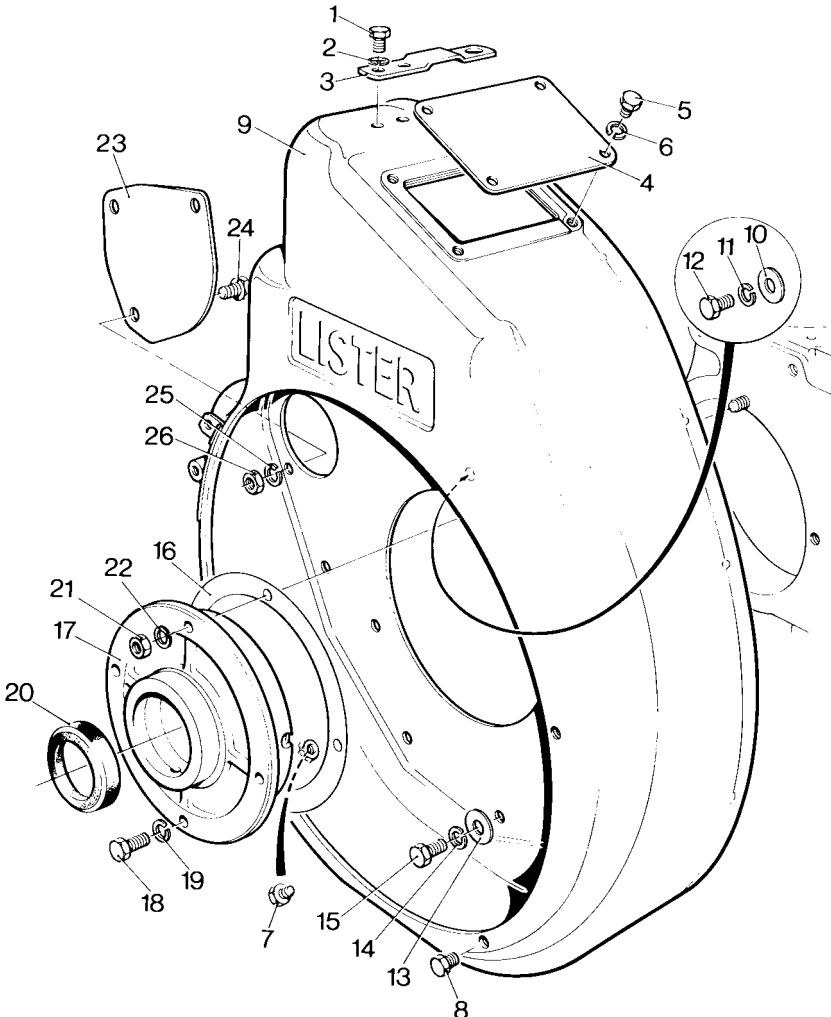


HR8

CRANKCASE END COVER & CRANKSHAFT EXTENSION

HR2 & 3 BUILD 01

Illus No.	Description	Part No.	HR		
			2	3	
FANSHROUD & MAIN BEARING HOUSING					
1	BOLT - Stay - 5/16"UNF x 3/4"	270-00060	2	2	
2	SPRING WASHER - 5/16"	027-00413	2	2	
3	STAY - Fanshroud to Top Plate	351-12681	1	1	
4	BLANKING PLATE - CW - Oil Cooler not Req'd.	352-16840	1	1	
5	SETSCREW - 1/4"UNC x 1/2"	270-00285	4	4	
6	SPRING WASHER	027-00451	4	4	
7	SETSCREW - 1/4"UNF x 1/2"	270-00054	1	1	
8	SETSCREW - 5/16"UNF x 1/2"	270-00058	6	6	
9	FANSHROUD - Hand Start	352-16734	1	1	
10	WASHER - Fanshroud	027-01367	1	1	
11	SPRING WASHER - Fanshroud	027-00393	1	1	
12	BOLT - Fanshroud - 3/8"UNF x 5/8"	270-00161	1	1	
13	WASHER - Fanshroud	027-01367	6	6	
14	SPRING WASHER - Fanshroud	027-00393	6	6	
15	BOLT - Fanshroud - 3/8"UNF x 3/4"	270-00071	6	6	
16	SHIM - Bearing Housing - 0.003"	351-11934	As Req'd.		
-	SHIM - Bearing Housing - 0.005"	351-11930	As Req'd.		
-	SHIM - Bearing Housing - 0.010"	351-11931	As Req'd.		
17	BEARING HOUSING	352-50610	1	1	
18	SETSCREW - Bearing Housing - 3/8"UNF x 7/8"	270-00072	3	3	
19	SPRING WASHER	027-00393	3	3	
20	LIP SEAL	352-83330	1	1	
21	NUT - Bearing Housing - 3/8"UNF	270-00004	1	1	
22	SPRING WASHER	027-00393	1	1	
23	BLANKING PLATE	} When electric start is not required	1	1	
24	SETSCREW - 3/8"UNF x 3/4"		270-00161	3	3
25	SPRING WASHER		027-00393	3	3
26	NUT	270-00004	3	3	

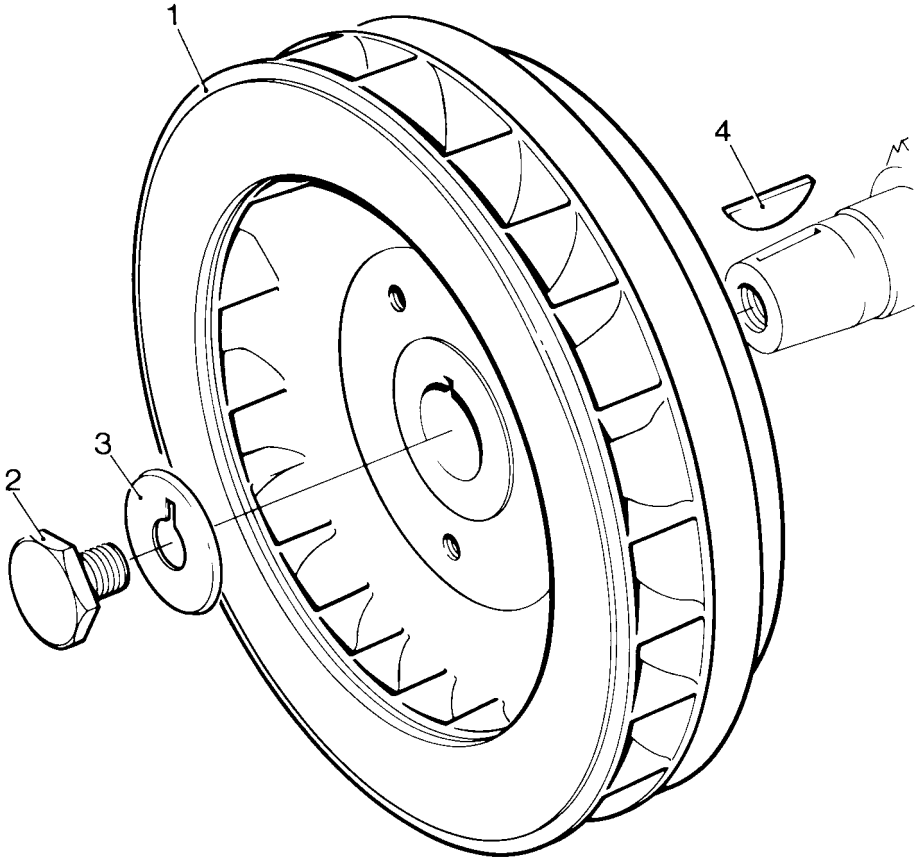


HR19A

FAN SHROUD & MAIN BEARING HOUSING

HR2 & 3 BUILD 01

Illus No.	Description	Part No.	HR	
			2	3
FLYWHEEL AND FITTINGS				
-	FLYWHEEL - with Integral Fan - HR2	352-36160	1	-
1	FLYWHEEL - with Integral Fan - HR3	353-36180	-	1
2	RETAINING SCREW	351-11280	1	1
3	LOCK WASHER	351-11330	1	1
4	KEY	291-21651	1	1

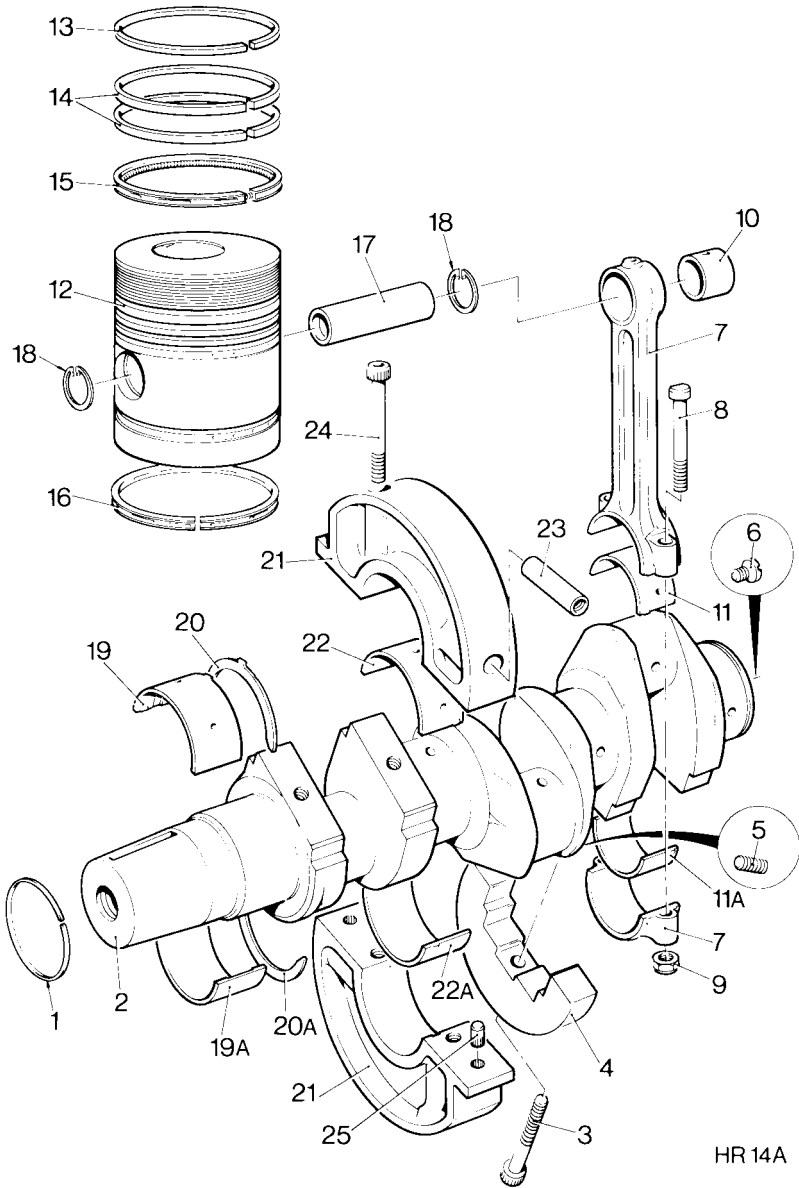


HR 20

FLYWHEEL & FITTINGS

HR2 & 3 BUILD 01

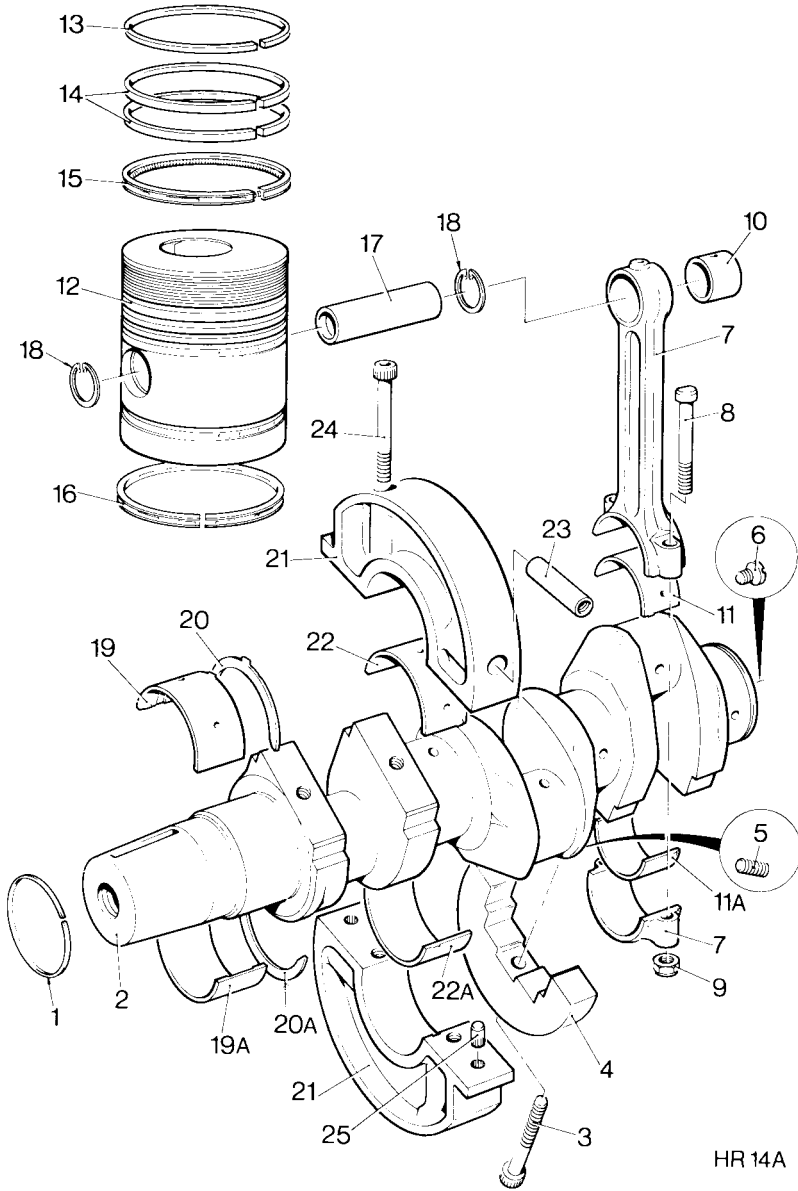
Illus No.	Description	Part No.	HR	
			2	3
CRANKSHAFT				
1	OIL THROWER - Flywheel End	351-11540	1	1
-	CRANKSHAFT ASSEMBLY - HR2 Comprises	572-50220	1	-
-	CRANKSHAFT ASSEMBLY - HR3 Comprises	572-50230	-	1
-	CRANKSHAFT - HR2		1	-
2	CRANKSHAFT - HR3		-	1
3	SOCKET CAP SCREW - 1/2"UNF x 2 1/4"	270-00672	4	4
4	BALANCE WEIGHT		4	4
5	GRUB SCREW - 5/8"UNF x 3/8"	270-00051	2	3
6	PLUG - Removed IF clutch fitted	351-12590	1	1
CONNECTING ROD AND PISTONS				
-	CONNECTING ROD ASSEMBLY Comprises	572-50350	2	3
7	CONNECTING ROD		2	3
8	BOLT - Connecting Rod	351-50050	4	6
9	NUT - Connecting Rod	270-00006	4	6
10	BUSH - Connecting Rod	351-50060	2	3
-	BEARING ASSEMBLY Comprises	572-50650	2	3
11	Top half		2	3
11A	Bottom half		2	3
-	PISTON ASSEMBLY Comprises	572-50122	2	3
12	PISTON		2	3
-	PISTON RING SET Comprises	572-50622	2	3
13	PISTON RING - Wedge		2	3
14	PISTON RING - Compression		4	6
15	PISTON RING - Top Scraper		2	3
16	PISTON RING - Bottom Scraper		2	3
17	GUDGEON PIN		2	3
18	CIRCLIP - Gudgeon Pin	351-50090	4	6



CRANKSHAFT, CONNECTING ROD & PISTON © 1983

HR2 & 3 BUILD 01

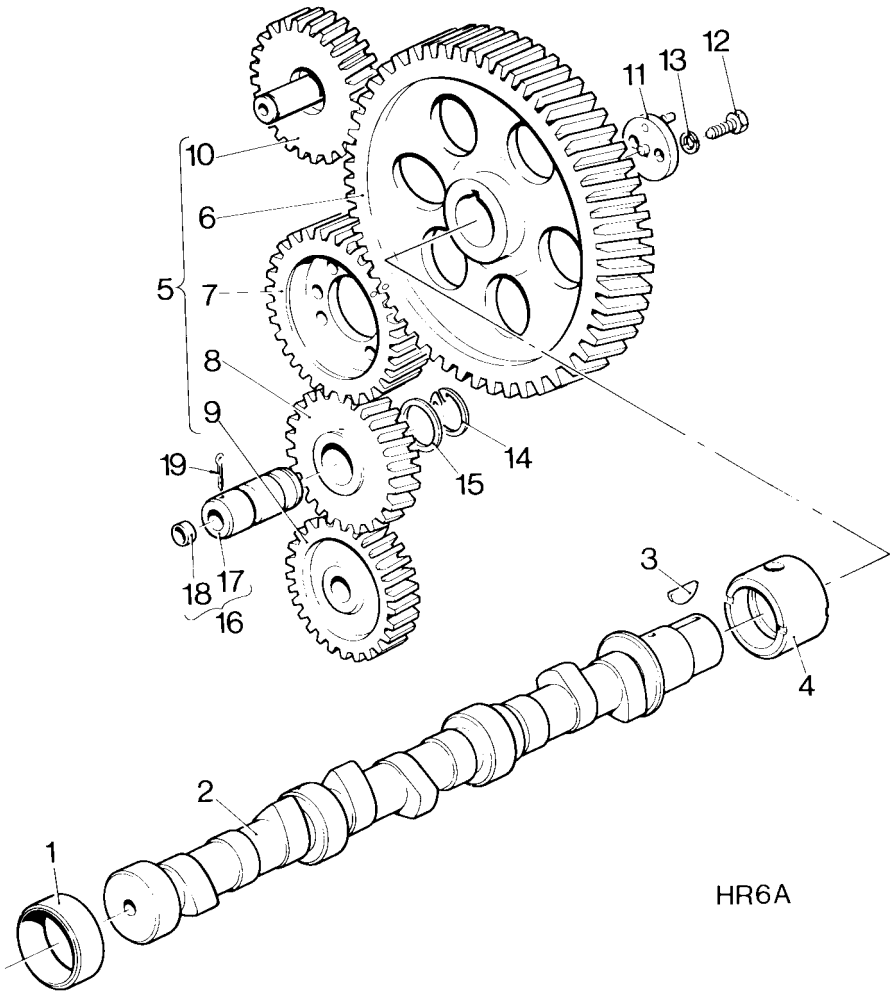
Illus No.	Description	Part No.	HR	
			2	3
CRANKSHAFT BEARINGS				
	MAIN BEARING ASSEMBLY Comprises	352-50620	2	2
19	Top Half			
19A	Bottom Half			
	THRUST WASHER ASSEMBLY Comprises	351-50290	2	2
20	Top Half		2	2
20A	Bottom Half		2	2
21	CENTRE BEARING HOUSING	352-50580	1	2
	CENTRE BEARING ASSEMBLY Comprises	351-50260	1	2
22	Top Half		1	2
22A	Bottom Half		1	2
23	LOCATING DOWEL	352-11850	1	2
24	SOCKET CAP SCREW - 3/8"UNF x 3 1/4"	270-00282	2	4
25	DOWEL	291-22470	2	4



CRANKSHAFT, CONNECTING ROD & PISTON © 1983

HR2 & 3 BUILD 01

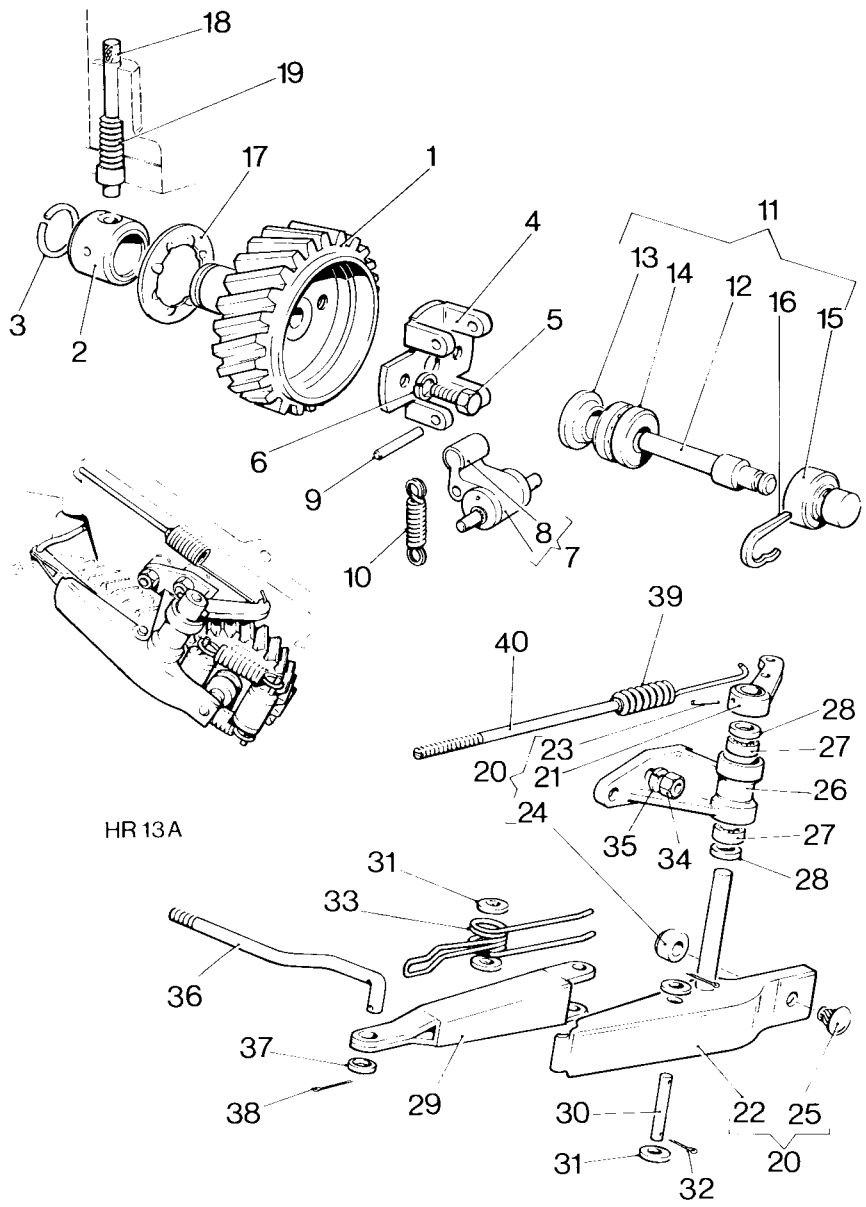
Illus No.	Description	Part No.	HR	
			2	3
CAMSHAFT AND GEAR TRAIN				
1	BUSH - Camshaft	202-12030	2	3
-	CAMSHAFT - HR2	352-10162	1	-
2	CAMSHAFT - HR3	353-10161	-	1
3	KEY - Camshaft	351-80670	1	1
4	BEARING - Camshaft	351-10172	1	1
5	GEAR TRAIN ASSEMBLY Comprises	572-10053	1	1
6	GEAR WHEEL - Camshaft	351-10721	1	1
7	PINION - Crankshaft	351-10711	1	1
8	IDLER GEAR	351-10670	1	1
9	DRIVING GEAR - Pump	351-10631	1	1
10	GOVERNOR GEAR AND HUB ASSEMBLY	351-10761	1	1
11	LOCATING PLATE ASSEMBLY - Camshaft	351-12060	1	1
12	SET SCREW - Camshaft Gearwheel - 5/16"UNF x 3/4"	270-00060	2	2
13	SPRING WASHER	027-00413	2	2
14	CIRCLIP - Idler Gear	201-11630	1	1
15	LOCATING WASHER - Idler Gear	351-10690	1	1
16	IDLER GEAR SHAFT ASSEMBLY Comprises	572-10900	1	1
17	SHAFT - Idler Gear		1	1
18	PLUG - Idler Gear		1	1
19	SPLIT PIN	027-00121	1	1



CAMSHAFT & GEAR TRAIN

HR2 & 3 BUILD 01

Illus No.	Description	Part No.	HR	
			2	3
GOVERNOR				
1	GOVERNOR GEAR & HUB ASSEMBLY	351-10761	1	1
2	GOVERNOR BEARING	351-10842	1	1
3	RETAINING RING - Governor Bearing	351-10850	1	1
4	WEIGHT CARRIER	201-10711	1	1
5	BOLT - Weight Carrier - 1/4"UNF x 1/2"	270-00054	2	2
6	SPRING WASHER - Weight Carrier	027-00451	2	2
7	GOVERNOR WEIGHT Includes - See table on page 72	20GY	2	2
8	SHOE	351-34850		
9	PIN - Governor Weight	201-10721	2	2
10	WEIGHT SPRING - See table on page 72			
11	THRUST BEARING & SHAFT ASSEMBLY Comprises	572-10001	1	1
12	SHAFT		1	1
13	WASHER		1	1
14	THRUST RACE		1	1
15	THRUST CAP		1	1
16	CIRCLIP - Thrust Cap		1	1
17	THRUST WASHER - Governor Gear	351-10740	1	1
18	LOCATING PLUNGER	351-10861	1	1
19	PLUNGER SPRING	351-12920	1	1
-	GOVERNOR LEVER & BRACKET ASSEMBLY Comprises	572-10890	1	1
20	GOVERNOR & SPRING LEVER ASSEMBLY Comprises	572-10022	1	1
21	GOVERNOR LEVER ASSEMBLY		1	1
22	SPRING LEVER		1	1
23	TAPER PIN		1	1
24	PAD		1	1
25	SCREW - Hammer Drive		1	1
26	BRACKET - Governor Lever	351-10951	1	1
27	BALL BEARING	351-11480	2	2
28	DISTANCE WASHER	351-10990	2	2
29	LEVER - Spring Link	351-10960	1	1
30	PIN - Spring Link Lever	351-10970	1	1
31	WASHER - Pin	064-06612/005	4	4
32	SPLIT PIN	027-01986	2	2
33	SPRING - Spring Link Lever	351-10980	1	1
34	NUT - Bracket - 5/16"UNF	270-00003	2	2
35	SPRING WASHER	027-00413	2	2
36	CONNECTING ROD	351-11020	1	1
37	WASHER - Connecting Rod	064-06612/005	1	1
38	SPLIT PIN	027-01896	1	1
39	SPEEDER SPRING - See table on Page 72	351-11013	1	1
40	CONNECTING SPINDLE	351-12490	1	1

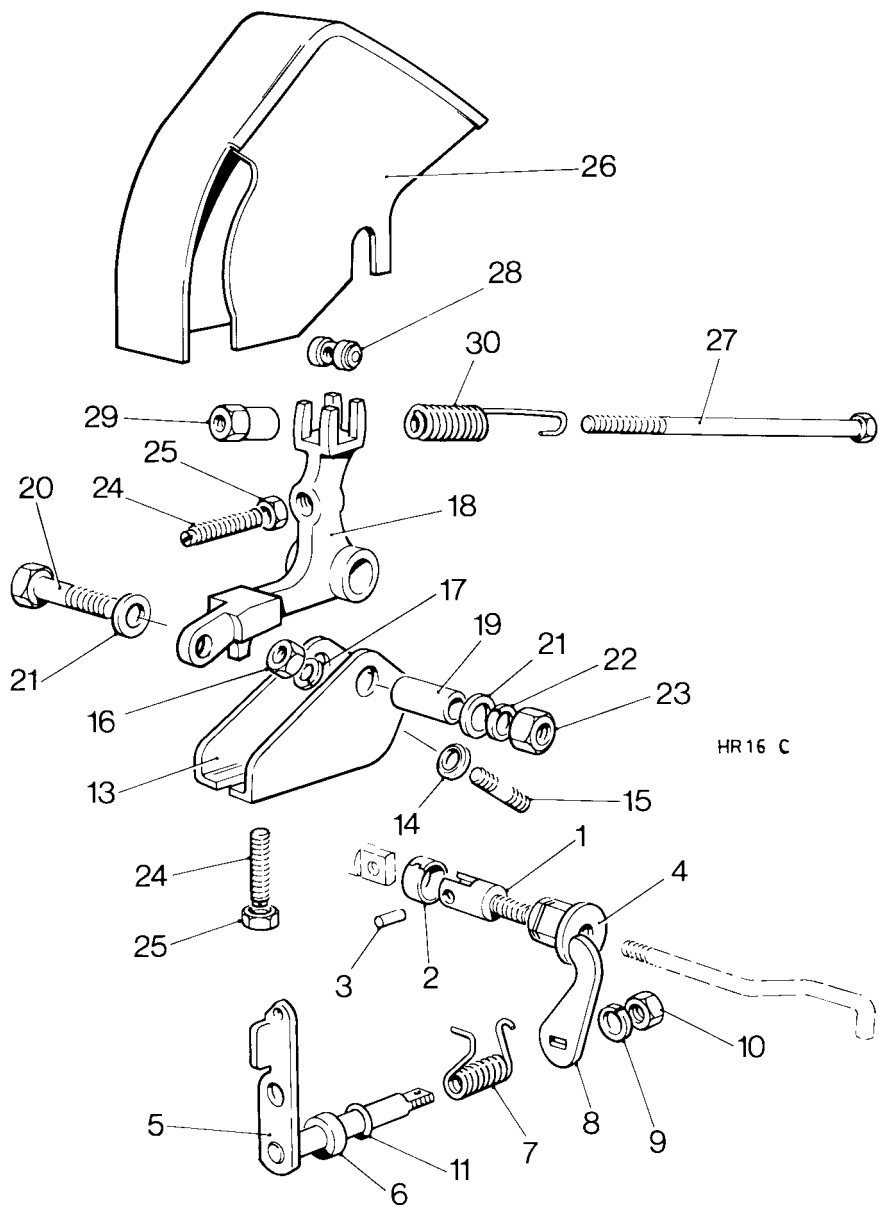


HR 13A

GOVERNOR

HR2 & 3 BUILD 01

Illus No.	Description	Part No.	HR	
			2	3
GOVERNOR (Cont.)				
1	FORK Includes	572-11870	1	1
2	SPRING CLIP	351-34990	1	1
3	PIN - Fork	351-11472	1	1
4	OVERLOAD STOP	351-11062	1	1
-	END PLATE ASSEMBLY Comprises	572-11822	1	1
-	END PLATE ASSEMBLY	572-10032	1	1
5	STOPPING LEVER ASSEMBLY	351-11111	1	1
6	DISTANCE PIECE	351-11140	1	1
7	SPRING	351-11151	1	1
8	CONTROL LEVER	351-11161	1	1
9	SPRING WASHER	027-00451	1	1
10	NUT - 1/4"UNF	270-00002	1	1
11	JOINT RING	201-13120	1	1
12	Not used			
VARIABLE SPEED CONTROL				
13	BRACKET	351-12511	1	1
14	SPACER	027-04775	1	1
15	STUD - Bracket, 5/16"UNF x 1 1/4"	270-00242	1	1
16	NUT - Bracket, 5/16"UNF	270-00003	1	1
17	SPRING WASHER - Bracket	027-00413	1	1
18	OPERATING LEVER	351-82690	1	1
19	DISTANCE PIECE - Operating Lever	351-16160	1	1
20	BOLT - Operating Lever, Brass 5/16"UNF x 1 3/4"	270-00370	1	1
21	PLAIN WASHER - Operating Lever	064-06612/008	2	2
22	SPRING WASHER - Operating lever	027-00413	1	1
23	NUT - Operating Lever, Brass 5/16"UNF	270-00014	1	1
24	ADJUSTING SCREW	201-15161	2	2
25	NUT - Adjusting Screw 1/4"UNF	270-00002	2	2
26	GUARD ASSEMBLY	351-16150	1	1
27	CONNECTING SPINDLE - See Item 39, page 56		1	1
28	TRUNNION ASSEMBLY	572-10120	1	1
29	ADJUSTING NUT	291-22310	1	1
30	SPEEDER SPRING - See table on page 72	351-11013	1	1

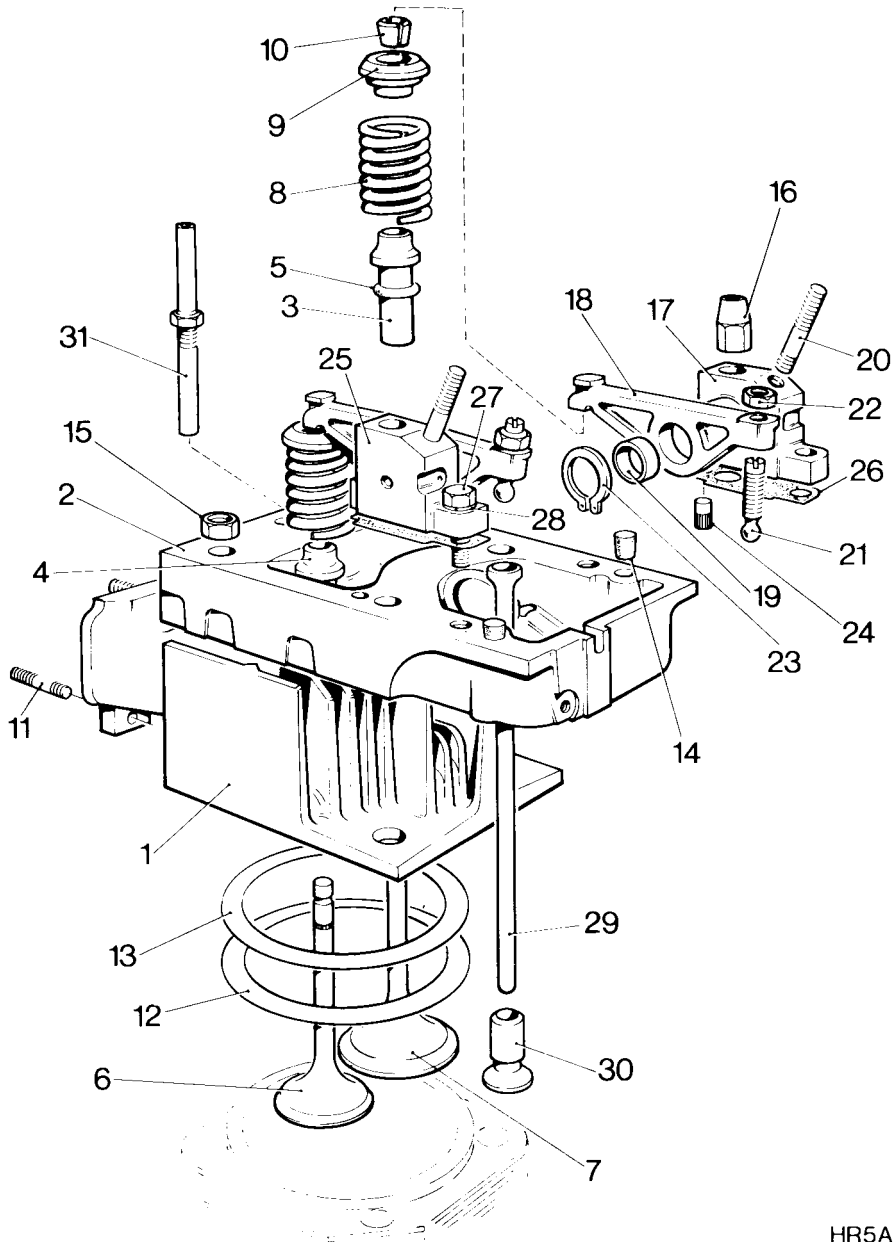


HR16 C

GOVERNOR & VARIABLE SPEED CONTROL

HR2 & 3 BUILD 01

Illus No.	Description	Part No.	HR	
			2	3
CYLINDER HEAD				
-	CYLINDER HEAD ASSEMBLY Comprises	572-55050	2	3
1	CYLINDER HEAD		2	3
2	TOP PLATE		2	3
3	VALVE GUIDE - Inlet	351-10400	2	3
4	VALVE GUIDE - Exhaust	291-50800	2	3
5	OIL SEAL RING - Valve Guide	351-10341	2	3
6	EXHAUST VALVE	351-50432	2	3
7	INLET VALVE	351-50420	2	3
8	VALVE SPRING	351-21401	4	6
9	CARRIER - Valve Spring	351-50570	4	6
10	COTTER - Valve Spring	291-20661	4	6
11	STUD - Manifold - 5/16"UNF x 1 3/4"	270-00348	6	8
12	SHIM - Cylinder Head - 0.004" (0.1016mm)	351-50191	As Req'd.	
-	SHIM - Cylinder Head - 0.010" (0.254mm)	351-50192	As Req'd.	
13	GASKET - Cylinder Head	351-50181	2	3
14	RUBBER PLUG - Top Plate	351-50800	4	6
15	NUT - Holding Down - 9/16"UNF	270-00007	3	5
-	NUT - Gear End - in place of 1 x 270-00007	351-13860	1	2
16	NUT - Rocker Bracket Holding Down - 9/16"UNF	351-10220	4	6
-	INLET ROCKER BRACKET ASSEMBLY Comprises	572-50170	2	3
17	ROCKER BRACKET - Inlet	351-50140	2	3
-	VALVE ROCKER LEVER ASSEMBLY Comprises	572-50340	2	3
18	VALVE ROCKER - Lever	351-50160	2	3
19	VALVE ROCKER - Bush	351-50170	2	3
20	STUD - Injector Clamp	351-36220	2	3
21	SCREW - Adjusting Valve Rocker	292-01670	2	3
22	NUT - 5/16" UNF	270-00003	2	3
23	CIRCLIP - Valve Rocker Lever	201-11630	2	3
24	DOWEL - Rocker Bracket	351-15030	2	3
-	EXHAUST ROCKER BRACKET ASSEMBLY Comprises	572-50280	2	3
25	ROCKER BRACKET - Exhaust	351-50150	2	3
-	Plus items 18 to 24			
26	JOINT - Rocker Bracket	351-10560	4	6
27	SETSCREW - Rocker Bracket - 5/16" UNF x 1"	270-00061	4	6
28	SPRING WASHER	027-00413	4	6
29	PUSH ROD	351-10310	4	6
30	TAPPET	351-10210	4	6
31	BREATHER	201-10982	2	3

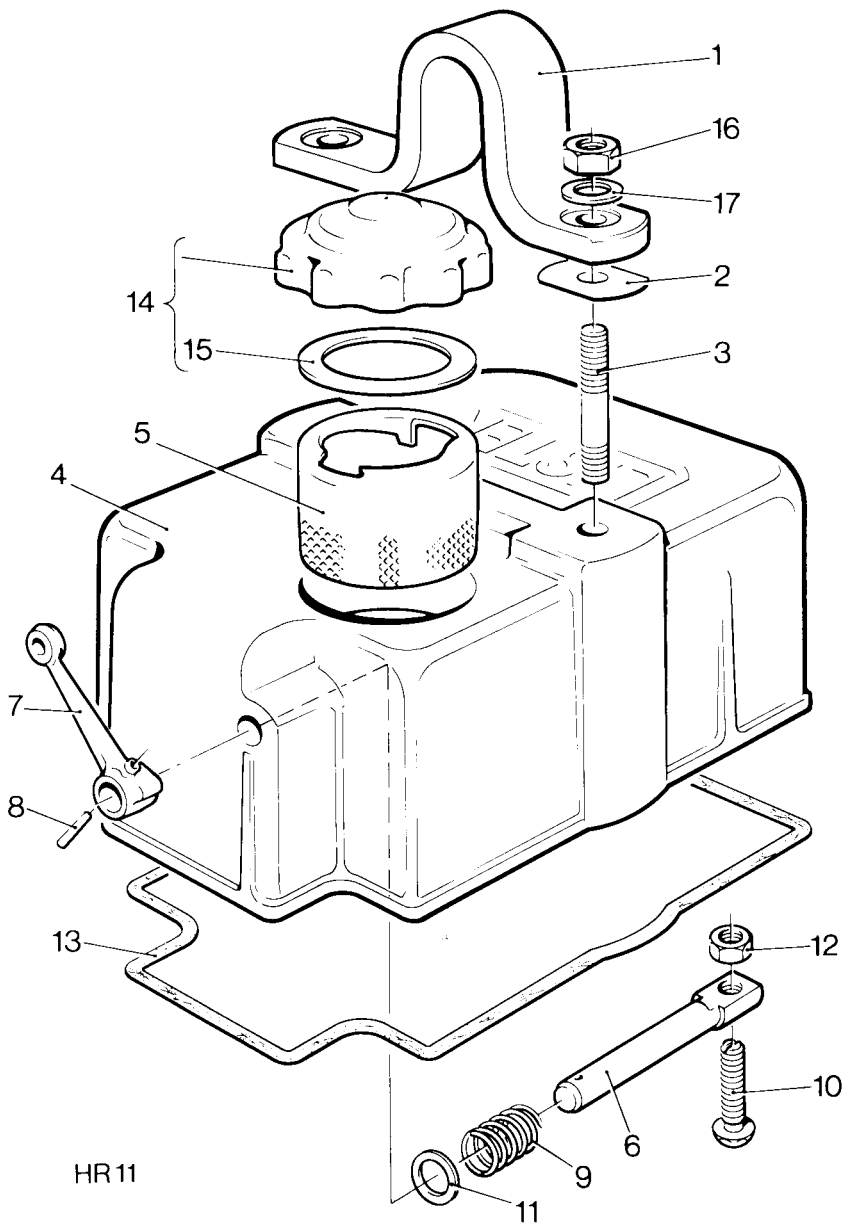


HR5A

CYLINDER HEAD

HR2 & 3 BUILD 01

Illus No.	Description	Part No.	HR	
			2	3
CYLINDER HEAD COVER				
1	LIFTING EYE	351-13581	1	1
2	JOINT - Lifting Eye	351-13940	2	2
3	STUD - Cylinder Head Cover with Lifting Eye 5/16"UNF x 1 3/4"	270-00084	2	2
-	STUD - Cylinder Head Cover - 5/16"UNF x 1 1/4"	270-00081	2	4
-	CYLINDER HEAD COVER ASSEMBLY Comprises	572-11810	2	3
4	COVER	351-10490	2	3
5	OIL FILLER	027-06317	2	3
6	SHAFT - Decompressor	352-51521	2	3
7	LEVER - Decompressor	351-13551	2	3
8	MILLS PIN	201-11730	2	3
9	SPRING	201-12270	2	3
10	SCREW - Decompressor	352-51550	2	3
11	PLAIN WASHER	027-00184	2	3
12	NUT - Decompressor 1/4"UNF	270-00002	2	3
13	JOINT - Cylinder Head Cover	351-10510	2	3
14	OIL FILLER CAP ASSEMBLY Including	027-03824	2	3
15	JOINT - Oil Filler Cap	303-00253	2	3
16	NUT - Cylinder Head Cover 5/16"UNF	270-00003	4	6
17	COPPER WASHER	616-01608	4	6

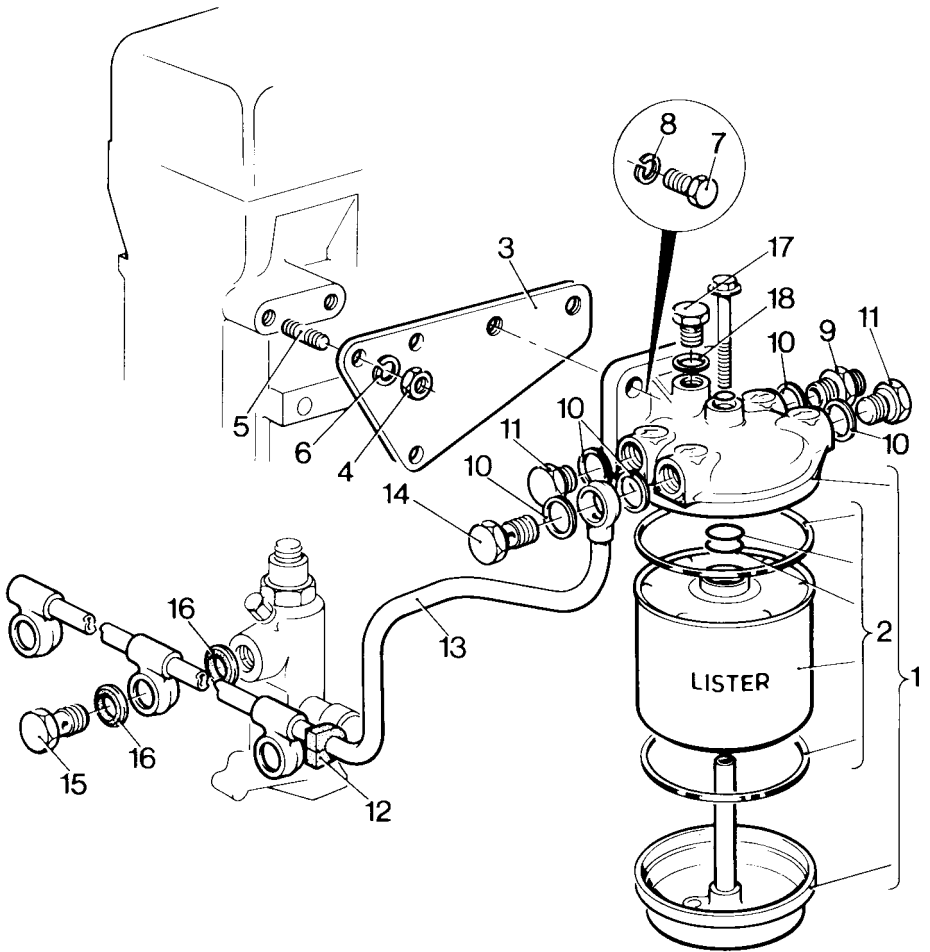


HR 11

CYLINDER HEAD COVER

HR2 & 3 BUILD 01

Illus No.	Description	Part No.	HR	
			2	3
FUEL FILTER & PIPES				
1	FUEL FILTER Includes	354-28360	1	1
2	ELEMENT KIT	351-29760	1	1
3	BRACKET - Filter	351-11271	1	1
4	NUT - 1/4"UNF	270-00002	3	3
5	STUD - 1/4"UNF/UNC x 1 1/8".....	270-00380	3	3
6	SPRING WASHER	027-00451	3	3
7	SETSCREW - 5/16"UNF x 3/4".....	270-00060	2	2
8	SPRING WASHER	027-00413	2	2
9	UNION - Inlet on Filter	352-28760	1	1
10	JOINT	013-22350	5	5
11	BLANK PLUG	354-28530	2	2
12	RUBBER BUSH - Fuel Pipe	201-11271	1	1
-	FUEL PIPE - Filter to Pump	352-28720	1	-
13	FUEL PIPE - Filter to Pump	353-28720	-	1
14	PLUG - Swivel Union	354-28630	1	1
15	PLUG - Swivel Union	201-53400	2	3
16	JOINT	201-12970	4	6
17	BLANKING PLUG } When fuel lift pump	352-28740	1	1
18	JOINT - Copper } is not fitted	354-26310	1	1

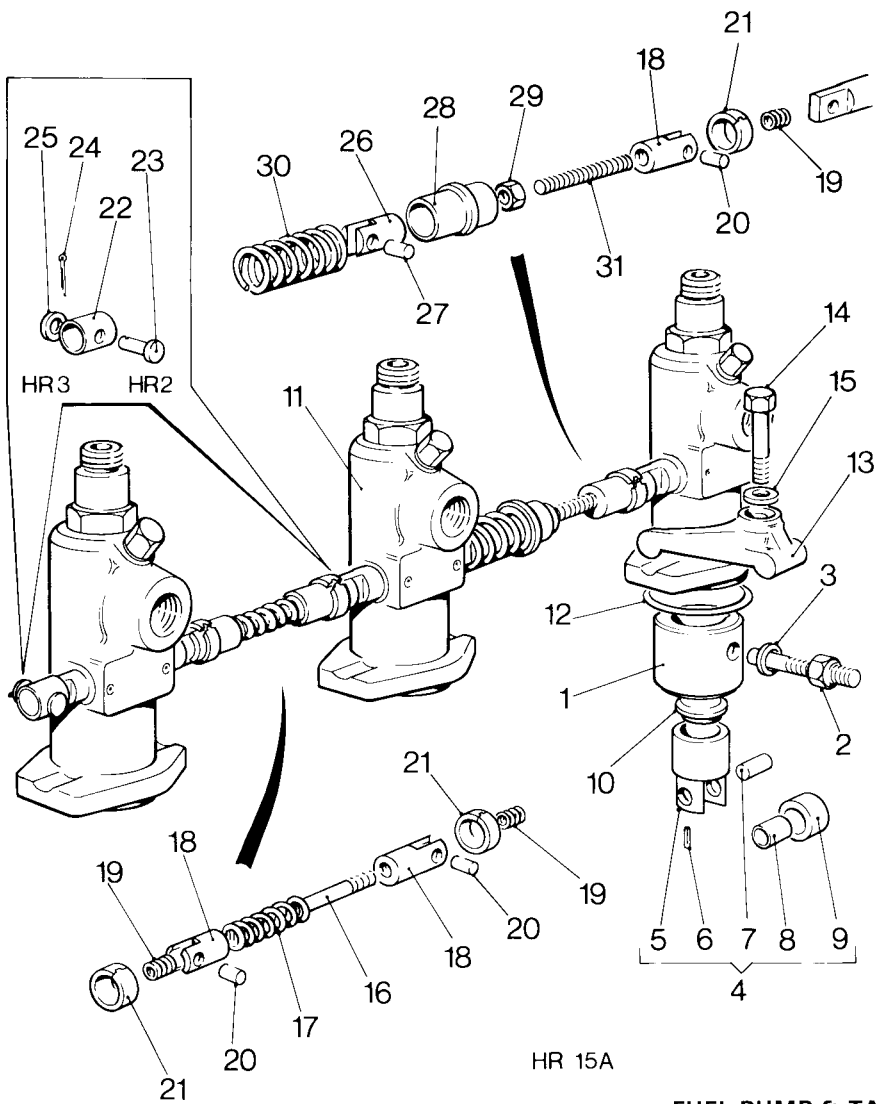


HR10

FUEL FILTER & PIPES

HR2 & 3 BUILD 01

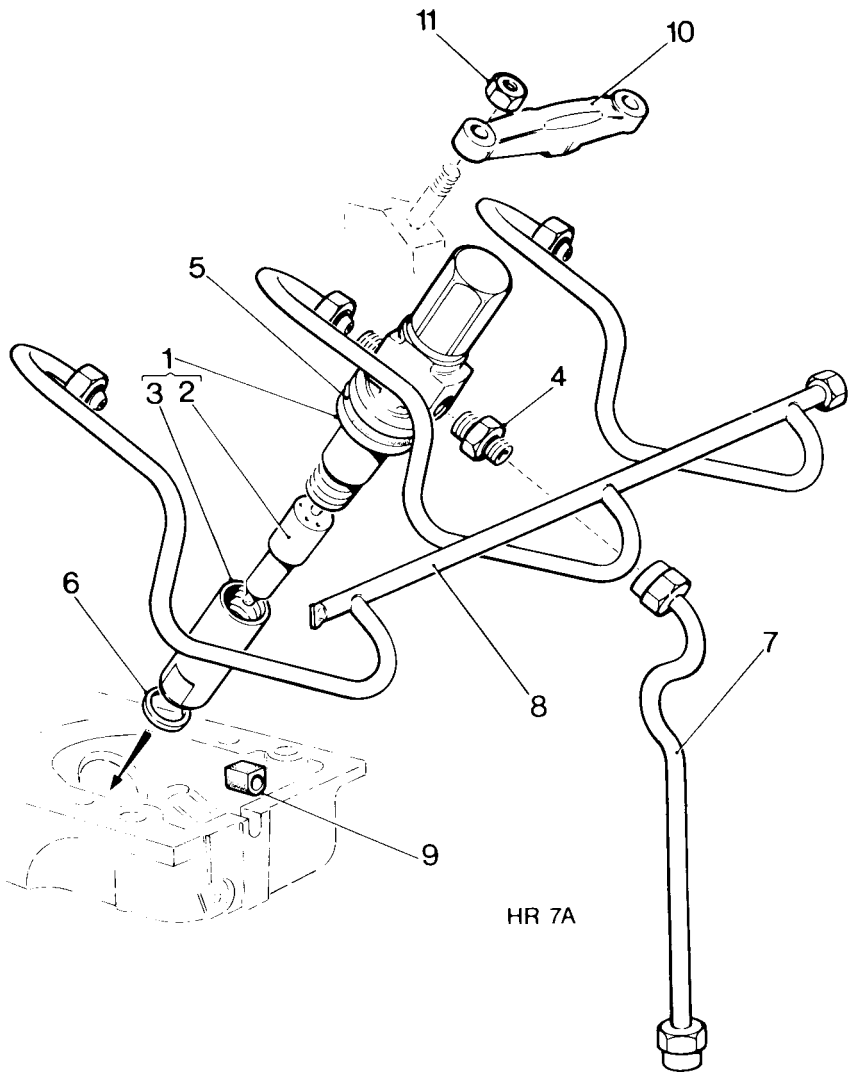
Illus No.	Description	Part No.	HR	
			2	3
FUEL PUMP & TAPPET				
1	GUIDE - Pump Tappet	201-11471	2	3
2	LOCATING PIN - Tappet	351-12130	2	3
3	WASHER - Locating Pin	616-01608	2	3
4	TAPPET ASSEMBLY Comprises	570-10030	2	3
5	TAPPET	201-11431	2	3
6	RETAINING PIN - Roller Pin	201-11460	2	3
7	ROLLER PIN - Tappet	201-11451	2	3
8	ROLLER BUSH - Tappet	291-22550	2	3
9	ROLLER - Tappet	291-22560	2	3
10	TAPPET CAP	201-11441	2	3
11	FUEL PUMP - Includes	351-51080	2	3
-	ELEMENT	660-13630	2	3
-	DELIVERY VALVE & SEAT	660-13640	2	3
12	SHIM - Fuel Pump 0.127mm (0.005")	201-11520	As Req'd.	
-	SHIM - Fuel Pump 0.254mm (0.010")	201-11530	As Req'd.	
13	CLAMP - Fuel Pump	201-11540	2	3
14	BOLT - Fuel Pump Clamp - 5/16"UNF x 1 3/4"	270-00064	2	3
15	WASHER - Fuel Pump Clamp	201-11560	2	3
16	CONNECTING ROD - Fuel Pump	351-11040	-	1
17	EXTERNAL SPRING	351-11050	-	1
18	SHACKLE	202-12003	1	3
19	INTERNAL SPRING } Flywheel End	202-12020	1	3
20	SHACKLE PIN } Fuel Pump	351-11472	1	3
21	SPRING CLIP	351-34990	1	3
22	STOP SLEEVE	351-11291	1	1
23	PIN	202-13671	1	1
24	SPLIT PIN	027-01986	1	1
25	PLAIN WASHER	064-02580/004	1	1
26	SHACKLE - Idling Control }	204-12000	1	1
27	PIN - Shackle } Gear End	351-11472	1	1
28	ADJUSTING SLEEVE } Fuel Pump	204-21480	1	1
29	LOCKNUT	204-21500	1	1
30	IDLING SPRING	204-21491	1	1
31	CONNECTING ROD - Fuel Pump	351-51800	1	1



FUEL PUMP & TAPPET

HR2 & 3 BUILD 01

Illus No.	Description	Part No.	HR	
			2	3
FUEL INJECTOR				
1	INJECTOR Complete Includes	351-50791	2	3
2	NOZZLE	351-21451	2	3
3	NOZZLE NUT		2	3
4	INJECTOR EDGE FILTER ASSEMBLY	572-10590	2	3
5	OIL SEAL RING	351-51540	2	3
6	WASHER	351-40230	2	3
7	FUEL PIPE - Pump to Injector	351-10590	2	3
-	UNION - Included in 351-50791		2	3
-	LEAK OFF PIPE } includes	352-36310	1	-
8	LEAK OFF PIPE }	353-36310	-	1
9	BUSH	201-11090	2	3
-	INJECTOR CLEANING TOOLS - Supplied if Specially Ordered .	660-10070		
10	INJECTOR CLAMP	351-10580	2	3
11	NUT - Injector Clamp - 5/16"UNF	270-00003	4	6



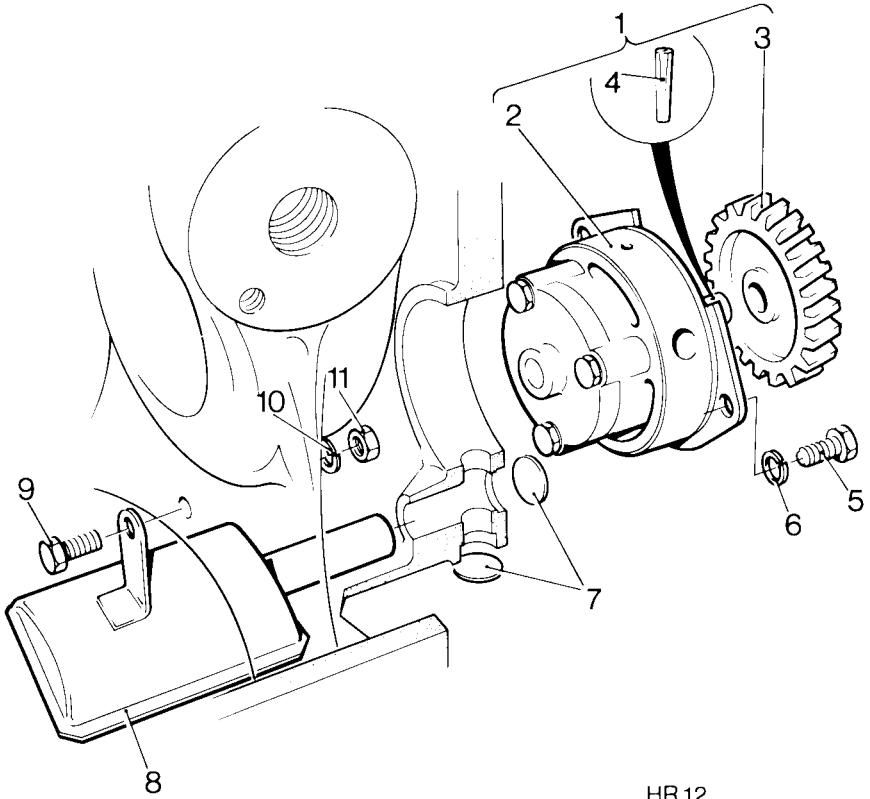
HR 7A



FUEL SYSTEM - Injector © 1983

HR2 & 3 BUILD 01

Illus No.	Description	Part No.	HR	
			2	3
LUBRICATING OIL PUMP				
1	LUBRICATING OIL PUMP ASSEMBLY Comprises	572-11740	1	1
2	LUBRICATING OIL PUMP	353-11820	1	1
3	DRIVING GEAR	351-10631	1	1
	Part of Gear Train 572-10053			
4	MILLS PIN - Driving Gear	351-12981	1	1
5	SETSCREW - 5/16"UNF x 3/4"	270-00060	2	2
6	SPRING WASHER	027-00413	2	2
7	EXPANSION PLUG - Oil suction hole	027-00757	2	2
LUBRICATING OIL STRAINER				
8	LUBRICATING OIL STRAINER	351-10432	1	1
9	BOLT - 5/16"UNF x 7/8"	270-00024	1	1
10	SPRING WASHER	027-00413	1	1
11	NUT - 5/16"UNF	270-00003	1	1

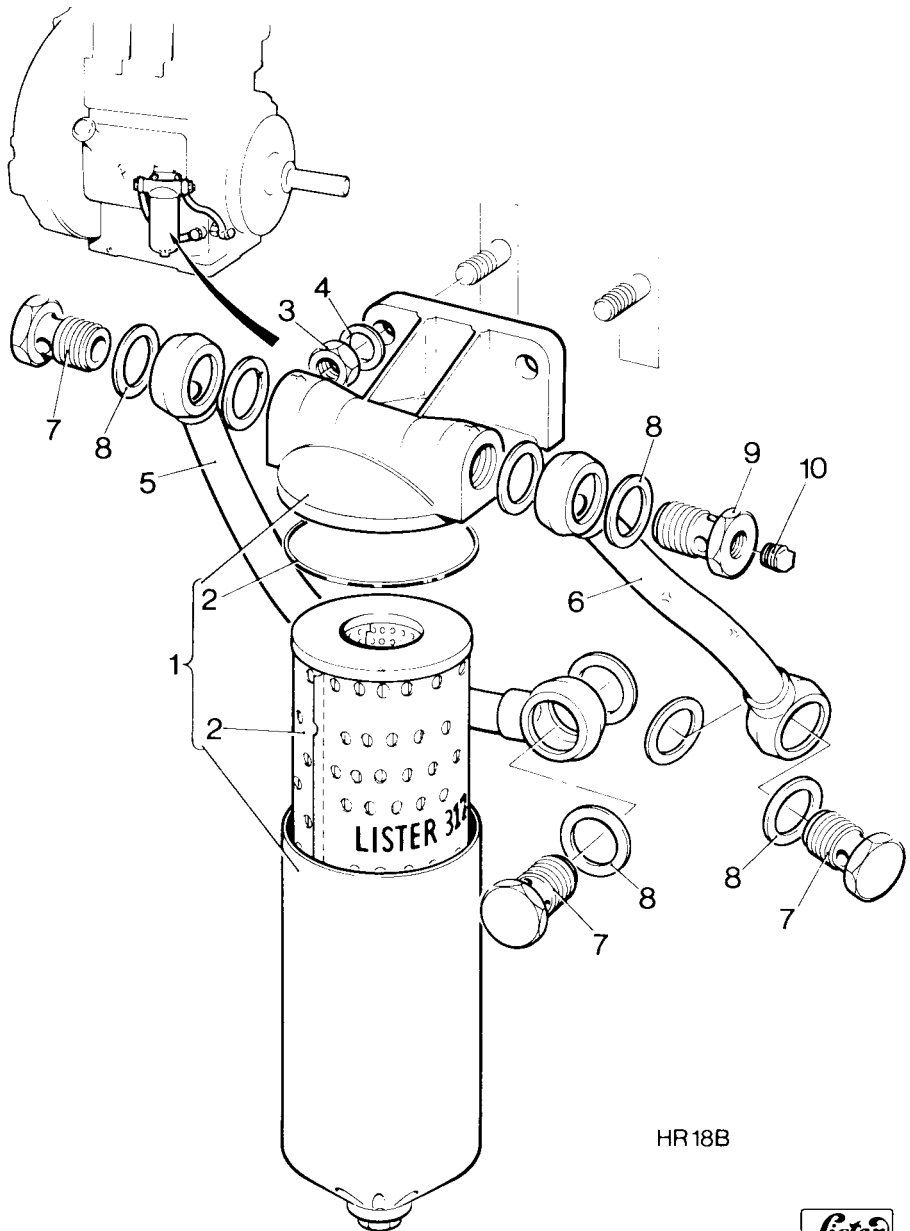


HR12

LUBRICATING OIL PUMP & STRAINER

HR2 & 3 BUILD 01

Illus No.	Description	Part No.	HR	
			2	3
LUBRICATING OIL FILTER				
1	FILTER - Includes	352-13100	1	1
2	ELEMENT KIT	352-31720	1	1
3	NUT - 3/8"UNF	270-00004	2	2
4	WASHER	027-00184	2	2
5	OIL PIPE - Engine to Filter	352-13080	1	1
6	OIL PIPE - Filter to Engine	352-13090	1	1
7	PLUG - Oil Pipe	023-02308	3	3
8	JOINT	013-21778	8	8
9	SWIVEL UNION PLUG - Oil Pressure Take Off	291-28350	1	1
10	TAPER PLUG	027-01993	1	1



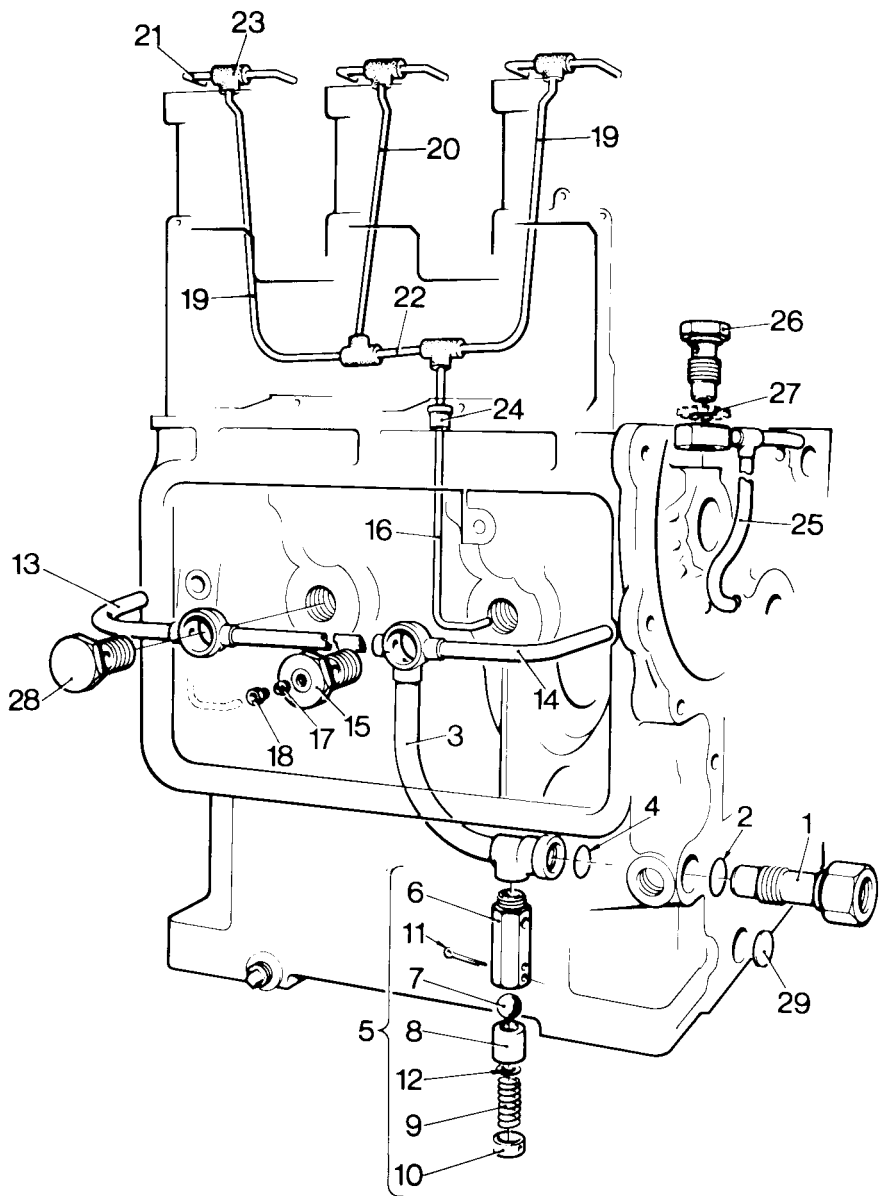
HR 18B



LUBRICATING OIL FILTER

HR2 & 3 BUILD 01

Illus No.	Description	Part No.	HR	
			2	3
LUBRICATING OIL RELIEF VALVE & PIPES				
1	CONNECTOR - Oil Pipe	351-11781	1	1
2	'O' RING - Oil Pipe	354-31640	1	1
3	OIL PIPE - Inlet Connection to 'T' Piece	352-11891	1	1
4	'O' RING - Oil Pipe	352-11911	1	1
5	RELIEF VALVE ASSEMBLY Comprises	572-11770	1	1
6	RELIEF VALVE BODY		1	1
7	BALL - 1/2" Dia.	007-00425	1	1
8	SPRING CARRIER	351-11800	1	1
9	SPRING	351-11810	1	1
10	SPRING CAP	201-12570	1	1
11	SPLIT PIN	027-02252	1	1
12	WASHER - To adjust oil pressure	064-06612/004		As reqd.
-	OIL PIPE - Main Bearing Flywheel End - HR2	352-11870	1	-
13	OIL PIPE - Main Bearing Flywheel End - HR3	353-11870	-	1
14	OIL PIPE - Main Bearing Governor End	352-11880	1	1
15	PLUG - 'T' Piece	351-12720	1	1
16	OIL PIPE - 'T' Piece	352-12730	1	1
17	TUBING SLEEVE - Oil Pipe } Use with	201-12990	1	1
18	SLEEVE NUT - Oil Pipe } 352-12730	201-13000	1	1
19	OIL PIPE - Between 'T' Pieces No. 1 & 3 cyl	352-12740	1	2
20	OIL PIPE - Between 'T' Pieces No. 2 cyl	352-12750	1	1
21	OIL PIPE - 'T' Piece to Rocker Bracket	351-53120	4	6
22	OIL PIPE - Between 'T' Pieces	353-12950	-	1
23	'T' PIECE	201-11662	3	5
24	BUSH - Oil Pipe	201-12280	1	1
25	OIL PIPE - Camshaft to Governor	351-11941	1	1
26	PLUG - Oil Pipe	351-10611	1	1
27	LOCK WASHER - Use with 351-10611	351-15050	1	1
28	PLUG - Oil Pipe	023-02308	-	1
29	EXPANSION PLUG - Part of Crankcase Assembly	027-00757	2	2

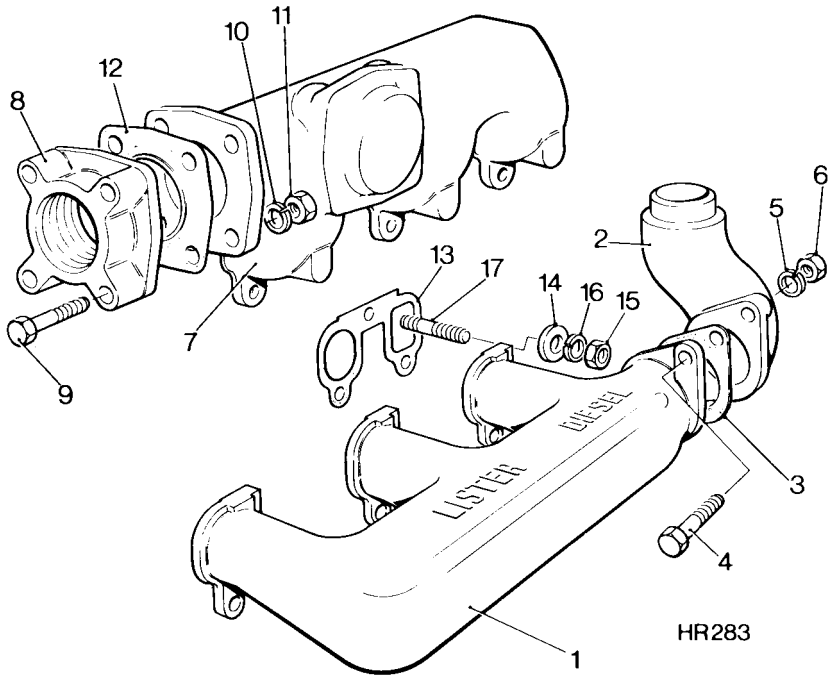
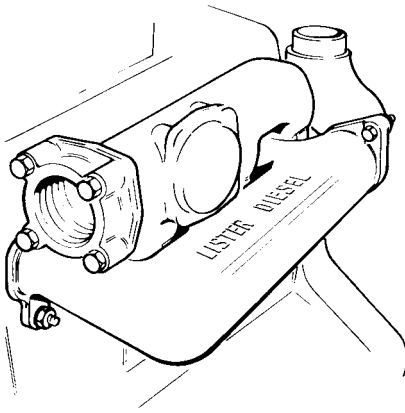


HR 17

LUBRICATING OIL RELIEF VALVE & PIPES

HR2 & 3 BUILD 01

Illus No.	Description	Part No.	HR	
			2	3
MANIFOLDS				
-	AIR INLET MANIFOLD - HR2	352-55390	1	-
1	AIR INLET MANIFOLD - HR3	353-55390	-	1
2	ADAPTOR - Air Inlet Manifold	352-55400	1	1
3	JOINT - Adaptor	353-41470	1	1
4	BOLT - Adaptor 3/8"UNF x 1 1/2"	270-00075	2	2
5	SPRING WASHER	027-00393	2	2
6	NUT - 3/8"UNF	270-00004	2	2
-	EXHAUST MANIFOLD	352-55411	1	-
7	EXHAUST MANIFOLD	353-55411	-	1
8	TAPPED FLANGE - Exhaust Flange end	292-21010	1	1
9	BOLT - Flange 5/16"UNF x 2"	270-00065	4	4
10	SPRING WASHER	027-00413	4	4
11	NUT - 5/16"UNF	270-00003	4	4
12	JOINT - Exhaust Manifold	292-21020	2	2
13	JOINT - Manifold	351-11611	2	3
14	CLAMP WASHER	351-11630	2	3
15	NUT - 5/16" Brass	270-00014	6	9
16	SPRING WASHER	027-00413	6	9
17	STUD - Manifold - 5/16"UNF x 1 3/4"	270-00348	6	9



HR283



MANIFOLDS © 1983

SCHEDULE OF GOVERNOR WEIGHT AND SPRING COMBINATIONS

Combination Code	Governor Weight Part No. and Identif'n No. 2 per set	Governor Weight Spring Part No. and Colour 2 per set	Speeder Spring Part No. and Colour 1 per set	Idling Spring Part No. and Colour 1 per set	Rev/Min Build Speed	HR2 BUILDS	HR3 BUILDS
20 GY	572-11667 (20)	2/3	351-11013 Green	204-21491 Yellow	1500	16	16
					1800	01, 02, 05	01, 02, 05
					2000	06, 07, 17	06, 07, 17
					2200	03, 04, 14, 15	03, 04, 14, 15, 18, 19
3 YR	572-11391 (3)	351-11510 Yellow	351-11011 Red	-	1500	08, 09, 10, 20, 21	08, 09, 10, 20, 21
24 YR	572-11680 (24)	351-11510 Yellow	351-11011 Red	-	1800	11, 12, 13, 22, 23	11, 12, 13, 22, 23

SPECIMEN ORDER FORM FOR REPLACEMENT PARTS

REPLACEMENT PARTS - DIRECTIONS FOR ORDERING

TO FROM
(YOUR NORMAL SUPPLIER)

ORDER No DATE

LISTER ENGINE SERIAL NUMBER

Item No.	Description	Part No.	Quantity	Remarks
1	Exhaust Valve	351-50432	3	
2	Inlet Valve	351-50420	3	
3	Spring	351-21401	6	
4	Spring Carrier	351-50570	6	
5	Piston Ring-Set	572-50622	3	

DESPATCH INSTRUCTIONS

Illus			HR	
No.	Description	Part No.	2	3

BUILD 02

GOVERNOR WEIGHTS & SPRINGS

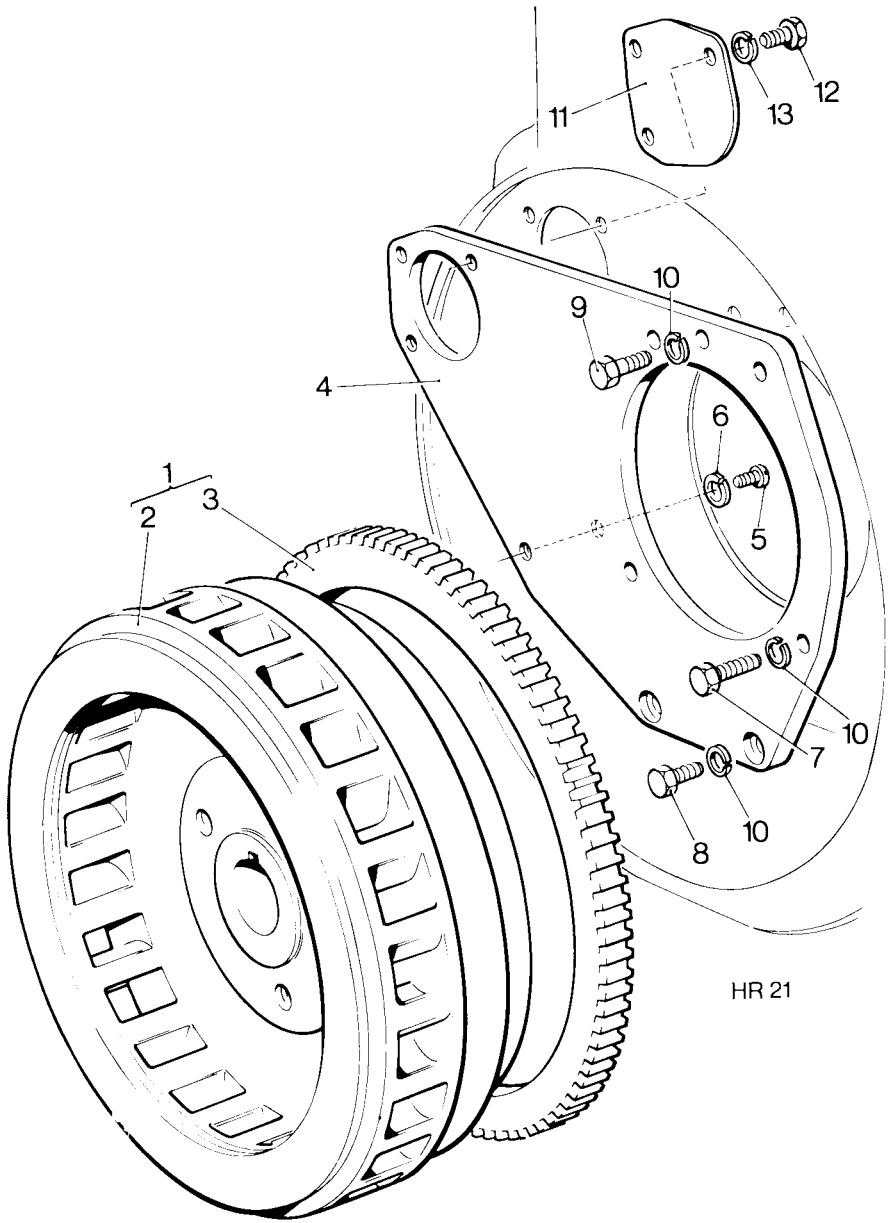
See table on page 72

STANDARD FLYWHEEL WITH GEAR RING

-	FLYWHEEL ASSEMBLY Comprises	572-11691	1	-
-	FLYWHEEL	352-36160	1	-
-	GEAR RING	294-24730	1	-
1	FLYWHEEL ASSEMBLY Comprises	572-11701	-	1
2	FLYWHEEL	353-36180	-	1
3	GEAR RING	294-24730	-	1

STARTER MOTOR BRACKET & FANSHROUD FITTINGS

4	BRACKET - Starter Motor	351-12222	1	1
5	SCREW - 7/16" UNF x 3/4"	270-00709	1	1
6	SPRING WASHER	027-00984	1	1
7	SETSCREW - Fanshroud - 3/8" UNF x 1 1/4"	270-00074	4	4
8	SETSCREW - Fanshroud - 3/8" UNF x 7/8"	270-00072	2	2
9	SETSCREW - Fanshroud - 3/8" UNF x 1 1/8"	270-00305	1	1
10	SPRING WASHER	027-00393	7	7
11	BLANKING PLATE - Starter Motor	351-11950	1	1
12	BOLT - 3/8" UNF x 5/8"	270-00161	3	3
13	SPRING WASHER	027-00393	3	3



HR 21

VARIATIONS FROM BUILD ONE—BUILD 02

**HR2 & 3 BUILD 03 & 04
ONE**

VARIATIONS FROM BUILD

Illus			HR
No.	Description	Part No.	2 3

BUILD 03

GOVERNOR WEIGHTS & SPRINGS

See table on page 72

HIGH SPEED FLYWHEEL

-	FLYWHEEL	352-55100	1	-
1	FLYWHEEL	353-55360	-	1

BUILD 04

GOVERNOR WEIGHTS & SPRINGS

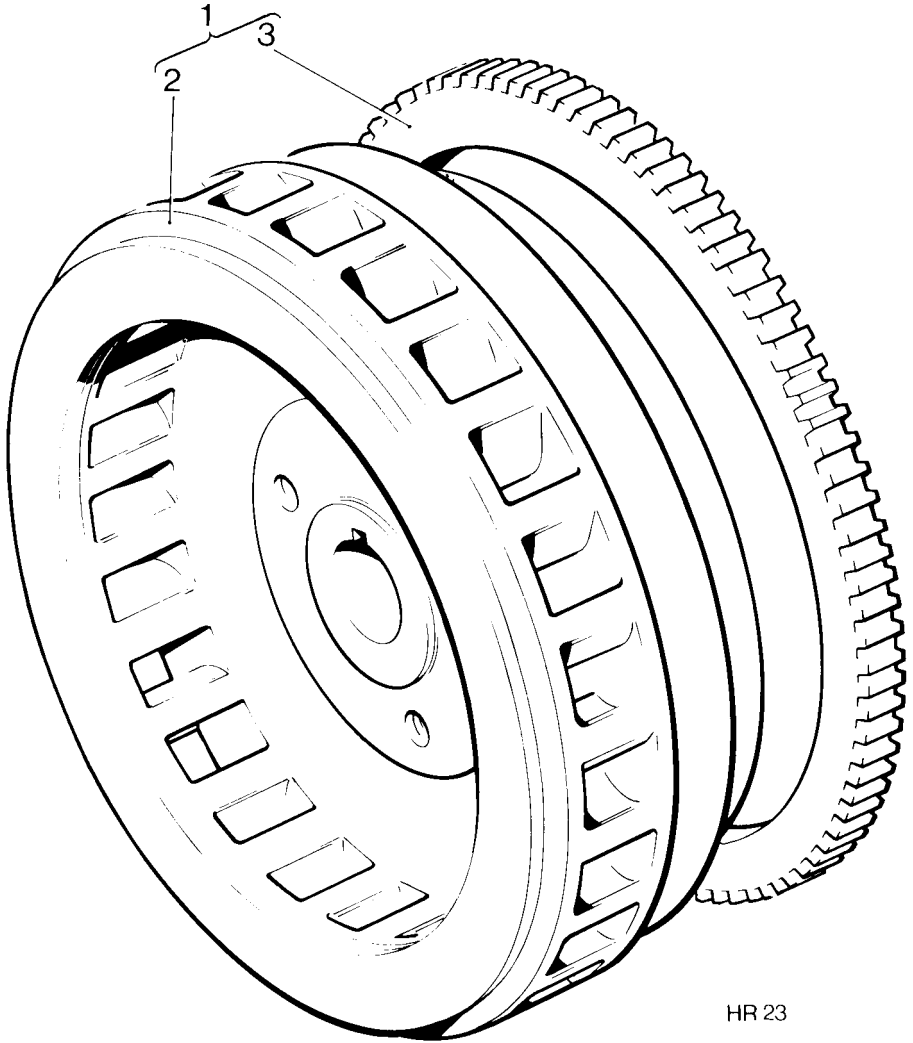
See table on page 72

HIGH SPEED FLYWHEEL & GEAR RING

-	FLYWHEEL ASSEMBLY Comprises	572-51220	1	-
-	FLYWHEEL	352-55100	1	-
-	GEAR RING	294-24730	1	-
1	FLYWHEEL ASSEMBLY Comprises	572-51280	-	1
2	FLYWHEEL	353-55360	-	1
3	GEAR RING	294-24730	-	1

STARTER MOTOR BRACKET & FANSHROUD FITTINGS

SEE BUILD 02	Items 4-13		1	1
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HR 23

VARIATIONS FROM BUILD ONE—BUILD 03 & 04

**HR2 & 3 BUILD 05
ONE**

VARIATIONS FROM BUILD

Illus			HR	
No.	Description	Part No.	2	3

BUILD 05

GOVERNOR WEIGHTS & SPRINGS

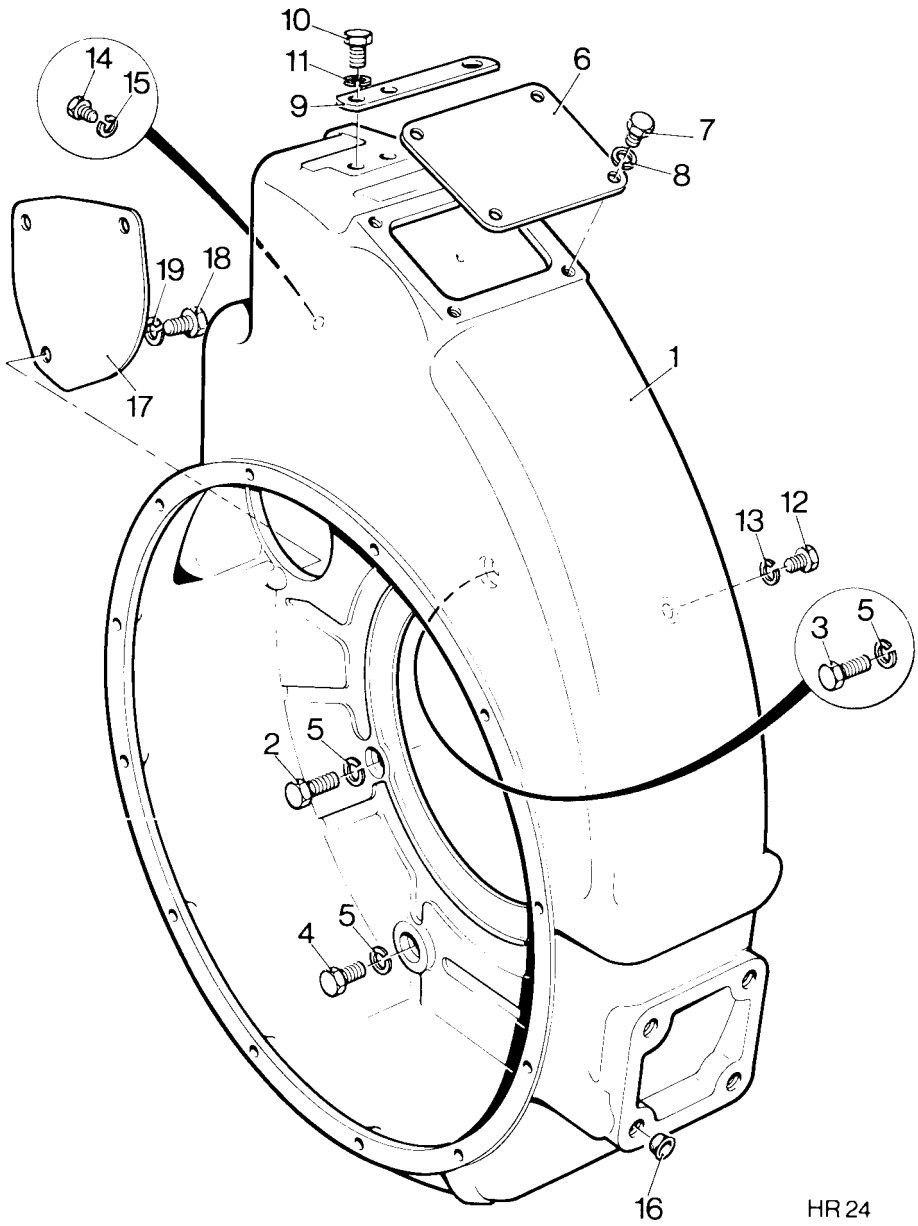
See table on page 72

STANDARD FLYWHEEL WITH GEAR RING

AS BUILD 02 - HR2 Assembly	572-11691	1	-
AS BUILD 02 - HR3 Assembly	572-11701	-	1

SAE1 FLYWHEEL HOUSING

1	FANSHROUD	351-10426	1	1
2	SETSCREW - Fanshroud - 3/8"UNF x 1 1/4"	270-00074	4	4
3	SETSCREW - Fanshroud - 3/8"UNF x 1 1/8"	270-00305	1	1
4	SETSCREW - Fanshroud - 3/8"UNF x 7/8"	270-00072	2	2
5	SPRING WASHER	027-00393	7	7
6	BLANKING PLATE - Oil Cooler	352-16840	1	1
7	BOLT - 1/4"UNC x 1/2"	270-00376	4	4
8	SPRING WASHER	027-00451	4	4
9	TIE STRAP	352-32640	1	1
10	BOLT - 3/8"UNC x 3/4"	270-00551	2	2
11	SPRING WASHER	027-00393	2	2
12	BOLT - 1/4"UNC x 1/2"	270-00376	1	1
13	SPRING WASHER	027-00451	1	1
14	BOLT - 5/16-18"UNC x 1/2"	270-00531	1	1
15	SPRING WASHER	027-00413	1	1
16	PROTECTIVE CAP - Engine bearer facing	027-05826	8	8
17	BLANKING PLATE - Starter Motor Face	351-11950	1	1
18	BOLT - 3/8"UNC x 3/4"	270-00551	3	3
19	SPRING WASHER	027-00393	3	3



HR 24

VARIATIONS FROM BUILD ONE—BUILD 05

**HR2 & 3 BUILD 06 & 07
ONE**

VARIATIONS FROM BUILD

Illus No.	Description	Part No.	HR 2 3
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BUILD 06

GOVERNOR WEIGHTS & SPRINGS

See table on page 72

HIGH SPEED FLYWHEEL

SEE BUILD 03 - HR2	352-55100	1	-
SEE BUILD 03 - HR3	353-55360	-	1

SAE1 FLYWHEEL HOUSING

SEE BUILD 05	Items 1-19	1	1
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BUILD 07

GOVERNOR WEIGHTS & SPRINGS

See table on page 72

HIGH SPEED FLYWHEEL WITH GEAR RING

SEE BUILD 04 - HR2 Assembly	572-51220	1	-
SEE BUILD 04 - HR3 Assembly	572-51280	-	1

SAE1 FLYWHEEL HOUSING

SEE BUILD 05	Items 1-19	1	1
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WICHTIG!

Bei der Beschaffung von Ersatzteilen oder bei Reparaturanweisungen sollte jeder Kunde in seinem eigenen Interesse immer vorschreiben:

Nur echte Lister-Petter Teile

Bei nicht von der Lister-Petter Gruppe gelieferten Teilen ist es unmöglich, sich auf richtige Werkstoffe, Maße oder Oberflächengüte zu verlassen. LISTER-PETTER LTD. lehnen jegliche Garantieverpflichtungen ab, wenn durch die Verwendung derartiger Teile Schäden entstehen. Bei ihrer Benutzung erlischt die Garantie.

In Ihrem eigenen Interesse, schreiben Sie also vor:

NUR ECHTE LISTER-PETTER TEILE

Illus			HR	
No.	Description	Part No.	2	3

BUILD 08

GOVERNOR WEIGHTS & SPRINGS

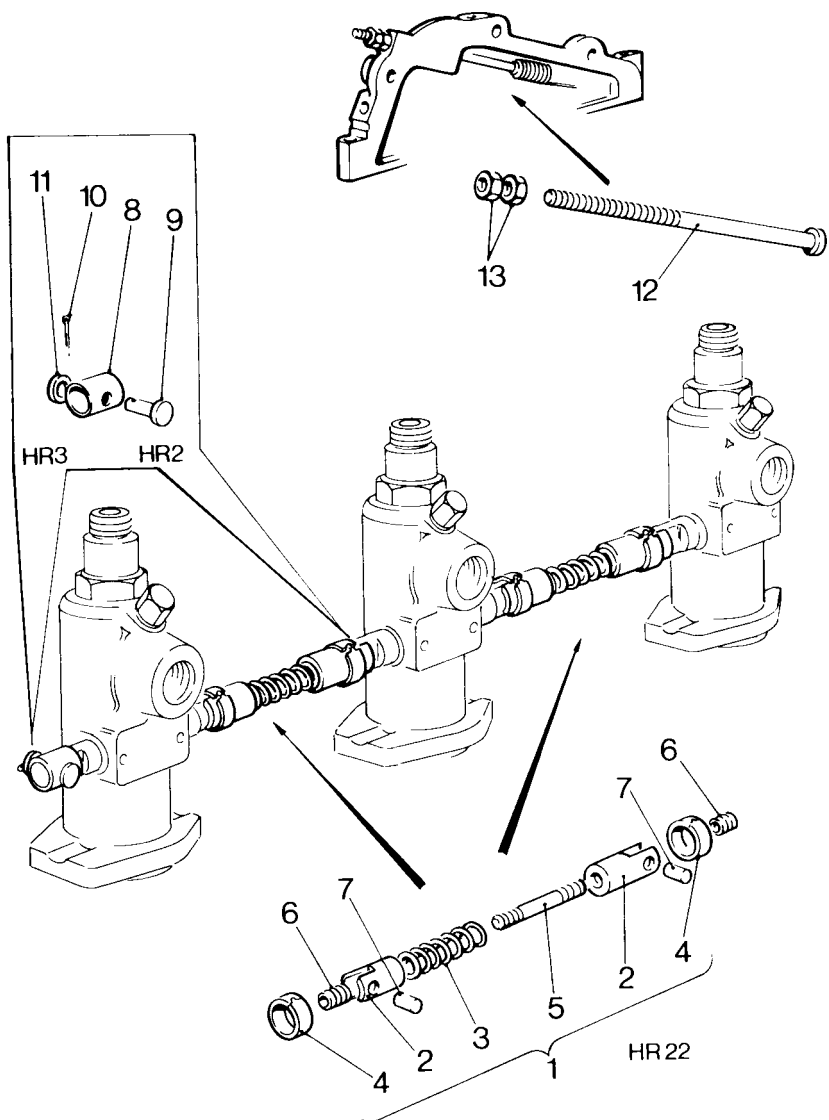
See table on page 72

FUEL PUMP AND TAPPET

1	FUEL PUMP LINKAGE ASSEMBLY Comprises	572-11790	1	2
2	SHACKLE	202-12003	2	4
3	EXTERNAL SPRING	351-11050	1	2
4	SPRING CLIP - Shackle	351-34990	2	4
5	CONNECTING ROD	351-11040	1	2
6	INTERNAL SPRING	202-12020	2	4
7	PIN - Shackle	351-11472	2	4
8	STOP SLEEVE	351-11291	1	1
9	PIN - Stopsleeve	202-13671	1	1
10	SPLIT PIN	027-01986	1	1
11	PLAIN WASHER	064-02580/004	1	1

LINKAGE FITTINGS - Governor to Fuel Pump

12	ADJUSTING SCREW	382-00243	1	1
13	LOCKNUT - 0.19" UNF	270-00001	2	2



VARIATIONS FROM BUILD ONE—BUILD 08

Illus			HR		
No.	Description	Part No.	2	3	

BUILD 09

GOVERNOR WEIGHTS & SPRINGS

See table on page 72

STANDARD FLYWHEEL WITH GEAR RING

SEE BUILD 02 - HR2 Assembly	572-11691	1	-
SEE BUILD 02 - HR3 Assembly	572-11701	-	1

STARTER MOTOR BRACKET & FAN SHROUD FITTINGS

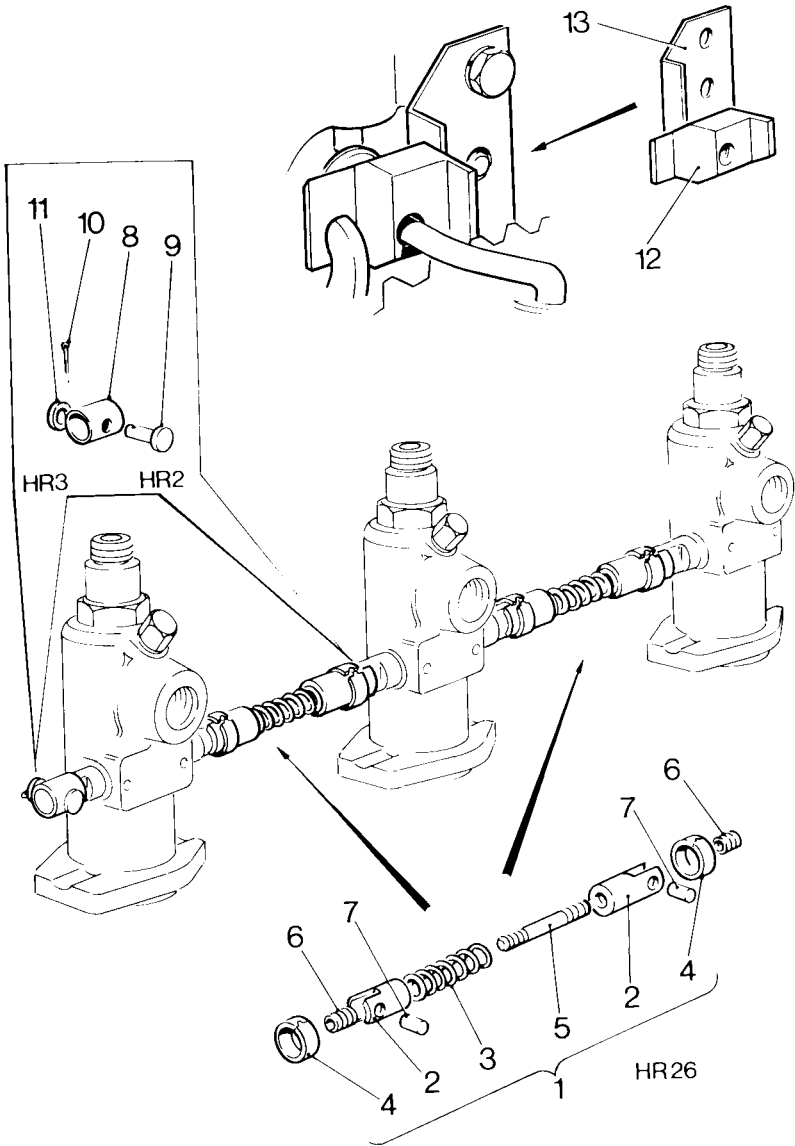
SEE BUILD 02	Items 4-13	1	1
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LINKAGE FITTINGS - Governor to Fuel Pump

SEE BUILD 08	Items 12-13	1	1
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FUEL PUMP, TAPPET AND CAM BLOCK

1	FUEL PUMP LINKAGE ASSEMBLY - Comprising	572-11790	1	2
2	SHACKLE	202-12003	2	4
3	EXTERNAL SPRING	351-11050	1	2
4	SPRING CLIP - Shackle	351-34990	2	4
5	CONNECTING ROD	351-11040	1	2
6	INTERNAL SPRING	202-12020	2	2
7	PIN - Shackle	351-11472	2	2
8	STOPSLEEVE	351-11291	1	1
9	PIN - Stopsleeve	202-13671	1	1
10	SPLIT PIN	027-01986	1	1
11	PLAIN WASHER	064-02580/004	1	1
12	CAM BLOCK	352-37340	1	1
13	LOCKING PLATE	352-37350	1	1



VARIATIONS FROM BUILD ONE—BUILD 09

HR2 & 3 BUILD 10 & 11
ONE

VARIATIONS FROM BUILD

Illus No.	Description	Part No.	HR 2	3
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BUILD 10

GOVERNOR WEIGHTS & SPRINGS

See table on page 72

STANDARD FLYWHEEL WITH GEAR RING

SEE BUILD 02 - HR2 Assembly	572-11691	1	-
SEE BUILD 02 - HR3 Assembly	572-11701	-	1

SAE1 FLYWHEEL HOUSING

SEE BUILD 05	Items 1-19	1	1
--------------------	------------	---	---

LINKAGE FITTINGS - Governor to Fuel Pump

SEE BUILD 08	Items 12-13	1	1
--------------------	-------------	---	---

FUEL PUMP TAPPET & CAM BLOCK

SEE BUILD 09	Items 1-13	1	1
--------------------	------------	---	---

BUILD 11

GOVERNOR WEIGHTS & SPRINGS

See table on page 72

FUEL PUMP & TAPPET

SEE BUILD 08	Items 1-1	1	1
--------------------	-----------	---	---

LINKAGE FITTINGS- Governor to Fuel Pump

SEE BUILD 08	Items 12-13	1	1
--------------------	-------------	---	---

**HR2 & 3 BUILD 12
ONE**

VARIATIONS FROM BUILD

Illus No.	Description	Part No.	HR 2 3
--------------	-------------	----------	-----------

BUILD 12

GOVERNOR WEIGHTS & SPRINGS

See table on page 72

STANDARD FLYWHEEL WITH GEAR RING

SEE BUILD 02 - HR2 Assembly	572-11691	1	-
SEE BUILD 02 - HR3 Assembly	572-11701	-	1

STARTER MOTOR BRACKET & FANSHROUD FITTINGS

SEE BUILD 02	Items 4-13	1	1
--------------------	------------	---	---

LINKAGE FITTINGS - Governor to Fuel Pump

SEE BUILD 08	Items 12-13	1	1
--------------------	-------------	---	---

FUEL PUMP TAPPET & CAM BLOCK

SEE BUILD 09	Items 1-13	1	1
--------------------	------------	---	---

HR2 & 3 BUILD 13
ONE

VARIATIONS FROM BUILD

Illus			HR		
No.	Description	Part No.		2	3

BUILD 13

GOVERNOR WEIGHTS & SPRINGS

See table on page 72

STANDARD FLYWHEEL WITH GEAR RING

SEE BUILD 02 - HR2 Assembly	572-11691	1	-
SEE BUILD 02 - HR3 Assembly	572-11701	-	1

SAE1 FLYWHEEL HOUSING

SEE BUILD 05	Items 1-19	1	1
--------------------	------------	---	---

LINKAGE FITTINGS - Governor to Fuel Pump

SEE BUILD 08	Items 12-13	1	1
--------------------	-------------	---	---

FUEL PUMP TAPPET & CAM BLOCK

SEE BUILD 09	Items 1-13	1	1
--------------------	------------	---	---

IMPORTANTE

Ao comprar peças de reposição ou ao dar instruções, para reparações, os clientes devem, no seu próprio interesse, especificar sempre:

Pecas Genuínas Lister-Petter

As peças que não sejam fornecidas pela organização Lister-Petter não podem merecer confiança pela correcta qualidade do material, dimensões ou acabamentos.

LISTER-PETTER LTD. não pode, portanto, ser responsável por qualquer prejuízo resultante da aplicação de tais peças e qualquer garantia ficará invalidada.

No seu próprio interesse, portanto, especifique:

PEÇAS GENUÍNAS LISTER-PETTER

**HR2 & 3 BUILD 14
ONE**

VARIATIONS FROM BUILD

Illus			HR		
No.	Description	Part No.		2	3

BUILD 14

GOVERNOR WEIGHTS & SPRINGS

See table on page 72

HIGH SPEED FLYWHEEL WITH GEAR RING

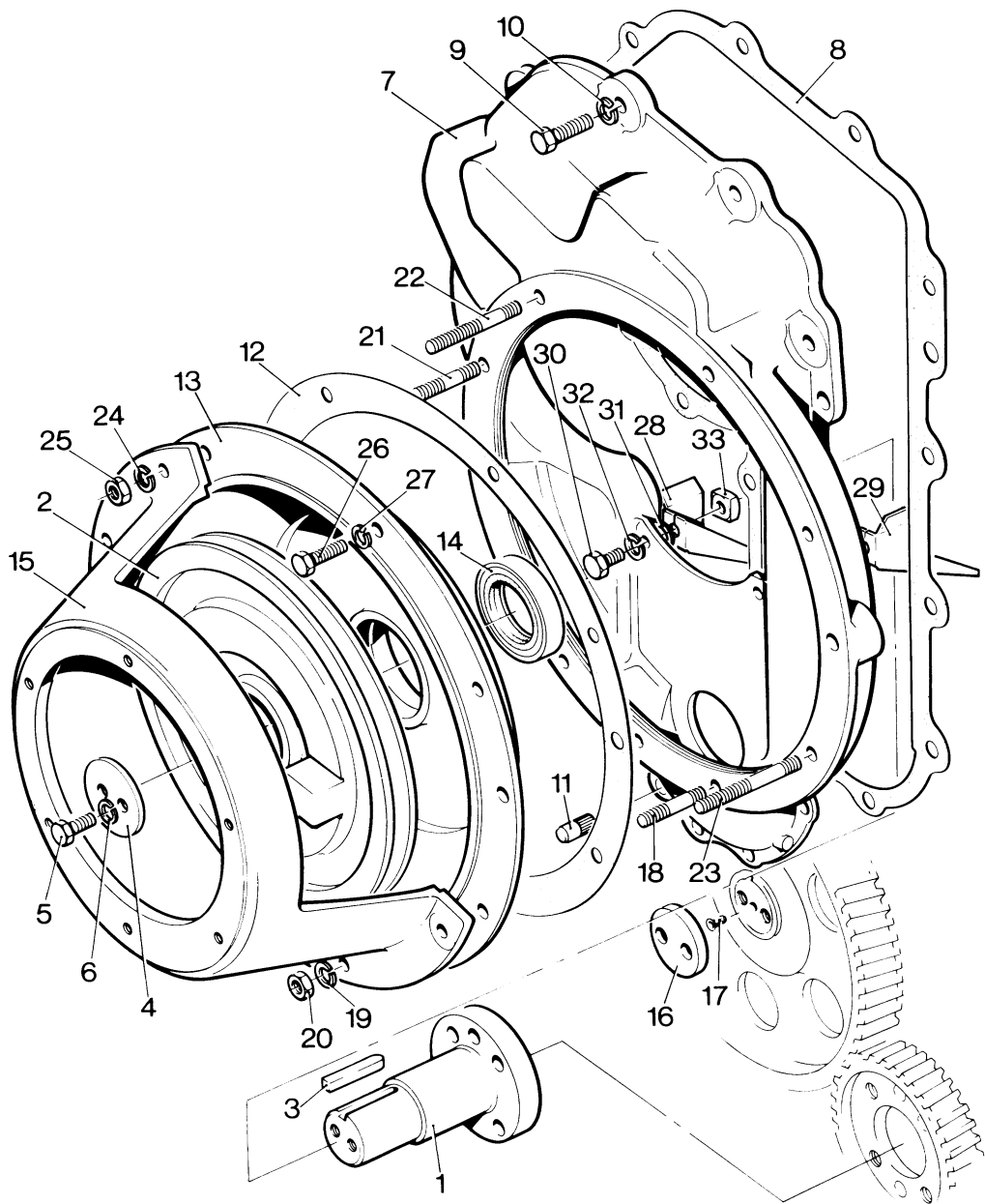
SEE BUILD 04 - HR2 Assembly	572-51220	1	-
SEE BUILD 04 - HR3 Assembly	572-51280	-	1

SAE1 FLYWHEEL HOUSING

SEE BUILD 05	Items 1-19	1	1
--------------------	------------	---	---

HYDRAULIC PUMP DRIVE AND END COVER ADAPTOR

1	SHAFT EXTENSION	382-00910	1	1
2	ALTERNATOR PULLEY AND DRIVING MEMBER	382-04423	1	1
3	KEY	382-00915	1	1
4	RETAINING PLATE	382-00914	1	1
5	BOLT - 1/4"UNF x 5/8"	270-00023	2	2
6	SPRING WASHER	027-00451	2	2
7	END COVER/ADAPTOR	382-05042	1	1
8	JOINT - Adaptor to Crankcase	351-12620	1	1
9	BOLT - 5/16"UNF x 1"	270-00061	14	14
10	SPRING WASHER	027-00413	14	14
11	DOWEL - Adaptor to Crankcase	027-01430	2	2
12	JOINT - Adaptor to Oil Seal Support Plate	351-14010	1	1
13	SUPPORT PLATE - Oil Seal	382-05043	1	1
14	OIL SEAL	210-00659	1	1
15	ADAPTOR CASING	382-04406	1	1
16	LOCATING PLATE - Camshaft Gearwheel	351-10180	1	1
17	PLUG - Camshaft Oil Hole	352-16720	1	1



HR 29A

VARIATION FROM BUILD ONE—Build 14

HR2 & 3 BUILD 14
ONE

VARIATIONS FROM BUILD

Illus			HR	
No.	Description	Part No.	2	3

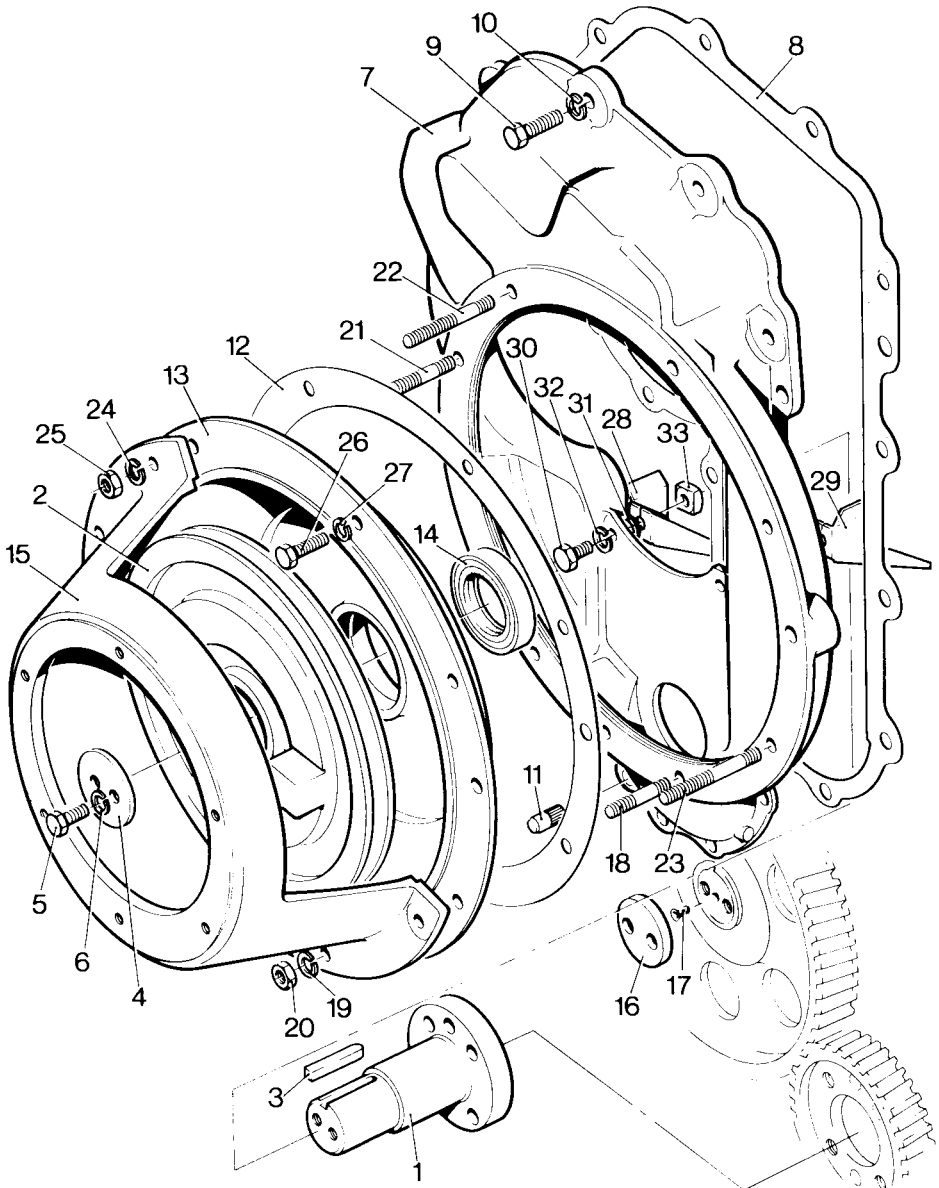
BUILD 14 (Cont.)

FITTINGS FOR GEAR END HYDRAULICS

18	STUD - 5/16"UNF x 1 1/2" }	Bottom	270-00083	3	3
19	SPRING WASHER	Three	027-00413	3	3
20	NUT - 5/16" UNF	Holes	270-00003	3	3
21	STUD - 3/8"UNF x 1 1/2" - Upper left & lower right	.....	270-00089	2	2
22	STUD - 3/8"UNF x 2 1/4" - Top left	.....	270-00336	1	1
23	STUD - 3/8"UNF x 2 1/2" - Bottom right	.....	270-00355	1	1
24	SPRING WASHER	.....	027-00393	4	4
25	NUT - 3/8" UNF	.....	270-00004	4	4
26	BOLT - 3/8"UNF x 7/8" ...	.....	270-00072	2	2
27	SPRING WASHER	.....	027-00393	2	2

OIL RETURN TROUGHS

28	OIL RETURN TROUGH - R.H.	.....	351-14100	1	1
29	OIL RETURN TROUGH - L.H.	.....	351-14090	1	1
30	BOLT - 1/4"UNF x 5/8" ...	.....	270-00023	2	2
31	PLAIN WASHER	.....	027-00618	2	2
32	SPRING WASHER	.....	027-00451	2	2
33	NUT - Special	.....	351-14120	2	2



HR 29A

VARIATION FROM BUILD ONE—Build 14

**HR2 & 3 BUILD 15
ONE**

VARIATIONS FROM BUILD

Illus			HR	
No.	Description	Part No.	2	3

BUILD 15

GOVERNOR WEIGHTS & SPRINGS

See table on page 72

HIGH SPEED FLYWHEEL WITH GEAR RING

SEE BUILD 04 - HR2 Assembly	572-51220	1	-
SEE BUILD 04 - HR3 Assembly	572-51280	-	1

SAE1 FLYWHEEL HOUSING

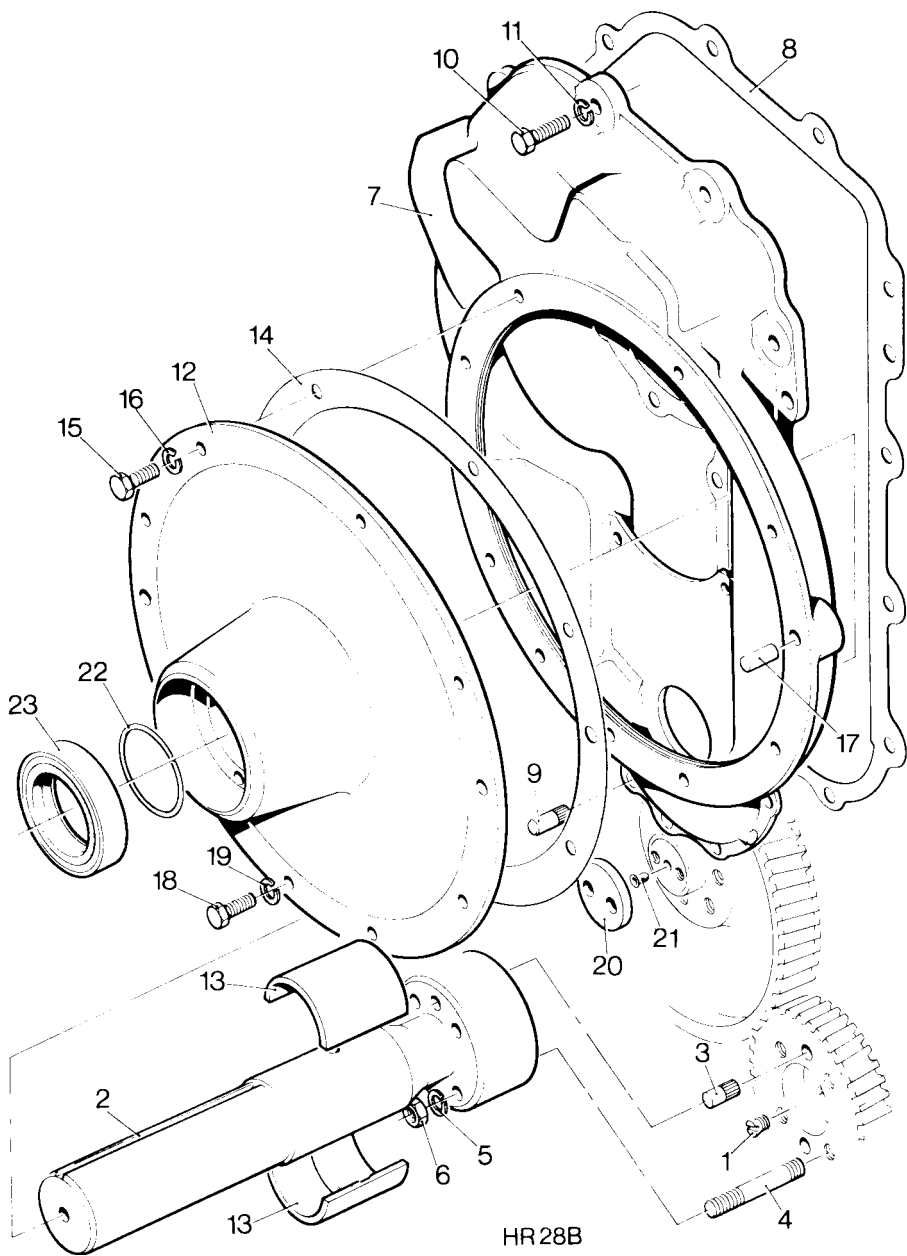
SEE BUILD 05	Items 1-19	1	1
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OIL RETURN TROUGHS

SEE BUILD 14	Items 28-33	1	1
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END COVER ADAPTOR AND BEARING

1	RESTRICTOR - Crankshaft Oil Feed	351-12600	1	1
2	SHAFT EXTENSION	351-13120	1	1
3	DOWEL - For blocking hole in shaft	027-01619	2	2
4	STUD - Shaft Extension	270-00355	4	4
5	SPRING WASHER	027-00393	4	4
6	NUT - 3/8" UNF	270-00004	4	4
7	END COVER ADAPTOR	382-05042	1	1
8	JOINT	351-12620	1	1
9	DOWEL	027-01430	2	2
10	BOLT - 5/16" UNF X 1"	270-00061	14	14
11	SPRING WASHER	027-00413	14	14
12	BEARING HOUSING - Includes	351-15170	1	1
13	BEARING	201-12920	2	2
14	JOINT HOUSING - Adaptor	291-28400	1	1
15	BOLT - 3/8" UNF x 7/8"	270-00072	6	6
16	SPRING WASHER	027-00393	6	6
17	DOWEL	291-25850	2	2
18	BOLT - 5/16" UNF x 3/4"	270-00060	3	3
19	SPRING WASHER	027-00413	3	3
20	LOCATION PLATE - Camshaft Gear Wheel	351-10180	1	1
21	PLUG - Camshaft Oil Hole	352-16720	1	1
22	OIL THROWER	201-80290	1	1
23	OIL SEAL	351-13150	1	1



HR28B

VARIATIONS FROM BUILD ONE—BUILD 15

**HR2 & 3 BUILD 16
ONE**

VARIATIONS FROM BUILD

Illus			HR	
No.	Description	Part No.	2	3

BUILD 16

GOVERNOR WEIGHTS & SPRINGS

See table on page 72

HIGH SPEED FLYWHEEL WITH GEAR RING

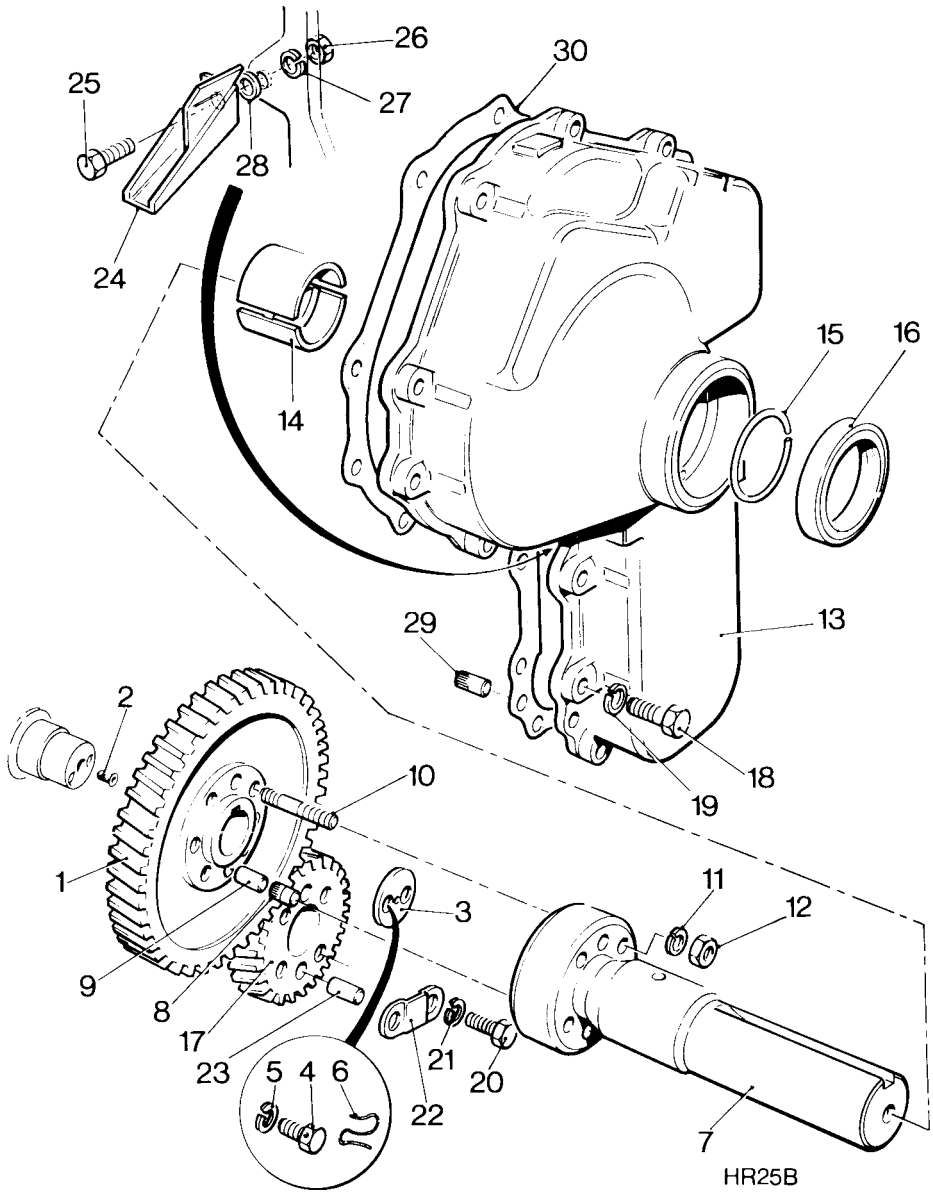
SEE BUILD 04 - HR2 Assembly	572-51220	1	-
SEE BUILD 04 - HR3 Assembly	572-51280	-	1

STARTER MOTOR BRACKET & FANSHROUD FITTINGS

SEE BUILD 02	Items 9-13	1	1
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2:1 REDUCTION GEAR

1	GEAR WHEEL - Camshaft	352-12770	1	1
2	PLUG - Camshaft Oil Hole	352-16720	1	1
3	LOCATING PLATE - Gear Wheel	351-13140	1	1
4	SETSCREW - Locating Plate	351-26800	2	2
5	SPRING WASHER	027-00413	2	2
6	LOCKING WIRE - Set Screws			
7	HALF SPEED SHAFT	351-13120	1	1
8	DOWEL	027-01619	2	2
9	DOWEL	351-10300	2	2
10	STUD - 3/8"UNF x 2 1/4"... ..	270-00336	4	4
11	SPRING WASHER	027-00393	4	4
12	NUT - 3/8"UNF	270-00004	4	4
13	GEAR COVER & SHAFT HOUSING Includes	351-13110	1	1
14	BEARING	201-12920	2	2
15	OIL THROWER	201-80290	1	1
16	OIL SEAL	351-13150	1	1
17	PINION - Crankshaft	352-12780	1	1
18	SETSCREW - Gear Cover - 5/16"UNF x 1"	270 00061	14	14
19	SPRING WASHER - Gear Cover	027-00413	14	14
20	BOLT - Crankshaft Pinion - 3/8"UNF x 1 1/8"	270-00305	4	4
21	SPRING WASHER	027-00413	4	4
22	LOCATING PLATE - Dowel	351-14980	2	2
23	DOWEL	351-10300	1	1
-	TROUGH - R.H.	351-14100	1	1
24	TROUGH - L.H.	351-14090	1	1



VARIATIONS FROM BUILD ONE—BUILD 16

HR2 & 3 BUILD 16
ONE

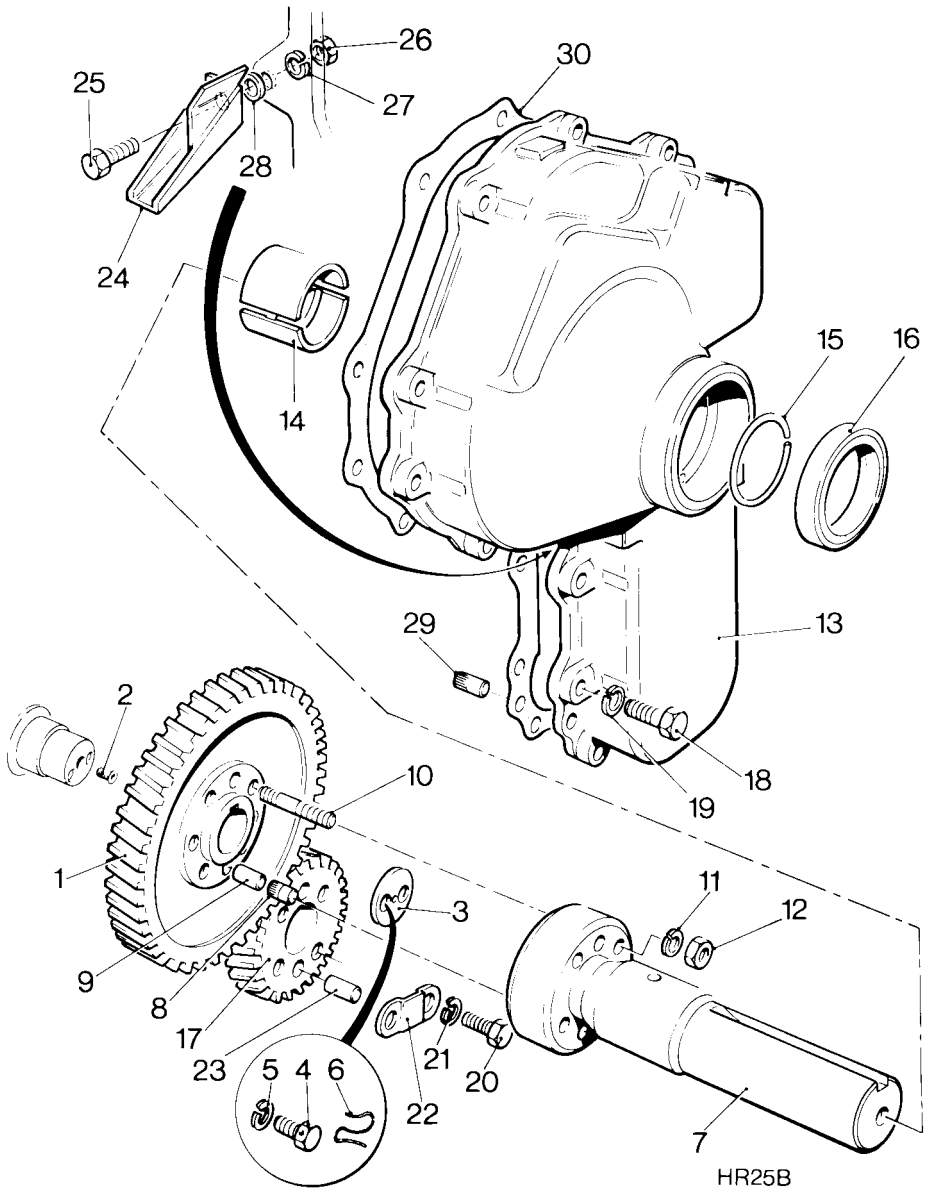
VARIATIONS FROM BUILD

Illus No.	Description	Part No.	HR	2	3
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BUILD 16 (Cont.)

2:1 REDUCTION GEAR (Cont.)

25	SETSCREW - 1/4"UNF x 5/8"	270-00023	2	2	
26	NUT - 1/4"UNF	270-00002	2	2	
27	SPRING WASHER	027-00451	2	2	
28	PLAIN WASHER	027-00618	2	2	
29	DOWEL - Gear Cover	027-01430	2	2	
30	JOINT - Gear Cover	351-12620	1	1	



VARIATIONS FROM BUILD ONE—BUILD 16

**HR3 BUILD 18
ONE**

VARIATIONS FROM BUILD

Illus			HR
No.	Description	Part No.	2 3

BUILD 18

GOVERNOR WEIGHTS & SPRINGS

See table on page 72

HIGH SPEED FLYWHEEL WITH GEAR RING

SEE BUILD 04 Assembly 572-51280 - 1

SAE1 FLYWHEEL HOUSING

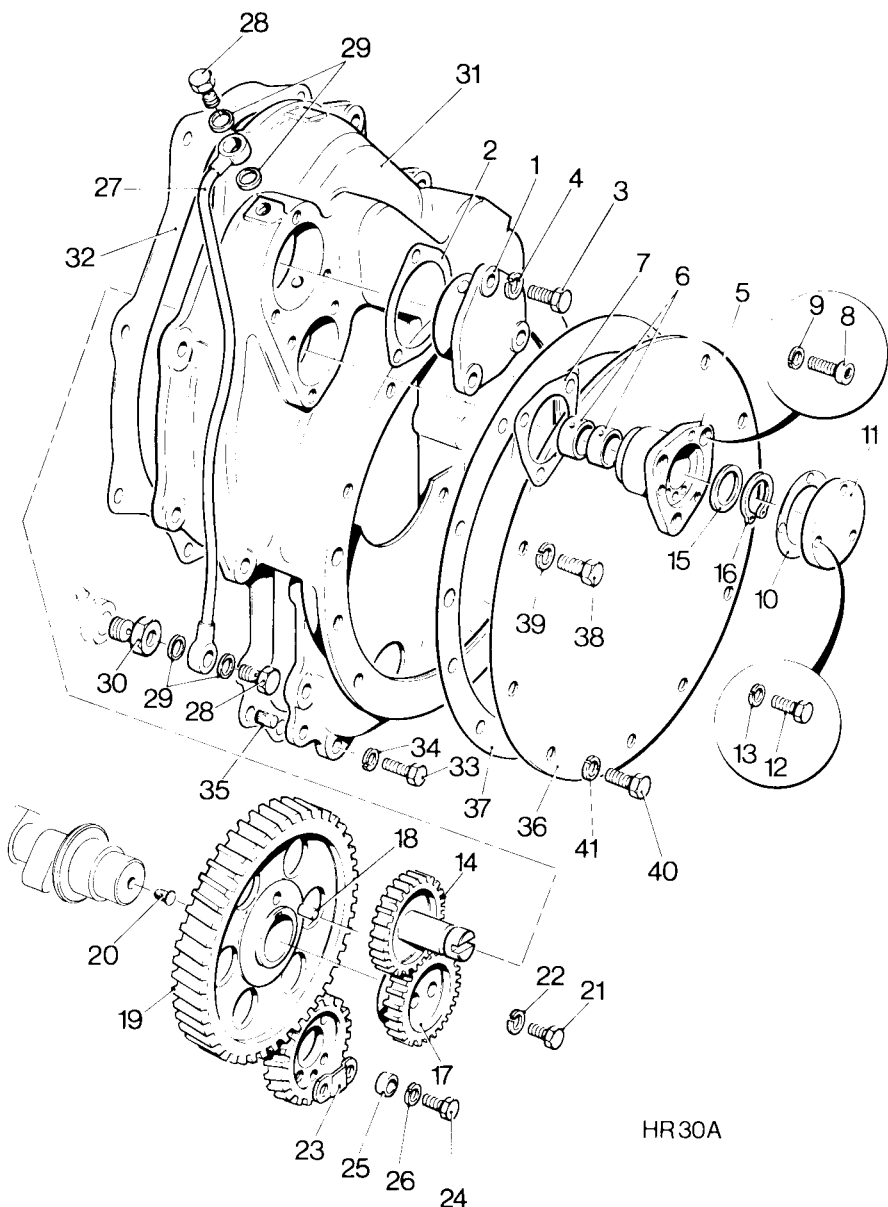
SEE BUILD 05 Items 1-19 - 1

OIL RETURN TROUGHS

SEE BUILD 14 Items 28-33 - 1

ADDITIONAL PARTS FOR MARINE PROPULSION ENGINES

1	BLANKING PLATE	351-15890	-	1
2	JOINT	351-13700	-	1
3	BOLT - 1/4" UNF x 5/8"	270-00023	-	3
4	SPRING WASHER	027-00451	-	3
5	DRIVE HOUSING	351-13620	-	1
6	BUSH	351-13730	-	2
7	JOINT	351-13690	-	1
8	SOCKET CAP SCREW - No. 10 UNF x 1/2"	270-00299	-	3
9	SPRING WASHER	064-02582/002	-	3
10	JOINT	294-36420	-	1
11	BLANKING PLATE	351-21380	-	1
12	BOLT - Special	351-13720	-	3
13	SPRING WASHER	064-02582/001	-	3
14	GEAR WHEEL - Tachometer	351-13600	-	1
15	RETAINING RING	351-13680	-	1
16	CIRCLIP	292-12000	-	1
17	DRIVING GEAR	351-13590	-	1
18	DOWEL - Driving Gear	351-13670	-	1
19	GEARWHEEL - Camshaft	351-10722	-	1
20	PLUG - Camshaft Oil Hole	352-16720	-	1



HR30A

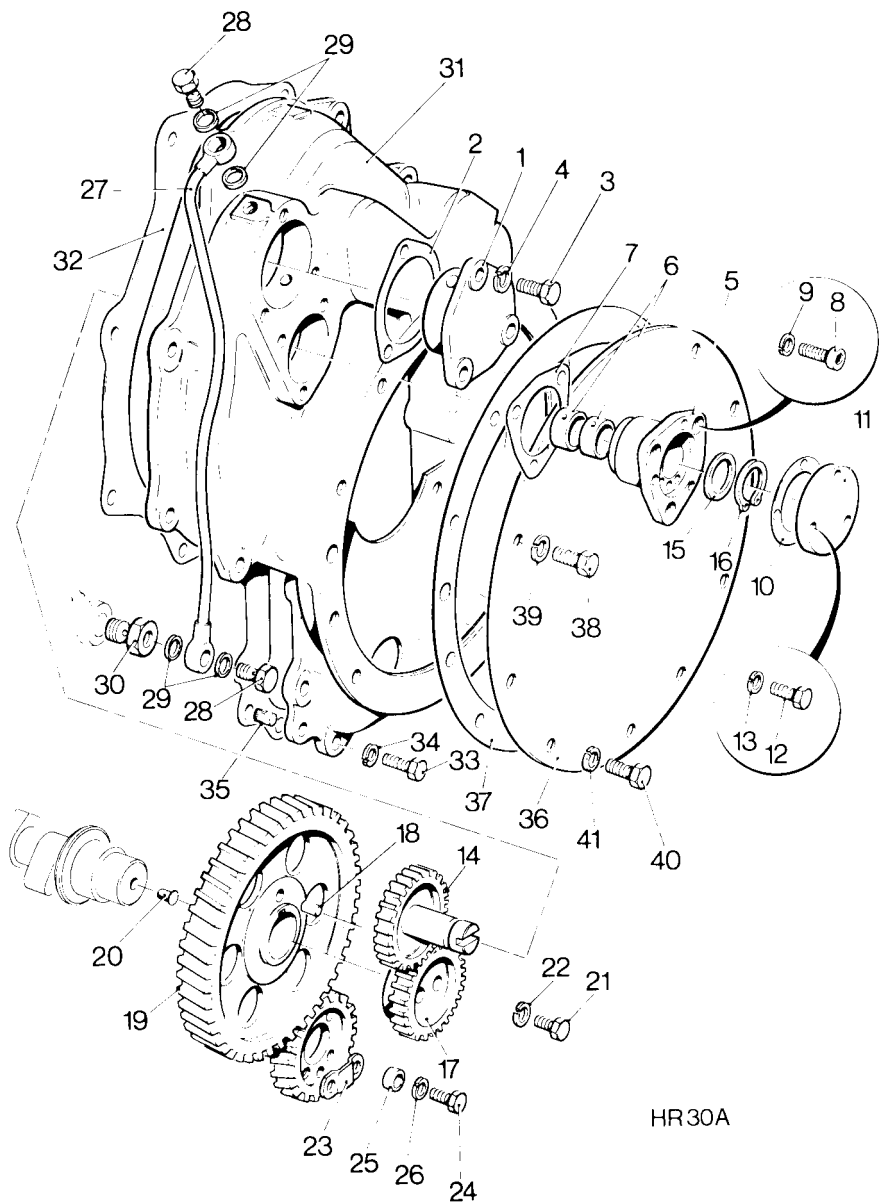
VARIATION FROM BUILD ONE—BUILD 18

Illus			HR
No.	Description	Part No.	2 3

BUILD 18 (Cont.)

ADDITIONAL PARTS FOR MARINE PROPULSION ENGINES (Cont.)

21	BOLT	270-00024	- 2
22	SPRING WASHER	027-00413	- 2
23	RETAINING PLATE	351-14980	- 2
24	SETSCREW - Pinion to Crankshaft - 3/8" UNF x 1 1/8"	270-00305	- 4
25	DISTANCE PIECE	390-01040	- 4
26	SPRING WASHER	027-00393	- 4
27	OIL FEED PIPE ASSEMBLY	351-18990	- 1
28	SWIVEL UNION PLUG	842-00359	- 2
29	COPPER WASHER	600-00106	- 4
30	SWIVEL UNION PLUG	291-28350	- 1
31	ADAPTOR - End Cover	382-05713	- 1
32	JOINT	351-12620	- 1
33	BOLT - Adaptor to Crankcase	270-00061	- 14
34	SPRING WASHER	027-00413	- 14
35	DOWEL - End Cover Adaptor to Crankcase	027-01430	- 2
36	BLANKING PLATE - End Cover	382-06787	- 1
37	JOINT - Blanking Plate	351-14010	- 1
38	BOLT - 3/8" UNF x 5/8"	270-00161	- 6
39	SPRING WASHER	027-00393	- 6
40	BOLT - 5/16" UNF x 1/2"	270-00058	- 3
41	SPRING WASHER	027-00413	- 3



VARIATION FROM BUILD ONE—BUILD 18

**HR3 BUILD 19
ONE**

VARIATIONS FROM BUILD

Illus No.	Description	Part No.	HR 2 3
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BUILD 19

GOVERNOR WEIGHTS & SPRINGS

See table on page 72

SAE1 FLYWHEEL HOUSING

SEE BUILD 05 Items 1-19 1

HIGH SPEED FLYWHEEL WITH GEAR RING

SEE BUILD 04 Assembly 572-51280 1

OIL RETURN TROUGHS

SEE BUILD 14 Items 28-33 1

ADDITIONAL PARTS FOR LLOYDS SURVEY ENGINE

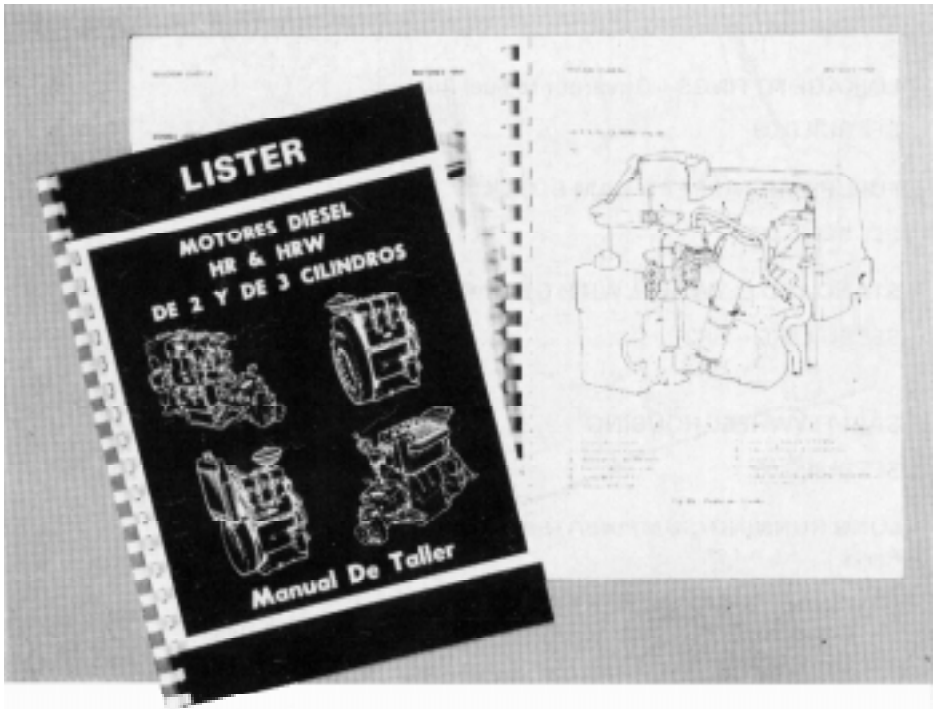
CRANKSHAFT ASSEMBLY	572-50231	1
CYLINDER BARREL	353-80972	3
CYLINDER HEAD ASSEMBLY Comprises	572-50164	3
CYLINDER HEAD (Lloyds Survey)		3
TOP PLATE (Lloyds Survey)		3
Plus items 3-10 Build 01		

ADDITIONAL PARTS FOR MARINE PROPULSION ENGINE

SEE BUILD 18 Items 1-41 1

PUBLICACION AFIN

El Manual de Taller

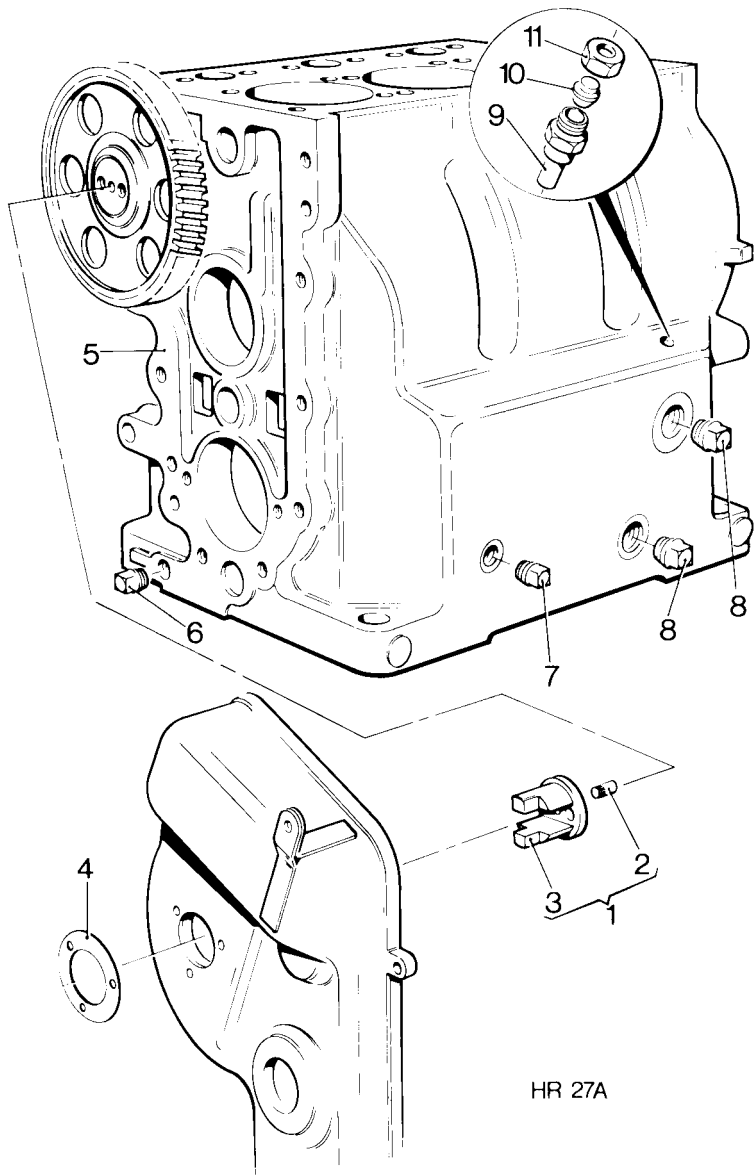


Obtenible de
su distribuidor Lister-Petter

**HR2 & 3 BUILD 20
ONE**

VARIATIONS FROM BUILD

Illus No.	Description	Part No.	HR	
			2	3
BUILD 20				
GOVERNOR WEIGHTS & SPRINGS				
See table on page 72				
LINKAGE FITTINGS - Governor to Fuel Pump				
	SEE BUILD 08	Items 12-13	1	1
FUEL PUMP TAPPET & CAM BLOCK				
	SEE BUILD 09	Items 1-13	1	1
STANDARD FLYWHEEL WITH GEAR RING				
	SEE BUILD 02 - HR2 Assembly	572-11691	1	-
	SEE BUILD 02 - HR3 Assembly	572-11701	-	1
SAE1 FLYWHEEL HOUSING				
	SEE BUILD 05	Items 1-19	1	1
LONG RUNNING/SUMP HEATER - Additional Parts				
1	CAMSHAFT LOCATING PLATE ASSEMBLY Comprises	382-04819	1	1
2	DOWEL	027-01224	1	1
3	DRIVING DOG	382-04812	1	1
4	JOINT - Adaptor	351-11420	1	1
-	CRANKCASE - HR2	352-50012	1	-
5	CRANKCASE - HR3	353-50012	-	1
6	TAPER PLUG - 3/8"BSP	027-00469	1	1
7	TAPER PLUG - 1/2"BSP	027-00140	1	1
8	TAPER PLUG - 1 1/4"BSP	027-04520	2	2
9	VENT PIPE ADAPTOR	027-04569	1	1
10	BLANK NIPPLE	351-30100	1	1
11	UNION NUT	027-01948	1	1



VARIATIONS FROM BUILD ONE – Build 20 © 1983

**HR2 & 3 BUILD 21
ONE**

VARIATIONS FROM BUILD

Illus			HR	
No.	Description	Part No.	2	3

BUILD 21

GOVERNOR WEIGHTS & SPRINGS

See table on page 72

STANDARD FLYWHEEL WITH GEAR RING

SEE BUILD 02 - HR2 Assembly	572-11691	1	-
SEE BUILD 02 - HR3 Assembly	572-11701	-	1

SAE1 FLYWHEEL HOUSING

SEE BUILD 05	Items 1-19	1	1
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LINKAGE FITTINGS - Governor to Fuel Pump

SEE BUILD 08	Items 12-13	1	1
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FUEL PUMP TAPPET & CAM BLOCK

SEE BUILD 09	Items 1-13	1	1
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ADDITIONAL PARTS FOR LLOYDS SURVEY ENGINE

CRANKSHAFT - HR2 Assembly	572-50221	1	-
CRANKSHAFT - HR3 Assembly	572-50231	-	1
CYLINDER BARREL	353-80972	2	3
CYLINDER HEAD ASSEMBLY Comprises	572-50164	2	3
CYLINDER HEAD (Lloyds Survey)		2	3
TOP PLATE (Lloyds Survey)		2	3
Plus items 3-10 Build 01			

**HR2 & 3 BUILD 22
ONE**

VARIATIONS FROM BUILD

Illus			HR	
No.	Description	Part No.	2	3

BUILD 22

GOVERNOR WEIGHTS & SPRINGS

See table on page 72

STANDARD FLYWHEEL WITH GEAR RING

SEE BUILD 02 - HR2 Assembly	572-11691	1	-
SEE BUILD 02 - HR3 Assembly	572-11701	-	1

SAE1 FLYWHEEL HOUSING

SEE BUILD 05	Items 1-19	1	1
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LINKAGE FITTINGS - Governor to Fuel Pump

SEE BUILD 08	Items 12-13	1	1
--------------------	-------------	---	---

FUEL PUMP TAPPET & CAM BLOCK

SEE BUILD 09	Items 1-13	1	1
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ADDITIONAL PARTS LLOYDS SURVEY ENGINE

CRANKSHAFT - HR2 Assembly	572-50221	1	-
CRANKSHAFT - HR3 Assembly	572-50231	-	1
CYLINDER BARREL	353-80972	2	3
CYLINDER HEAD ASSEMBLY Comprising	572-50164	2	3
CYLINDER HEAD (Lloyds Survey)		2	3
TOP PLATE (Lloyds Survey)		2	3
Plus items 3-10 Build 01			

**HR2 & 3 BUILD 23
ONE**

VARIATIONS FROM BUILD

Illus			HR		
No.	Description	Part No.		2	3

BUILD 23

GOVERNOR WEIGHTS & SPRINGS

See table on page 72

HIGH SPEED FLYWHEEL WITH GEAR RING

SEE BUILD 04 - HR2 Assembly	572-51220	1	-
SEE BUILD 04 - HR3 Assembly	572-51280	-	1

FUEL PUMP TAPPET & CAM BLOCK

SEE BUILD 09	Items 1-13	1	1
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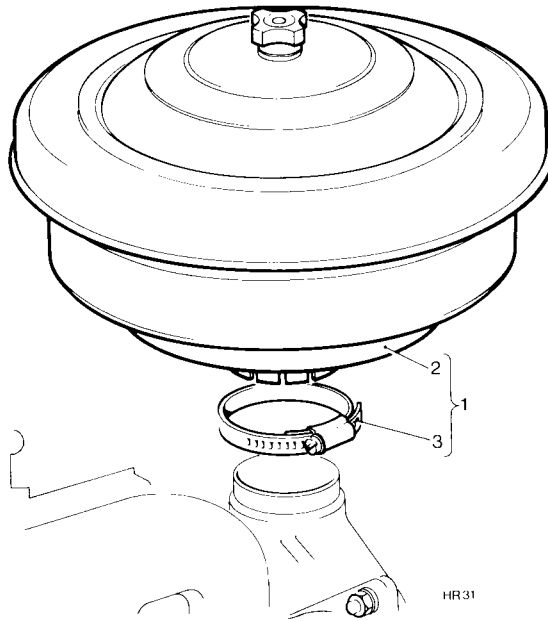
GOVERNOR TO FUEL PUMP LINKAGE

SEE BUILD 08	Items 12-13	1	1
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SAE1 FLYWHEEL HOUSING

SEE BUILD 05	Items 1-19	1	1
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HR2 & 3 CODE AA



OIL BATH AIR CLEANER

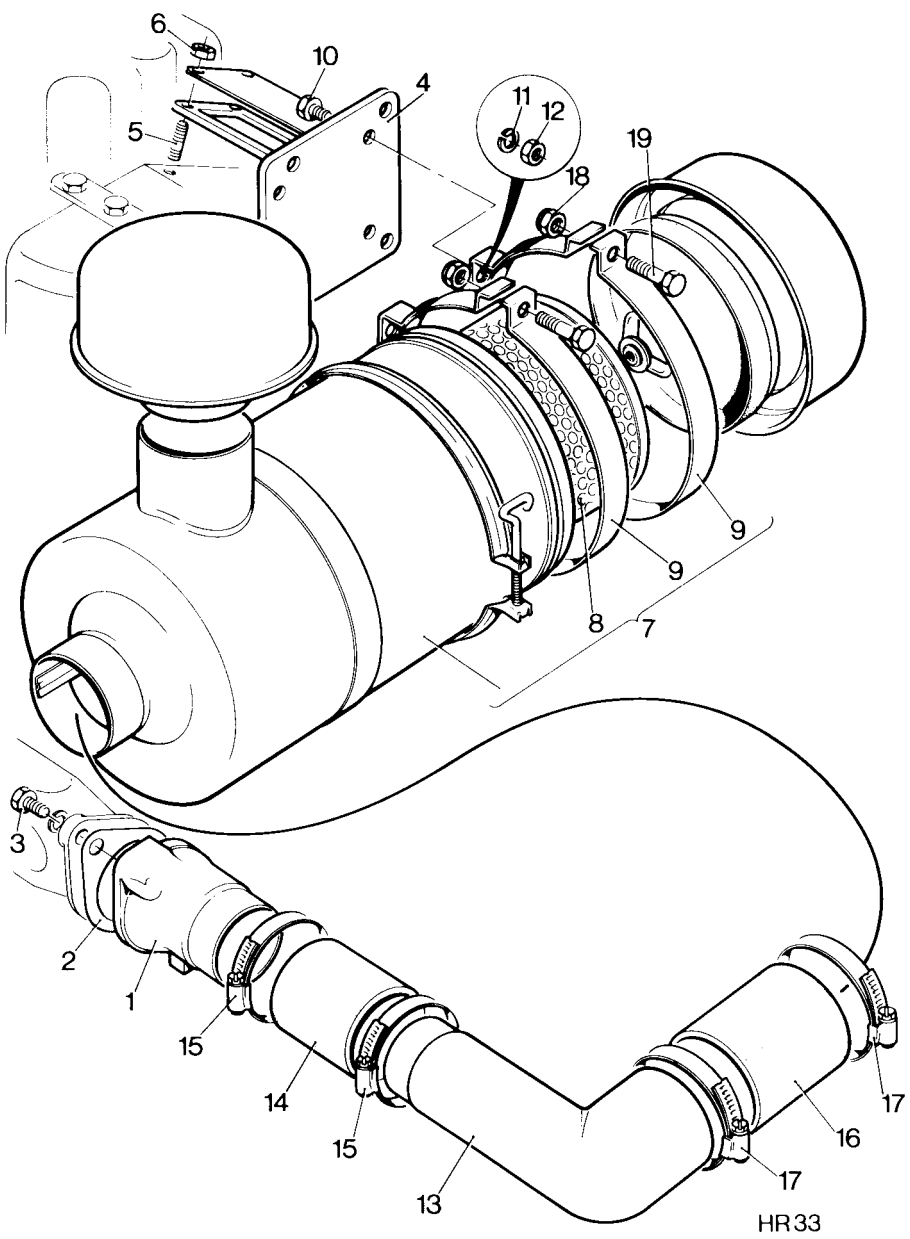
Illus No.	Description	Part No.	HR	
			2	3
1	OIL BATH AIR CLEANER	Code AA	1	1
2	AIR CLEANER Includes	027-04315	1	1
-	ELEMENT	027-03861	1	1
3	CLIP	027-04234	1	1

HR2 & 3 CODE AB & AG

Illus No.	Description	Part No.	HR	
			2	3
8" (203mm) DIA. CYCLOPAC AIR CLEANER				
-	AIR CLEANER COMPLETE	Code AB	1	1
1	AIR INLET MANIFOLD ADAPTOR	382-06795	1	1
2	JOINT	353-41470	1	1
3	BOLT - 3/8" UNC x 1 1/4"	270-00349	1	1
4	MOUNTING BRACKET	382-06797	1	1
5	STUD - 1/4" UNF/UNC x 1 1/8"	270-00380	4	4
6	NUT - 1/4" UNF	270-00002	4	4
7	CYCLOPAC AIR CLEANER - Includes	382-03904	1	1
8	ELEMENT	027-05421	1	1
9	MOUNTING BAND	382-04382	2	2
10	SETScrew - 5/16" UNF x 7/8" } Cleaner to	270-00024	4	4
11	SPRING WASHER } Mounting	027-00413	4	4
12	NUT - 5/16" UNF } Bracket	270-00003	4	4
13	ELBOW ADAPTOR	382-06796	1	1
14	HOSE	027-02298	1	1
15	CLIP	027-04234	2	2
16	HOSE	382-00870	1	1
17	CLIP	027-04594	2	2
18	NUT - Self Locking - 5/16" UNF } Replaces Screw & Nut in	270-00154	2	2
19	BOLT - 5/16" UNF x 1 3/4" } Cleaner Mounting Band	270-00064	2	2

AIR INLET MANIFOLD ADAPTOR

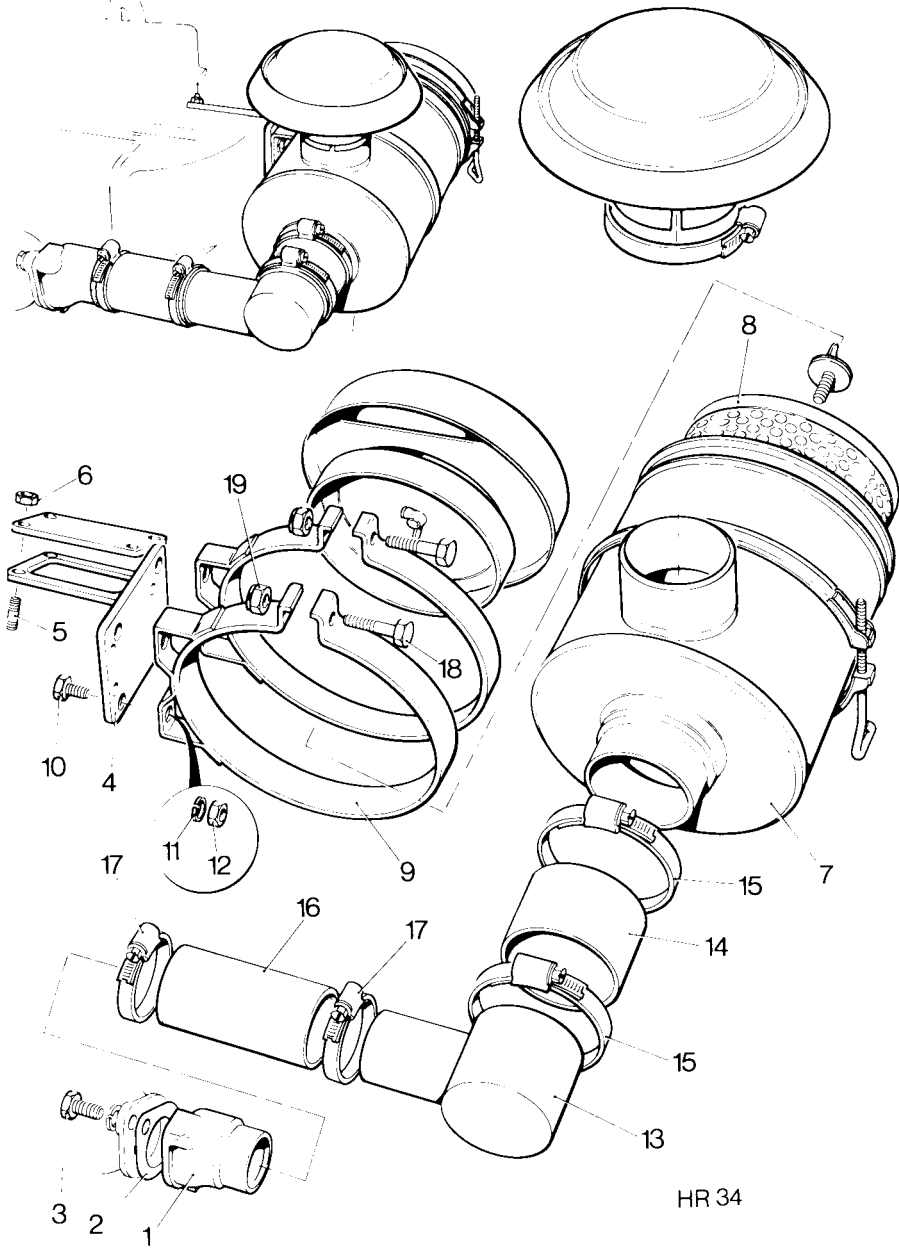
-	AIR INLET MANIFOLD ADAPTOR COMPLETE	Code AG	1	1
1	AIR INLET MANIFOLD ADAPTOR	382-06795	1	1
2	JOINT	353-41470	1	1
3	BOLT - 3/8" UNC x 1 1/4"	270-00349	1	1



8" (203mm) DIA. CYCLOPAC AIR CLEANER

HR3 CODE AC

Illus No.	Description	Part No.	HR	
			2	3
10" (254mm) DIA. CYCLOPAC AIR CLEANER				
-	CYCLOPAC AIR CLEANER COMPLETE	Code AC	-	1
1	ADAPTOR - Air Inlet Manifold	382-06795	-	1
2	JOINT	353-41470	-	1
3	BOLT - 3/8" UNC x 1 1/4"	270-00349	-	1
4	BRACKET	382-06797	-	1
5	STUD - 1/4" UNF/UNC x 1 1/8"	270-00380	-	4
6	NUT - 1/4" UNF	270-00002	-	4
7	CYCLOPAC AIR CLEANER - Including	382-04227	-	1
8	ELEMENT	027-05568	-	1
9	MOUNTING BAND	382-04389	-	1
10	SETScrew - 3/8" UNF x 1" } Cleaner to	270-00073	-	4
11	SPRING WASHER } Mounting	027-00393	-	4
12	NUT - 3/8" UNF } Bracket	270-00004	-	4
13	ELBOW ADAPTOR	382-04323	-	1
14	HOSE	382-04320	-	1
15	CLIP	027-04856	-	2
16	HOSE	027-04695	-	1
17	CLIP	027-04234	-	2
18	BOLT - 5/16" UNF x 1 3/4" } Replaces Screw	270-00064	-	2
19	NUT - Self Locking } & Nut in Cleaner	270-00154	-	2
-	NUT - 5/16" UNF } Mounting Band			

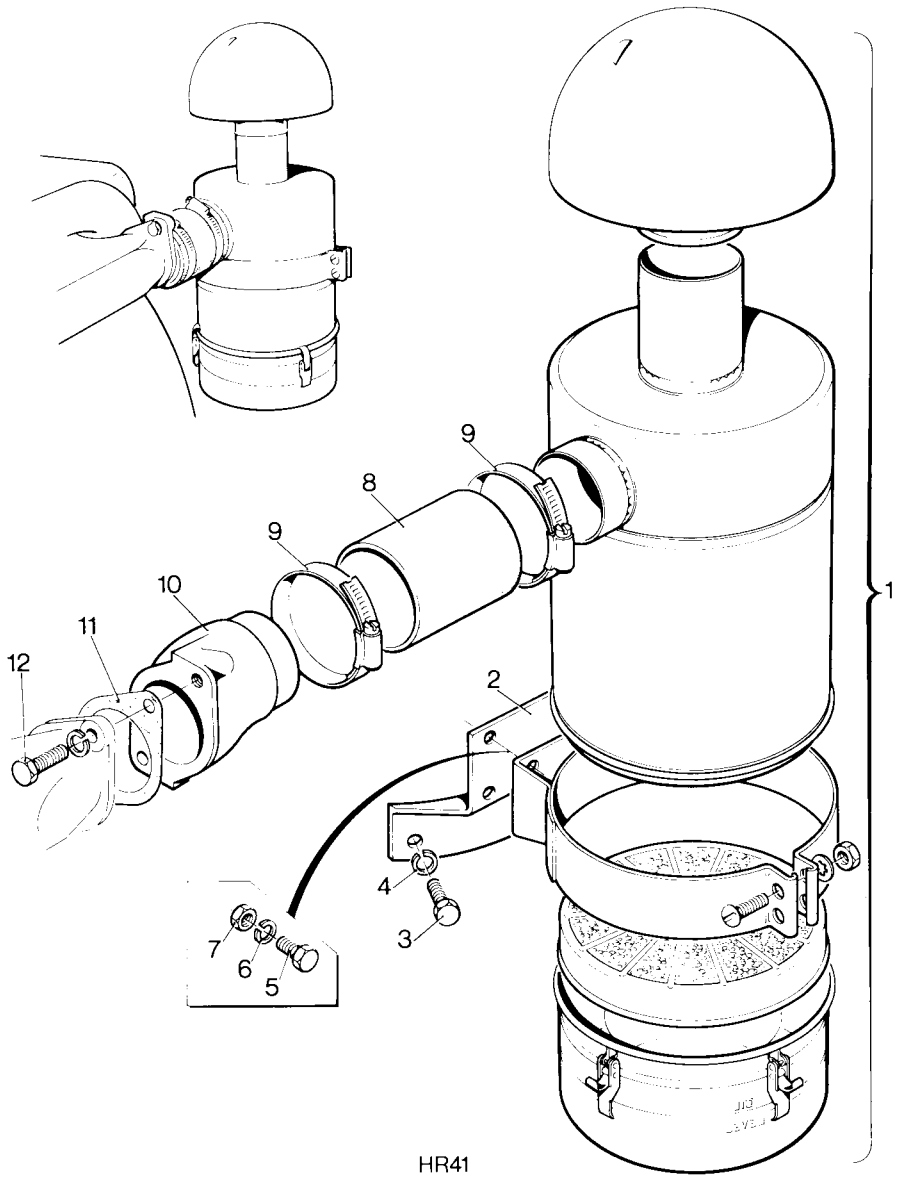


HR 34

10" (254mm) DIA. CYCLOPAC AIR CLEANER

HR2 & 3 CODE AD

Illus No.	Description	Part No.	HR	
			2	3
7" BURGESS AIR FILTER - Sheet Metal Fanshroud				
-	BURGESS AIR FILTER COMPLETE	Code AD	1	1
1	BURGESS AIR FILTER	296-37930	1	1
2	BRACKET	382-01956	1	1
3	BOLT - 5/16" UNF x 3/4" } Bracket to	270-00060	2	2
4	SPRING WASHER } Fanshroud	027-00413	2	2
5	BOLT - 5/16" UNF x 3/4" } Air Filter	270-00060	4	4
6	SPRING WASHER } to Bracket	027-00413	4	4
7	NUT - 5/16" UNF	270-00003	4	4
8	HOSE	027-04000	1	1
9	CLIP	027-04235	2	2
10	ADAPTOR - Manifold	382-06795	1	1
11	JOINT	353-41470	1	1
12	BOLT - 3/8" UNC x 1 1/4"	270-00349	1	1

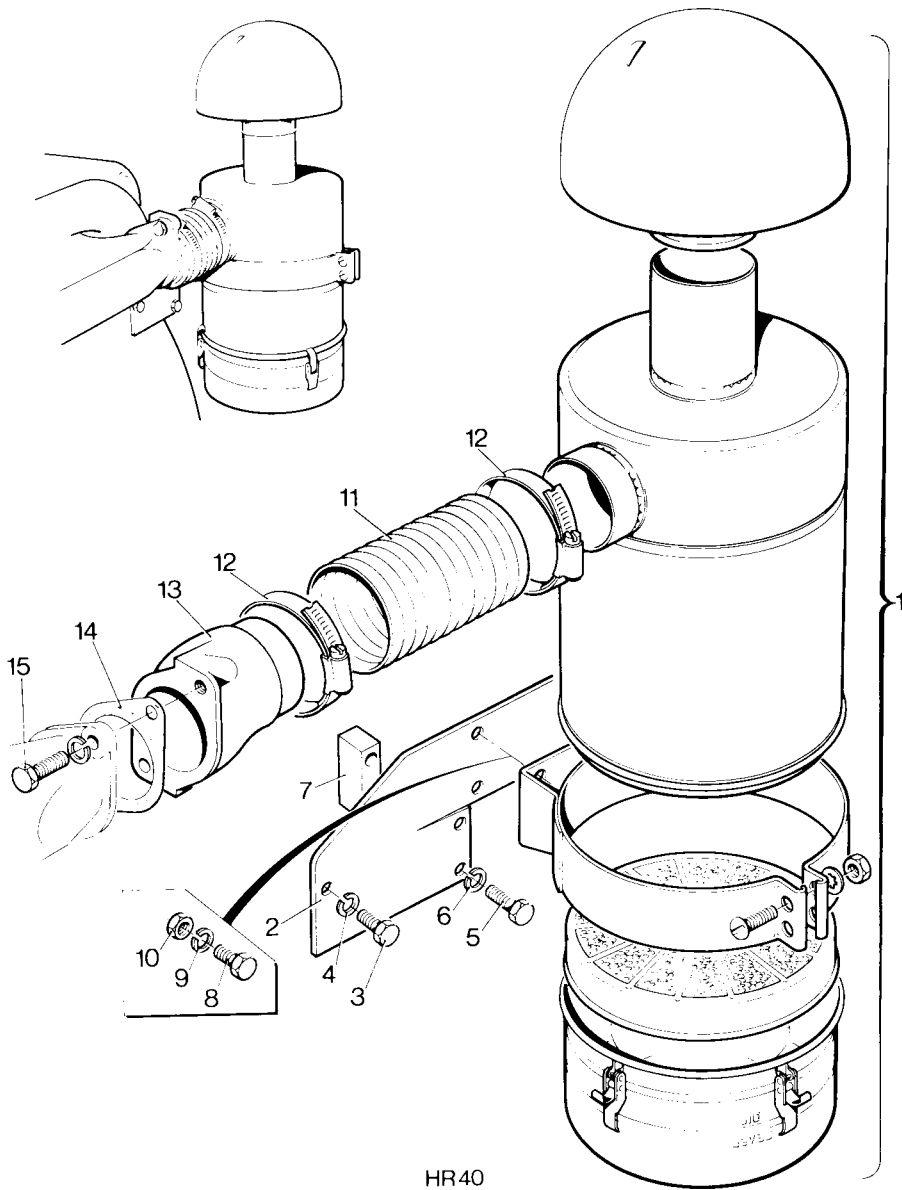


HR41

7" BURGESS AIR FILTER—Sheet Metal Fanshroud

HR2 & 3 CODE AE

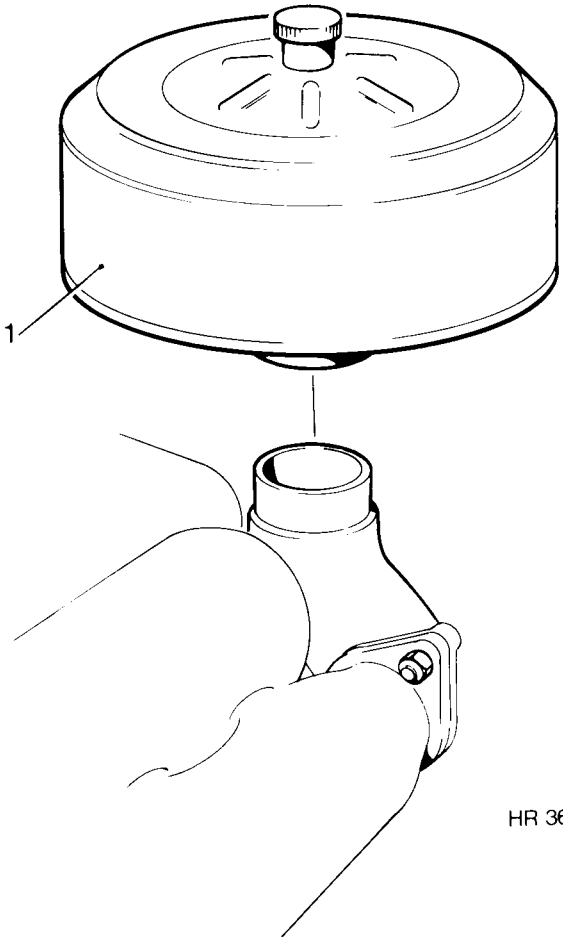
Illus No.	Description	Part No.	HR	
			2	3
7" BURGESS AIR FILTER - Cast Iron Fanshroud				
-	BURGESS AIR FILTER COMPLETE	Code AE	1	1
1	BURGESS AIR FILTER	296-37930	1	1
2	BRACKET	382-01959	1	1
3	SETSCREW - 5/16" UNC x 3/4"	270-00231	1	1
4	SPRING WASHER	027-00413	1	1
5	BOLT - 5/16"UNC x 2" } Bracket to	270-00450	2	2
6	SPRING WASHER } Fanshroud.....	027-00413	2	2
7	DISTANCE PIECE	351-12290	1	1
8	BOLT - 5/16" UNF x 3/4" }	270-00060	4	4
9	SPRING WASHER } Air Filter to Bracket.....	027-00413	4	4
10	NUT - 5/16" UNF	270-00003	4	4
11	HOSE	382-06761	1	1
12	CLIP	027-04235	2	2
13	ADAPTOR - Manifold	382-06795	1	1
14	ADAPTOR JOINT.....	353-41470	1	1
15	BOLT - 3/8" UNC x 1 1/4"	270-00349	1	1



HR40

7" BURGESS AIR FILTER—Cast Iron Fanshroud

HR2 & 3 CODE AF



HR 36

Illus No.	Description	Part No.	HR	
			2	3
	DRY AIR CLEANER			
	DRY AIR CLEANER COMPLETE	Code AF	1	1
1	CLEANER Includes	367-12960	1	1
-	ELEMENT	352-43830	1	1

WICHTIG!

Bei der Beschaffung von Ersatzteilen oder bei Reparaturanweisungen sollte jeder Kunde in seinem eigenen Interesse immer vorschreiben:

Nur echte Lister-Petter Teile

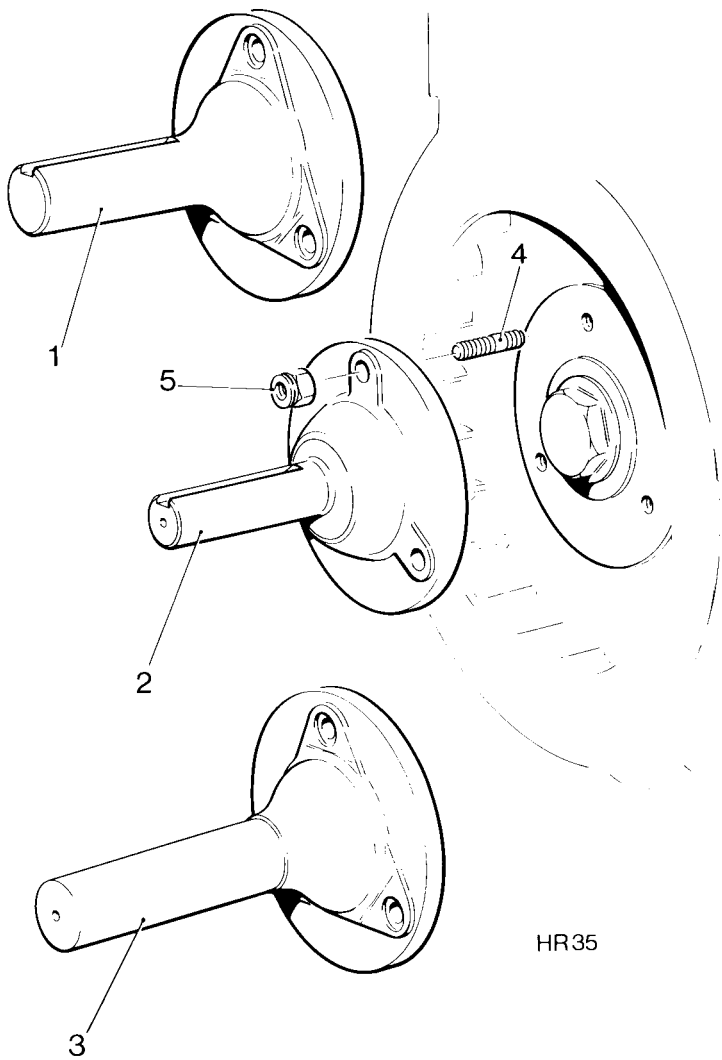
Bei nicht von der Lister-Petter Gruppe gelieferten Teilen ist es unmöglich, sich auf richtige Werkstoffe, Maße oder Oberflächengüte zu verlassen. LISTER-PETTER LTD. lehnen jegliche Garantieverpflichtungen ab, wenn durch die Verwendung derartiger Teile Schäden entstehen. Bei ihrer Benutzung erlischt die Garantie.

In Ihrem eigenen Interesse, schreiben Sie also vor:

NUR ECHTE LISTER-PETTER TEILE

HR2 & 3 CODE BA, BB & BC

Illus No.	Description	Part No.	HR	
			2	3
CRANKSHAFT EXTENSION				
SHAFT EXTENSION ASSEMBLY				
	- 50.8mm (2") Machined	Code BA	1	1
	- 38.05mm (1 1/2") Machined	Code BB	1	1
	- 50.8mm (2") Rough Machined	Code BC	1	1
CRANKSHAFT EXTENSION				
1	- 50.8mm (2") Machined	291-31560	1	1
2	- 38.05mm (1 1/2") Machined	351-12310	1	1
3	- 50.8mm (2") Rough Machined	382-00513	1	1
4	STUD - 5/8"UNF x 2 1/2"...	270-00170	3	3
5	NUT - Self Locking - 5/8"UNF	270-00150	3	3



HR35

CRANKSHAFT EXTENSIONS

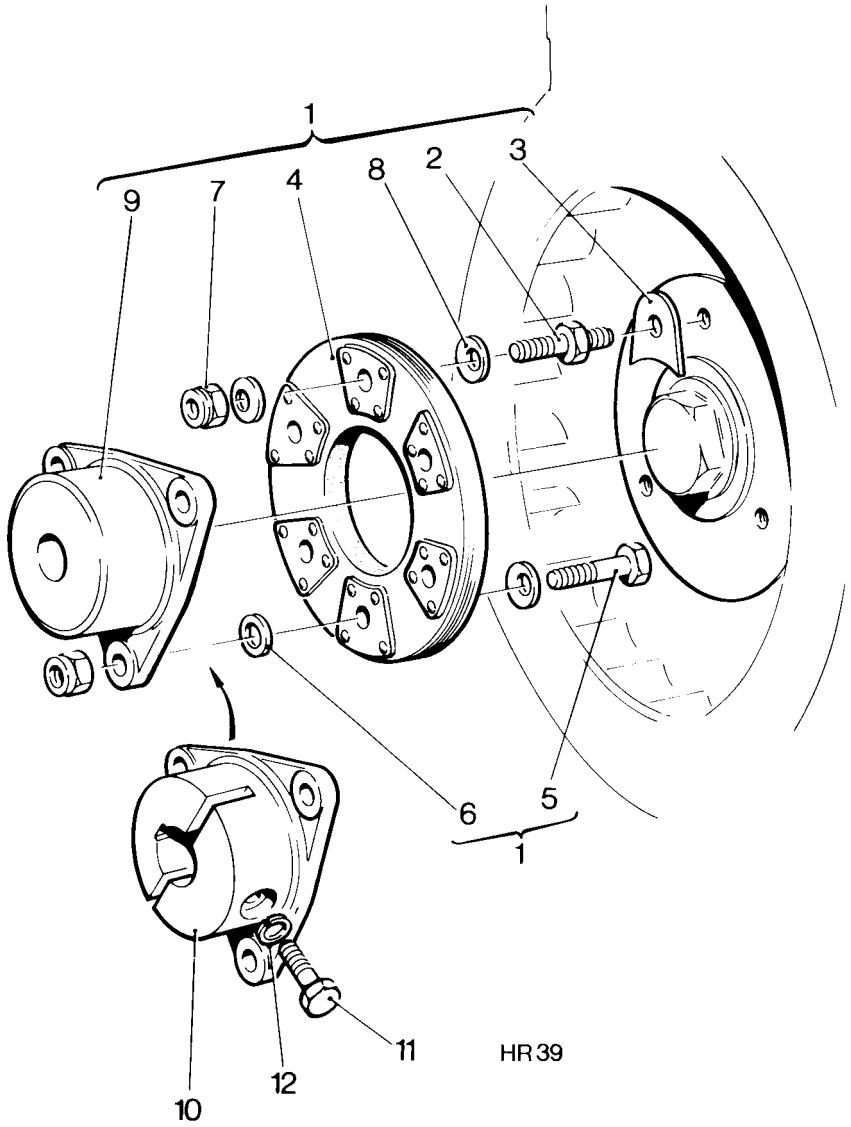
HR2 & 3 CODE BD, BE, BF & BQ

Illus No.	Description	Part No.	HR	
			2	3
FLEXIBLE HALF COUPLING - Pilot Bored				
1	FLEXIBLE HALF COUPLING COMPLETE	Code BD	1	1
2	COUPLING STUD	291-26500	3	3
3	LOCK WASHER	291-26510	3	3
4	FLEXIBLE DISC	010-08089	1	1
5	BOLT	291-31570	3	3
6	DISTANCE PIECE	010-08130	3	3
7	NUT - Self Locking - 5/8" UNF	270-00150	6	6
8	SPRING DISC WASHER	639-11070	9	9
9	HALF COUPLING	382-06732	1	1

SPLIT BOSS COUPLING

Including all items listed in CODE BD HR2 & 3 cyl. but having a Split Boss Coupling as an alternative to the Half Coupling.

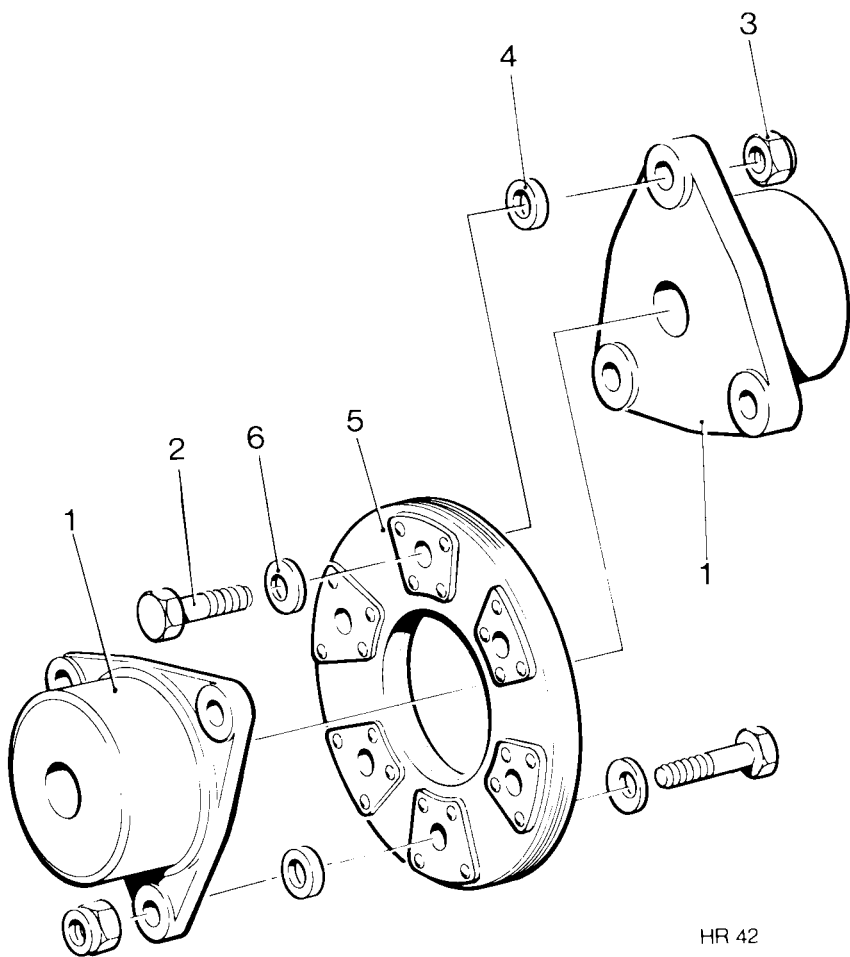
-	With 35mm Dia. Coupling	Code BE	1	1
-	With 44.5mm Dia. Coupling	Code BF	1	1
-	With 42mm Dia. Coupling	Code BQ	1	1
-	SPLIT BOSS COUPLING			
10	- 35mm (1 3/8") Dia.	804-00154	1	1
-	- 44.5mm (1 3/4") Dia.	804-00155	1	1
-	- 42mm Dia.	804-00172	1	1
11	BOLT - Clamping - M10 x 45mm	272-00213	2	2
12	SPRING WASHER	272-00072	2	2



FLEXIBLE HALF/SPLIT BOSS COUPLING

HR2 & 3 CODE BG

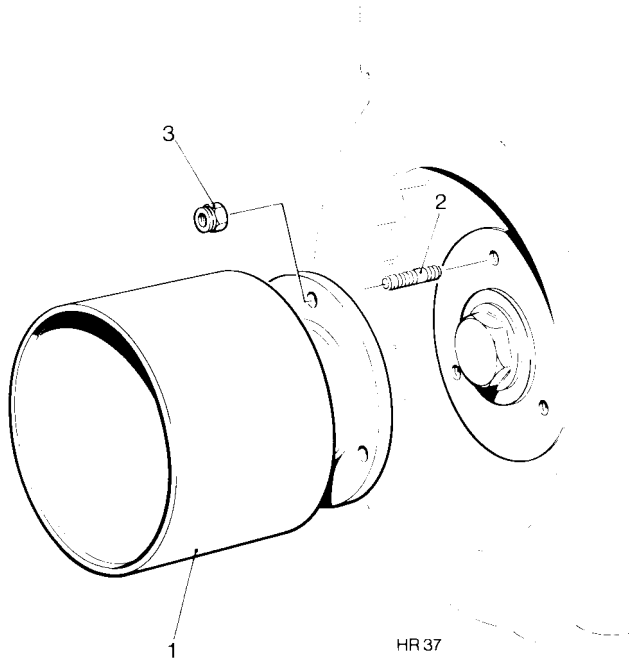
Illus No.	Description	Part No.	HR	
			2	3
FLEXIBLE WHOLE COUPLING				
	FLEXIBLE WHOLE COUPLING ASSEMBLY	Code BG	1	1
1	HALF COUPLING	382-06732	2	2
2	BOLT - Special	291-31570	6	6
3	NUT - Self Locking - 5/8" UNF	270-00150	6	6
4	DISTANCE WASHER	010-08130	6	6
5	FLEXIBLE DISC	010-08089	1	1
6	SPRING DISC WASHER	639-11070	6	6



HR 42

FLEXIBLE WHOLE COUPLING

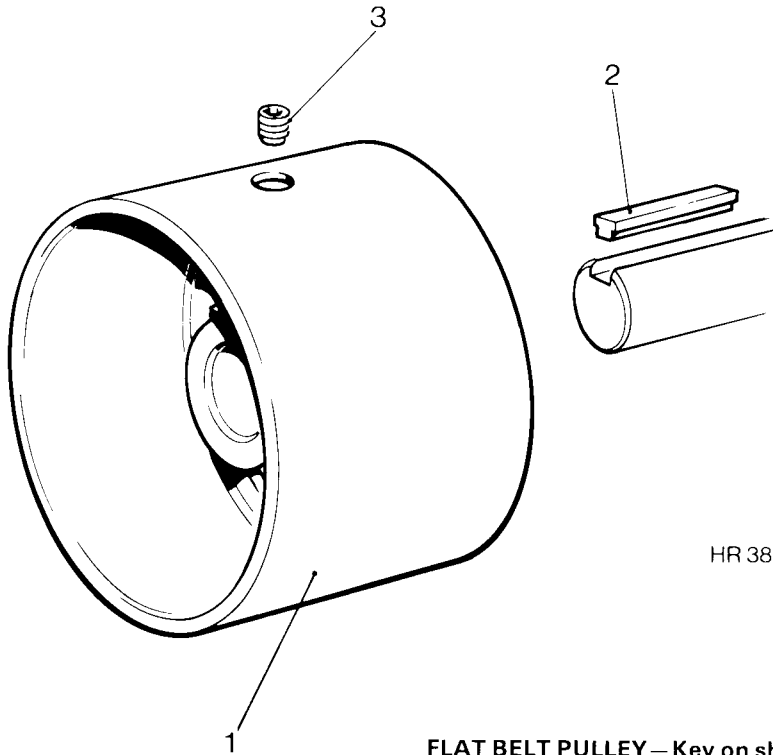
HR2 & 3 CODE BJ



FLAT BELT PULLEY - Bolt on Flywheel

Illus No.	Description	Part No.	HR	
			2	3
BOLT ON PULLEY				
BOLT ON PULLEY ASSEMBLY				
	- 203mm (8") Dia. x 178mm (7") Face	Code BH	1	-
	- 254mm (10") Dia. x 178mm (7") Face	Code BJ	1	1
-	PULLEY - Code BH	291-40880	1	2
1	PULLEY - Code BJ	291-40890	1	1
2	STUD - 5/8"UNF x 2"	270-00143	3	3
3	NUT - Self Locking - 5/8"UNF	270-00150	3	3

HR2 & 3 CODE BK & BL



FLAT BELT PULLEY – Key on shaft

Illus No.	Description	Part No.	HR	
			2	3

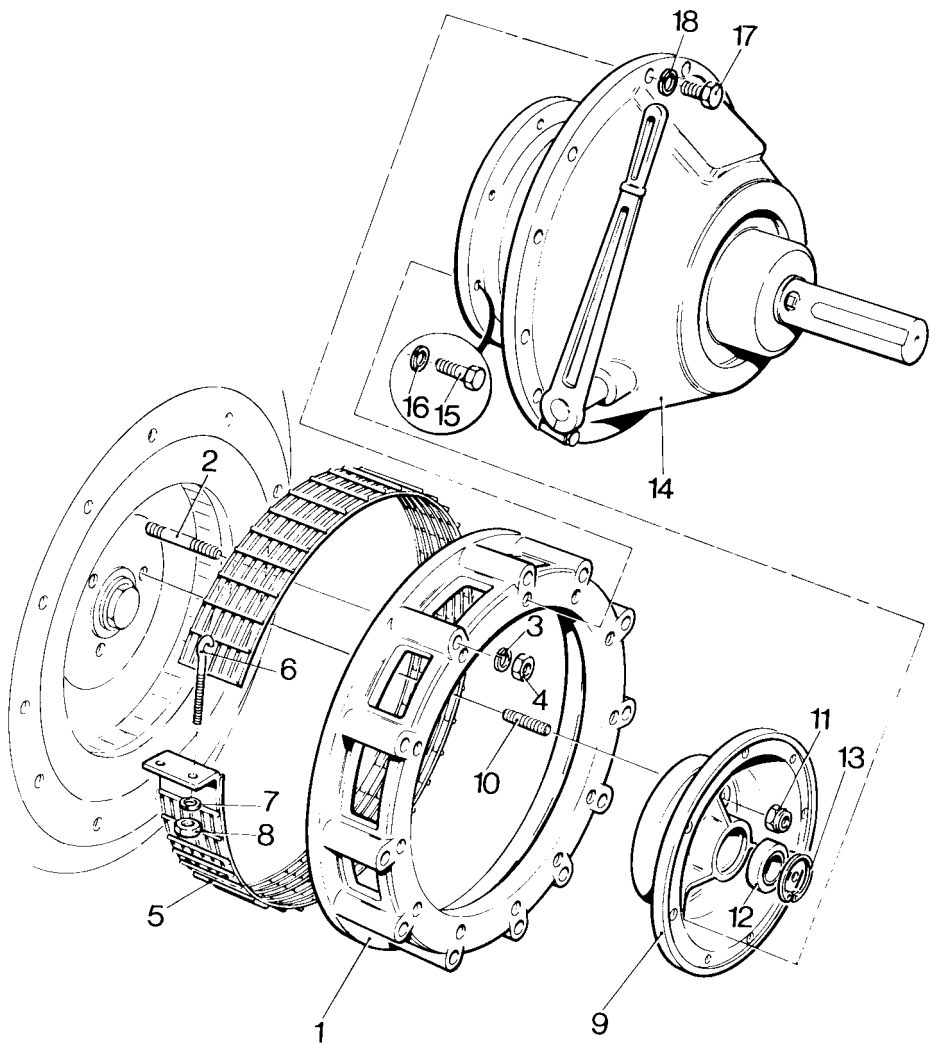
KEY ON PULLEY

KEY ON PULLEY ASSEMBLY

	- 254mm (10") Dia. x 178mm (7") Face	Code BK	1	1
	- 305mm (12") Dia. x 178mm (7") Face	Code BL	1	1
1	PULLEY - Code BK	008-05025	1	1
-	PULLEY - Code BL	008-05037	1	1
2	KEY - For 1/2" Keyway in Shaft	364-00829	1	1
-	KEY - For 9/16" Keyway in Shaft	004-00312	1	1
3	SOCKET SETSCREW - 1/2" WHIT. x 3/4"	013-08088	1	1

HR2 & 3 CODE BM

Illus No.	Description	Part No.	HR	
			2	3
ANDERTON CLUTCH				
	ANDERTON CLUTCH ASSEMBLY	Code BM	1	1
1	ADAPTOR - SAE 1 to 2	352-12961	1	1
2	STUD - 7/16" UNF/UNC x 4 1/4"	270-00394	12	12
3	SPRING WASHER	027-00984	12	12
4	NUT - 7/16" UNF	270-00005	12	12
5	GUARD ASSEMBLY	382-06725	1	1
6	CLAMPING SCREW - Special	366-00900	2	2
7	SPRING WASHER	027-00717	2	2
8	NUT - 3/8" UNF	027-00015	2	2
9	DRIVING MEMBER	382-01001	1	1
10	STUD - 5/8" UNF x 2"	270-00143	3	3
11	NUT - Self Locking - 5/8" UNF	270-00150	3	3
12	PILOT BEARING	663-10470	1	1
13	CIRCLIP	294-32000	1	1
14	ANDERTON CLUTCH	382-05135	1	1
15	SETSCREW - 3/8" UNF x 1 1/2"	270-00075	8	8
16	SPRING WASHER	027-00393	8	8
17	BOLT - 3/8" UNC x 1" } Clutch to	270-00288	12	12
18	SPRING WASHER } SAE Adaptor	027-00393	12	12

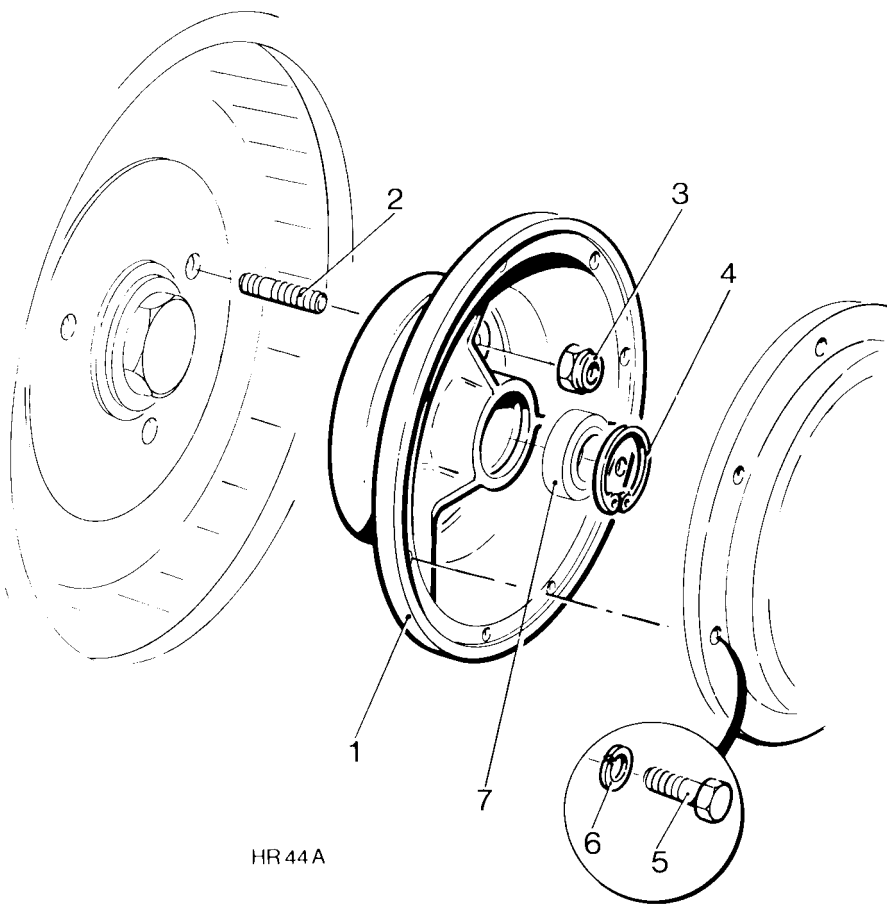


HR 47

ANDERTON CLUTCH

HR2 &3 CODE BN

Illus No.	Description	Part No.	HR	
			2	3
CLUTCH DRIVING MEMBER				
DRIVING MEMBER ASSEMBLY				
	- 11" Anderton Clutch	Code BN	1	1
1	DRIVING MEMBER	382-01001	1	1
2	STUD - Driving Member to Flywheel - 5/8" UNF x 2"	270-00143	3	3
3	NUT - Self Locking - 5/8" UNF	270-00150	3	3
4	CIRCLIP - Retaining Pilot Bearing	294-32000	1	1
5	SETSCREW - Clutch Ring to Driving Member - 3/8"UNF x 1 1/2" ..	270-00075	8	8
6	SPRING WASHER	027-00393	8	8
7	PILOT BEARING - Not supplied with this Accessory			

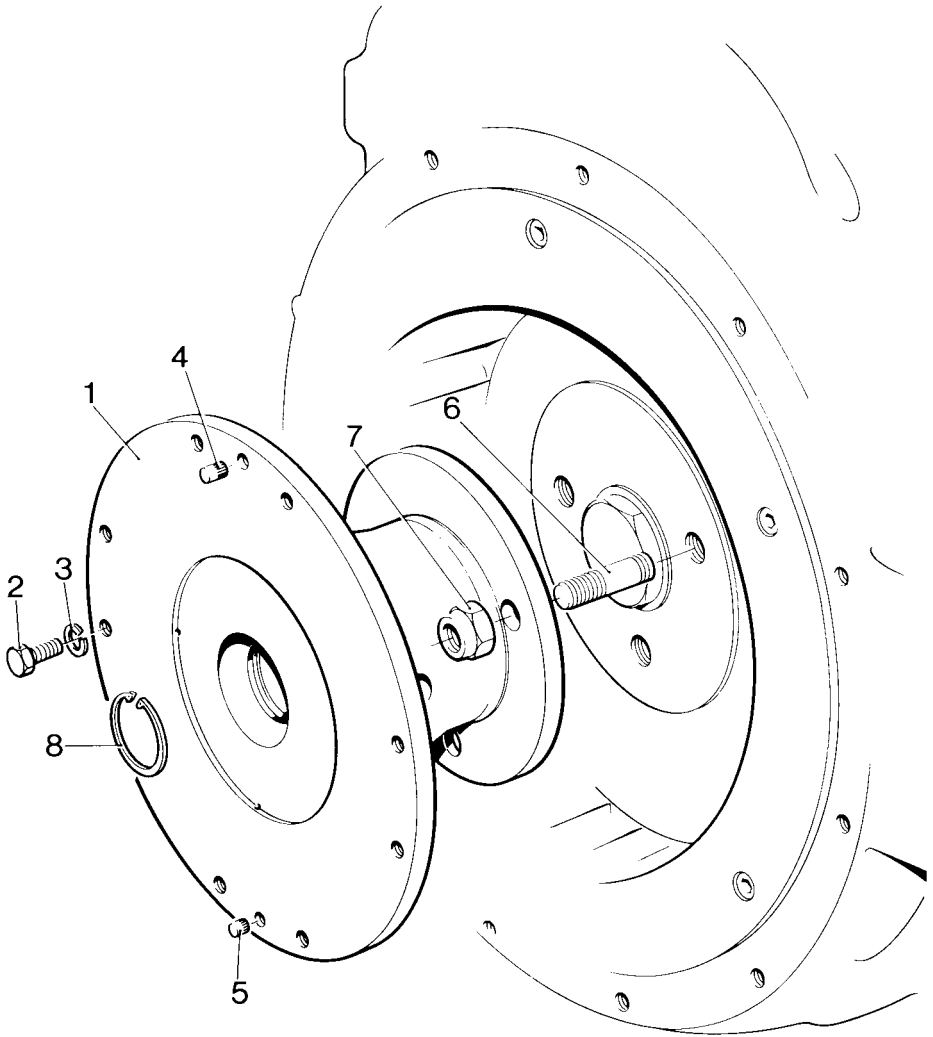


HR 44 A

CLUTCH DRIVING MEMBER—Anderton

HR2 & 3 CODE BP

Illus No.	Description	Part No.	HR	
			2	3
CLUTCH DRIVING MEMBER ASSEMBLY				
DRIVING MEMBER ASSEMBLY				
	- For Borg & Beck 12" Automotive Clutch	Code BP	1	1
1	DRIVE MEMBER	382-03581	1	1
2	BOLT - 3/8" UNF x 3/4"	270-00071	8	8
3	SPRING WASHER	027-00393	8	8
4	DOWEL	291-22470	1	1
5	DOWEL	201-25770	1	1
6	STUD - 5/8" UNF x 2"	270-00143	3	3
7	NUT - Self Locking - 5/8" UNF	270-00150	3	3
8	CIRCLIP	382-01808	1	1

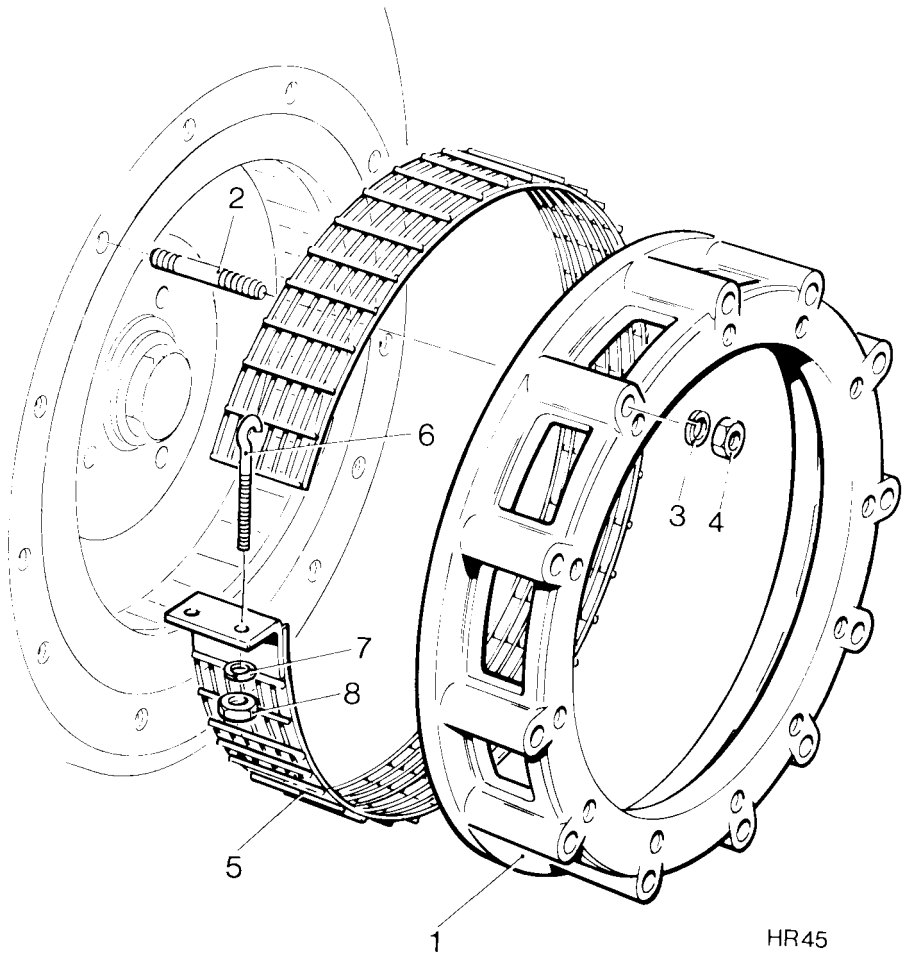


HR43

CLUTCH DRIVING MEMBER—Borg & Beck

HR2 & 3 CODE CA

Illus No.	Description	Part No.	HR	
			2	3
SAE 2 ADAPTOR & GUARD				
	SAE 2 ADAPTOR & GUARD	Code CA	1	1
1	ADAPTOR	352-12961	1	1
2	STUD - 7/16" UNF/UNC x 4 1/4"	270-00394	12	12
3	SPRING WASHER	027-00984	12	12
4	NUT - 7/16" UNF	270-00005	12	12
5	GUARD ASSEMBLY	382-06725	1	1
6	CLAMP SCREW - Special	366-00900	2	2
7	SPRING WASHER	027-00717	2	2
8	NUT - 3/8" UNF - Brass	027-00015	2	2

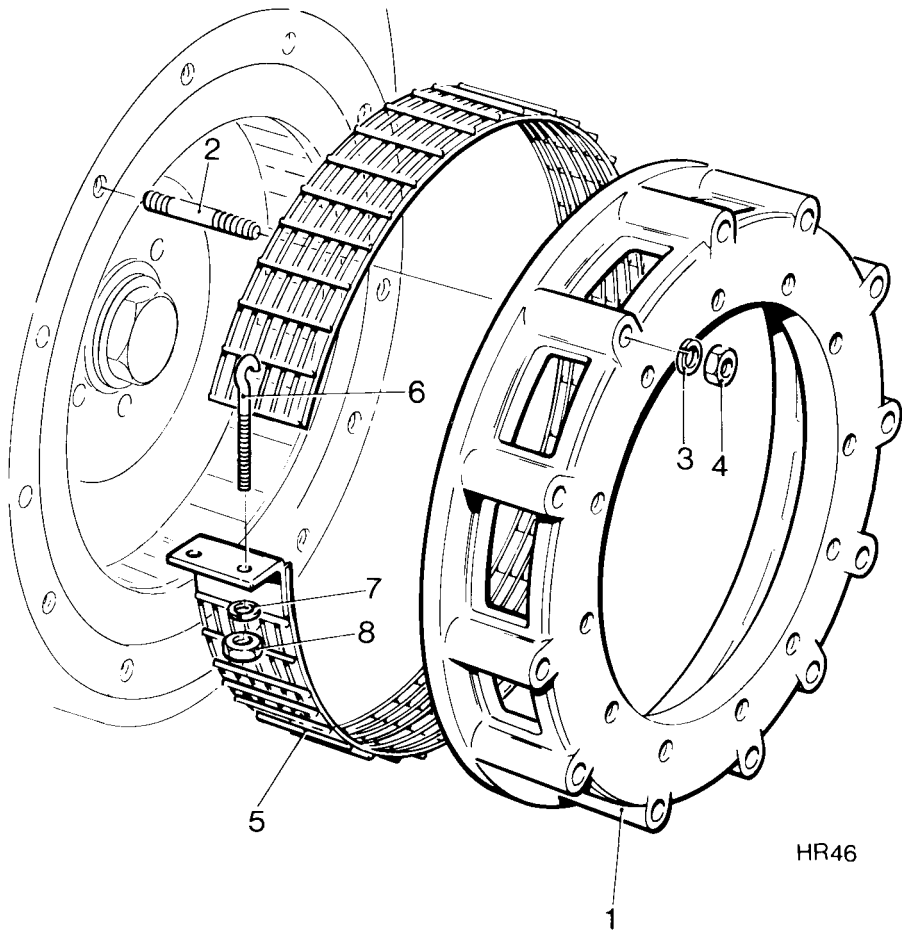


HR45

SAE2 ADAPTOR & GUARD

HR2 & 3 CODE CB

Illus No.	Description	Part No.	HR	
			2	3
SAE 3 ADAPTOR & GUARD				
	SAE 3 ADAPTOR & GUARD ASSEMBLY	Code CB	1	1
1	ADAPTOR	382-00216	1	1
2	STUD - 7/16" UNF/UNC x 4 1/4"	270-00394	12	12
3	SPRING WASHER	027-00984	12	12
4	NUT - 7/16" UNF	270-00005	12	12
5	GUARD ASSEMBLY	382-06725	1	1
6	CLAMP SCREW - Special	366-00900	2	2
7	SPRING WASHER	027-00717	2	2
8	NUT	027-00015	2	2

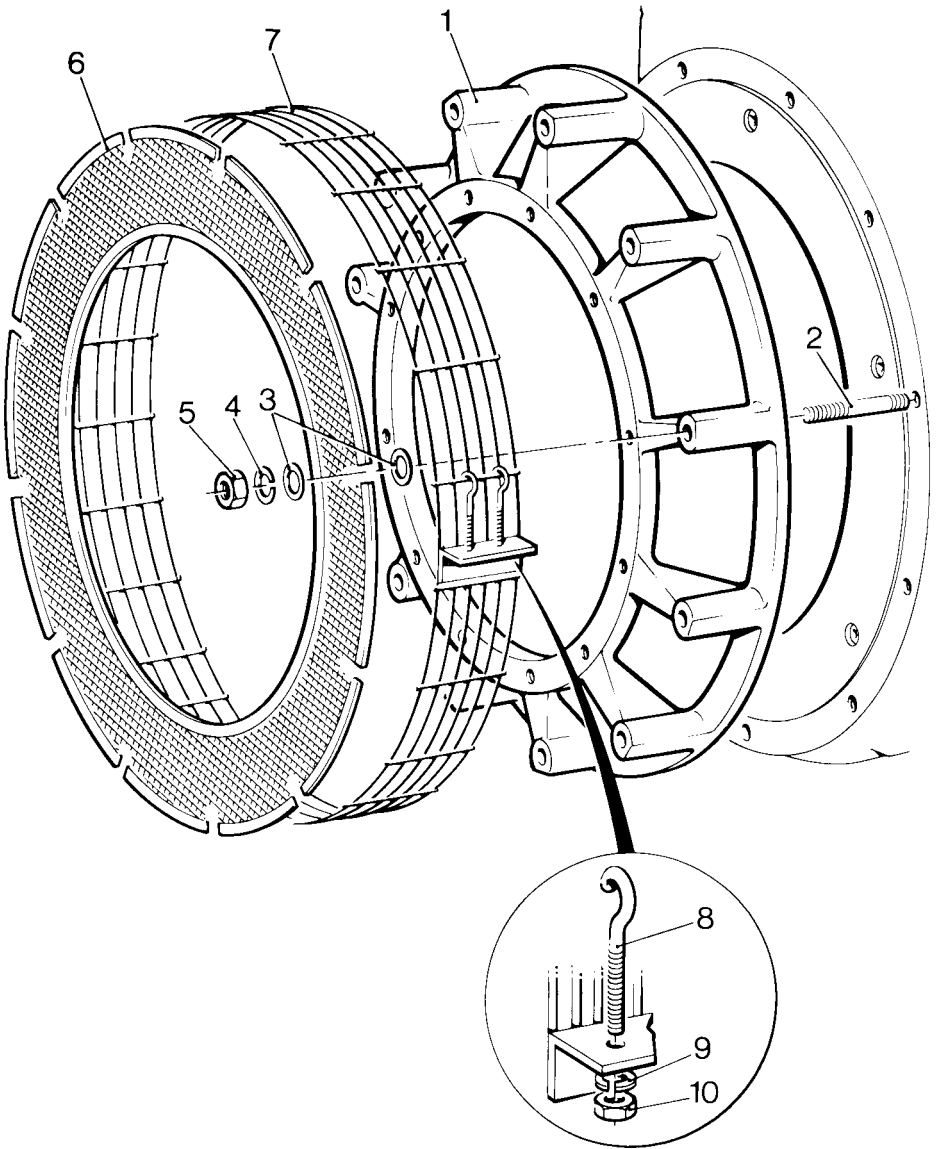


HR46

SAE3 ADAPTOR & GUARD

HR2 & 3 CODE CC

Illus No.	Description	Part No.	HR	
			2	3
SAE 4 ADAPTOR & GUARD				
-	SAE 4 ADAPTOR & GUARD ASSEMBLY	Code CC	1	1
1	ADAPTOR	382-00143	1	1
2	STUD - 7/16" UNF/UNC x 4 1/4"	270-00394	12	12
3	PLAIN WASHER	027-00545	24	24
4	SPRING WASHER	027-00984	12	12
5	NUT - 7/16" UNF	270-00005	12	12
6	FRONT GUARD ASSEMBLY	382-00145	1	1
7	SIDE GUARD ASSEMBLY	382-06725	1	1
8	CLAMP SCREW - Special	366-00900	2	2
9	SPRING WASHER	027-00717	2	2
10	NUT	027-00015	2	2

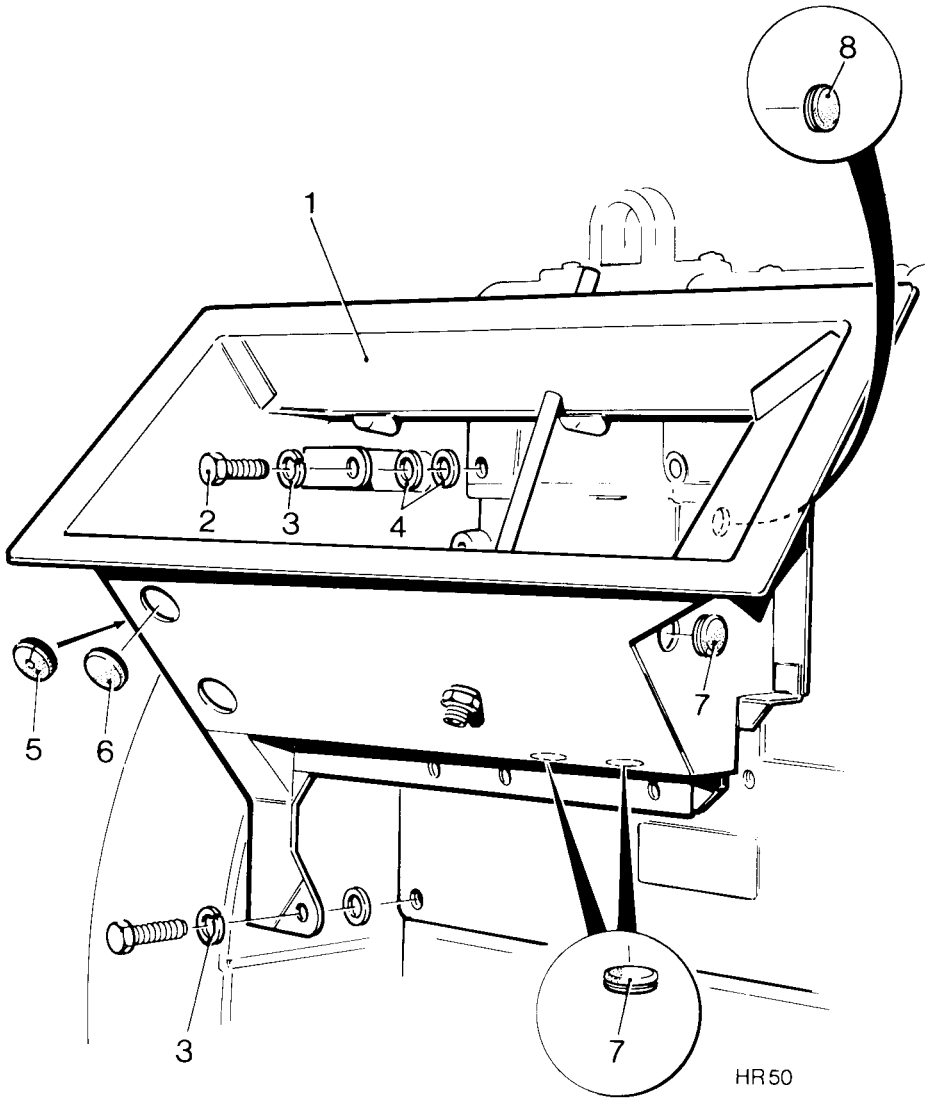


HR48

SAE4 ADAPTOR & GUARD

HR2 & 3 CODE DA

Illus No.	Description	Part No.	HR	
			2	3
AIR DUCT ASSEMBLY				
	AIR DUCT ASSEMBLY - HR2 & 3	Code DA	1	1
-	AIR DUCT - HR2	382-06800	1	-
1	AIR DUCT - HR3	382-06801	-	1
2	BOLT - 1/4" UNF x 5/8" - Duct to Top Plate	270-00023	2	2
3	SPRING WASHER	027-00451	5	6
4	SPACER	027-00618	4	4
5	GROMMET - Pierced - If Gauge & Switch are fitted	354-31620	2	2
6	GROMMET - Blanking	201-50950	2	2
7	GROMMET - Blanking	351-13570	3	3
8	GROMMET - Blanking	351-17380	2	2

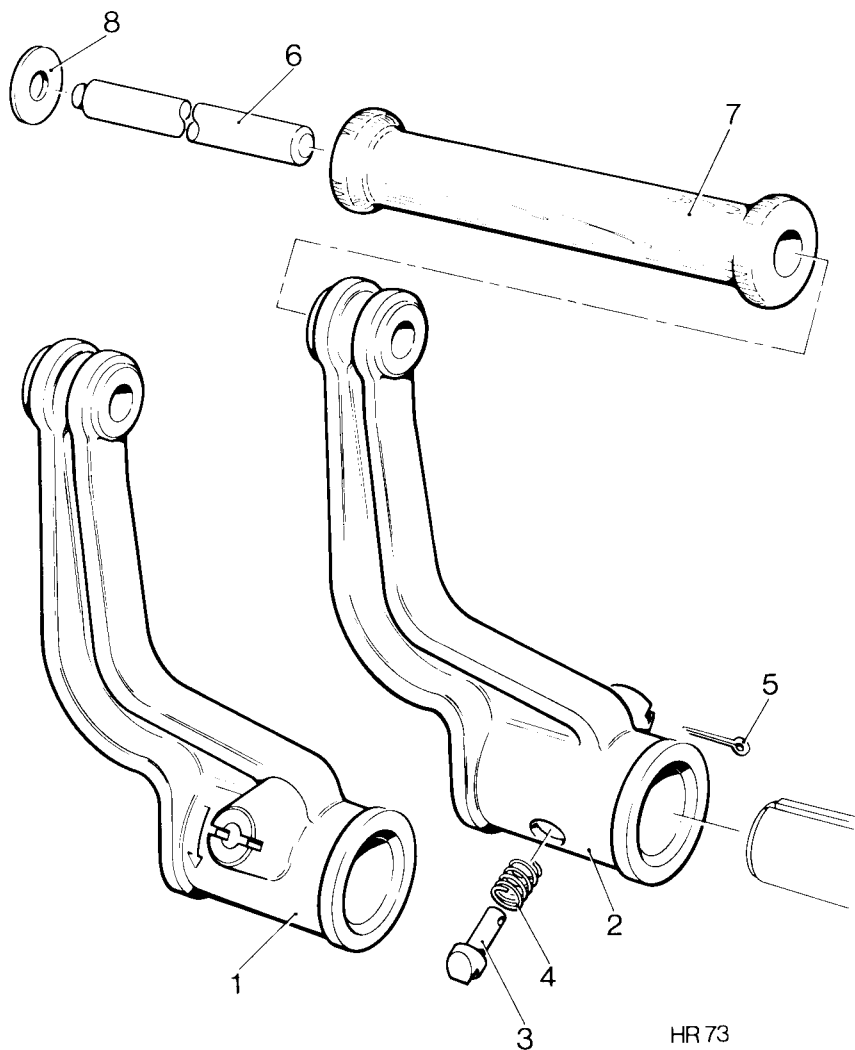


HR50

AIR DUCT ASSEMBLY

HR2 & 3 CODE EA & EB

Illus No.	Description	Part No.	HR	
			2	3
STARTING HANDLE				
-	STARTING HANDLE - CW - Gear End Starting	Code EA	1	1
-	STARTING HANDLE - ACW - Flywheel End Starting	Code EB	1	1
-	STARTING HANDLE ASSEMBLY - CW - comprises	570-16620	1	1
-	STARTING HANDLE ASSEMBLY - ACW - comprises	570-16630	1	1
1	CRANK - CW	291-25624	1	1
2	CRANK - ACW	291-25625	1	1
3	CLUTCH PIN	002-00125	1	1
4	SPRING - Clutch Pin	002-00126	1	1
5	SPLIT PIN	027-00120	1	1
6	GRIP PIN	291-40900	1	1
7	WOOD GRIP	028-00078	1	1
8	GRIP WASHER	027-00083	1	1

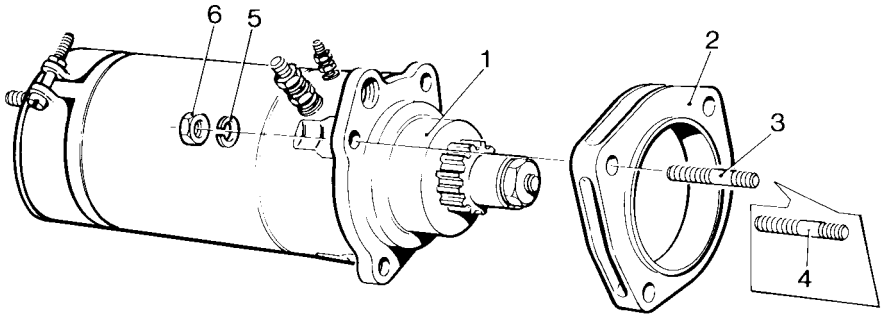
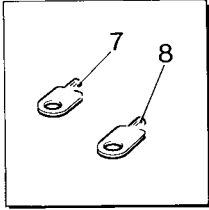


HR 73

STARTING HANDLE

HR2 & 3 CODE EC & EF

Illus No.	Description	Part No.	HR	
			2	3
STARTER MOTOR				
	STARTER MOTOR KIT - 12V	Code EC	1	1
	STARTER MOTOR KIT - 24V	Code EF	1	1
1	STARTER MOTOR - 12V	351-31460	1	1
-	STARTER MOTOR - 24V	351-31970	1	1
2	DISTANCE PIECE	351-10880	1	1
3	STUD - 3/8" UNF/UNC x 3" - Sheet Metal Fanshroud	270-00707	3	3
-	STUD - 3/8" UNF/UNC x 3" - Cast Iron Fanshroud	270-00323	3	3
4	SPRING WASHER	027-00393	3	3
5	NUT - 3/8" UNF	270-00004	3	3
6	TERMINATION	064-15649/007	1	1
7	TERMINATION	064-15651/010	2	2

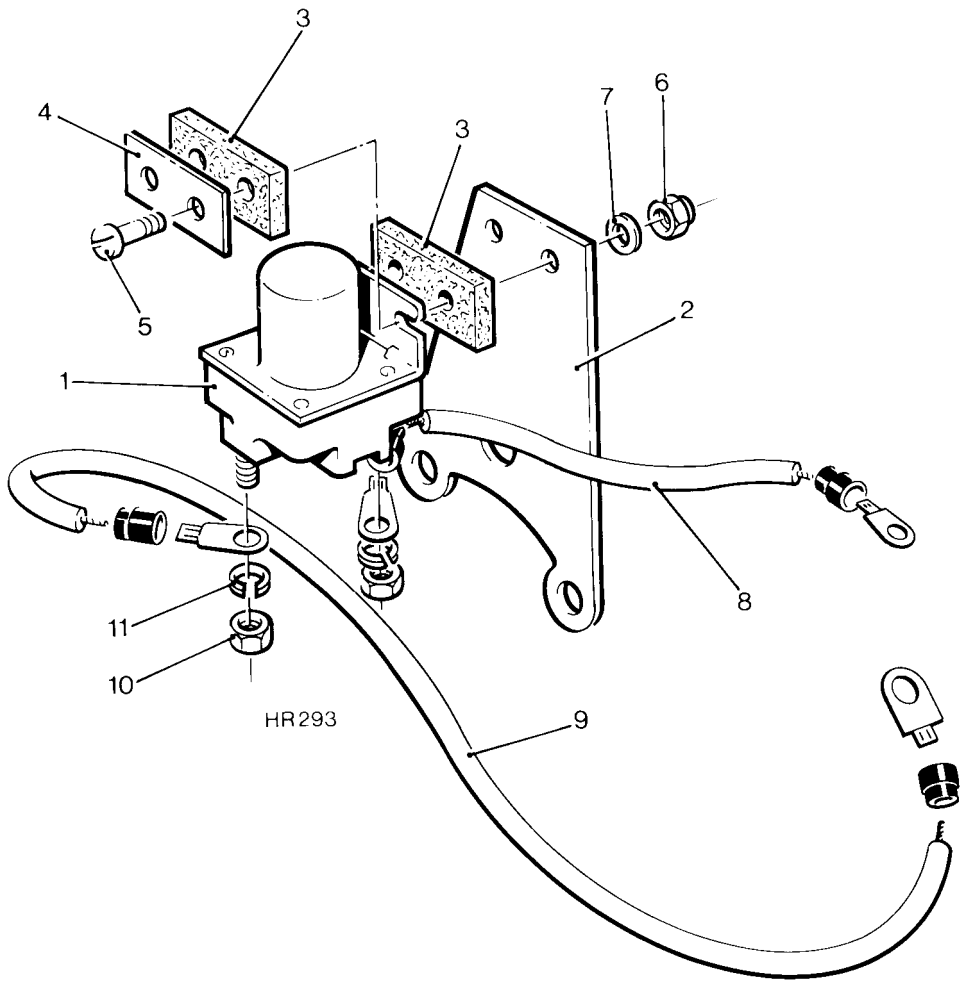


HR294

STARTER MOTOR © 1989

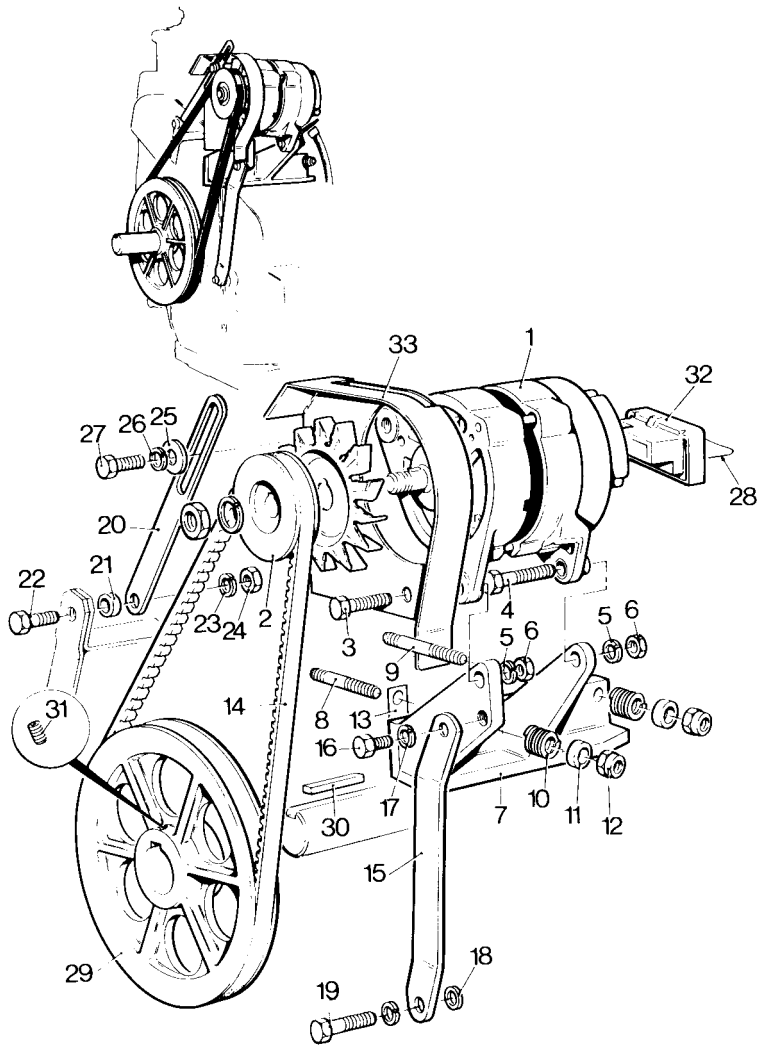
HR2 & 3 CODE EJ

Illus No.	Description	Part No.	HR	
			2	3
12V STARTER SOLENOID				
-	12V STARTER SOLENOID KIT	Code EJ	1	1
-	SOLENOID ASSEMBLY - Comprises	642-00172	1	1
1	SOLENOID	351-31480	1	1
2	BRACKET	064-29372	1	1
3	FELT PAD	064-29376	2	2
4	CLAMP PLATE	064-29377	1	1
5	SCREW	064-06772/005	2	2
6	SELF LOCK NUT	064-06649/003	2	2
7	WASHER	064-06612/004	2	2
8	CABLE	064-25603	1	1
9	CABLE	064-31244	1	1
10	NUT	064-31345	2	2
11	SPRING WASHER	064-31346	2	2



HR2 & 3 CODE ED & EG

Illus No.	Description	Part No.	HR	
			2	3
ALTERNATOR & FITTINGS				
	ALTERNATOR KIT - 12V	Code ED	1	1
	ALTERNATOR KIT - 24V	Code EG	1	1
	ALTERNATOR & PULLEY ASSEMBLY - 12V	572-58931	1	1
1	ALTERNATOR - LUCAS	382-08918	1	1
2	PULLEY	382-09057	1	1
	OR ALTERNATOR AND PULLEY ASSEMBLY - 12V	572-58941	1	1
	ALTERNATOR - VALEO	351-82081	1	1
	PULLEY	329-10250	1	1
	ALTERNATOR AND PULLEY ASSEMBLY - 24V	572-70940	1	1
	ALTERNATOR	382-08861	1	1
	PULLEY	329-10250	1	1
3	BOLT - Alternator - Front - M8 x 35mm	272-00042	1	1
4	BOLT - Alternator - Rear - M8 x 45mm	272-00169	1	1
5	SPRING WASHER	272-00071	2	2
6	NUT - M8	272-00003	2	2
7	SUPPORT BRACKET	382-06746	1	1
8	STUD - 5/16"UNF x 2 1/4"	270-00702	1	1
9	STUD - 5/16"UNF x 2 3/4"	270-00703	1	1
10	SPRING	291-21070	2	2
11	WASHER	027-00085	2	2
12	SELF LOCK NUT - 5/16"UNF	270-00154	2	2
13	SHIM	351-16630	2	2
14	BELT	382-06750	1	1
15	STAY	352-37130	1	1
16	SCREW - M8 x 20mm	272-00039	1	1
17	SPRING WASHER	272-00071	1	1
18	WASHER	027-00082	1	1
19	BOLT - 5/16"UNF x 1 1/2"	270-00063	1	1

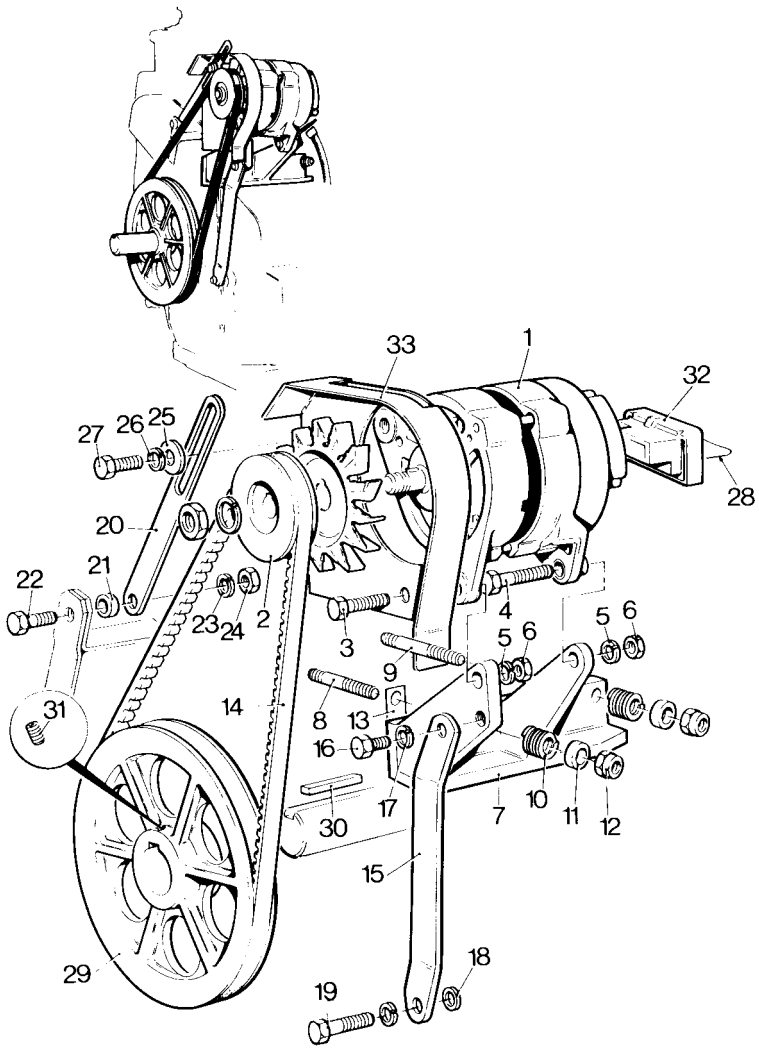


HR 57B

ALTERNATOR AND FITTINGS © 1989

HR2 & 3 CODE ED & EG

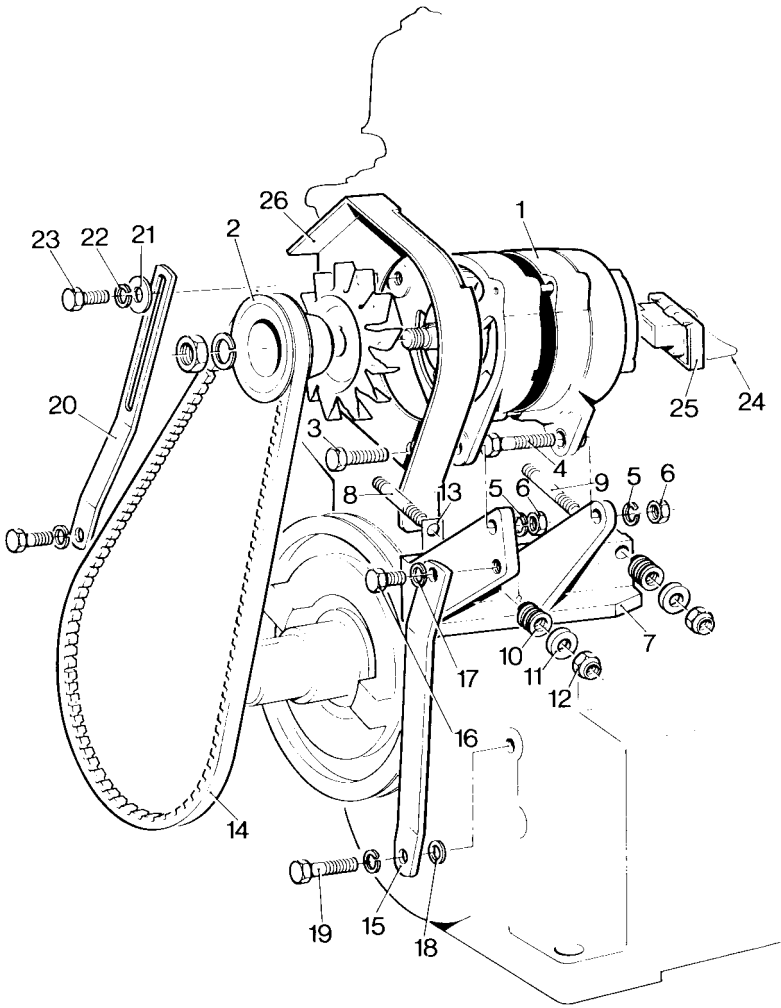
Illus No.	Description	Part No.	HR	
			2	3
ALTERNATOR AND FITTINGS (Cont.)				
20	ADJUSTING LINK	351-12400	1	1
21	SPACER - 12V	203-40750	1	1
	SPACER - 24V	394-41950	1	1
22	BOLT - 12V - M8 x 30mm	272-00041	1	1
-	BOLT - 24V - M8 x 40mm	272-00043	1	1
23	SPRING WASHER	272-00071	1	1
24	NUT - M8	272-00003	1	1
25	WASHER	272-00085	1	1
26	SPRING WASHER	272-00071	1	1
27	SCREW - M8 x 25mm	272-00040	1	1
28	CLIP	366-06679	1	1
29	PULLEY - Crankshaft	382-06751	1	1
30	KEY	382-06752	1	1
31	SOCKET SETSCREW	272-00323	2	2
32	CONNECTOR PLUG	366-06556	1	1
33	ALTERNATOR BACKPLATE	382-08862	1	1



HR57B

HR2 & 3 CODE EE

Illus No.	Description	Part No.	HR	
			2	3
ALTERNATOR With Hydraulic Pump				
	ALTERNATOR KIT	Code EE	1	1
	ALTERNATOR AND PULLEY ASSEMBLY	572-58971	1	1
1	ALTERNATOR - LUCAS	382-08918	1	1
2	PULLEY	382-09054	1	1
	OR ALTERNATOR AND PULLEY ASSEMBLY	572-58961	1	1
	ALTERNATOR - VALEO	351-82081	1	1
	PULLEY	329-08651	1	1
3	BOLT - Alternator - Front - M8 x 35mm	272-00042	1	1
4	BOLT - Alternator - Rear - M8 x 45mm	272-00169	1	1
5	SPRING WASHER	272-00071	2	2
6	NUT - M8	272-00003	2	2
7	SUPPORT BRACKET	382-06746	1	1
8	STUD - 5/16"UNF x 2 1/4"	270-00702	1	1
9	STUD - 5/16"UNF x 2 3/4"	270-00703	1	1
10	SPRING	291-21070	2	2
11	WASHER	027-00085	2	2
12	SELF LOCK NUT - 5/16"UNF	270-00154	2	2
13	SHIM	352-37140	2	2
14	BELT	382-06750	1	1
15	STAY	352-37130	1	1
16	SCREW - M8 x 20mm	272-00039	1	1
17	SPRING WASHER	272-00071	1	1
18	WASHER	027-00082	1	1
19	BOLT - 5/16"UNF x 1 1/2"	270-00063	1	1
20	ADJUSTING LINK	382-06779	1	1
21	WASHER	027-00184	1	1
22	SPRING WASHER	272-00071	1	1
23	SCREW - M8 x 25mm	272-00040	1	1
24	CLIP	366-06679	1	1
25	CONNECTOR PLUG	366-06556	1	1
26	ALTERNATOR BACKPLATE	382-08862	1	1

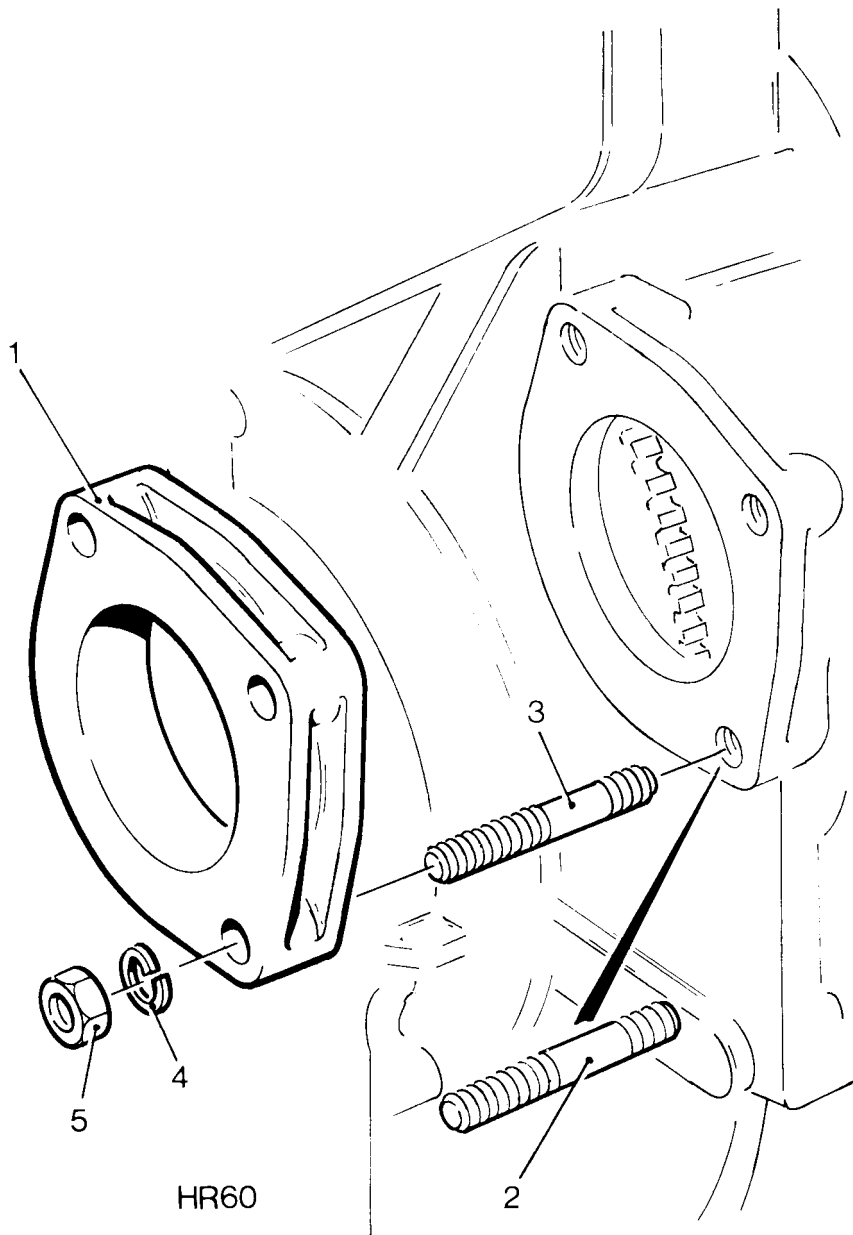


HR52B

ALTERNATOR WITH HYDRAULIC PUMP © 1989

HR2 & 3 CODE EN

Illus No.	Description	Part No.	HR	
			2	3
INERTIA & AIR STARTER MOTOR FITTINGS				
-	STARTER FITTINGS TO SUIT INGERSOL-RAND			
-	AIR MOTOR & SIMMS SPRING START	Code EN	1	1
1	DISTANCE PIECE	351-10880	1	1
2	STUD - 3/8"UNF/UNC x 3" - Sheet Metal Fanshroud	270-00323	3	3
3	STUD - 3/8"UNF/UNC x 3" - Cast Iron Fanshroud	270-00707	3	3
4	SPRING WASHER	027-00393	3	3
5	NUT - 3/8"UNF	270-00004	3	3

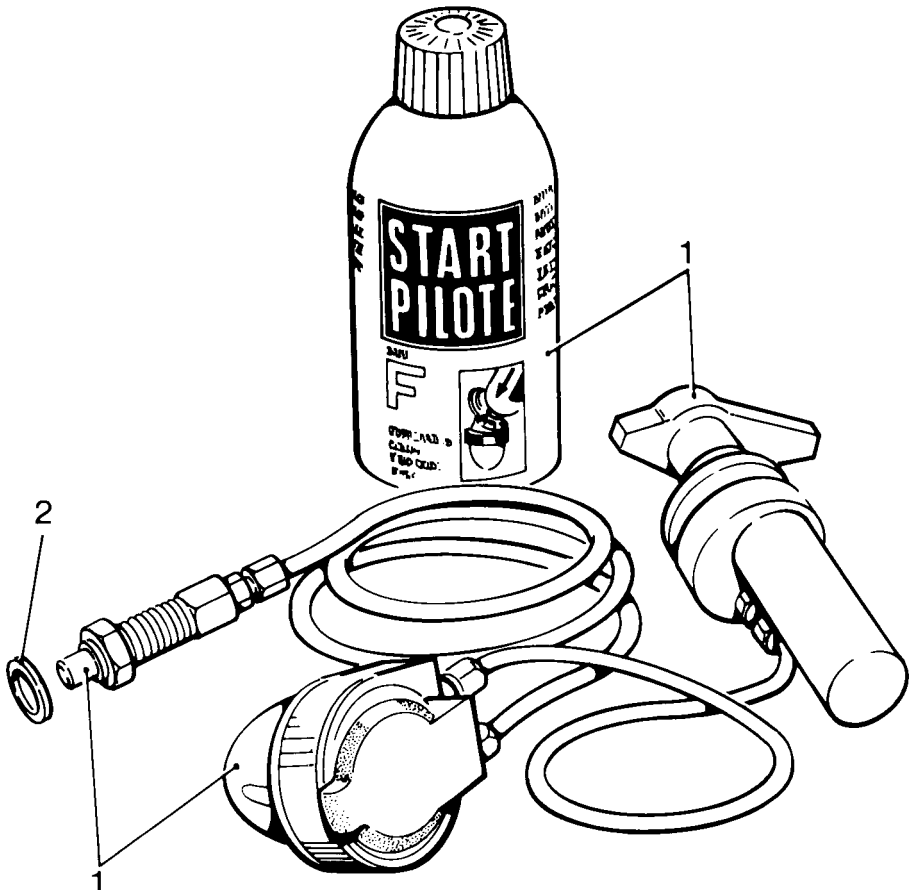


HR60

INERTIA & AIR STARTER MOTOR FITTINGS

HR2 & 3 CODE EP

Illus No.	Description	Part No.	HR	
	START PILOT ASSEMBLY			
	START PILOT ASSEMBLY	Code EP	1	1
1	START PILOT INSTALLATION KIT	027-05526	1	1
2	COPPER WASHER	013-22350	1	1

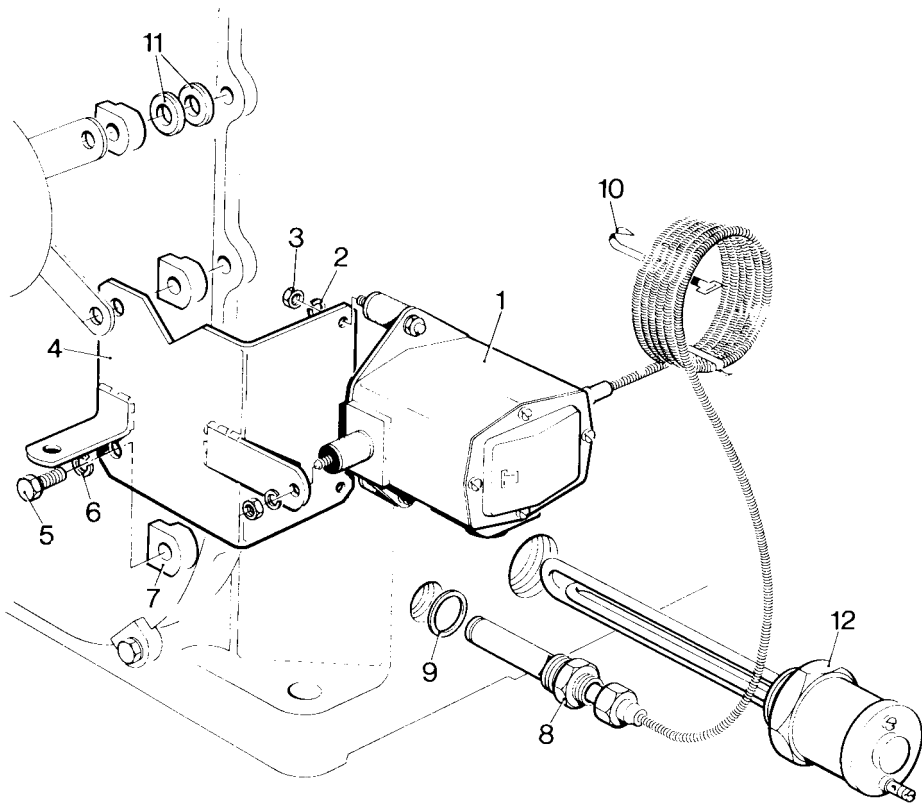


HR59

START PILOTE ASSEMBLY

HR2 & 3 CODE EQ

Illus No.	Description	Part No.	HR	
			2	3
SUMP HEATER & THERMOSTAT				
	SUMP HEATER & THERMOSTAT ASSEMBLY	Code EQ	1	1
	THERMOSTAT & MOUNTING BRACKET ASSEMBLY	572-54550	1	1
1	THERMOSTAT	382-07345	1	1
2	SPRING WASHER	064-02582/002	3	3
3	NUT	064-06611/003	3	3
4	MOUNTING BRACKET	382-07372	1	1
5	BOLT - 5/16" UNF x 1 3/8"	270-00062	2	2
6	SPRING WASHER	027-00413	1	1
7	CLAMP - End Cover	351-11401	1	1
8	PHAIL POCKET - Thermostat Probe	365-12460	1	1
9	COPPER WASHER	013-21778	1	1
10	CABLE TIE	064-32790/001	2	2
11	SPACER WASHER	027-04775	2	2
12	LUBRICATING OIL HEATER - 500 watts	382-00794	1	1

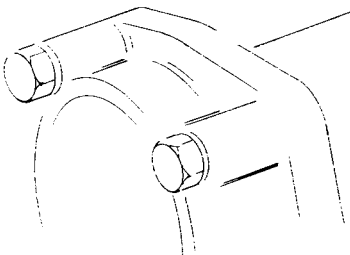
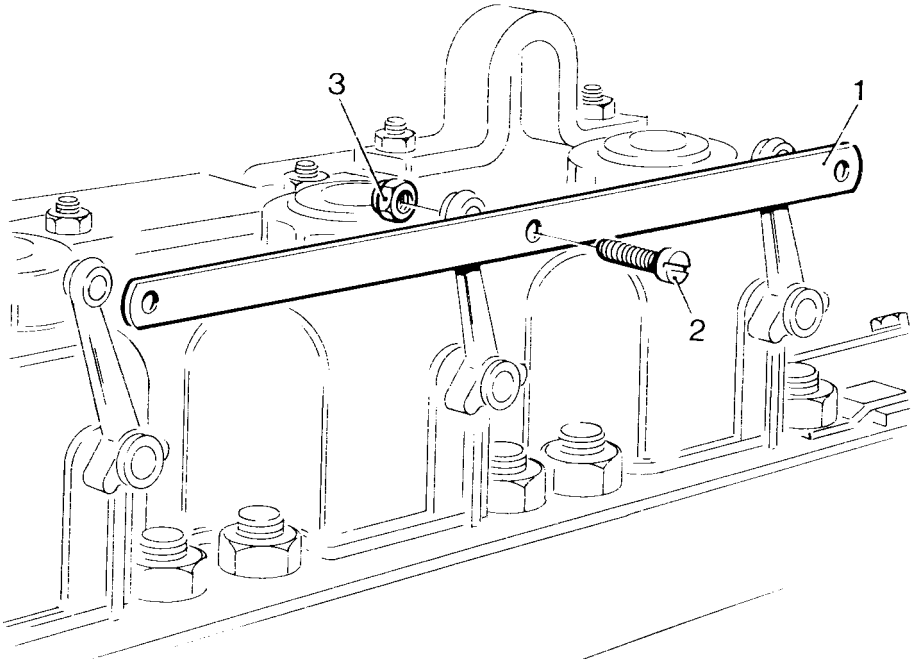


HR116

SUMP HEATER & THERMOSTAT

HR2 & 3 CODE ER

Illus No.	Description	Part No.	HR	
			2	3
COUPLED DECOMPRESSORS				
	COUPLED DECOMPRESSORS	Code ER	1	1
-	COUPLING PLATE - HR2	356-44741	1	-
1	COUPLING PLATE - HR3	353-58160	-	1
2	SCREW	064-06772/024	2	3
3	NUT - Self Locking	064-06649/003	2	3

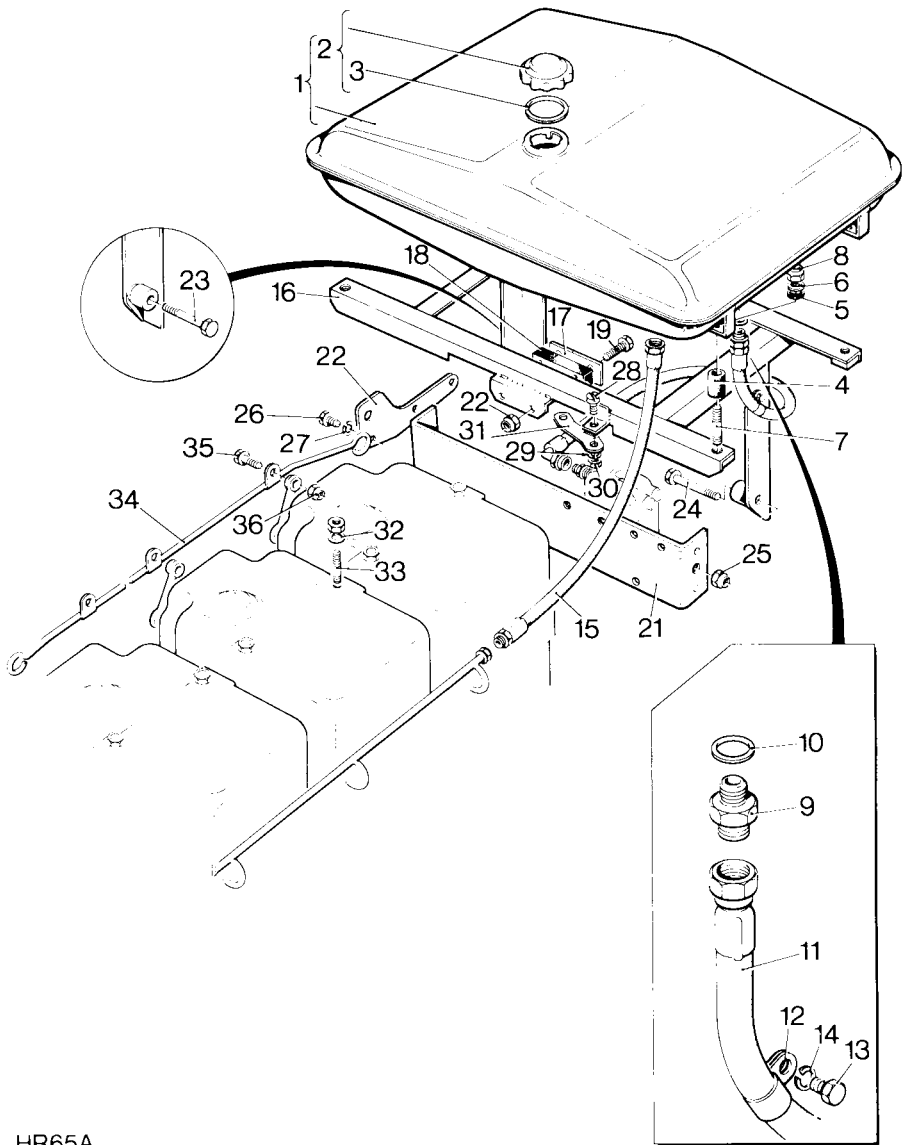


HR112

COUPLED DECOMPRESSORS

HR2 & 3 CODE FA & FB

Illus No.	Description	Part No.	HR	
			2	3
FUEL TANK - Engine Mounted				
	ENGINE MOUNTED FUEL TANK - HR2 & 3 - 20 Litre	Code FA	1	1
	ENGINE MOUNTED FUEL TANK - HR2 & 3 - 41 Litre	Code FB	1	1
	MOUNTED FUEL TANK & FRAME ASSEMBLY - Code FA	572-60130	1	1
	MOUNTED FUEL TANK & FRAME ASSEMBLY - Code FB	572-60120	1	1
1	FUEL TANK ASSEMBLY - 20 Litre Includes	291-30231	1	1
	FUEL TANK ASSEMBLY - 41 Litre Includes	364-01119	1	1
2	FILLER CAP Includes	366-00091	1	1
3	JOINT	027-06151	1	1
4	PAD - Fuel Tank Mounting	291-31120	4	4
5	PAD - Fuel Tank Rebound	291-31130	4	4
6	WASHER	027-00618	4	4
7	STUD - 1/4" UNF x 2 1/8"	270-00167	4	4
8	NUT - Self Locking - 1/4" UNF	270-00153	4	4
9	UNION CONNECTION	356-31610	1	1
10	JOINT	013-21778	1	1
11	FUEL PIPE - Flexible	291-31101	1	1
12	CLIP	520-07540	1	1
13	BOLT - 1/4" UNF x 1/2"	270-00054	1	1
14	SPRING WASHER	027-00451	1	1
15	LEAK OFF PIPE - Flexible	352-17340	1	1
16	MOUNTING FRAME ASSEMBLY	352-13351	1	1
17	CLAMPING PIECE - Rubber Stop	351-13280	1	1
18	RUBBER STOP	351-13290	1	1
19	BOLT - 1/4" UNF x 1 1/2"	270-00205	2	2
20	NUT - Self Locking - 1/4" UNF	270-00153	2	2

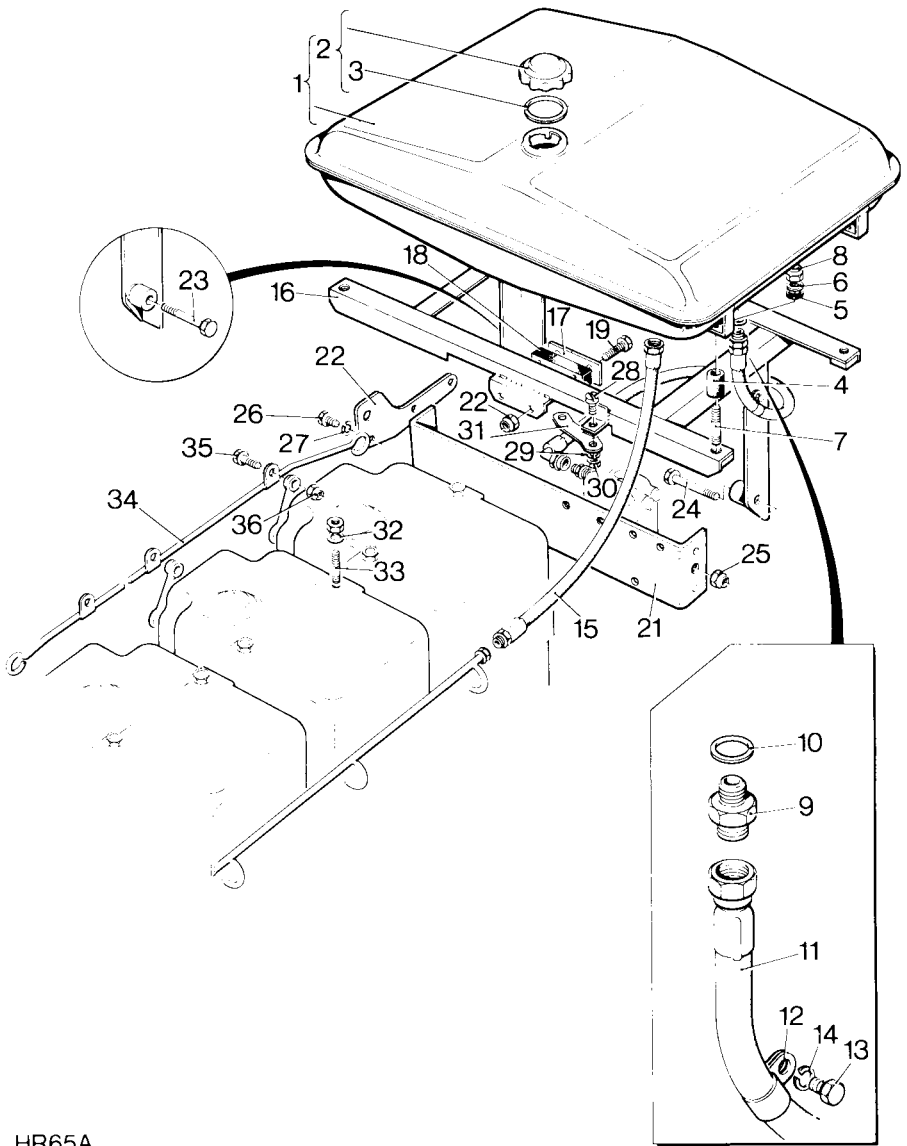


HR65A

FUEL TANK – Engine Mounted

HR2 & 3 CODE FA & FB

Illus No.	Description	Part No.	HR	
			2	3
FUEL TANK - Engine Mounted (Cont.)				
21	PIVOT SUPPORT BRACKET	382-06850	1	1
22	SUPPORT PLATE	352-13191	1	1
23	BOLT - Pivot - 7/16" UNF x 2 1/2"	270-00352	1	1
24	BOLT - Pivot Manifold Side - 7/16" UNF x 2 3/4"	270-00389	1	1
25	NUT - Self Locking - 7/16" UNF	270-00311	2	2
26	BOLT - 5/16" UNF x 5/8"	270-00059	1	1
27	SPRING WASHER	027-00413	1	1
28	BOLT - 1/4" UNF x 3/4"	270-00055	1	1
29	SPRING WASHER	027-00451	1	1
30	NUT - 1/4" UNF	270-00002	1	1
-	HOLDING DOWN STRAP - HR2	352-24800	1	-
31	HOLDING DOWN STRAP - HR3	353-24800	-	1
32	COPPER WASHER	616-01608	2	2
33	STUD - 5/16" UNF x 1 3/8" - HR3	270-00082	-	1
-	DECOMPRESSOR CONNECTING ROD ASSEMBLY - HR2	352-13230	1	-
34	DECOMPRESSOR CONNECTING ROD ASSEMBLY - HR3	353-13230	-	1
35	SCREW	064-06772/004	2	2
36	NUT - Self Locking	064-06649/003	2	2

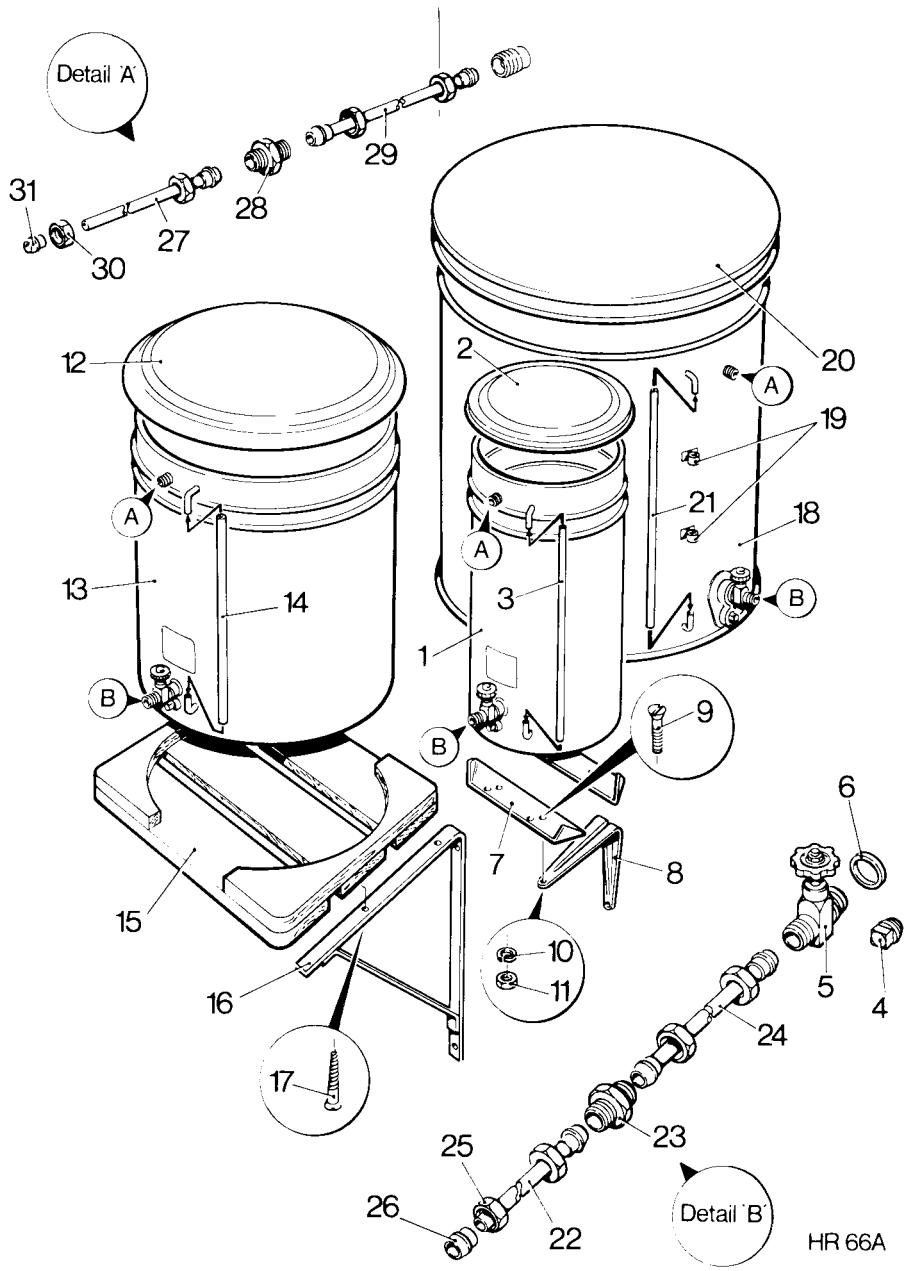


HR65A

FUEL TANK—Engine Mounted

HR2 & 3 CODE FC, FD, FE & FG

Illus No.	Description	Part No.	HR	
			2	3
FUEL TANKS - Supplied Loose				
FUEL TANK				
	- 32 LITRE / 7 GALL	Code FC	1	1
	- 90 LITRE / 20 GALL	Code FD	1	1
	- 273 LITRE / 60 GALL	Code FE	1	1
	FUEL PIPES	Code FG	1	1
FUEL TANK - 32 LITRE / 7 GALL				
1	FUEL TANK	012-24392	1	1
2	LID	010-07072	1	1
3	SIGHT TUBE	012-24398	1	1
4	DRAIN PLUG	027-00141	1	1
5	STOP VALVE	010-07050	1	1
6	JOINT	007-00406	1	1
7	PLATFORM	027-05573	2	2
8	WALL BRACKET	027-03887	2	2
9	SCREW	064-06616/013	4	4
10	SPRING WASHER	064-02582/002	4	4
11	NUT	064-06611/003	4	4
FUEL TANK - 90 LITRE / 20 GALL				
4	DRAIN PLUG	027-00141	1	1
5	STOP VALVE	010-07050	1	1
6	JOINT	007-00406	1	1
12	LID	011-07071	1	1
13	FUEL TANK	012-24399	1	1
14	SIGHT TUBE	012-24402	1	1
15	WOOD BASE	011-21673	1	1
16	BRACKET	051-00311	2	2
17	WOOD SCREW	027-06011	4	4



HR 66A

FUEL TANKS—Supplied Loose

HR2 & 3 CODE FC, FD, FE & FG

Illus No.	Description	Part No.	HR	
			2	3

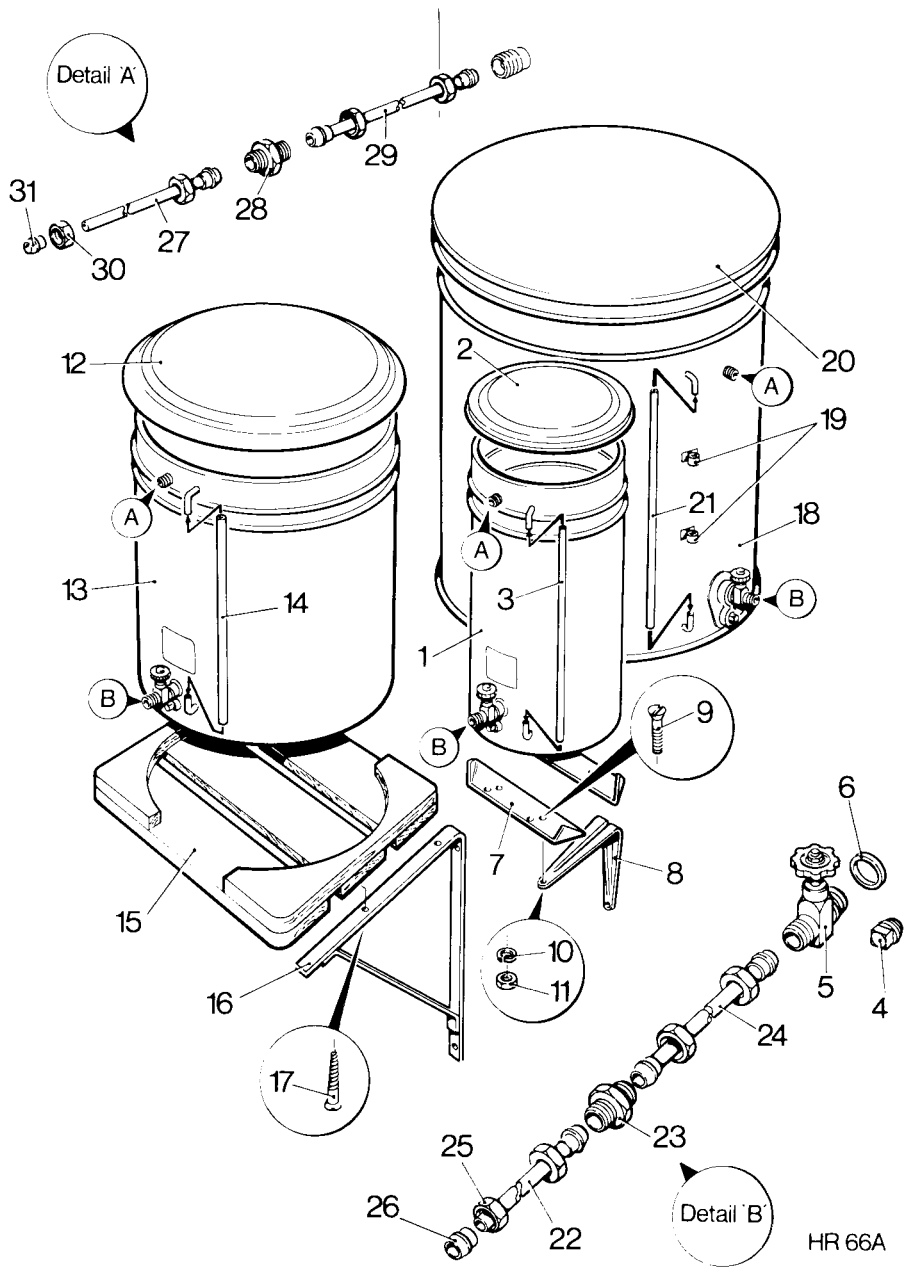
FUEL TANKS - Supplied Loose (Cont.)

FUEL TANK - 273 LITRE / 60 GALL

4	DRAIN PLUG	027-00141	1	1
5	STOP VALVE	010-07050	1	1
6	COPPER WASHER	013-21778	1	1
18	FUEL TANK ASSEMBLY Includes	010-20069	1	1
19	SUPPORT BRACKET	013-24429	2	2
20	LID	013-24436	1	1
21	SIGHT TUBE	013-24430	1	1

FUEL PIPES

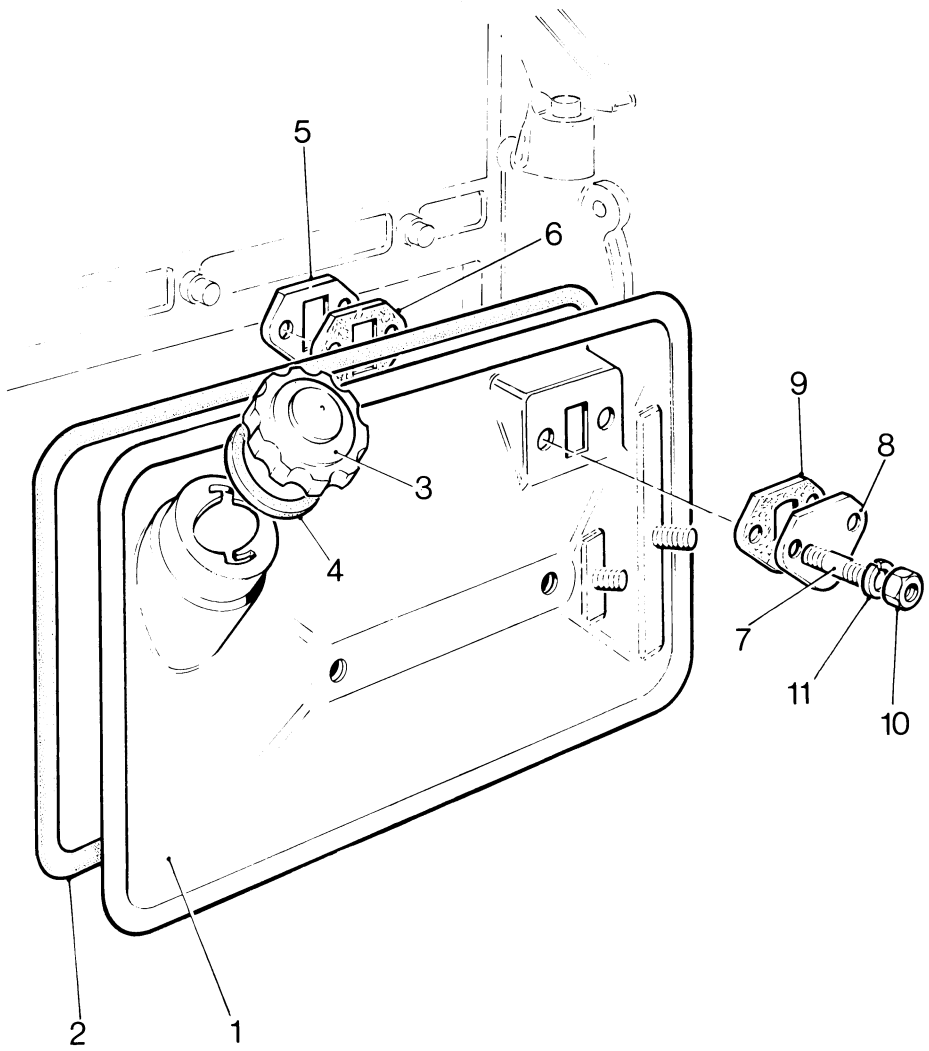
22	FUEL PIPE - Supply 2.4 metres long	364-03247	1	1
23	UNION	294-33160	1	1
24	PIPE	012-21949	1	1
25	UNION NUT	003-00284	1	1
26	NIPPLE	003-00285	1	1
27	FUEL LEAK OFF PIPE ASSEMBLY - 2.4M	366-02107	1	1
28	UNION	103-00106	1	1
29	LEAK OFF PIPE	366-00190	1	1
30	NUT	291-21151	1	1
31	NIPPLE	291-21161	1	1



FUEL TANKS—Supplied Loose

HR 2 & 3 CODE FJ

Illus No.	Description	Part No.	HR	
			2	3
CRANKCASE DOOR				
-	CRANKCASE DOOR ASSEMBLY - HR2	352-13451	1	-
1	CRANKCASE DOOR ASSEMBLY - HR3	353-13451	-	1
-	JOINT - Crankcase Door	352-11430	1	-
2	JOINT - Crankcase Door	353-11430	-	1
3	OIL FILLER CAP Includes	027-03824	1	1
4	JOINT	303-00253	1	1
5	BACKING PLATE - Fuel Lift Pump	351-12160	1	1
6	JOINT	351-12210	1	1
7	STUD - 5/16" UNF x 1 1/8"	270-00098	2	2
8	BLANKING PLATE	352-16640	1	1
9	JOINT	350-12190	1	1
10	NUT - 5/16" UNF	270-00003	2	2
11	SPRING WASHER	027-00413	2	2

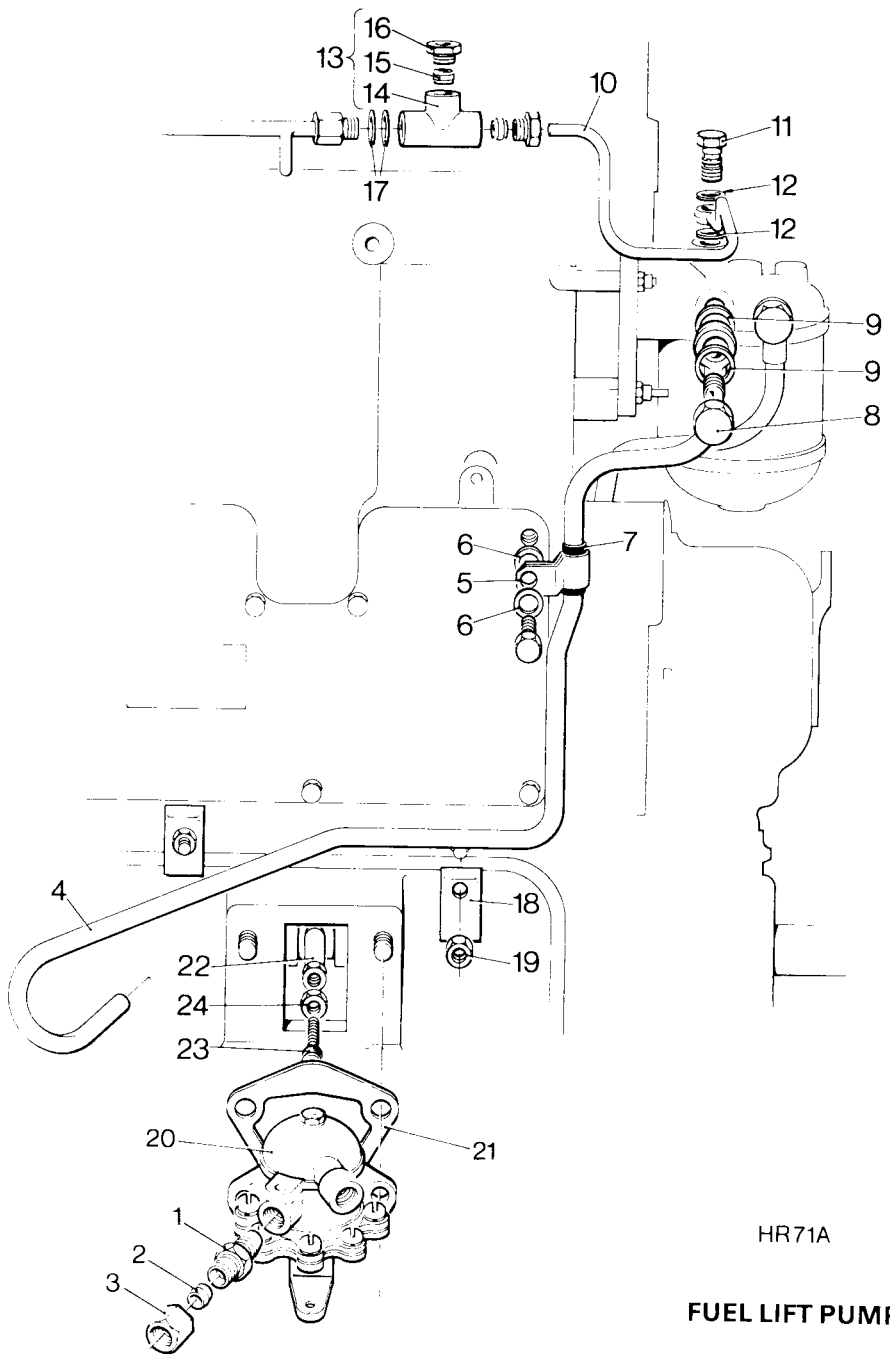


HR1A

CRANKCASE DOOR © 1983

HR2 & 3 CODE FF

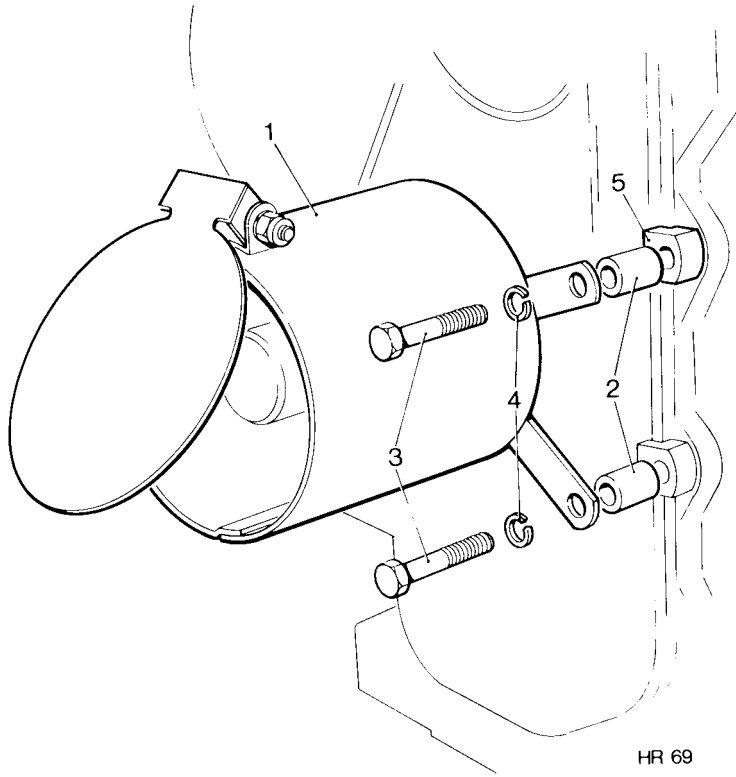
Illus No.	Description	Part No.	HR	
			2	3
FUEL LIFT PUMP				
-	FUEL LIFT PUMP ASSEMBLY	Code FF	1	1
1	UNION - Fuel Lift Pump	027-04492	2	2
2	UNION NUT	351-21630	2	2
3	OLIVE	351-21640	2	2
4	FUEL PIPE - Lift Pump to Filter	352-28732	1	1
5	CLIP	351-15020	1	1
6	COPPER WASHER	291-26090	2	2
7	FELT	201-17170	1	1
8	SWIVEL UNION PLUG	354-28380	1	1
9	COPPER WASHER	013-22350	2	2
10	VENT PIPE - Filter to Tee	382-07350	1	1
11	NON RETURN VALVE ASSEMBLY	572-10611	1	1
12	COPPER WASHER	354-26310	2	2
13	TEE PIECE Comprising	201-17212	1	1
14	TEE PIECE	201-17222	1	1
15	TUBING SLEEVE	202-16920	2	2
16	TUBING NUT	202-16930	2	2
17	JOINT WASHER	600-00106	2	2
18	CLAMP - Crankcase Door	351-12140	2	3
19	NUT - 5/16"UNF	270-00003	2	3
20	FUEL LIFT PUMP Includes	572-71981	1	1
21	JOINT	351-83310	2	2
22	PUSH ROD - Fuel Lift Pump	351-12170	1	1
23	ADJUSTING SCREW	351-12180	1	1
24	LOCK NUT - 1/4" UNF	270-00002	1	1
	SERVICE REPAIR KIT	662-10670		



HR71A

FUEL LIFT PUMP

HR2 & 3 CODE GA

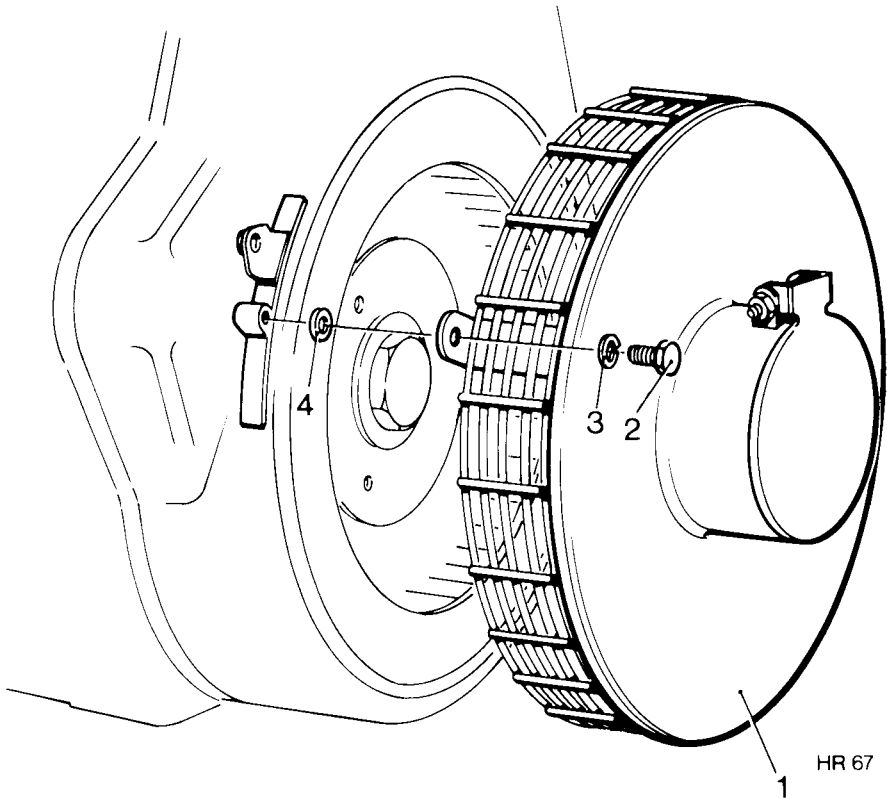


CRANKSHAFT EXTENSION GUARD - Gear End

Illus No.	Description	Part No.	HR	
			2	3

CRANKSHAFT EXTENSION GUARD - Gear Case End

-	CRANKSHAFT EXTENSION GUARD	Code GA	1	1
1	GUARD ASSEMBLY	382-06741	1	1
2	DISTANCE PIECE	382-03498	3	3
3	BOLT - 5/16" UNF x 2 1/2".....	270-00067	3	3
4	SPRING WASHER.....	027-00413	3	3
5	CLAMP - End Cover.....	351-11401	1	1

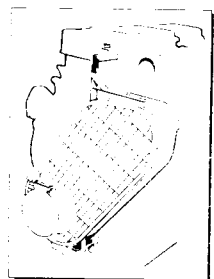
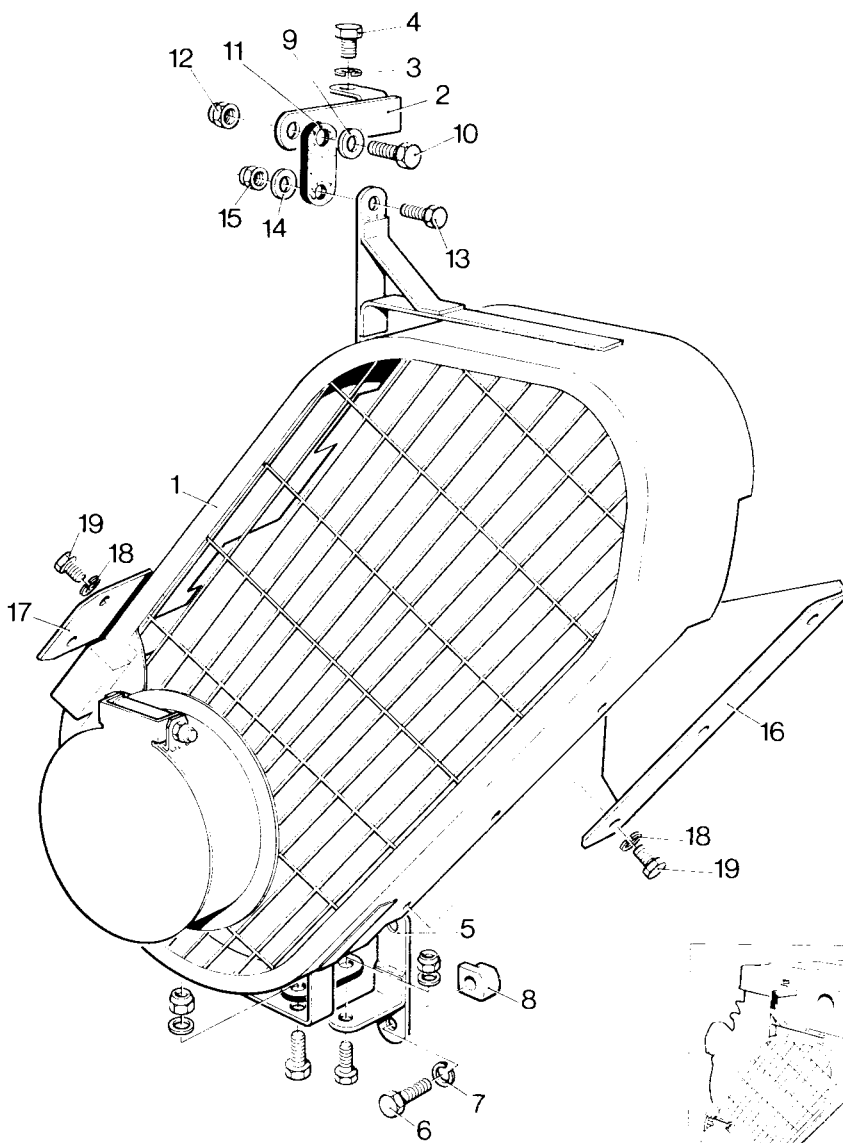


STARTING SHAFT & FLYWHEEL GUARD

Illus No.	Description	Part No.	HR	
			2	3
STARTING SHAFT & FLYWHEEL GUARD				
-	STARTING SHAFT & FLYWHEEL GUARD ASSEMBLY	Code GB	1	1
1	FLYWHEEL GUARD ASSEMBLY	382-05812	1	1
2	BOLT - 5/16" UNF x 5/8"	270-00059	3	3
3	SPRING WASHER	027-00413	3	3
4	PLAIN WASHER	027-04775	3	3

HR2 & 3 CODE GC

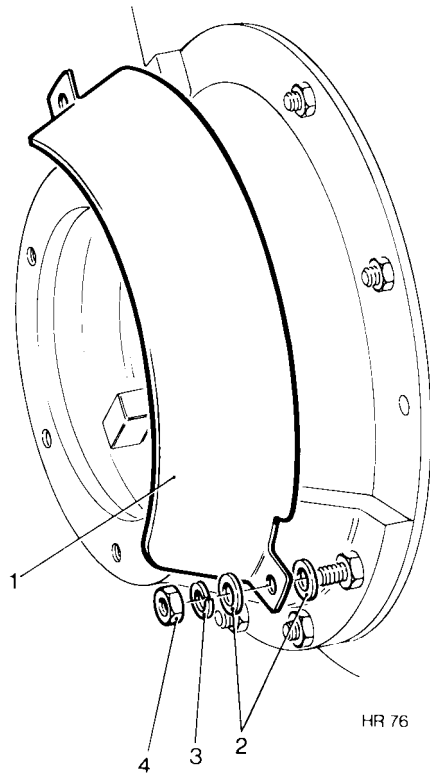
Illus No.	Description	Part No.	HR	
			2	3
ALTERNATOR BELT DRIVE GUARD				
-	BELT DRIVE GUARD ASSEMBLY	Code GC	1	1
1	BELT DRIVE GUARD ASSEMBLY	382-07387	1	1
2	MOUNTING BRACKET ASSEMBLY - Top	382-07413	1	1
3	SPRING WASHER	027-02061	1	1
4	BOLT - 9/16" UNF x 5/8"	270-00502	1	1
5	MOUNTING BRACKET ASSEMBLY - Bottom	382-06688	2	2
6	BOLT - 5/16" UNF x 1 3/8"	270-00062	4	4
7	SPRING WASHER	027-00413	2	2
8	CLAMP	351-11401	2	2
9	WASHER	354-24890	3	3
10	BOLT - M8 x 25mm	272-00040	3	3
11	FLEXIBLE MOUNTING STRAP	204-53460	3	3
12	NUT - Self Locking - M8	272-00025	3	3
13	BOLT - M6 x 25mm	272-00256	3	3
14	WASHER	204-53470	3	3
15	NUT - Self Locking - M6	272-00024	3	3
16	BLANKING PLATE	382-07320	1	1
17	BLANKING PLATE	382-07321	1	1
18	SPRING WASHER	272-00070	5	5
19	SCREW - M6 x 16mm	272-00034	5	5



HR113A

ALTERNATOR DRIVE GUARD

HR2 & 3 CODE GD



Illus
No.

Description

Part No. HR
2 3

HYDRAULIC PUMP ADAPTOR GUARD

Illus No.	Description	Part No.	HR 2	HR 3
	HYDRAULIC PUMP ADAPTOR GUARD	Code GD	1	1
1	ADAPTOR GUARD	382-06782	1	1
2	PLAIN WASHER	027-00184	4	4
3	SPRING WASHER	027-00393	2	2
4	NUT - 3/8" UNF	270-00004	2	2

WICHTIG!

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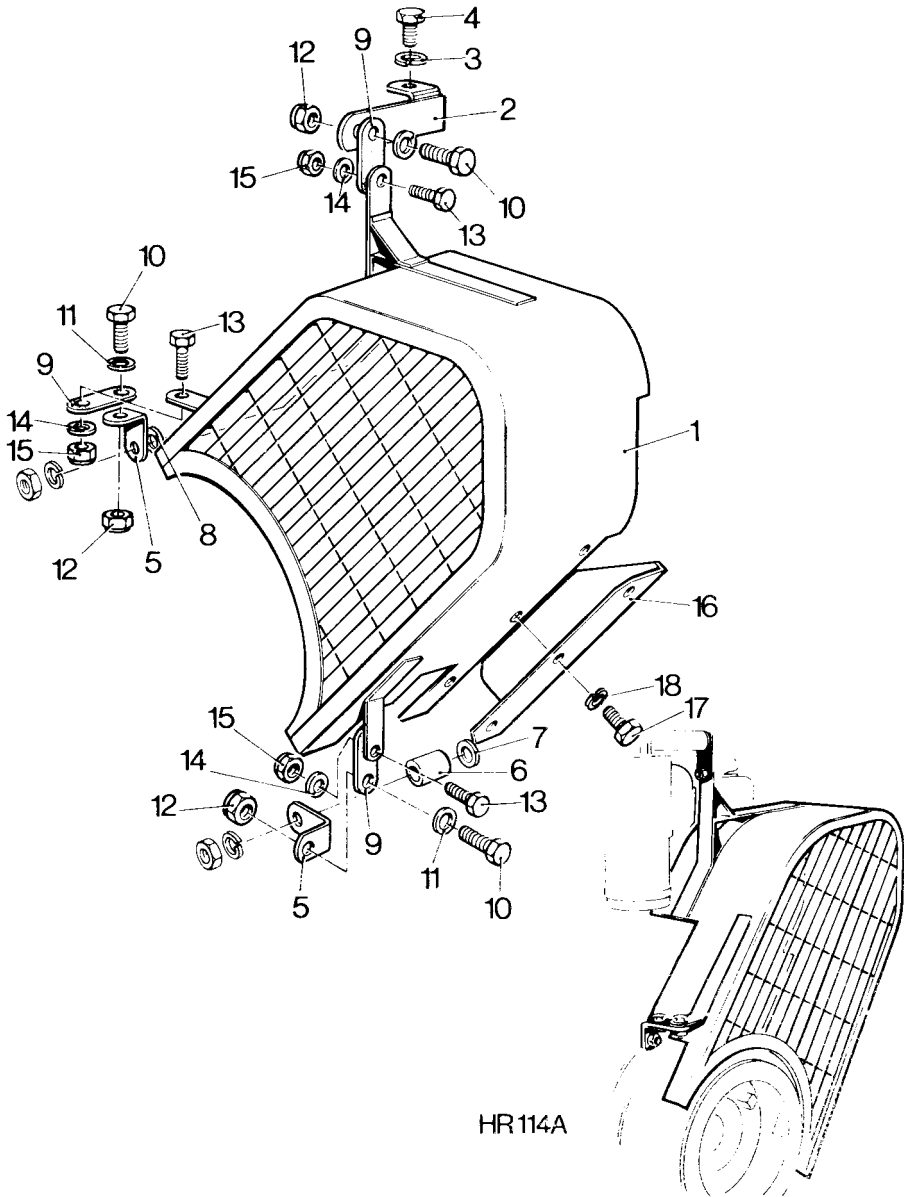
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NUR ECHTE LISTER-PETTER TEILE

HR2 & 3 CODE GE

Illus No.	Description	Part No.	HR	
			2	3
ALTERNATOR BELT DRIVE GUARD - Hydraulic Pump Drive				
-	ALTERNATOR BELT DRIVE GUARD - Hydraulic Pump Drive	Code GE	1	1
1	BELT DRIVE GUARD ASSEMBLY	382-07388	1	1
2	MOUNTING BRACKET ASSEMBLY - Top	382-07413	1	1
3	SPRING WASHER	027-02061	1	1
4	BOLT - 9/16"UNF x 5/8"	270-00502	1	1
5	MOUNTING BRACKETS	382-06777	2	2
6	SPACER	382-07208	1	1
7	PLAIN WASHER	027-00184	1	1
8	COPPER WASHER	600-00106	1	1
9	FLEXIBLE MOUNTING STRAP	204-53460	3	3
10	SCREW - M8 x 25mm	272-00040	3	3
11	WASHER	354-24890	3	3
12	NUT - Self Locking - M8	272-00025	3	3
13	BOLT - M6 x 25mm	272-00256	3	3
14	WASHER	204-53470	3	3
15	NUT - Self Locking - M6	272-00024	3	3
16	BLANKING PLATE	382-07320	1	1
17	SCREW - M6 x 16mm	272-00034	3	3
18	SPRING WASHER	272-00070	3	3

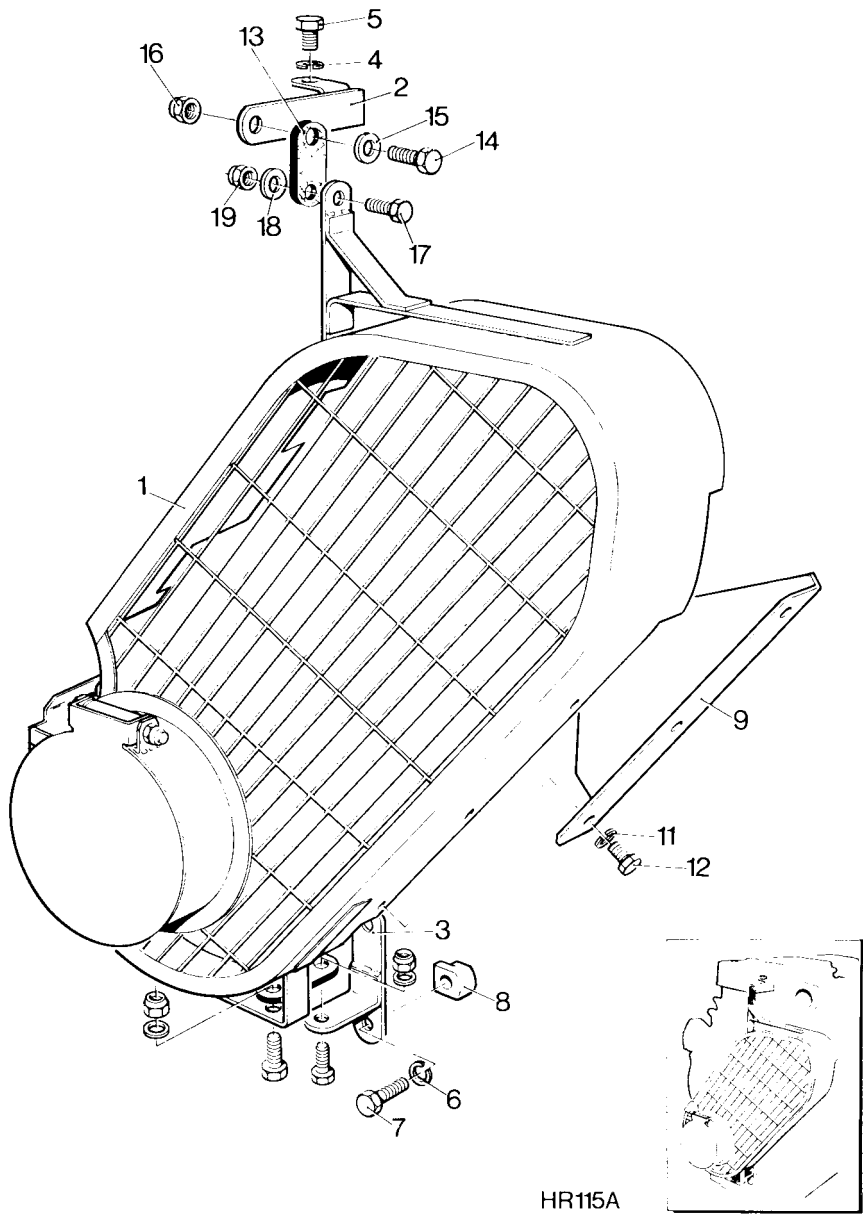


HR114A

ALTERNATOR GUARD ON HYDRAULIC PUMP DRIVE

HR2 & 3 CODE GL

Illus No.	Description	Part No.	HR	
			2	3
BELT DRIVE & ALTERNATOR GUARD - Suitable for engines with Code LB				
	BELT DRIVE & ALTERNATOR GUARD ASSEMBLY	Code GL	1	1
1	GUARD ASSEMBLY	382-07449	1	1
2	MOUNTING BRACKET - Top	382-07413	1	1
3	MOUNTING BRACKET - Bottom	382-06688	2	2
4	SPRING WASHER	027-02061	1	1
5	BOLT - 9/16" UNF x 5/8"	270-00502	1	1
6	SPRING WASHER	027-00413	2	2
7	BOLT - 5/16" x 1 3/8"	270-00062	4	4
8	CLAMP	351-11401	2	2
9	BLANKING PLATE	382-07320	1	1
10	Not Used			
11	SPRING WASHER	272-00070	3	3
12	SCREW - M6 x 16mm	272-00034	3	3
13	FLEXIBLE MOUNTING STRAP	204-53460	3	3
14	SCREW - M8 x 25mm	272-00040	3	3
15	WASHER	354-24890	3	3
16	NUT - Self Locking - M8	272-00025	3	3
17	BOLT - M6 x 25mm	272-00256	3	3
18	WASHER	204-53470	3	3
19	NUT - Self Locking - M6	272-00024	3	3

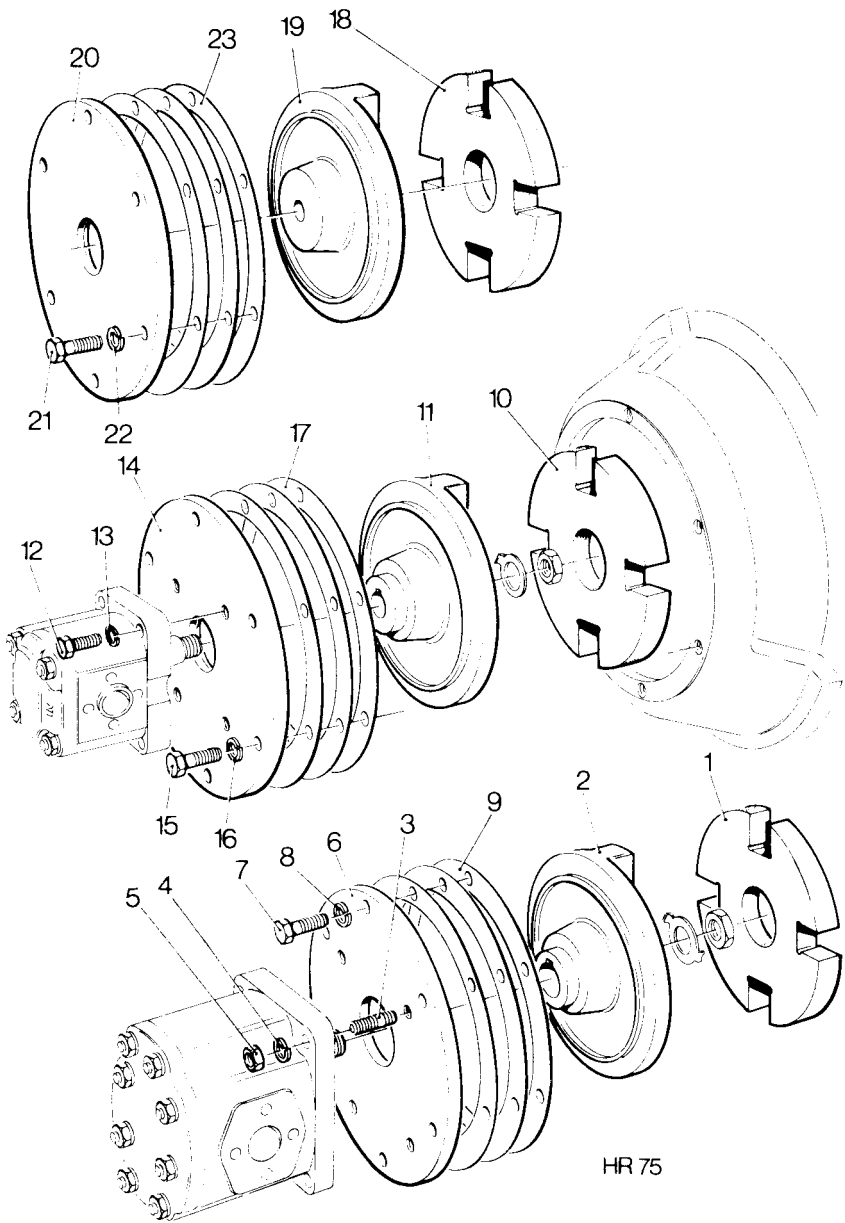


HR115A

AC5 ALTERNATOR DRIVE GUARD

HR2 & 3 CODE HC, HD & HE

Illus No.	Description	Part No.	HR	
			2	3
HYDRAULIC PUMP ADAPTOR - Gear End				
	DOWTY 2P 3000 HYDRAULIC PUMP	Code HC	1	1
	DOWTY 1P 3000 HYDRAULIC PUMP	Code HD	1	1
	PILOT BORED HALF COUPLING & MOUNTING PLATE	Code HE	1	1
ADAPTOR - Dowty 2P 3000				
1	COUPLING DISC	382-00913	1	1
2	HALF COUPLING	366-03834	1	1
3	STUD - 5/16" UNF x 1 1/2"	270-00083	4	4
4	SPRING WASHER	027-00413	4	4
5	NUT - 5/16" UNF	270-00003	4	4
6	MOUNTING PLATE	366-04843	1	1
7	BOLT - 5/16" UNF x 1 1/8"	270-00025	6	6
8	SPRING WASHER	027-00413	6	6
9	SHIM - 0.064"	366-04849	3	3
ADAPTOR - Dowty 1P 3000				
10	COUPLING DISC	382-00913	1	1
11	HALF COUPLING	382-01473	1	1
12	BOLT - 1/4" UNF x 1 1/4"	270-00366	4	4
13	SPRING WASHER	027-00451	4	4
14	MOUNTING PLATE	366-04842	1	1
15	BOLT - 5/16" UNF x 1 1/8"	270-00025	6	6
16	SPRING WASHER	027-00413	6	6
17	SHIM - 0.064"	366-04849	3	3
HALF COUPLING & MOUNTING PLATE - Pilot Bored				
18	COUPLING DISC	382-00913	1	1
19	HALF COUPLING	366-06375	1	1
20	MOUNTING PLATE	366-06374	1	1
21	BOLT - 5/16" UNF x 1 1/8"	270-00025	6	6
22	SPRING WASHER	027-00413	6	6
23	SHIM - 0.064"	366-04849	3	3

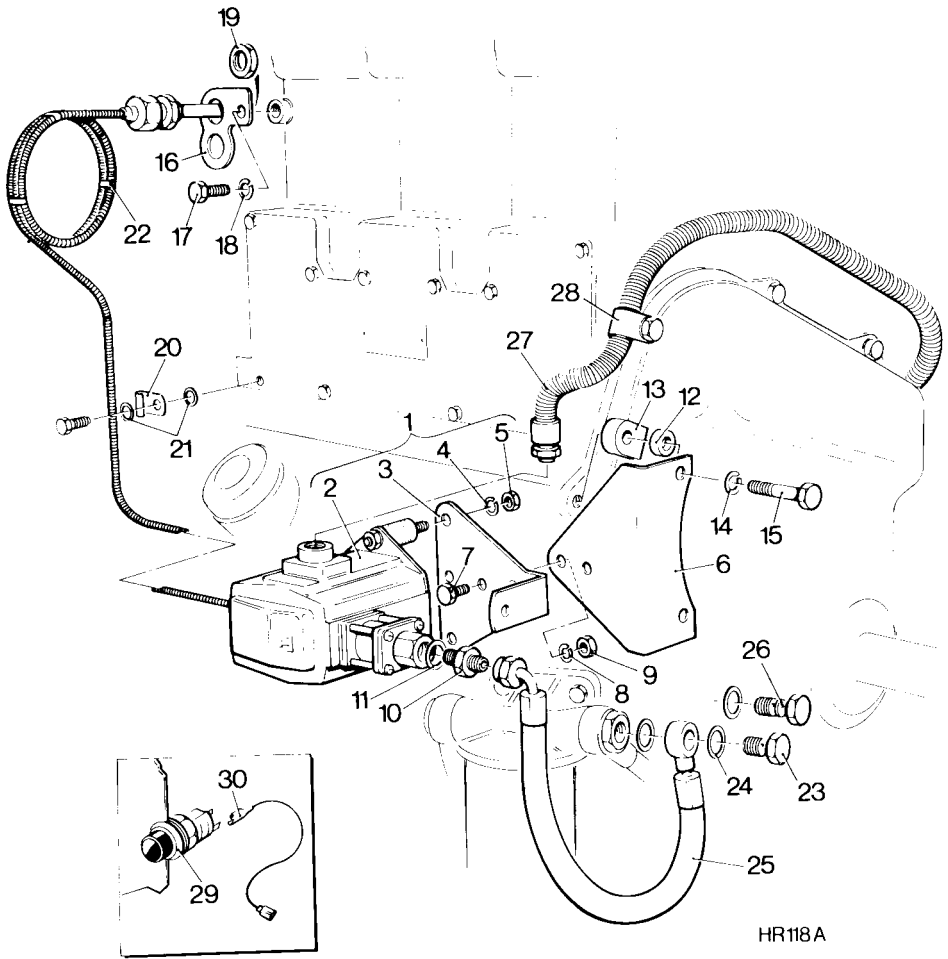


HR 75

HYDRAULIC PUMP ADAPTOR—Gear End

HR2 & 3 CODE JB

Illus No.	Description	Part No.	HR	
			2	3
COMBINED OIL PRESSURE & ENGINE TEMPERATURE SWITCH				
COMBINED OIL PRESSURE & ENGINE TEMPERATURE SWITCH ASSEMBLY Code JB				
1	SWITCH & BRACKET ASSEMBLY Comprising	572-54530	1	1
2	SWITCH - Includes	382-07330	1	1
-	FLEXIBLE MOUNTING	064-03370/002	3	3
3	BRACKET	382-07315	1	1
4	SPRING WASHER	064-02582/002	6	6
5	NUT	064-06611/003	6	6
6	BRACKET	382-07329	1	1
7	SCREW - M6 x 14mm } Switch & Bracket	272-00033	2	2
8	SPRING WASHER } Assembly to	272-00070	2	2
9	NUT - M6 } Bracket	272-00002	2	2
10	UNION - 1/4"BSP	103-00106	1	1
11	COPPER WASHER	013-22350	1	1
12	SPACER } Bracket	351-26090	2	2
13	CLAMP } to	351-11401	1	1
14	SPRING WASHER } End	027-00413	2	2
15	BOLT - 5/16"UNF x 1 3/4" } Cover	270-00064	2	2
16	BRACKET	382-03325	1	1
17	BOLT - 1/4"UNC x 1/2"	270-00376	1	1
18	SPRING WASHER	027-00451	1	1
19	LOCKNUT - 1/4"UNC - Discard 1 if gauge not fitted	027-00017	2	2
20	CLIP	351-19940	1	1
21	COPPER WASHER	291-26090	2	2
22	CABLE TIES	064-32790/001	3	3
23	SWIVEL UNION PLUG - Discard if gauge fitted	842-00359	1	1
24	JOINT WASHER - Discard 1 if gauge not fitted	600-00106	3	3
25	FLEXIBLE OIL PIPE	382-06859	1	1
26	SWIVEL UNION PLUG - Discard if gauge not fitted	292-20930	1	1
27	CABLE LOOM ASSEMBLY	382-07197	1	1
28	'P' CLIP	064-08827	1	1
29	PUSH BUTTON	366-06378	1	1
30	WIRE ASSEMBLY	366-06433	1	1
CONNECTION DIAGRAM		742-00389		



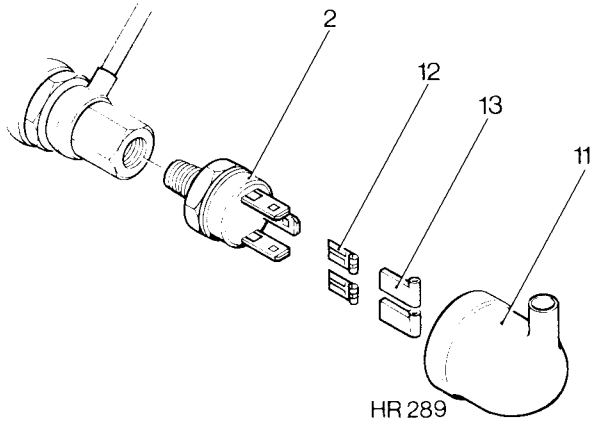
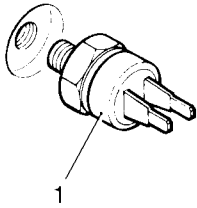
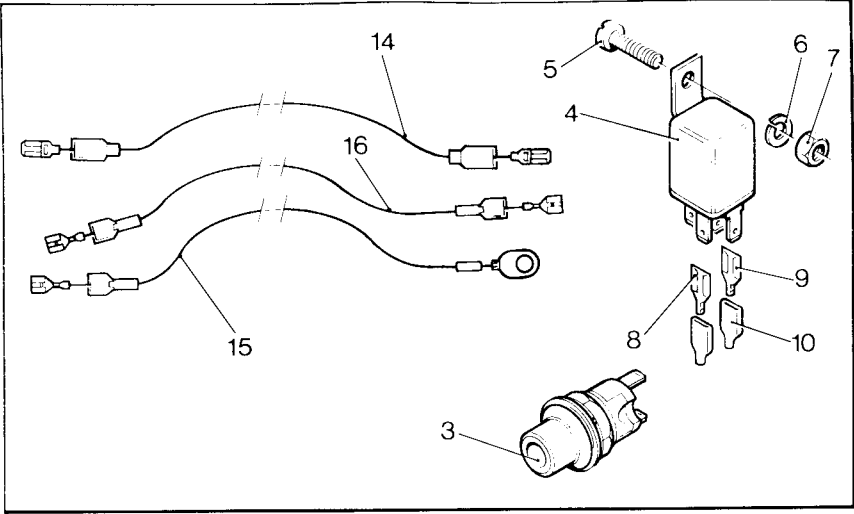
HR118A



OIL PRESSURE & ENGINE TEMPERATURE SWITCH © 1984

HR2 & 3 CODE JA & JC

Illus No.	Description	Part No.	HR	
			2	3
HEADSTAT AND OIL PRESSURE SWITCH				
	SWITCH KIT - 12V	Code JA	1	1
	SWITCH KIT - 24V	Code JC	1	1
1	HEADSTAT SWITCH	202-36650	1	1
2	OIL PRESSURE SWITCH	329-15110	1	1
3	PUSH BUTTON	366-06378	1	1
4	RELAY - 12V	382-07974	1	1
-	RELAY - 24V	691-01703	1	1
5	SCREW	064-06772/002	1	1
6	SPRING WASHER	064-02582/002	1	1
7	NUT	064-06611/003	1	1
8	PUSH ON CONNECTOR	064-33068/001	2	2
9	PUSH ON CONNECTOR	064-33380/001	2	2
10	COVER	064-33991/001	4	4
11	TERMINAL PROTECTION BOOT	757-17390	1	1
12	FLAG PUSH ON CONNECTOR	757-14150	2	2
13	COVER	757-14160	2	2
14	CABLE	366-06433	2	2
15	CABLE	382-08357	1	1
16	CABLE	366-06988	1	1



HEADSTAT AND OIL PRESSURE SWITCH © 1989

HR2 & 3 CODE JE & JF

Illus			HR
No.	Description	Part No.	2 3

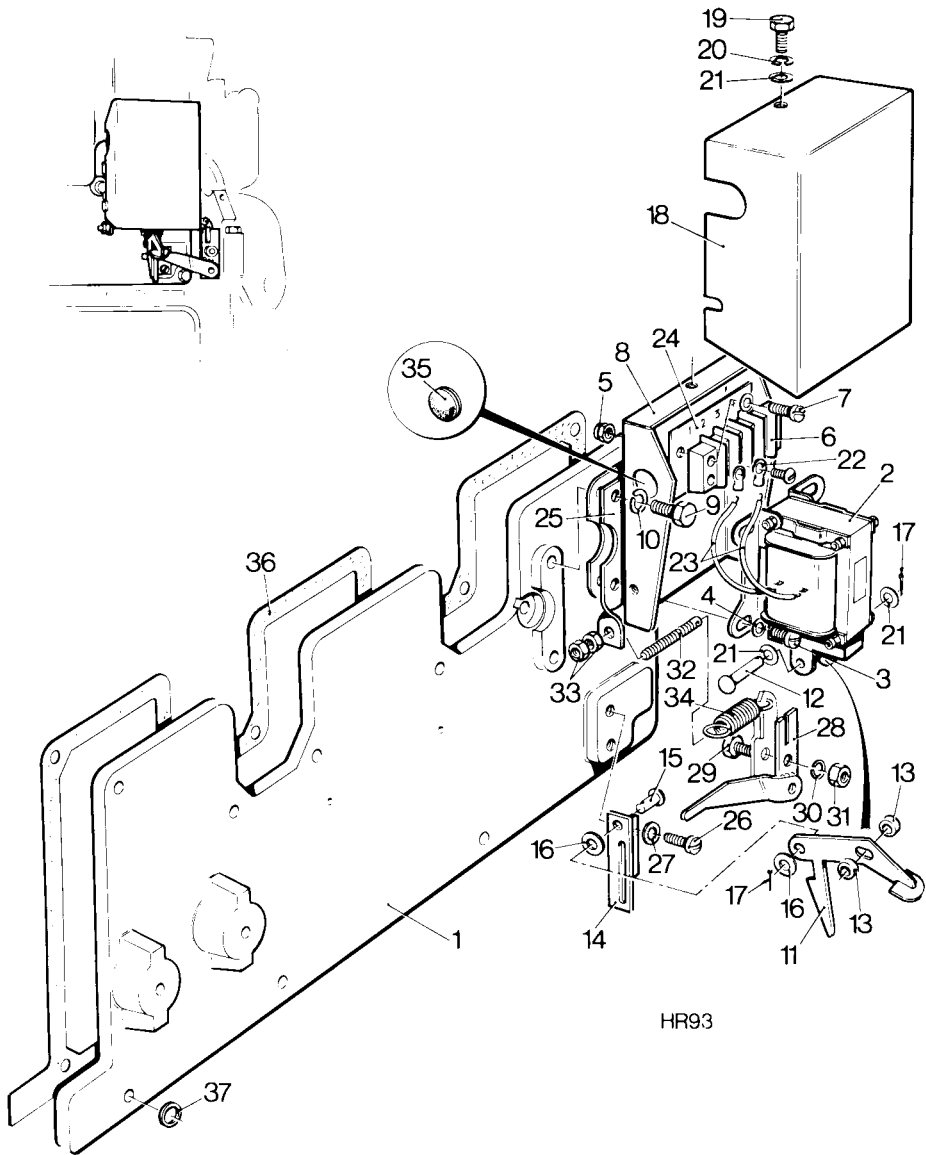
FUEL CONTROL SOLENOID - Trip Type

220 / 240V 50Hz	Code JE	1	-
110 / 115V 60Hz	Code JF	-	1

FUEL CUT-OFF SOLENOID

FUEL CUT-OFF SOLENOID ASSEMBLY

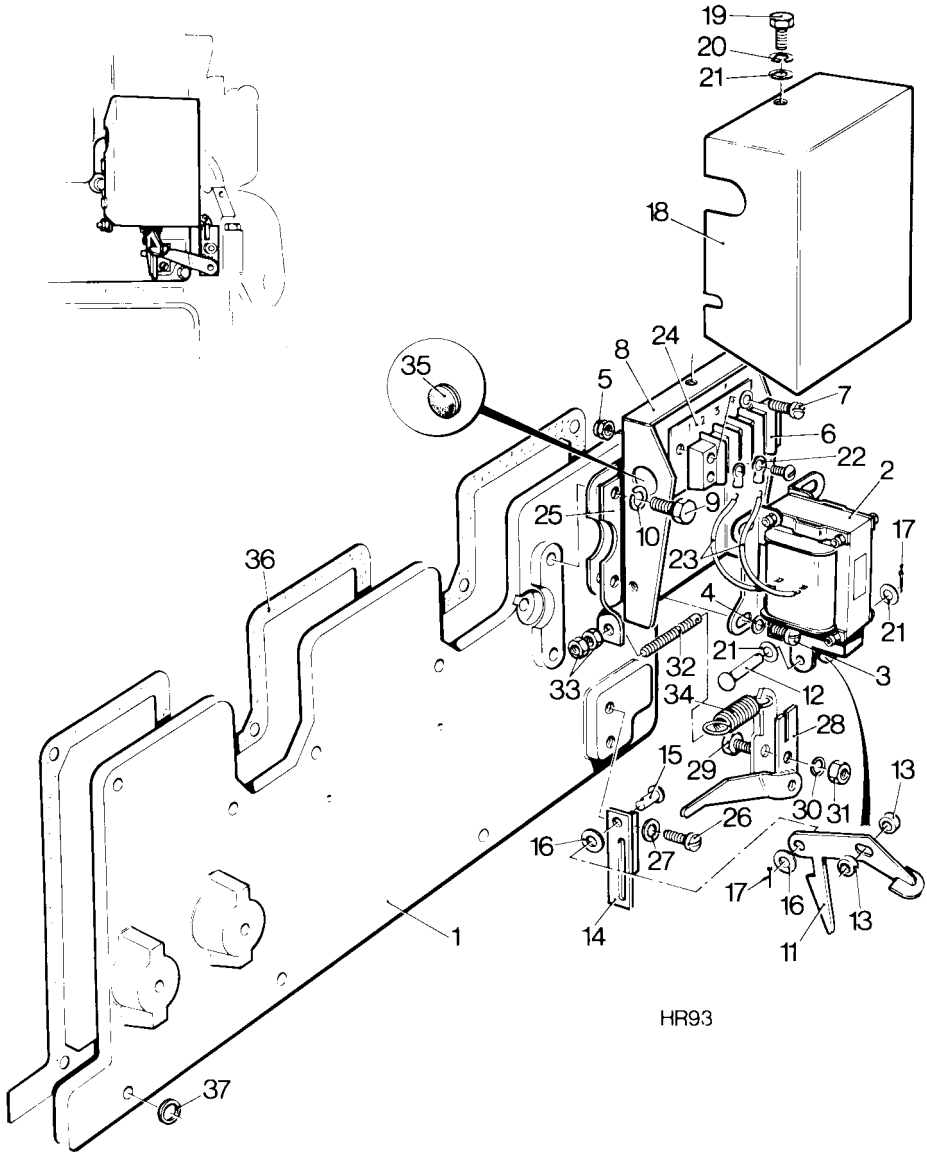
50HZ - HR2	}	Comprising	.....	382-06865	1	-
50HZ - HR3			.....	382-06869	-	1
60HZ - HR2			.....	382-06866	1	-
60HZ - HR3			.....	382-06870	-	1
-			FUEL PUMP HOUSING DOOR - HR2	064-12042	1	-
1			FUEL PUMP HOUSING DOOR - HR3	064-13059	-	1
-			SOLENOID ASSEMBLY - 50Hz Comprising	643-00185	1	1
-			SOLENOID ASSEMBLY - 60Hz Comprising	643-00186	1	1
2			SOLENOID - 50Hz	064-13177/001	1	1
-			SOLENOID - 60Hz	064-13177/002	1	1
3			SCREW	064-06772/013	4	4
4			PLAIN WASHER	064-06612/002	6	6
5			NUT - Self Locking	064-06649/002	6	6
6			TERMINAL BLOCK	064-12656/004	1	1
7			SCREW	064-06772/011	2	2
8			BASE TRAY	064-12573	1	1
9			BOLT - 1/4"UNC x 1/2"	270-00376	4	4
10			SPRING WASHER	064-02582/009	4	4
11			TRIP LEVER	064-09697	1	1
12			FULCRUM PIN - Armature	064-09692	1	1
13			SPACER	064-30899	2	2
14			BRACKET - Trip Lever	064-12579	1	1
15			HINGE RIVET	064-09690	1	1
16			PLAIN WASHER	064-06612/005	2	2
17			SPLIT PIN	064-06722/003	2	2
18			COVER	064-09707	1	1
19			SCREW	064-06771/043	3	3
20			SPRING WASHER	064-02582/002	3	3



FUEL CONTROL SOLENOID - Trip Type

HR2 & 3 CODE JE & JF

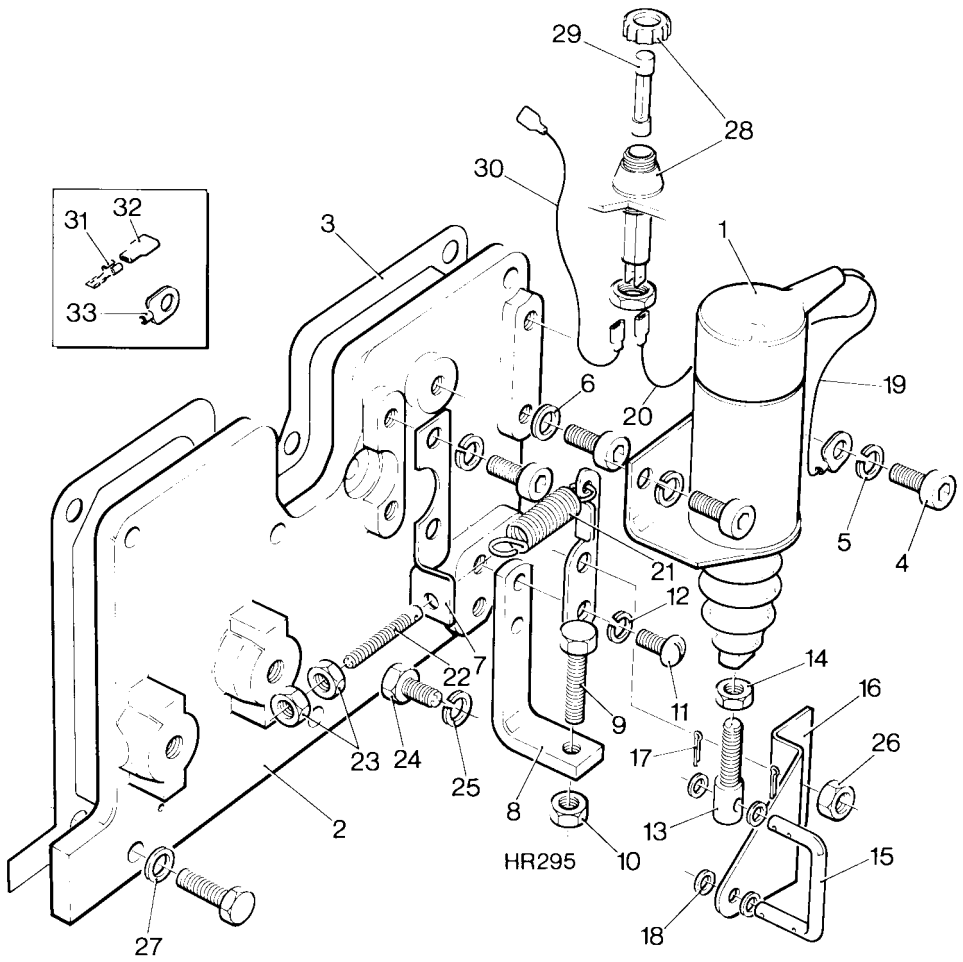
Illus No.	Description	Part No.	HR	
			2	3
FUEL CONTROL SOLENOID - Trip Type (Cont.)				
FUEL CUT-OFF SOLENOID (Cont.)				
SOLENOID ASSEMBLY (Cont.)				
21	PLAIN WASHER	064-06612/004	7	7
22	TERMINAL TAG	064-15649/003	2	2
23	CABLE	382-07784	2	2
24	LABEL	064-28445/004	1	1
25	BRACKET	064-32805	1	1
26	SCREW - No. 10 UNC x 1/2" Ch. Hd	270-00287	2	2
27	DISC WASHER - Fan	064-32229/006	2	2
28	SOLENOID LEVER ASSEMBLY	644-00107	1	1
29	SCREW - M6 x 12mm	272-00032	1	1
30	SPRING WASHER	272-00070	1	1
31	NUT - M6	272-00002	1	1
32	ADJUSTER - Spring	064-19712	1	1
33	NUT - M4	270-00001	2	2
34	SPRING	064-32937	1	1
35	HELVIN BUTTON	064-13033/006	1	1
-	JOINT - Fuel Pump Housing Door - HR2	352-15460	1	-
36	JOINT - Fuel Pump Housing Door - HR3	353-15460	-	1
37	COPPER WASHER	291-26090	7	10



FUEL CONTROL SOLENOID—Trip Type

HR2 & 3 CODE JK & JM

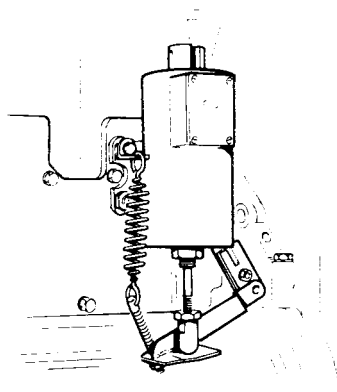
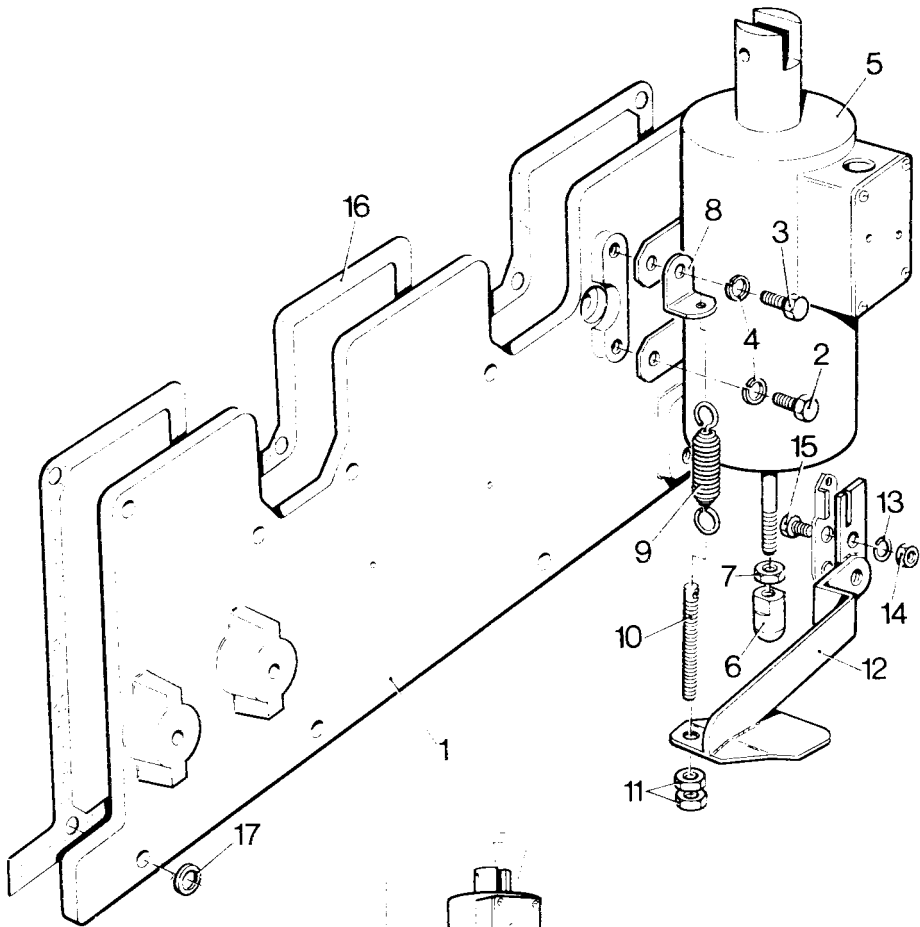
Illus No.	Description	Part No.	HR	
			2	3
FUEL CONTROL SOLENOID - ETR				
	12V SYNCHRO SOLENOID KIT	Code JK	1	1
	24V SYNCHRO SOLENOID KIT	Code JM	1	1
1	12V SOLENOID ASSEMBLY	366-06845	1	1
	24V SOLENOID ASSEMBLY	366-06905	1	1
2	DOOR - FPH - 2 Cyl	064-12042	1	-
	DOOR - FPH - 3 Cyl	064-13059	-	1
3	JOINT - 2 Cyl	352-15460	1	-
	JOINT - 3 Cyl	353-15460	-	1
4	CAPSCREW - 1/4"UNC x 5/8"	270-00664	5	5
5	SPRING WASHER	064-02582/009	4	4
6	COPPER WASHER	291-26090	1	1
7	BRACKET	064-32805	1	1
8	STOP BRACKET	382-08715	1	1
9	SETSCREW - 1/4"UNF x 1 1/4"	270-00366	1	1
10	NUT	270-00002	1	1
11	SETSCREW	270-00287	2	2
12	SPRING WASHER	064-02582/002	2	2
13	CONNECTOR	601-41390	1	1
14	LOCKNUT	270-00340	1	1
15	SOLENOID LINK	382-08694	1	1
16	SOLENOID LEVER	382-08695	1	1
17	SPLIT PIN	027-01986	4	4
18	WASHER	272-00346	4	4
19	CABLE	366-06949	1	1
20	CABLE LOOM	382-08676	1	1
21	SPRING	064-32937	1	1
22	SPRING ADJUSTER	064-19712	1	1
23	NUT	270-00001	1	1
24	SCREW	272-00032	1	1
25	SPRING WASHER	272-00070	1	1
26	NUT	272-00002	1	1
27	COPPER WASHER	291-26090	7	10
28	FUSE HOLDER	382-08042	1	1
29	FUSE LINK	382-08043	1	1
30	CABLE ASSEMBLY	366-06906	1	1
31	PUSH ON CONNECTOR	064-33068/002	1	1
32	COVER	064-33991/002	1	1
33	TERMINAL	064-15649/012	1	1



FUEL CONTROL SOLENOID — ETR © 1989

HR2 & 3 CODE JL & JN

Illus No.	Description	Part No.	HR	
			2	3
AUTOMATIC FUEL CUT-OFF SOLENOID				
AUTOMATIC FUEL CUT-OFF SOLENOID -				
	12V Energised to Stop	Code JL	1	1
	24V Energised to Stop	Code JN	1	1
-	FUEL PUMP HOUSING DOOR - HR2	382-08716	1	-
1	FUEL PUMP HOUSING DOOR - HR3	382-08717	-	1
2	BOLT - 1/4"UNC x 5/8"	270-00285	3	3
3	BOLT - 1/4"UNC x 3/4"	270-00294	1	1
4	SPRING WASHER	027-00451	4	4
-	FUEL CONTROL SOLENOID - 12V	064-18674/001	1	1
5	FUEL CONTROL SOLENOID - 24V	064-18674/002	1	1
6	KNOB - Striker Pin	064-16776	1	1
7	NUT - M6	270-00002	1	1
8	ANCHOR BRACKET - Spring	064-19684	1	1
9	SPRING	003-00174	1	1
10	ADJUSTER - Spring	064-19712	1	1
11	NUT - M4	270-00001	2	2
12	SOLENOID LEVER ASSEMBLY	644-00106	1	1
13	SPRING WASHER	272-00070	1	1
14	NUT - M6	272-00002	1	1
15	SCREW - M6 x 12mm	272-00032	1	1
-	JOINT - Fuel Pump Housing Door - HR2	352-15460	1	-
16	JOINT - Fuel Pump Housing Door - HR3	353-15460	-	1
17	COPPER WASHER	291-26090	7	10

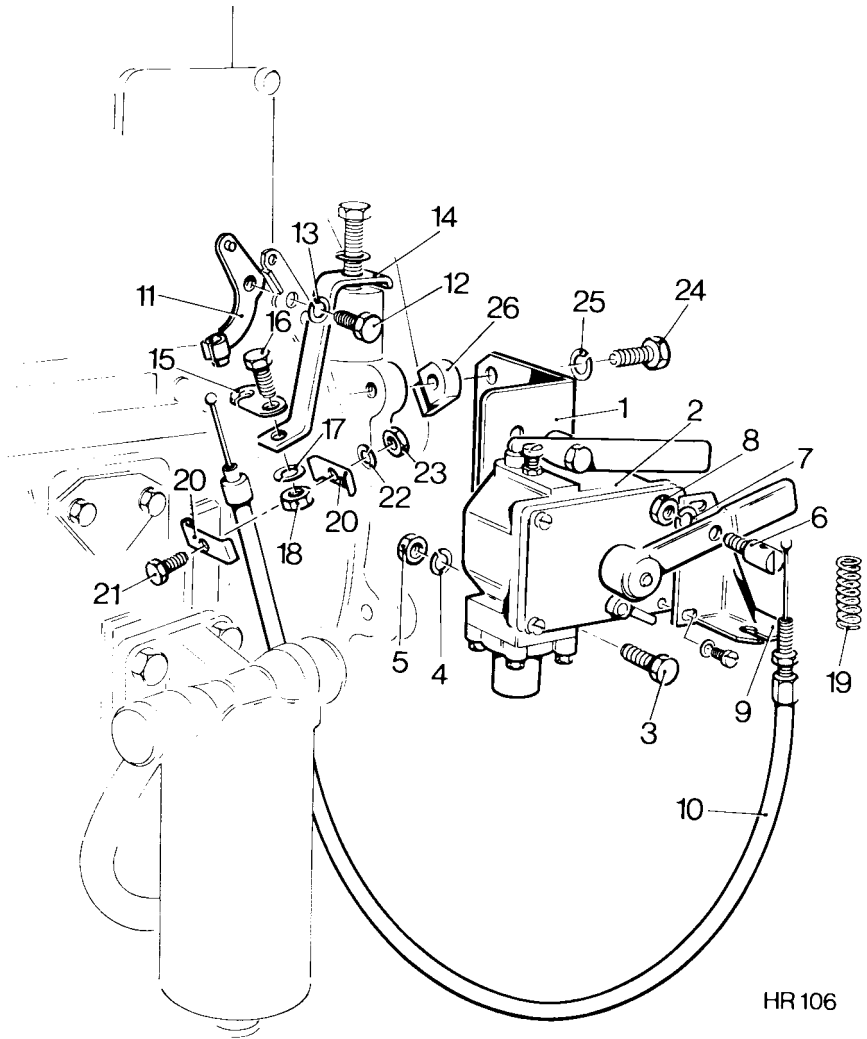


HR85

AUTOMATIC FUEL CUT-OFF SOLENOID

HR2 & 3 CODE JO

Illus No.	Description	Part No.	HR	
			2	3
ENGINE PROTECTION SYSTEM - Without Air Duct				
-	ENGINE PROTECTION SYSTEM - Without Air Duct	Code JO	1	1
1	MOUNTING BRACKET	382-07658	1	1
2	AMOT CONTROL UNIT	382-02360	1	1
3	BOLT - 1/4" UNF x 1 1/8"	270-00122	1	1
4	SPRING WASHER	027-00451	1	1
5	NUT - 1/4" UNF	270-00002	1	1
6	TERMINAL	382-00352	1	1
7	SPRING WASHER	027-00451	1	1
8	LOCKNUT - 1/4" UNF	270-00340	1	1
9	BRACKET - Cable End	382-01644	1	1
10	CONTROL CABLE	382-02364	1	1
11	EXTENSION LEVER	351-16290	1	1
12	BOLT - 1/4" UNF	270-00054	1	1
13	SPRING WASHER	027-00451	1	1
14	BRACKET	351-22311	1	1
15	BRACKET	351-22321	1	1
16	BOLT - 5/16" UNF x 1 1/4"	270-00182	1	1
17	SPRING WASHER	027-00413	1	1
18	NUT - 5/16" UNF	270-00003	1	1
19	RETURN SPRING	351-11080	1	1
20	CABLE CLIP	382-02370	2	2
21	SCREW	064-06771/003	1	1
22	SPRING WASHER	027-00717	1	1
23	NUT	064-06611/003	1	1
24	BOLT - 5/16" UNF x 1 1/4"	270-00182	1	1
	(Replaces Socket Setscrew 270-00051)			
25	SPRING WASHER	027-00413	1	1
26	CLAMP - End Cover	351-11401	1	1

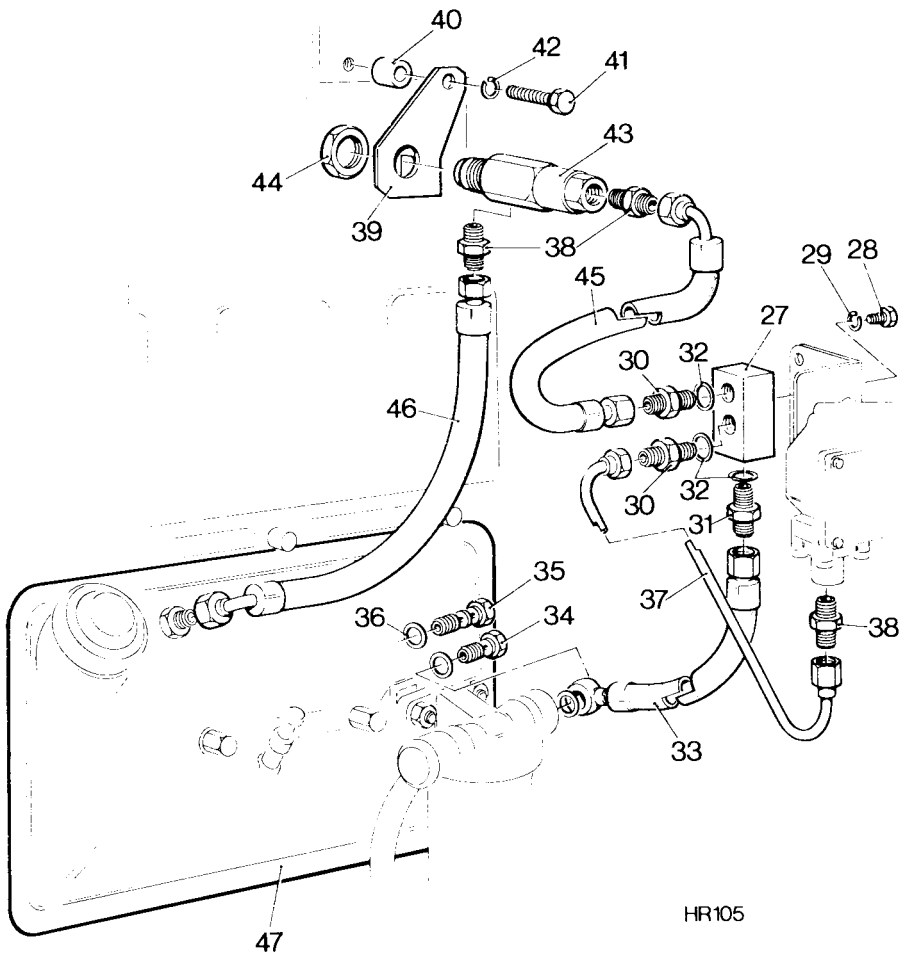


ENGINE PROTECTION SYSTEM—Without Air Duct

HR2 & 3 CODE JO

Illus No.	Description	Part No.	HR	
			2	3
ENGINE PROTECTION SYSTEM - Without Air Duct (Cont.)				
27	DISTRIBUTION BLOCK	382-07787	1	1
28	BOLT - M16 x 12mm	272-00032	2	2
29	SPRING WASHER	272-00070	2	2
30	UNION CONNECTION	103-00106	2	2
31	UNION CONNECTION - Special	382-07178	1	1
32	JOINT	013-22350	3	3
33	FLEXIBLE PIPE	389-00976	1	1
34	SWIVEL UNION PLUG - Use if no gauge fitted	842-00359	1	1
35	SWIVEL UNION PLUG - Use if gauge fitted	292-20930	1	1
36	JOINT - Only 2 required if no gauge fitted	600-00106	3	3
37	PIPE - Distribution Block to Temperature Valve	382-07265	1	1
38	UNION CONNECTION - Dry seal	013-16178	3	3
39	SUPPORT BRACKET - Temperature Valve	382-07271	1	1
40	DISTANCE PIECE	351-21720	1	1
41	BOLT - 1/4"UNF x 1 1/8"	270-00122	1	1
42	SPRING WASHER	027-00451	1	1
43	TEMPERATURE VALVE	382-07179	1	1
44	LOCKNUT	023-00299	1	1
45	FLEXIBLE PIPE - Distribution Block to Temperature Valve	389-00980	1	1
46	FLEXIBLE PIPE - Temperature Valve to Crankcase Door	691-00200	1	1
-	CRANKCASE DOOR - HR2	382-00916	1	-
47	CRANKCASE DOOR - HR3	382-00922	-	1
-	JOINT - Crankcase Door - HR2	.....	1	-
-	JOINT - Crankcase Door - HR3	As	-	1
-	FILLER CAP ASSEMBLY - Includes	Build 01	1	1
-	JOINT	.....	1	1

FITTING INSTRUCTION ON INFORMATION SHEET 506

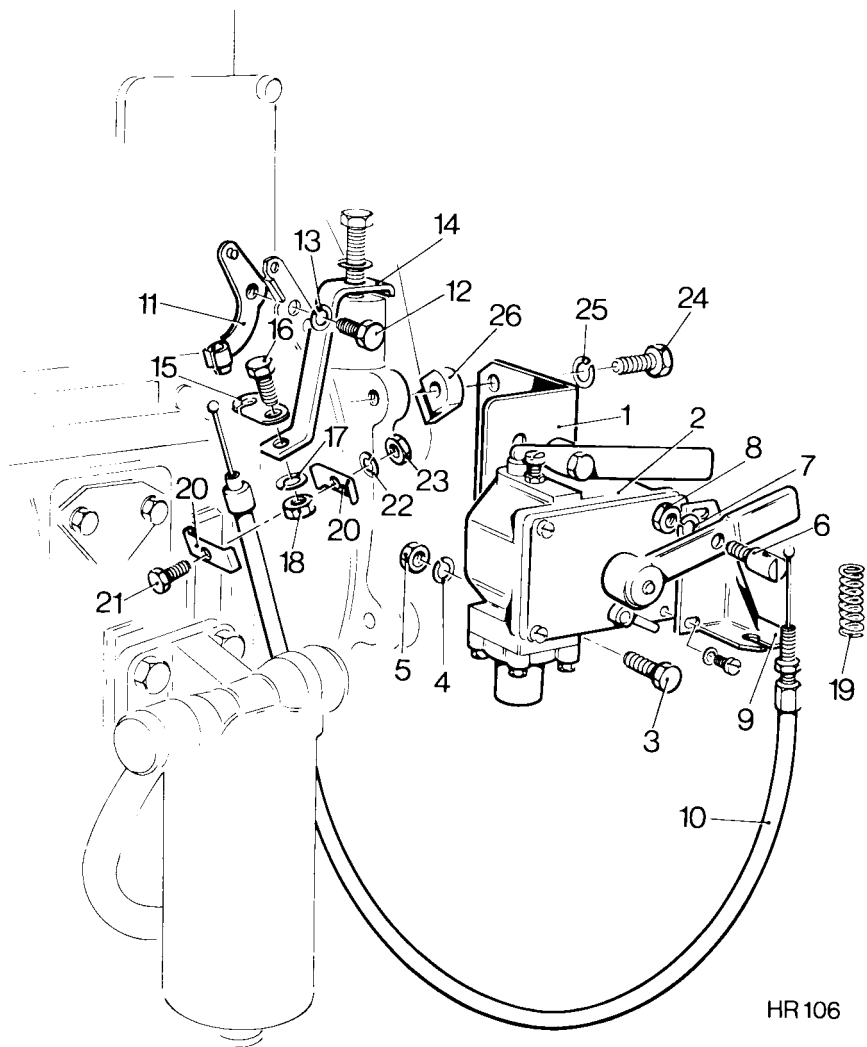


HR105

ENGINE PROTECTION SYSTEM – Without Air Duct

HR2 & 3 CODE JQ

Illus No.	Description	Part No.	HR	
			2	3
ENGINE PROTECTION SYSTEM - With Air Duct				
	ENGINE PROTECTION SYSTEM - With Air Duct	Code JQ	1	1
1	MOUNTING BRACKET	382-07658	1	1
2	CONTROL UNIT	382-02360	1	1
3	BOLT - 1/4" UNF x 1 1/8".....	270-00122	1	1
4	SPRING WASHER.....	027-00451	1	1
5	NUT - 1/4" UNF	270-00002	1	1
6	TERMINAL	382-00352	1	1
7	SPRING WASHER.....	027-00451	1	1
8	LOCKNUT - 1/4" UNF	270-00340	1	1
9	CABLE AND BRACKET	382-01644	1	1
10	CONTROL CABLE	382-02364	1	1
11	EXTENSION LEVER	351-16290	1	1
12	BOLT - 1/4" UNF x 1/2"	270-00054	1	1
13	SPRING WASHER.....	027-00451	1	1
14	BRACKET	351-22311	1	1
15	BRACKET	351-22321	1	1
16	BOLT - 5/16" UNF x 1 1/4"	270-00182	1	1
17	SPRING WASHER.....	027-00413	1	1
18	NUT - 5/16" UNF	270-00003	1	1
19	RETURN SPRING	351-11080	1	1
20	CLIP	382-02370	2	2
21	SCREW	064-06771/003	1	1
22	SPRING WASHER	027-00717	1	1
23	NUT	064-06611/003	1	1
24	BOLT - 5/16" UNF x 1/4"	270-00182	1	1
	(Replaces Socket Setscrew 270-00051)			
25	SPRING WASHER.....	027-00413	1	1
26	CLAMP - End Cover.....	351-11401	1	1



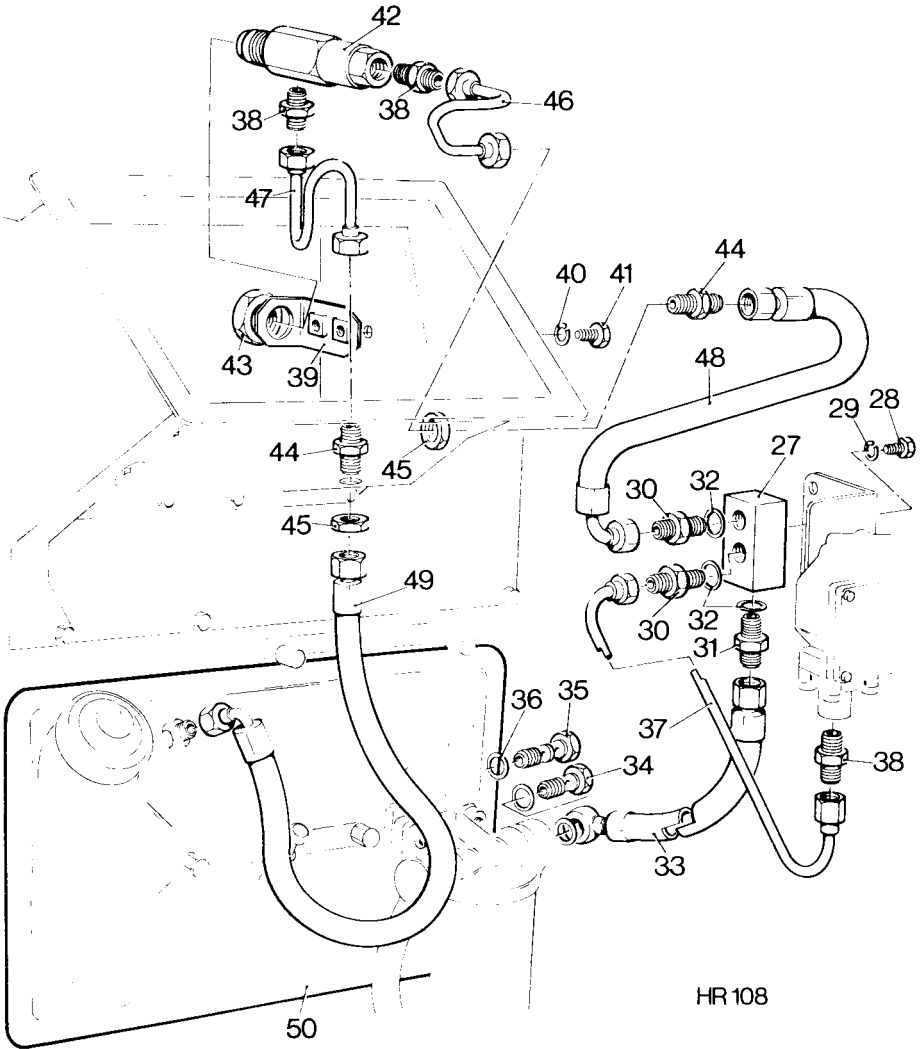
HR106

ENGINE PROTECTION SYSTEM – With Air Duct

HR2 & 3 CODE JQ

Illus No.	Description	Part No.	HR	
			2	3
ENGINE PROTECTION SYSTEM - With Air Duct (Cont.)				
27	DISTRIBUTION BLOCK	382-07787	1	1
28	BOLT - M6 x 12mm	272-00032	2	2
29	SPRING WASHER	272-00070	2	2
30	UNION CONNECTION	103-00106	2	2
31	UNION CONNECTION - Special	382-07178	1	1
32	JOINT	013-22350	3	3
33	FLEXIBLE PIPE - Filter to Distribution Block	389-00976	1	1
34	SWIVEL UNION PLUG - Use if no gauge fitted	842-00359	1	1
35	SWIVEL UNION PLUG - Use if gauge fitted	292-20930	1	1
36	JOINT - Only 2 required if no gauge fitted	600-00106	3	3
37	PIPE - Distribution Block to Control Unit	382-07265	1	1
38	UNION CONNECTION - Dry seal	013-16178	3	3
39	BRACKET	382-06823	1	1
40	SPRING WASHER	027-00451	2	2
41	BOLT - 1/4"UNF x 1/2"	270-00054	2	2
42	TEMPERATURE VALVE	382-07179	1	1
43	LOCKNUT	023-00299	1	1
44	UNION CONNECTION - In Duct	382-06820	2	2
45	LOCKNUT	034-08342	2	2
46	PIPE - Supply to Temperature Valve	382-07267	1	1
47	PIPE - Drain from Temperature Valve	382-07269	1	1
48	FLEXIBLE PIPE - Distribution Block to Duct	389-00978	1	1
49	FLEXIBLE PIPE - Duct to Crankcase Door	389-00979	1	1
-	CRANKCASE DOOR - HR2	382-00916	1	-
50	CRANKCASE DOOR - HR3	382-00922	-	1
-	JOINT - Crankcase Door - HR2	352-11430	1	-
-	JOINT - Crankcase Door - HR3	353-11430	-	1
-	FILLER CAP ASSEMBLY - Includes } As	027-03824	1	1
-	JOINT } Build 01	303-00253	1	1

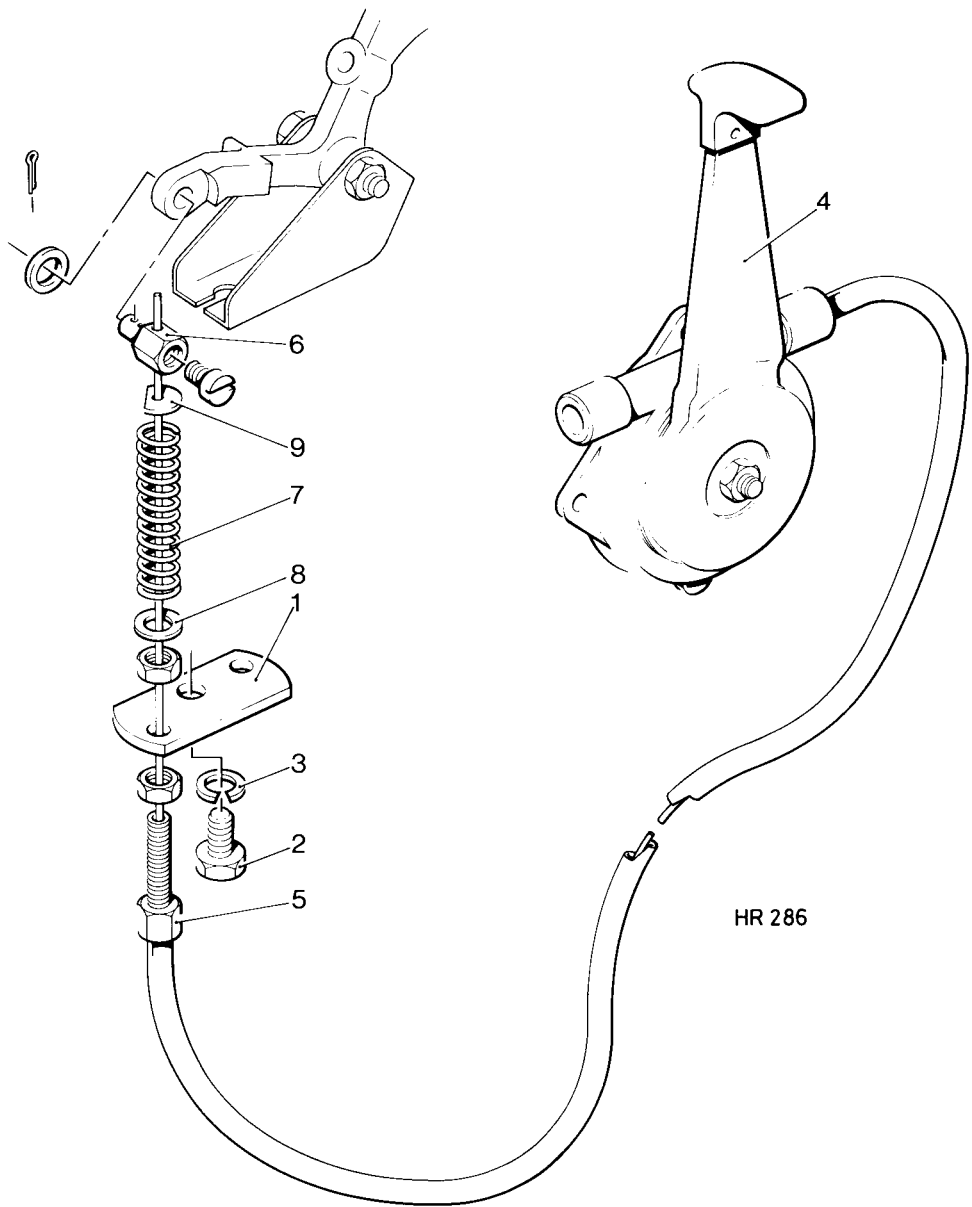
FITTING INSTRUCTION ON INFORMATION SHEET 507



ENGINE PROTECTION SYSTEM – With Air Duct

HR2 & 3 CODE KA

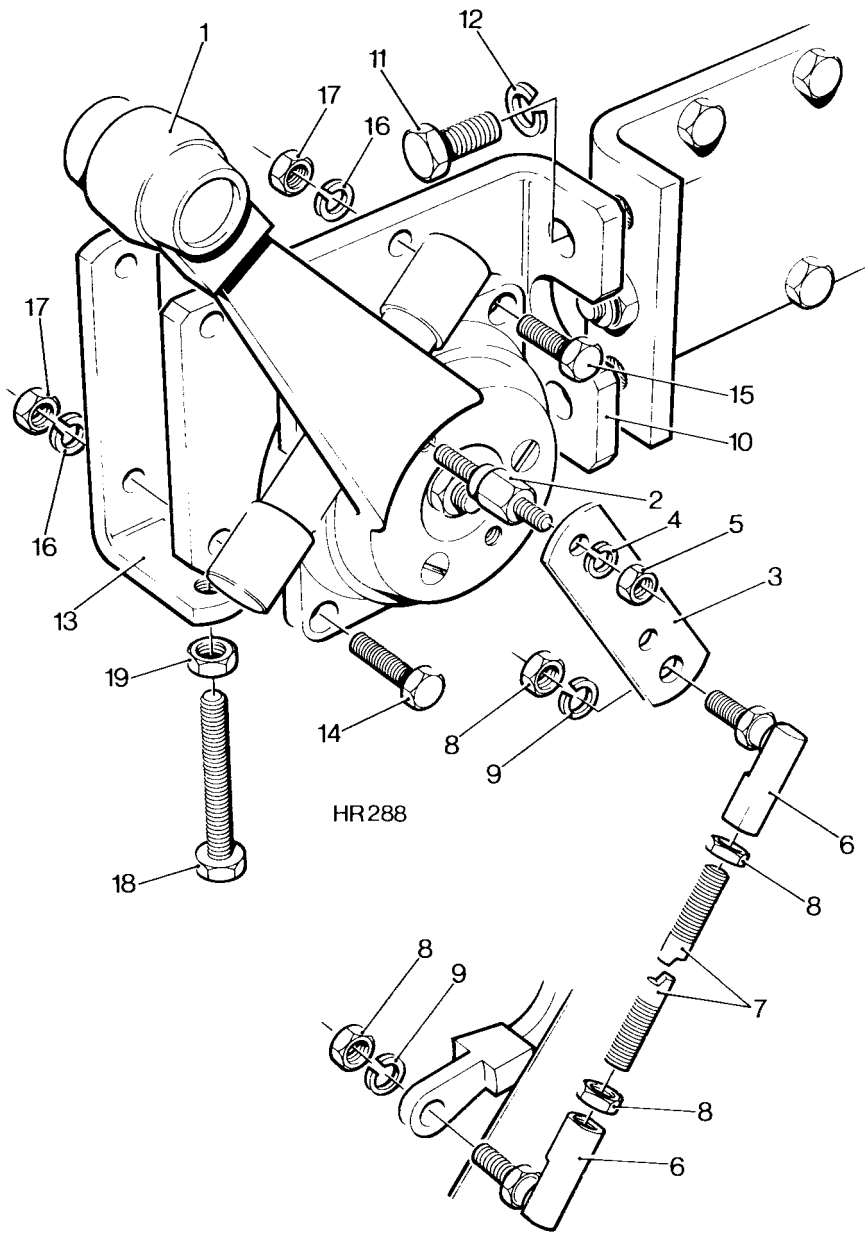
Illus No.	Description	Part No.	HR	
			2	3
VARIABLE SPEED CONTROL - Cable Operated				
	VARIABLE SPEED CONTROL	Code KA	1	1
1	FIXING PLATE - cable adjuster	382-08780	1	1
2	SETSCREW	027-01167	1	1
3	SPRING WASHER	027-00413	1	1
4	SPEED CONTROL LEVER AND CABLE	366-07069	1	1
5	CABLE END ADJUSTER	366-07070	1	1
6	SWIVEL CONNECTOR	366-07071	1	1
7	SPRING	351-24650	1	1
8	WASHER	027-00618	1	1
9	WASHER	382-08785	1	1
-	INSTRUCTION DRAWING	572-59760D	1	1



VARIABLE SPEED CONTROL—Cable Operated © 1981

HR2 & 3 CODE KB & KC

Illus No.	Description	Part No.	HR	
			2	3
VARIABLE SPEED CONTROL - Rod Operated				
VARIABLE SPEED CONTROL KIT				
	WITHOUT ENGINE MOUNTED FUEL TANK	Code KB		
	WITH ENGINE MOUNTED FUEL TANK	Code KC		
1	SPEED CONTROL LEVER ASSEMBLY	382-08876	1	1
2	PILLAR SCREW	382-08783	2	2
3	PIVOT PLATE	382-08877	1	1
4	SPRING WASHER	064-02582/002	2	2
5	NUT - 2BA	064-06611/003	2	2
6	BALL JOINT	382-08878	2	2
7	SPEED CONTROL ROD	382-08879	1	1
8	NUT - 1/4 BSF	027-00907	4	4
9	SPRING WASHER	027-00451	2	2
10	MOUNTING PLATE - Code KB	382-08778	1	1
-	MOUNTING BRACKET }	382-08880	1	1
11	SETSCREW } Code KC	270-00060	2	2
12	SPRING WASHER }	027-00413	2	2
13	BRACKET	382-08796	1	1
14	SETSCREW	270-00512	2	2
15	SETSCREW	270-00266	2	2
16	SPRING WASHER	027-00717	4	4
17	NUT	270-00001	4	4
18	SCREW	272-00350	1	1
19	NUT	272-00002	1	1
-	INSTRUCTION DRAWING - Code KB	572-71090D		
-	INSTRUCTION DRAWING - Code KC	572-71100D		

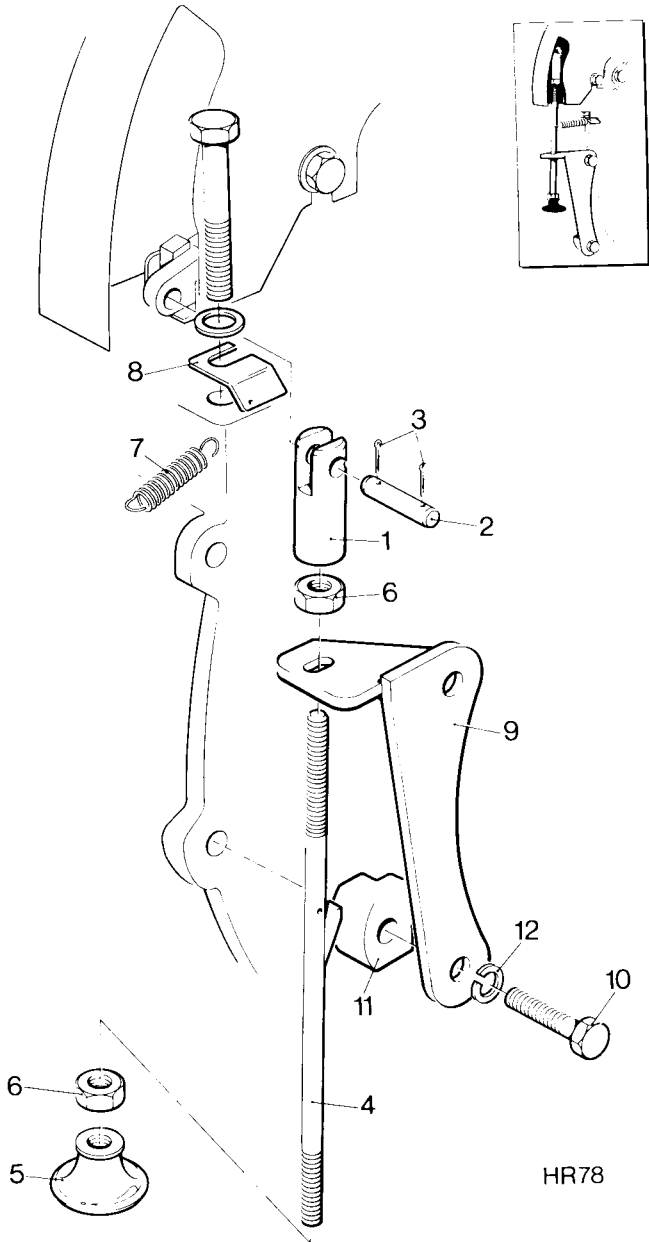


HR288

VARIABLE SPEED CONTROL—Rod Operated © 1983

HR2 & 3 CODE KD

Illus No.	Description	Part No.	HR	
			2	3
2 SPEED CONTROL				
-	2 SPEED CONTROL	Code KD	1	1
1	YOKE	367-16471	1	1
2	PIN	367-16371	1	1
3	SPLIT PIN	027-02255	2	2
4	PULL ROD ASSEMBLY	367-16360	1	1
5	KNOB	352-52850	1	1
6	NUT - 1/4" UNF	270-00002	2	2
7	SPRING	010-08062	1	1
8	SPRING ANCHOR	367-16480	1	1
9	ROD GUIDE BRACKET	367-17081	1	1
10	BOLT - 5/16" UNF x 1 3/8"	270-00062	2	2
	(Replaces Setscrews 270-00051 & 270-00182)			
11	CLAMP - End Cover	351-11401	1	1
12	SPRING WASHER	027-00413	1	1

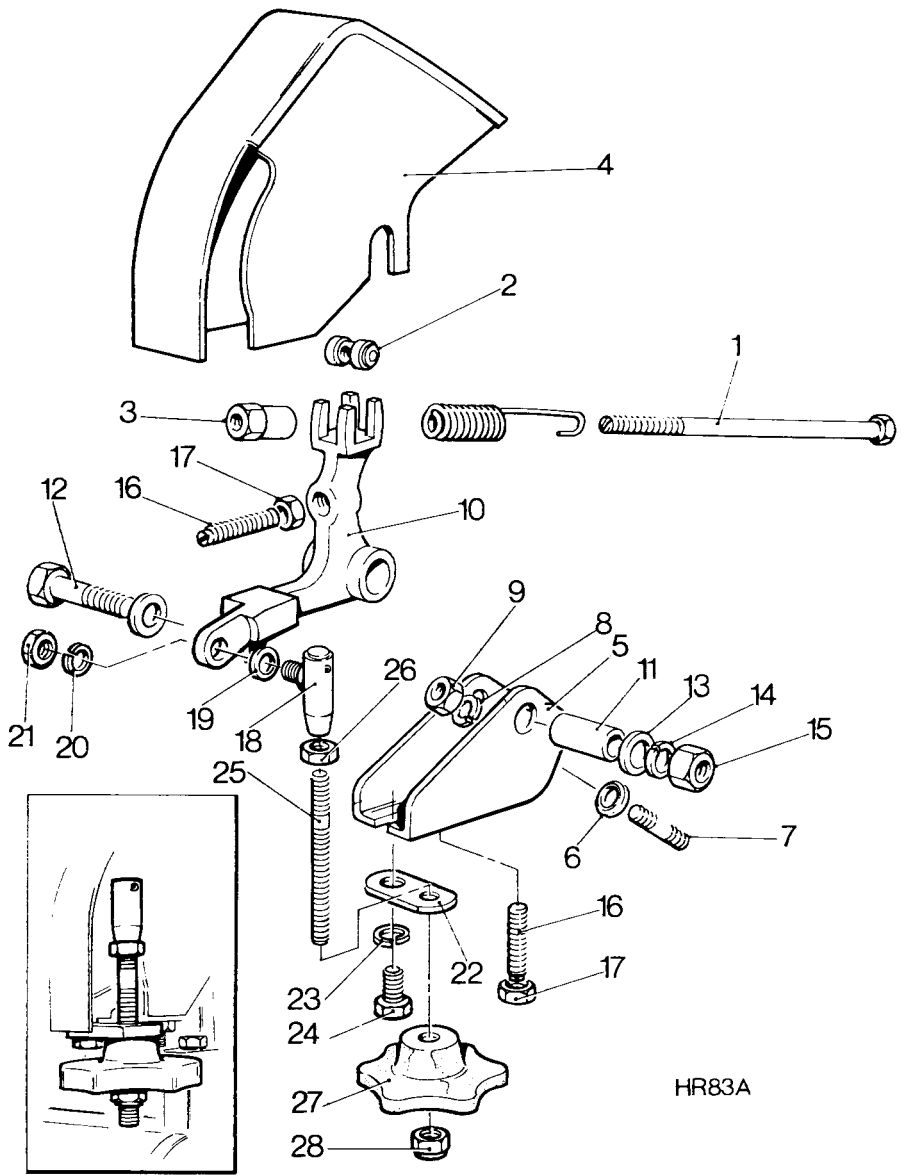


HR78

2 SPEED CONTROL

HR2 & 3 CODE KE

Illus No.	Description	Part No.	HR	
			2	3
FINE SPEED CONTROL				
	FINE SPEED CONTROL	Code KE	1	1
1	CONNECTING SPINDLE	351-12490	1	1
2	TRUNNION ASSEMBLY	572-10120	1	1
3	NUT - Adjusting	291-22310	1	1
4	GUARD ASSEMBLY	351-16150	1	1
5	BRACKET ASSEMBLY	351-12511	1	1
6	SPACER	027-04775	1	1
7	STUD - 5/16" UNF x 1 1/8"	270-00242	1	1
8	SPRING WASHER	027-00413	1	1
9	NUT - 5/16" UNF	270-00003	1	1
10	LEVER	351-82690	1	1
11	DISTANCE PIECE	367-16160	1	1
12	BOLT - 5/16" UNF X 1 3/4" - Brass	270-00370	1	1
13	PLAIN WASHER	064-06612/008	1	1
14	SPRING WASHER	027-00413	1	1
15	NUT - 5/16" UNF - Brass	270-00014	1	1
16	ADJUSTING SCREW	201-15161	2	2
17	NUT - 1/4" UNF	270-00002	2	2
18	BALL JOINT	351-16500	1	1
19	COPPER WASHER	616-01414	1	1
20	SPRING WASHER	027-00451	1	1
21	NUT	027-00907	1	1
22	BRACKET	382-06767	1	1
23	SPRING WASHER	027-00413	1	1
24	SETSCREW	027-01167	1	1
25	STUD - Adjustment	382-06768	1	1
26	NUT	027-00907	1	1
27	HAND NUT	382-00212	1	1
28	NUT - Self Locking	064-06649/006	1	1

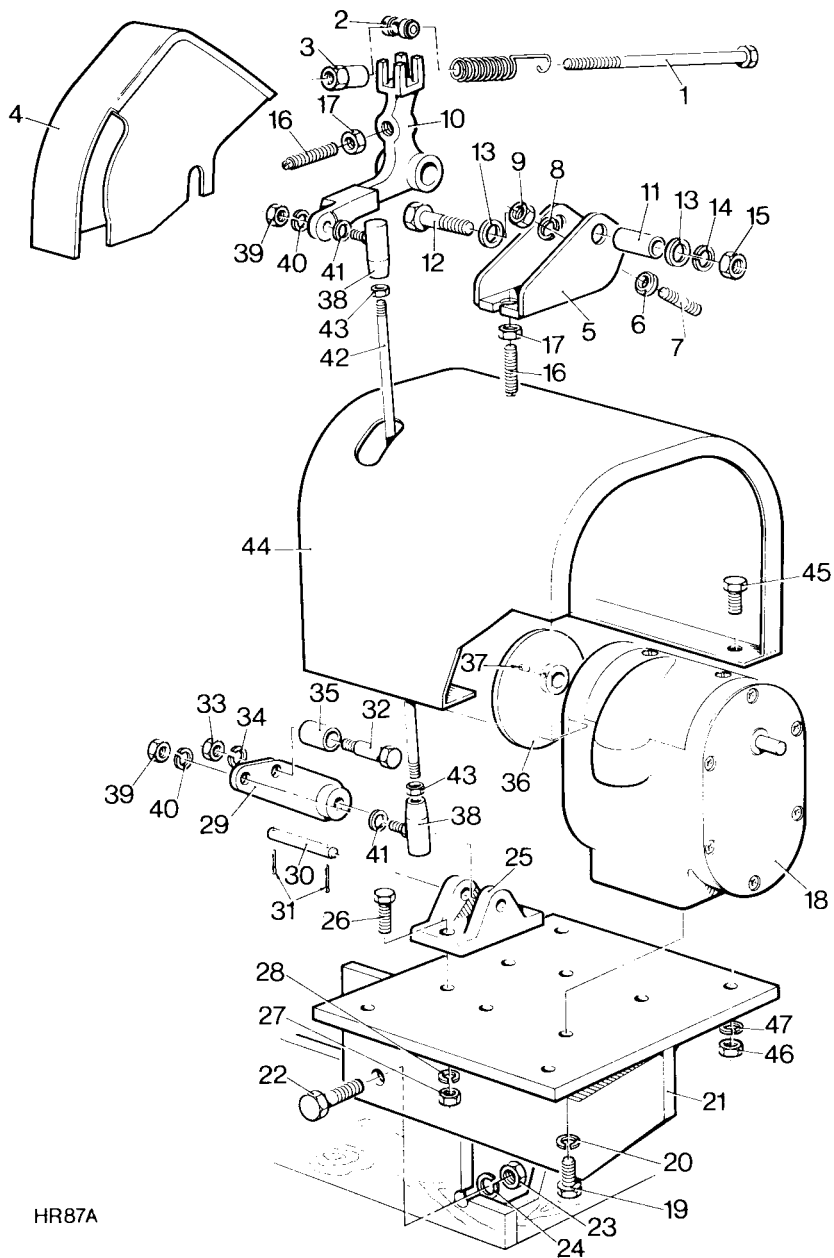


HR83A

FINE SPEED CONTROL

HR2 & 3 CODE KF & KG

Illus No.	Description	Part No.	HR	
			2	3
MOTORISED FINE SPEED CONTROL				
MOTORISED FINE SPEED CONTROL				
	- 200 / 250V 50Hz	Code KF	1	1
	- 200 / 250V 60Hz	Code KG	1	1
1	CONNECTING SPINDLE	351-12490	1	1
2	TRUNNION ASSEMBLY	572-10120	1	1
3	ADJUSTING NUT	291-22310	1	1
4	GUARD ASSEMBLY	351-16150	1	1
5	BRACKET ASSEMBLY	351-12511	1	1
6	SPACER	027-04775	1	1
7	STUD - 5/16" UNF x 1 1/8"	270-00242	1	1
8	SPRING WASHER	027-00413	1	1
9	NUT - 5/16" UNF	270-00003	1	1
10	LEVER	351-82690	1	1
11	DISTANCE PIECE	367-16160	1	1
12	BOLT - Brass - 5/16" UNF x 1 3/4"	270-00370	1	1
13	PLAIN WASHER	064-06612/008	2	2
14	SPRING WASHER	027-00413	1	1
15	NUT - 5/16" UNF	270-00014	1	1
16	ADJUSTING SCREW	201-15161	2	2
17	NUT - 1/4" UNF	270-00002	2	2
18	GEARED MOTOR UNIT - 50Hz	064-10454/001	1	1
-	GEARED MOTOR UNIT - 60Hz	064-10454/003	1	1
19	SCREW - M6 x 16mm	272-00034	4	4
20	SPRING WASHER	272-00070	4	4
21	SUPPORT BRACKET	064-14032	1	1
22	BOLT	027-00894	2	2
23	NUT	027-00906	2	2
24	SPRING WASHER	027-00393	2	2



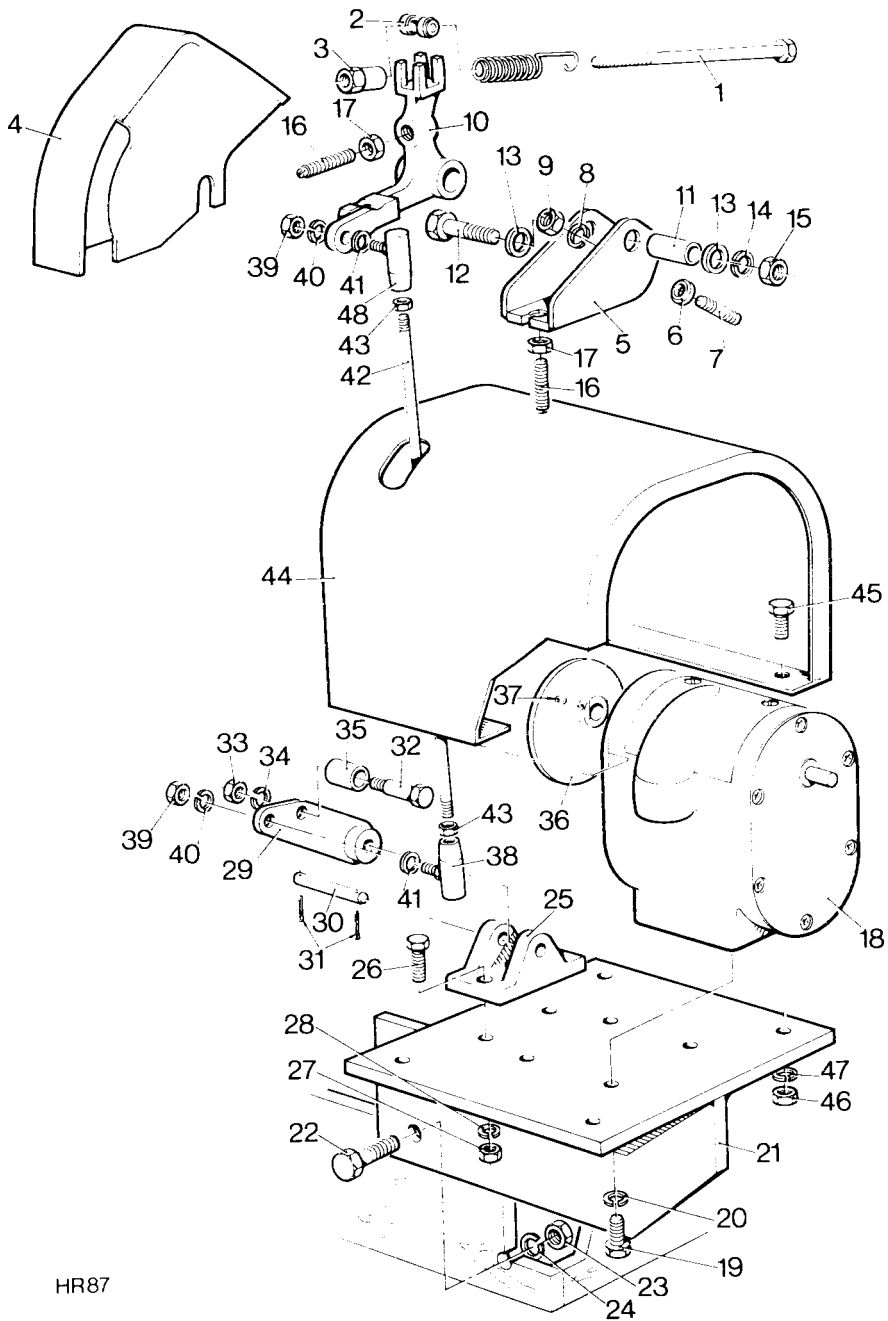
HR87A

MOTORISED FINE SPEED CONTROL

HR2 & 3 CODE KF & KG

Illus No.	Description	Part No.	HR	
			2	3
MOTORISED FINE SPEED CONTROL (Cont.)				
25	LEVER BRACKET	064-14034	1	1
26	BOLT	027-00886	2	2
27	NUT	027-00907	2	2
28	SPRING WASHER	027-00451	2	2
29	LEVER	064-14033	1	1
30	FULCRUM PIN	064-14035	1	1
31	SPLIT PIN	027-02255	2	2
32	FULCRUM BOLT	064-14040	1	1
33	NUT	027-00907	1	1
34	SPRING WASHER	027-00451	1	1
35	ROLLER	064-10390	1	1
36	CAM	064-10391	1	1
37	GRUB SCREW	027-03762	1	1
38	COUPLING BALL JOINT	351-16500	2	2
39	NUT	027-00907	2	2
40	SPRING WASHER	027-00451	2	2
41	COPPER WASHER	616-01414	2	2
42	COUPLING ROD	351-16493	1	1
43	NUT	027-00907	2	2
44	COVER	064-14036	1	1
45	BOLT	027-00886	4	4
46	NUT	027-00907	4	4
47	SPRING WASHER	027-00451	4	4

FITTING INSTRUCTIONS ON INFORMATION SHEET 485

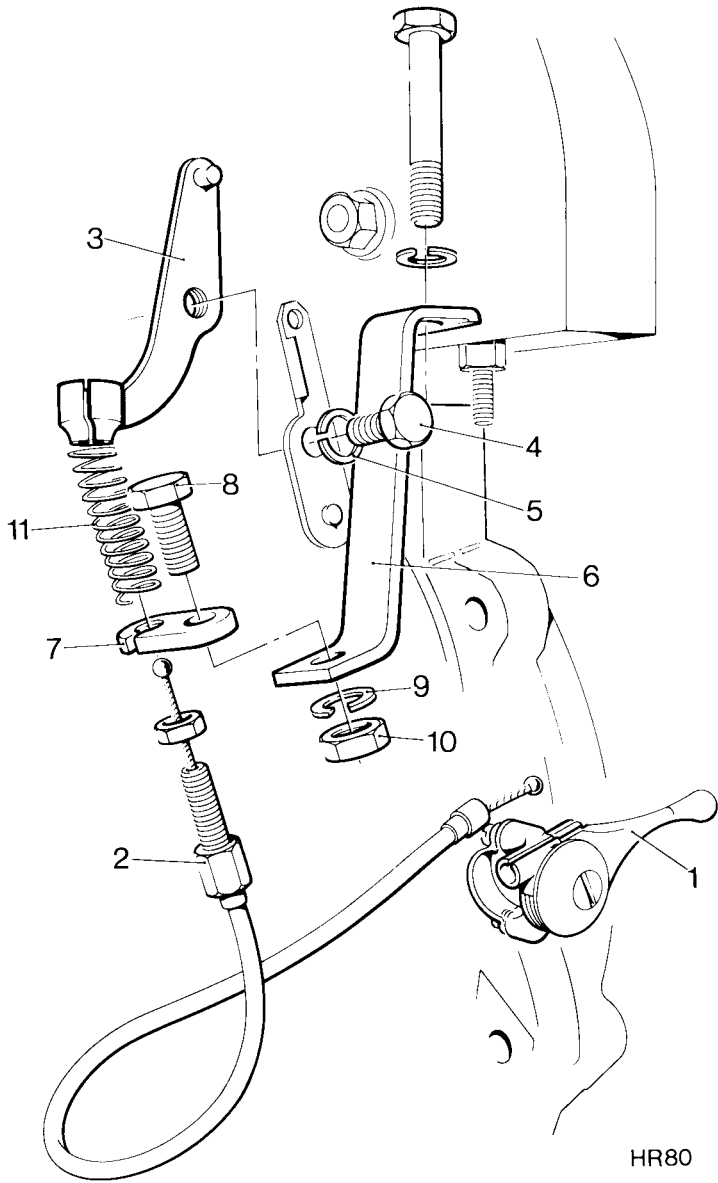


HR87

MOTORISED FINE SPEED CONTROL

HR2 & 3 CODE KH

Illus No.	Description	Part No.	HR	
			2	3
REMOTE STOPPING CONTROL				
	REMOTE STOPPING CONTROL	Code KH	1	1
-	CABLE & LEVER ASSEMBLY Comprising	201-17021	1	1
1	LEVER	201-17030	1	1
2	CABLE & WIRE ASSEMBLY - 1.8m (6'0")	201-13543	1	1
3	EXTENSION LEVER	351-16290	1	1
4	BOLT - 1/4"UNF x 1/2"	270-00054	1	1
5	SPRING WASHER	027-00451	1	1
6	BRACKET - Stopping Control	351-22311	1	1
7	BRACKET	351-22321	1	1
8	BOLT - 5/16"UNF x 3/4"	270-00060	1	1
9	SPRING WASHER	027-00413	1	1
10	NUT - 5/16" UNF	270-00003	1	1
11	RETURN SPRING	351-24650	1	1

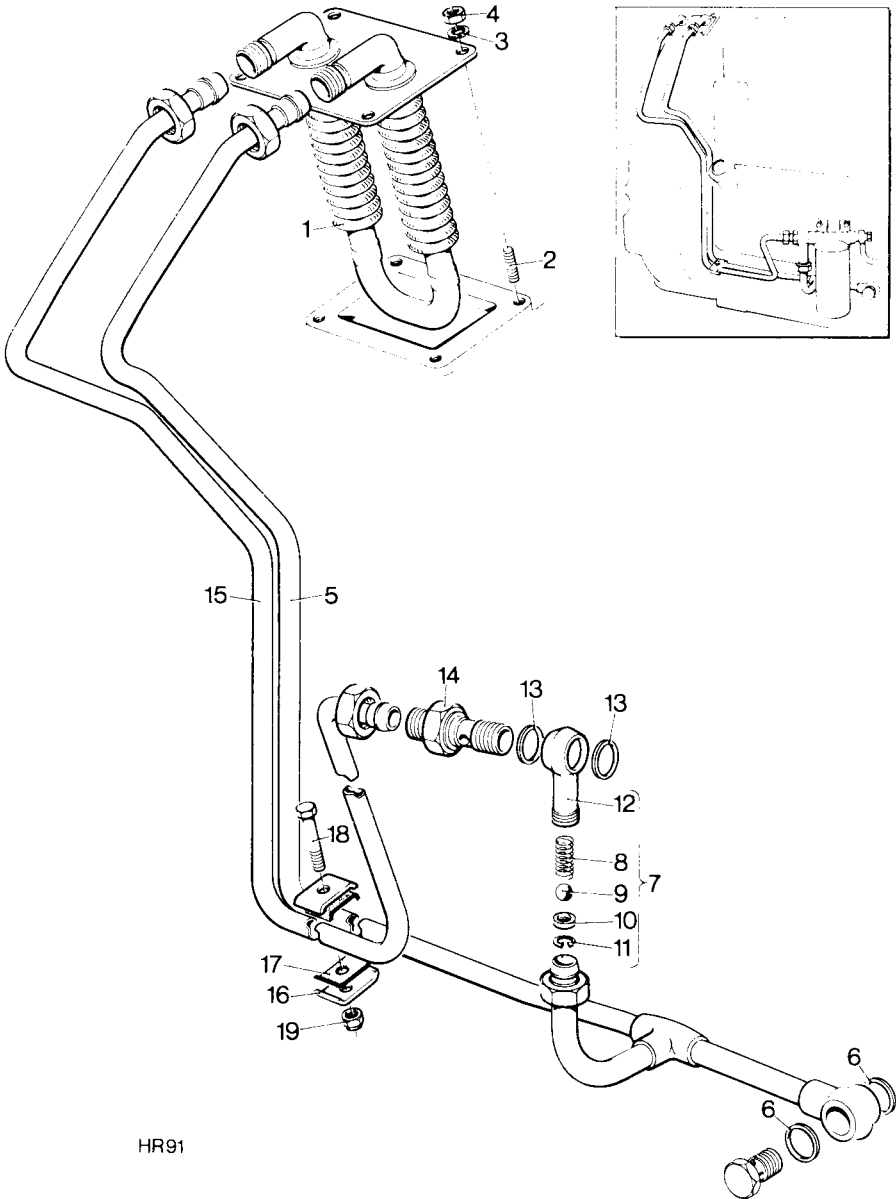


HR80

REMOTE STOPPING CONTROL

HR3 CODE LA

Illus No.	Description	Part No.	HR	
			2	3
LUBRICATING OIL COOLER				
	LUBRICATING OIL COOLER	Code LA	-	1
1	LUBRICATING OIL COOLER	353-16683	-	1
2	STUD - 1/4" UNC/UNF x 7/8"	270-00387	-	4
3	SPRING WASHER	027-00451	-	4
4	NUT - 1/4" UNF	270-00002	-	4
5	PIPE - Lubricating Oil	353-17160	-	1
6	JOINT	013-21778	-	2
7	BYPASS VALVE ASSEMBLY Comprising	572-10860	-	1
8	SPRING	351-11810	-	1
9	BALL	007-00425	-	1
10	VALVE SEAT	352-16800	-	1
11	CIRCLIP	352-16810	-	1
12	VALVE BODY	352-16780	-	1
13	JOINT	013-21778	-	2
14	BYPASS CONNECTION	352-16790	-	1
15	PIPE - Lubricating Oil	353-17170	-	1
16	CLIP	351-18080	-	2
17	FELT	351-18090	-	2
18	BOLT - 1/4" UNF x 1 1/2"	270-00205	-	1
19	NUT - Self Locking - 1/4" UNF	270-00153	-	1

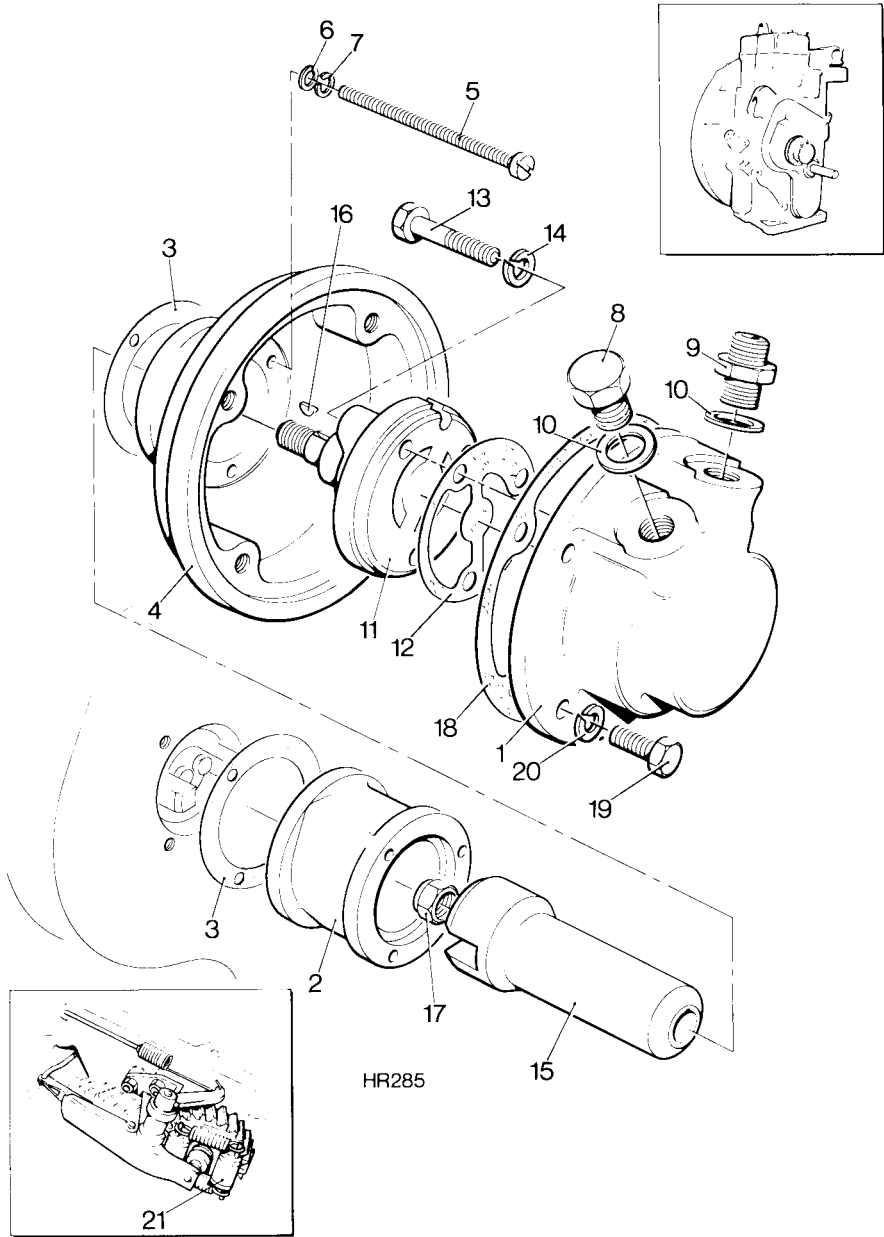


HR91

LUBRICATING OIL COOLER

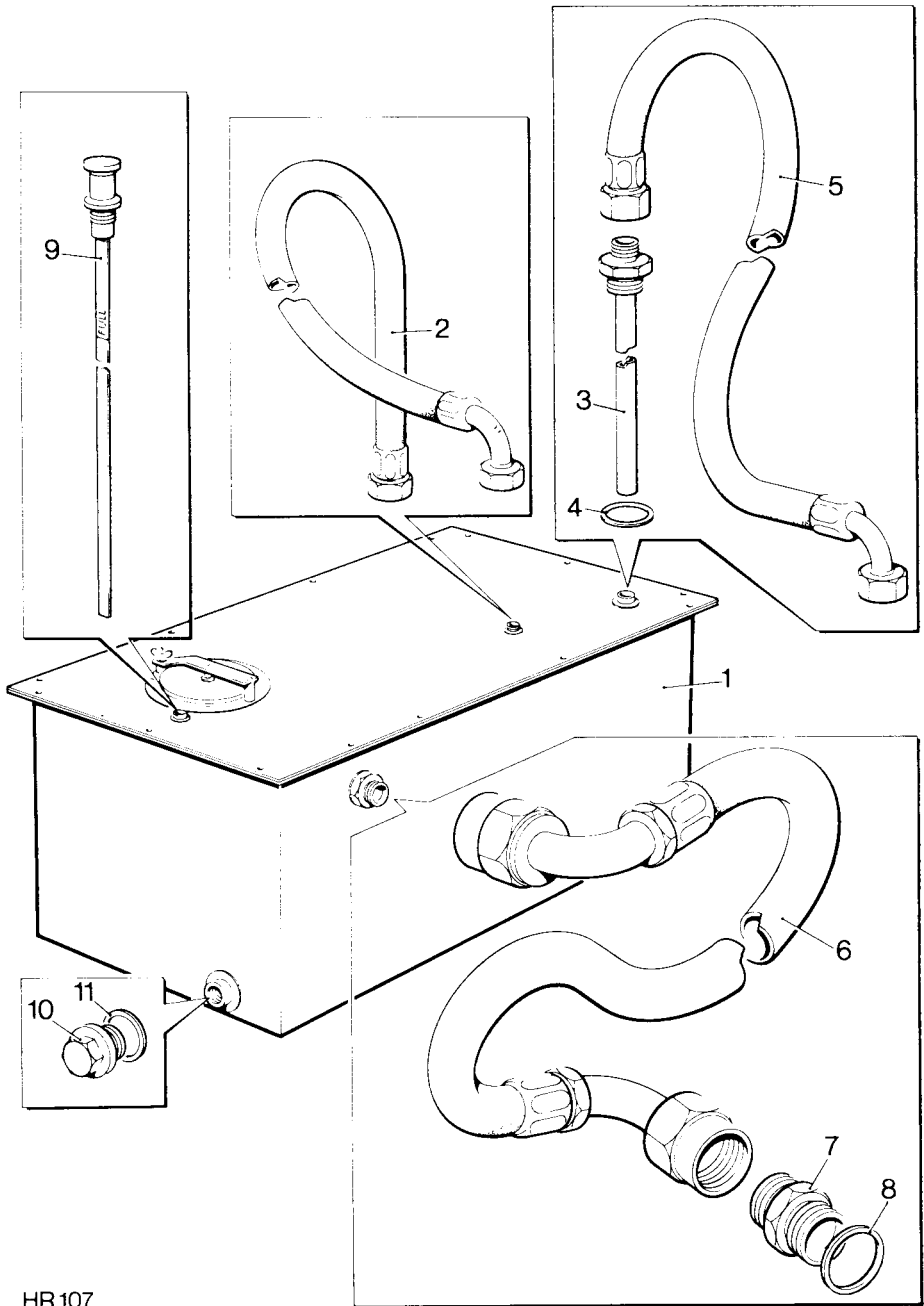
HR2 & 3 CODE LB

Illus No.	Description	Part No.	HR	
			2	3
LONG RUNNING LUBRICATION OIL SYSTEM - Without Tank				
LONG RUNNING LUBRICATION OIL SYSTEM KIT				
	- Without Tank	Code LB	1	1
1	OIL PUMP HOUSING ASSEMBLY	382-08163	1	1
2	PUMP MOUNTING ADAPTOR	382-07045	1	1
3	JOINT	351-13160	2	2
4	LUBRICATING OIL PUMP ADAPTOR	382-04814	1	1
5	SCREW - Cheese Head - 0.19"UNF x 3"	270-00112	3	3
6	PLAIN WASHER	382-07288	3	3
7	SPRING WASHER	027-00717	3	3
8	PLUG	011-13693	1	1
9	UNION - 1/4" to 3/8" BSP	366-01100	1	1
10	COPPER WASHER	013-22350	2	2
11	LUBRICATING OIL PUMP	382-08174	1	1
12	JOINT	382-08164	1	1
13	BOLT - M6 x 1.0-6g x 35mm	272-00191	3	3
14	SPRING WASHER	272-00070	3	3
15	DRIVEN DOG	382-08161	1	1
16	WOODRUFF KEY	382-08175	1	1
17	NUT - Self Locking - 3/8"UNF	270-00159	1	1
18	JOINT	382-04816	1	1
19	SETSCREW - 1/4"UNC X 3/4"	270-00294	4	4
20	SPRING WASHER	027-00451	4	4
-	GOVERNOR WEIGHT ASSEMBLY	572-11680	2	2



HR2 & 3 CODE LC

Illus No.	Description	Part No.	HR	
			2	3
LONG RUNNING LUBRICATION OIL SYSTEM - Tank and Fittings				
	TANK AND FITTINGS FOR LONG RUNNING SYSTEM	Code LC	1	1
1	TANK ASSEMBLY - 136 Litres	382-05332	1	1
2	FLEXIBLE VENT PIPE - 1/4"BSP	291-31111	1	1
3	SUPPLY CONNECTION ASSEMBLY	382-05341	1	1
4	JOINT	013-21778	1	1
5	FLEXIBLE PIPE - Supply - 3/8"BSP	382-05271	1	1
6	FLEXIBLE PIPE - Drain - 1 1/4"BSP	366-05316	1	1
7	UNION - 1/4" to 1/4"BSP	366-05516	1	1
8	JOINT	013-21777	1	1
9	DIPSTICK ASSEMBLY	382-05339	1	1
10	PLUG	007-00407	2	2
11	JOINT	013-21778	2	2

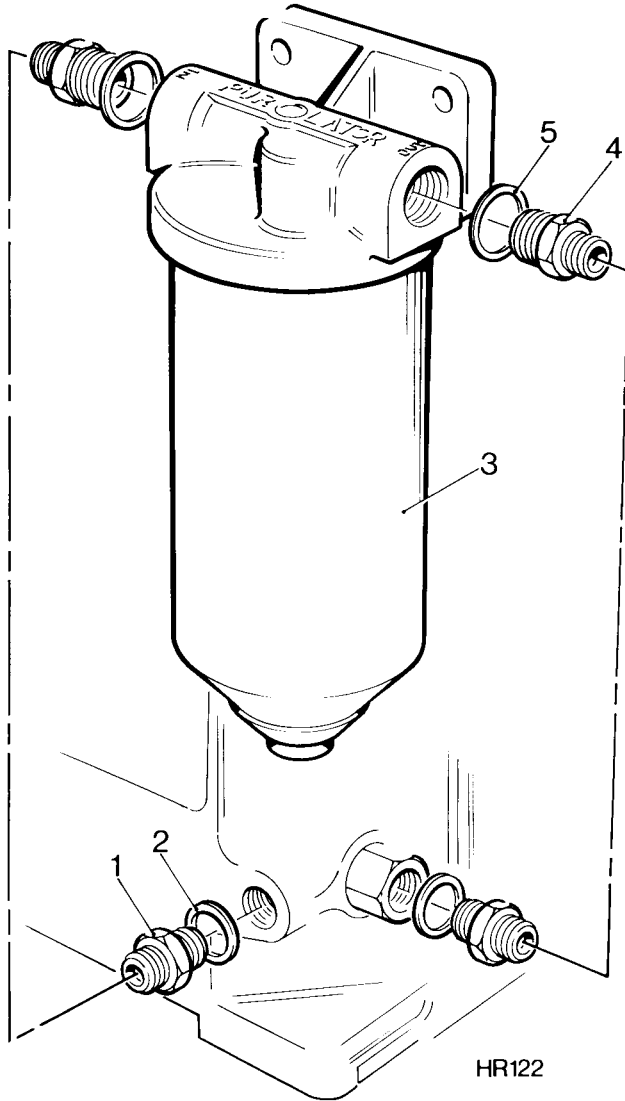


HR 107

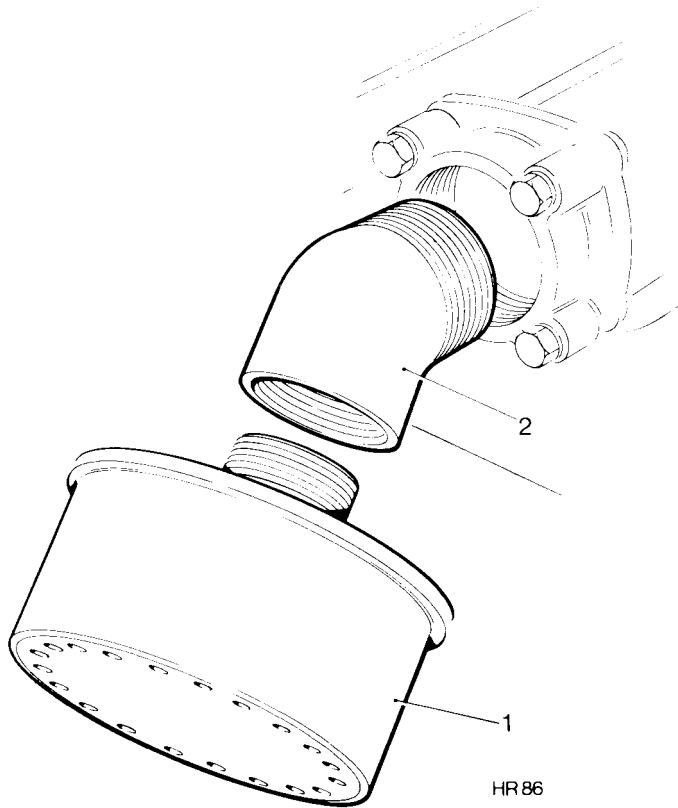
LONG RUNNING LUBRICATING OIL SYSTEM—Tank & Fittings

HR2 & 3 CODE LF

Illus No.	Description	Part No.	HR	
			2	3
REMOTE LUBRICATING OIL FILTER				
-	REMOTE LUBRICATING OIL FILTER	Code LF	1	1
1	UNION CONNECTION - 1/2" x 1/2"BSP	294-33160	2	2
2	COPPER WASHER	013-21778	2	2
3	FILTER	291-37190	1	1
4	UNION CONNECTION - 3/4" x 1/2"BSP	010-02085	2	2
5	COPPER WASHER	291-30640	2	2



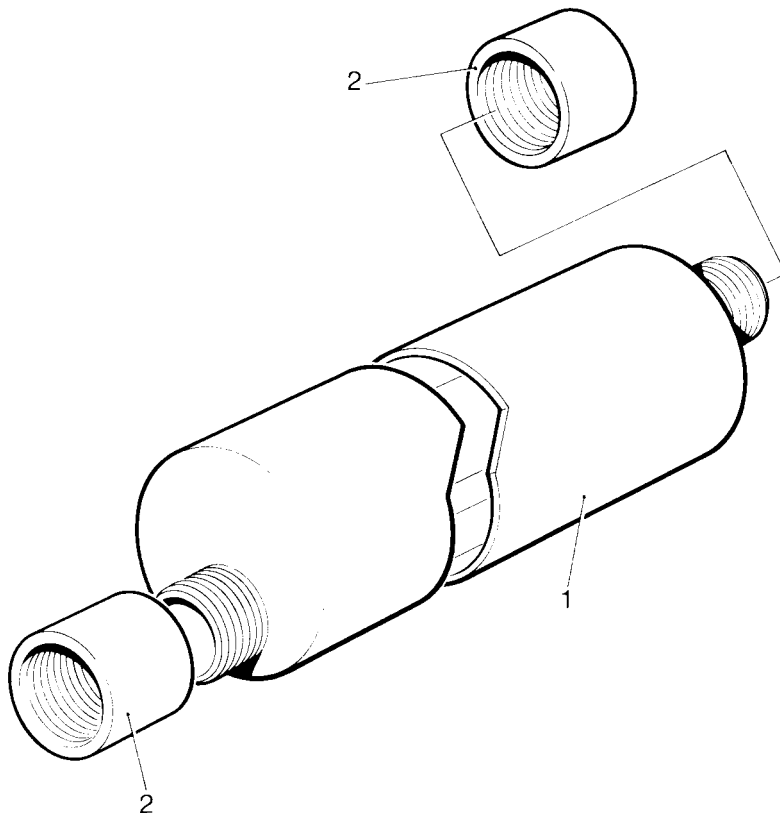
REMOTE LUBRICATING OIL FILTER



EXHAUST SILENCER ASSEMBLY

Illus No.	Description	Part No.	HR	
			2	3
EXHAUST SILENCER ASSEMBLY				
-	EXHAUST SILENCER ASSEMBLY	Code NA	1	1
1	EXHAUST SILENCER ASSEMBLY	011-13062	1	1
2	EXHAUST ELBOW	352-15230	1	1

HR2 & 3 CODE NB



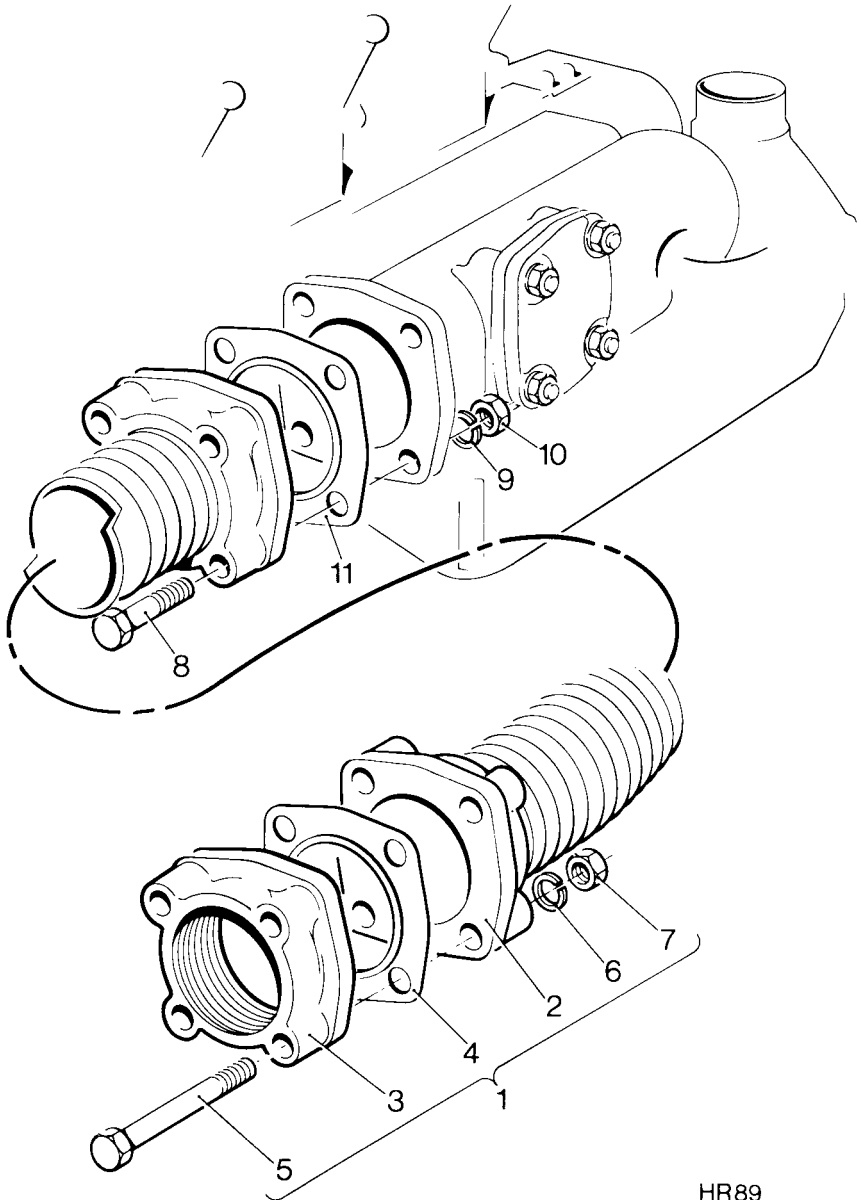
HR90

HEAVY DUTY 2" BSP BURGESS SILENCER

Illus No.	Description	Part No.	HR	
			2	3
	HEAVY DUTY 2" BSP SILENCER			
	HEAVY DUTY SILENCER	Code NB	1	1
1	2" BSP SILENCER	027-06306	1	1
2	SOCKET	027-00230	2	2

HR2 & 3 CODE NC

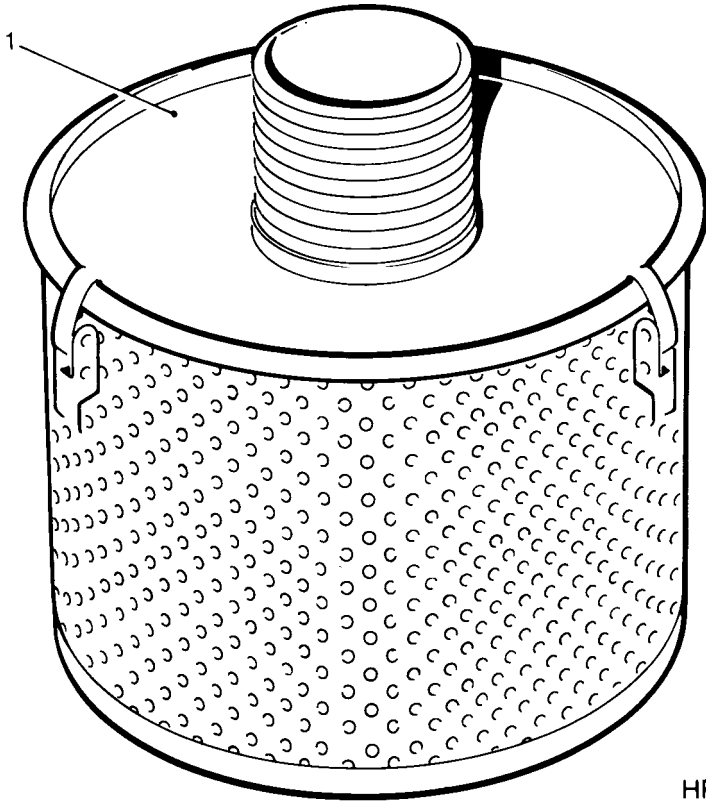
Illus No.	Description	Part No.	HR	
			2	3
FLEXIBLE EXHAUST PIPE				
	FLEXIBLE EXHAUST PIPE	Code NC	1	1
1	FLEXIBLE EXHAUST PIPE ASSEMBLY Comprising	382-05064	1	1
2	FLEXIBLE PIPE ASSEMBLY	382-05066	1	1
3	MATING FLANGE	292-21010	2	2
4	JOINT	292-21020	2	2
5	BOLT - 5/16"UNF x 2 1/2"	270-00067	8	8
6	SPRING WASHER	027-00413	8	8
7	NUT - 5/16"UNF	270-00003	8	8
8	BOLT - 5/16"UNF x 1 3/4" } Flexible Pipe	270-00064	4	4
9	SPRING WASHER } Direct	027-00413	4	4
10	NUT - 5/16"UNF } onto	270-00003	4	4
11	JOINT - Flange } end outlet	292-21020	1	1



HR89

FLEXIBLE EXHAUST PIPE

HR2 & 3 CODE ND



HR92

Illus No.	Description	Part No.	HR	
			2	3
SPARK ARRESTER				
	SPARK ARRESTER KIT	Code ND	1	1
1	SPARK ARRESTER	027-05647	1	1

HR2 & 3 CODE NG

Illus No.	Description	Part No.	HR	
			2	3
EXHAUST SILENCER MATING FLANGE				
	MATING FLANGE KIT	Code NG	1	1
	MATING FLANGE	364-03281	4	4
	JOINT	364-03282	2	2
	BOLT - 5/8"UNF x 1 1/2"	270-00147	8	8
	NUT - 5/8"UNF	270-00008	8	8
	SPRING WASHER	027-00395	8	8

SPECIAL TOOLS

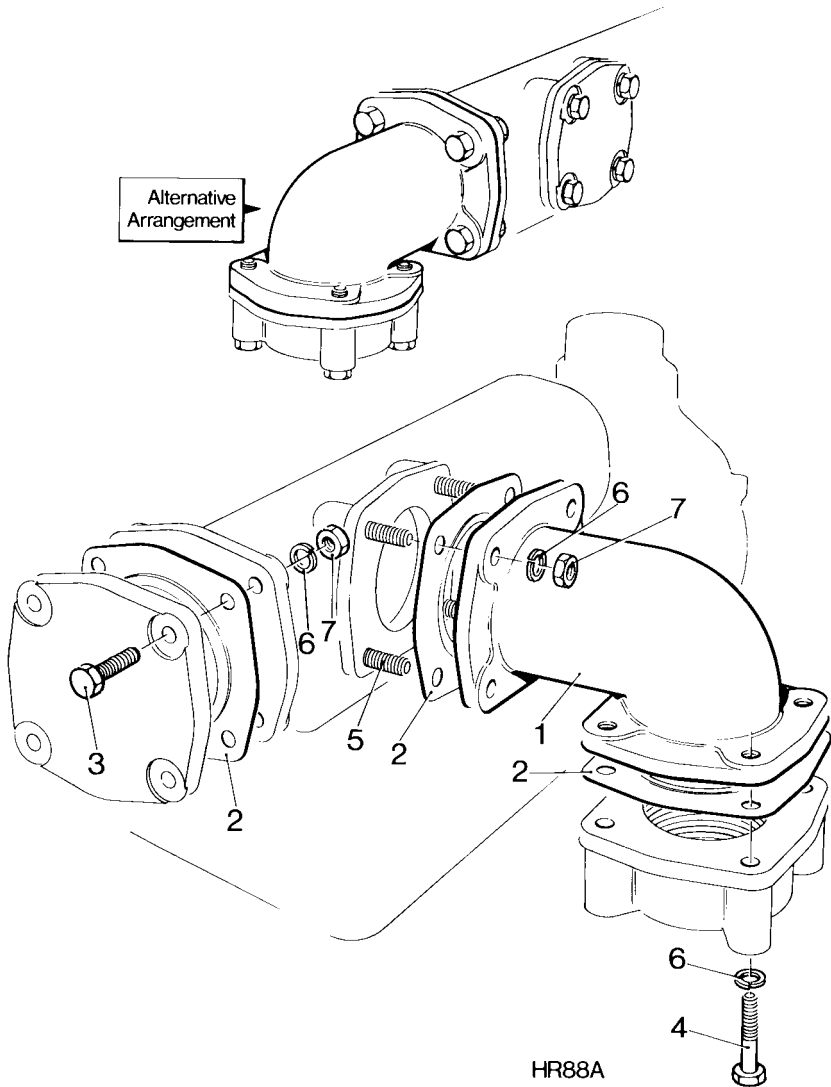
MAIN BEARING - Assembly & Withdrawal	317-00277
OIL SEAL ASSEMBLY	317-00150
SPANNER - Flywheel Nut	010-07094
INSERT - Flywheel Nut Spanner	317-00016
WITHDRAW DISC - Flywheel	013-23088
STUD - Flywheel Withdraw Disc (3 Off)	317-00017
NUT - Flywheel Withdraw Disc (3 Off)	270-00008
INJECTOR SLEEVE REMOVAL	317-00517
VALVE SEATING CUTTER	317-00031
VALVE SEAT RECESS CUTTER - Inlet	317-00320
VALVE SEAT RECESS CUTTER - Exhaust	317-00321

FOR ILLUSTRATIONS SEE WORKSHOP MANUAL 027-08208

HR2 & 3 CODE NE

Illus No.	Description	Part No.	HR	
			2	3
EXHAUST FLANGED 90° BEND ADAPTOR				
	EXHAUST 90° BEND ADAPTOR	Code NE	1	1
1	90° BEND ADAPTOR	382-06794	1	1
2	JOINT	292-21020	3	3
3	BOLT - 5/16"UNF x 1"	270-00061	4	4
4	BOLT - 5/16"UNF x 1 3/4"	270-00064	4	4
5	STUD - 5/16"UNF x 1 1/4"	270-00081	4	4
6	SPRING WASHER	027-00413	8	8
7	NUT - 5/16"UNF	270-00003	8	8

Alternative
Arrangement



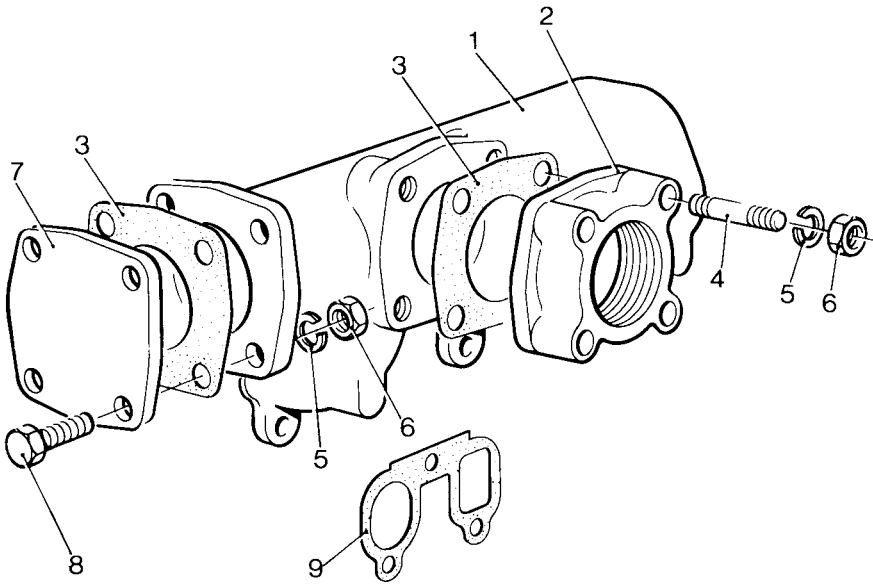
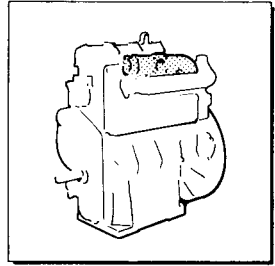
HR88A



EXHAUST ADAPTOR © 1983

HR2 & 3 CODE NH

Illus No.	Description	Part No.	HR	
			2	3
SIDE OUTLET EXHAUST MANIFOLD				
	SIDE OUTLET EXHAUST MANIFOLD KIT	Code NH	1	1
	EXHAUST MANIFOLD ASSEMBLY - HR2	572-52700	1	-
	EXHAUST MANIFOLD ASSEMBLY - HR3	572-52720	-	1
-	MANIFOLD - HR2	352-55410	1	-
1	MANIFOLD - HR3	353-55410	-	1
2	EXHAUST FLANGE	292-21010	1	1
3	JOINT	292-21020	2	2
4	STUD - 5/16"UNF x 2"	270-00117	4	4
5	SPRING WASHER	027-00413	8	8
6	NUT - 5/16"UNF	270-00003	8	8
7	BLANKING PLATE	352-55421	1	1
8	SETSCREW	270-00061	4	4
9	JOINT - Manifold	351-11611	2	3



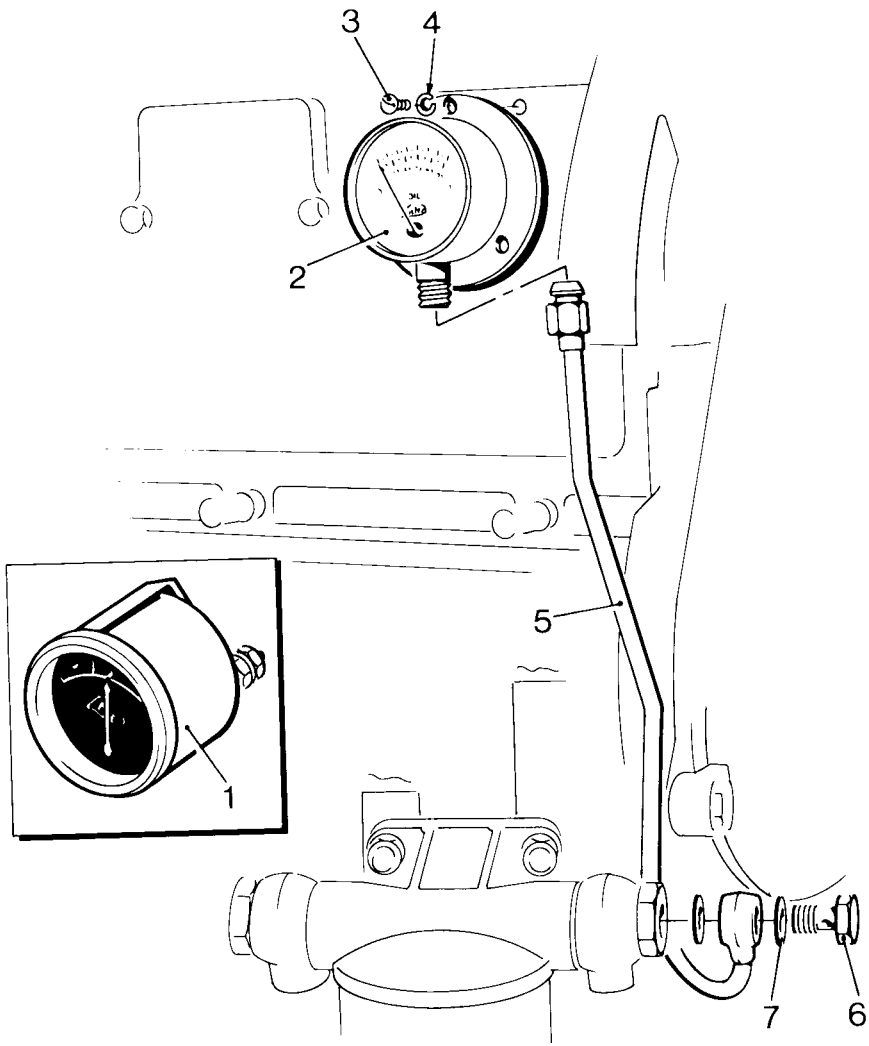
HR284



MANIFOLD—Exhaust © 1983

HR2 & 3 CODE PD

Illus No.	Description	Part No.	HR	
			2	3
AMMETER				
	AMMETER KIT	Code PA	1	1
1	AMMETER - 60.0.60	382-09058	1	1
	TERMINAL	064-15651/007	2	2
	TERMINAL	064-15651/005	1	1
OIL PRESSURE GAUGE - On FPH Door				
	OIL PRESSURE GAUGE KIT	Code PC	1	1
2	OIL PRESSURE GAUGE	351-15160	1	1
3	SCREW	027-00048	3	3
4	SPRING WASHER	064-02582/007	3	3
5	LUBRICATING OIL PIPE	382-06857	1	1
6	PLUG - Swivel Union	382-08674	1	1
7	COPPER WASHER	600-00106	2	2

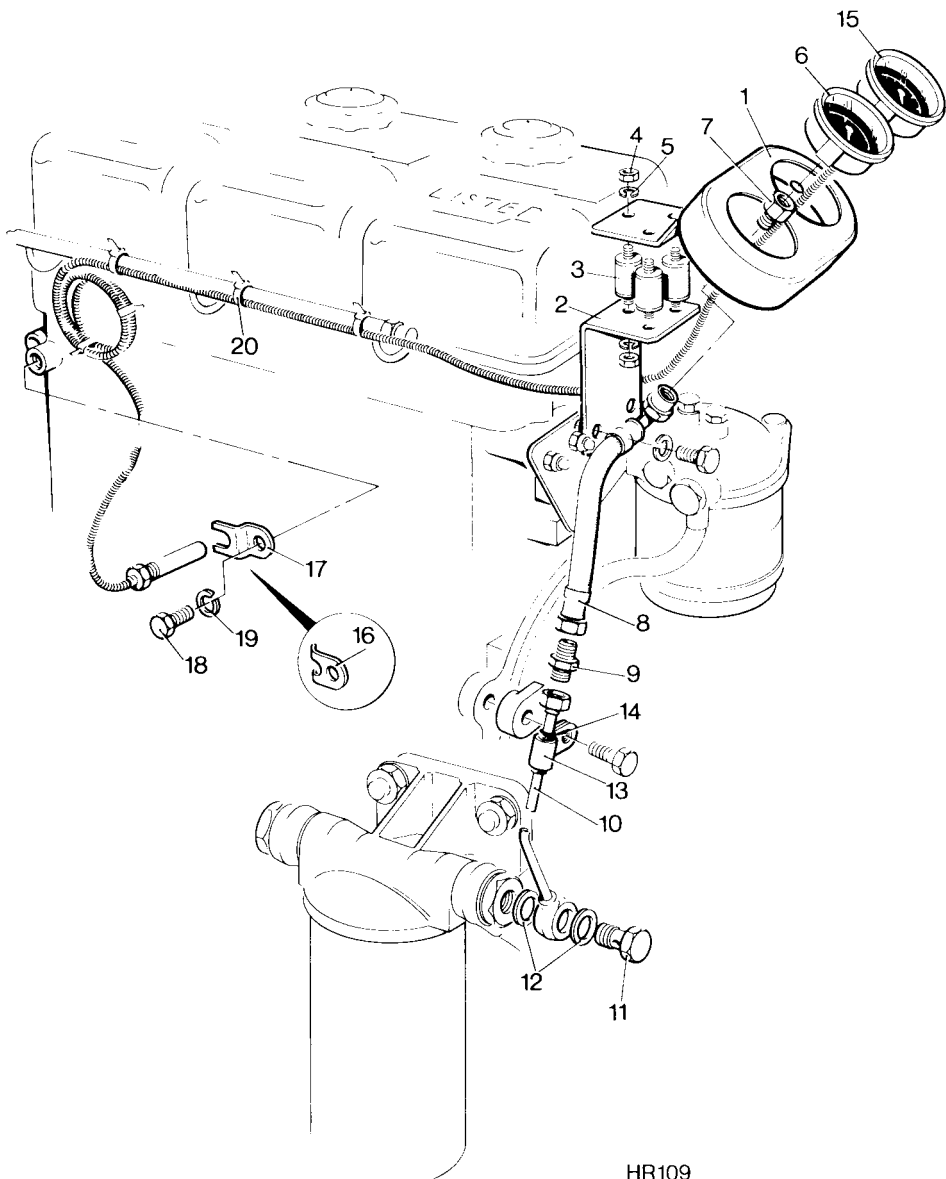


HR102

AMMETERS/OIL PRESSURE GAUGE

HR2 & 3 CODE PA, PE, PF

Illus No.	Description	Part No.	HR	
			2	3
TWIN GAUGE PANEL				
	TWIN GAUGE PANEL KIT	Code PA	1	1
1	GAUGE PANEL	382-07070	1	1
2	SUPPORT PLATE	382-07289	1	1
3	FLEXIBLE MOUNTING - Includes	382-08349	3	3
4	NUT		6	6
5	SPRING WASHER		6	6
OIL PRESSURE GAUGE				
	OIL PRESSURE GAUGE KIT	Code PE	1	1
6	OIL PRESSURE GAUGE	370-12970	1	1
7	ADAPTOR	291-37920	1	1
8	FLEXIBLE PIPE	351-19910	1	1
9	UNION CONNECTION	291-21141	1	1
10	PIPE	351-19071	1	1
11	PLUG - Swivel Union	382-08674	1	1
12	COPPER WASHER	600-00106	2	2
13	CLIP	351-19920	1	1
14	FELT	351-19930	1	1
TEMPERATURE GAUGE				
	TEMPERATURE GAUGE KIT	Code PF	1	1
15	TEMPERATURE GAUGE	370-12991	1	1
16	CLIP - Tomey Gauge	382-00066	1	1
17	CLIP - Smiths Gauge	382-04847	1	1
18	BOLT - 1/4"UNC x 1/2"	270-00376	1	1
19	SPRING WASHER	027-00451	1	1
20	CABLE TIE	064-32790/001	6	6

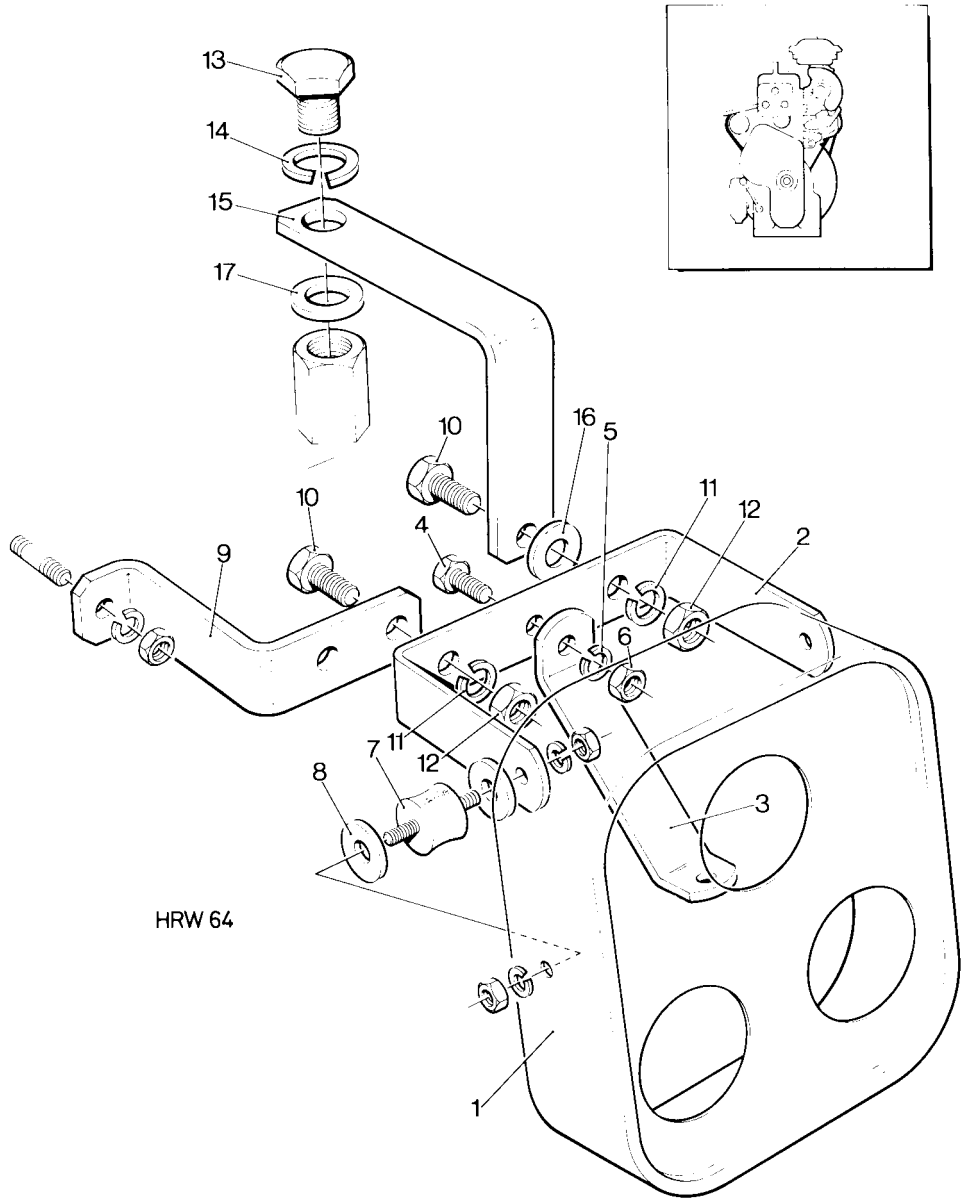


HR109

TWIN GAUGE PANEL

HR2 & 3 CODE PB

Illus No.	Description	Part No.	HR	
			2	3
THREE GAUGE PANEL				
	THREE GAUGE PANEL KIT	Code PB	1	1
1	GAUGE PANEL	382-08017	1	1
2	STIRRUP	382-08572	1	1
3	BRACKET	382-08571	1	1
4	SETSCREW - M6 x 16mm	272-00034	1	1
5	SPRING WASHER	272-00070	1	1
6	NUT - M6	272-00002	1	1
7	FLEXIBLE MOUNTING - includes	383-08349	3	3
-	NUT		6	6
-	SPRING WASHER		6	6
8	SPACER	204-53470	6	6
9	BRACKET	382-07370	1	1
10	SETSCREW - M8 x 20mm	272-00039	2	2
11	SPRING WASHER	272-00071	2	2
12	NUT - M8	272-00003	2	2
13	SETSCREW - 9/16"UNF x 3/4"	270-00513	1	1
14	SPRING WASHER	027-02061	1	1
15	BRACKET	382-07371	1	1
16	SPACER	351-11630	1	1
17	SPACER	351-17910	1	1

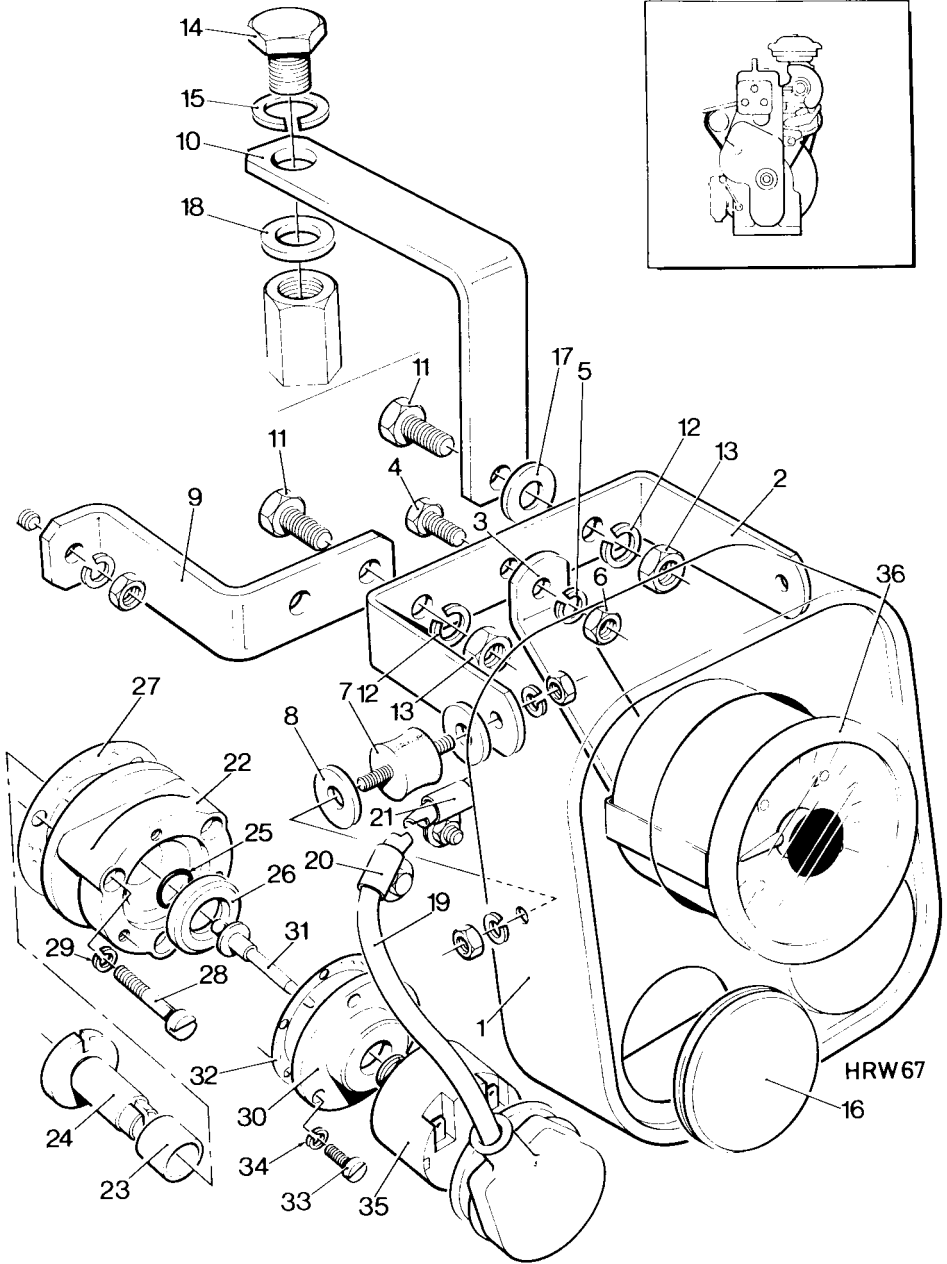


HRW 64

THREE GAUGE PANEL © 1989

HR2 & 3 CODE PH

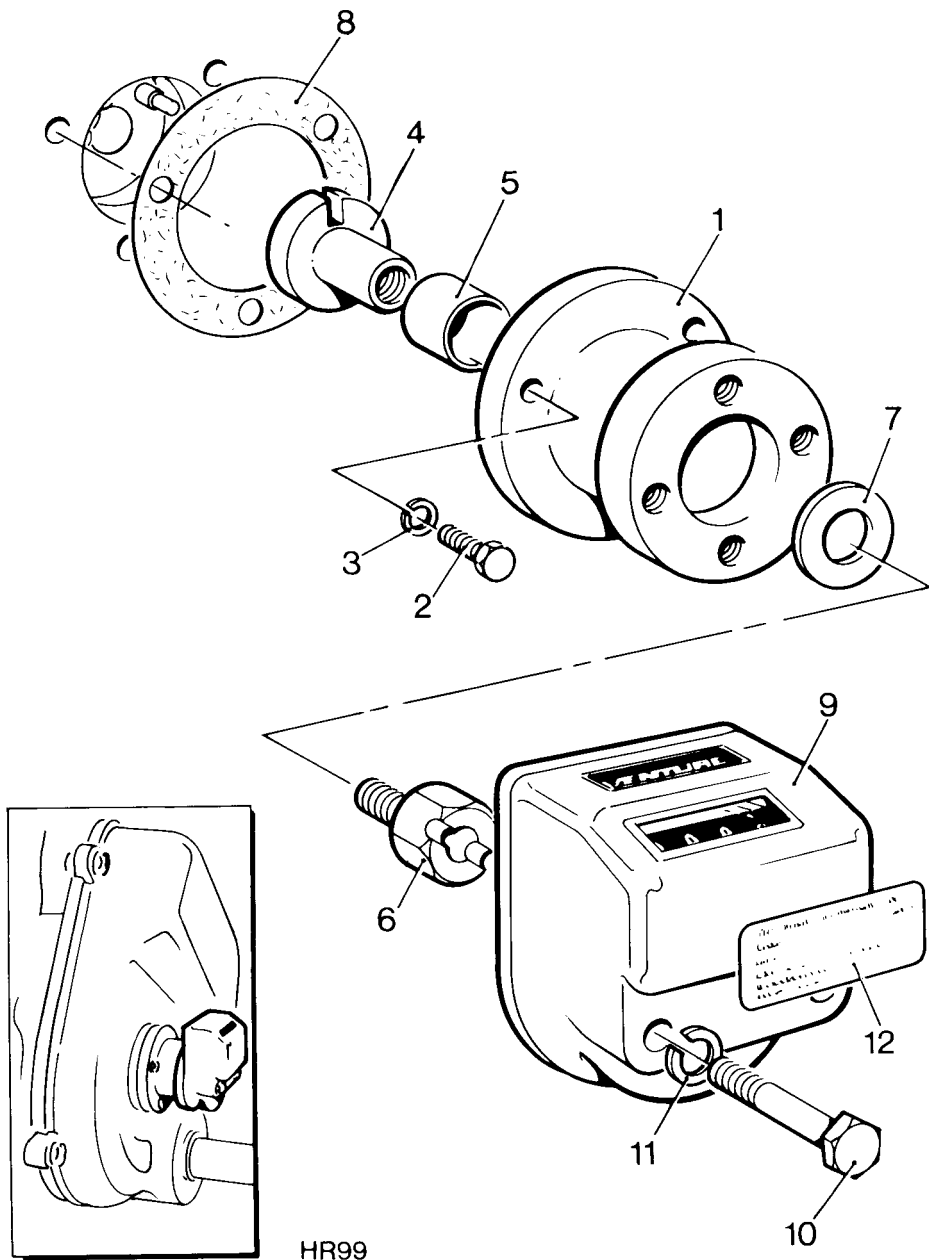
Illus No.	Description	Part No.	HR	
			2	3
TACHOMETER AND PANEL				
-	TACHOMETER AND PANEL KIT	Code PH	1	1
1	GAUGE PANEL	366-07015	1	1
2	STIRRUP	382-08572	1	1
3	BRACKET	382-08571	1	1
4	SETSCREW - M6 x 16mm	272-00034	1	1
5	SPRING WASHER	272-00070	1	1
6	NUT - M6	272-00002	1	1
7	FLEXIBLE MOUNTING	382-08349	3	3
8	SPACER	204-53470	6	6
9	BRACKET	382-07370	1	1
10	BRACKET	382-07371	1	1
11	SETSCREW - M8 x 20mm	272-00039	2	2
12	SPRING WASHER	272-00071	2	2
13	NUT - M8	272-00003	2	2
14	SETSCREW - 9/16"UNF x 3/4"	270-00513	1	1
15	SPRING WASHER	027-02061	1	1
16	GROMMET	382-07342	2	2
17	CLAMP WASHER	351-11630	1	1
18	SPACER	351-17910	1	1
19	CABLE LOOM	382-08679	1	1
20	CLIP	382-08076	2	2
21	CLIP	382-08254	1	1
22	HOUSING - Tachometer Drive	351-13171	1	1
23	BUSH	370-10670	1	1
24	DRIVE SHAFT	351-12031	1	1
25	'O' RING	616-01742	1	1
26	OIL SEAL	352-32470	1	1
27	JOINT	351-13160	1	1
28	CHEESE HEAD SCREW - 0.19 UNF x 1 3/8"	270-00030	3	3
29	SPRING WASHER	064-02582/002	3	3
30	ADAPTOR FLANGE	382-07626	1	1
31	DRIVE SHAFT	382-07664	1	1
32	JOINT	294-36420	1	1
33	SCREW	064-06772/011	3	3
34	SPRING WASHER	064-02582/001	3	3
35	TACHOGENERATOR	382-07165	1	1
36	TACHOMETER	382-08537	1	1



TACHOMETER AND PANEL © 1989

HR2 & 3 CODE PK & QA

Illus No.	Description	Part No.	HR	
			2	3
RUNNING HOUR RECORDER - Mechanical -1800 rev/min				
	RUNNING HOUR RECORDER - Mechanical	Code PK	1	1
1	HOUSING	352-17600	1	1
2	BOLT - 1/4"UNF x 2"	270-00057	2	2
3	SPRING WASHER	027-00451	2	2
4	DRIVING SHAFT	352-17610	1	1
5	BUSH - Driving Shaft	370-10670	1	1
6	ADAPTOR SCREW	352-17620	1	1
7	WASHER	027-00085	1	1
8	JOINT	351-13160	1	1
9	RUNNING HOUR RECORDER	351-52550	1	1
10	BOLT - 0.19"UNF x 5/8"	270-00029	3	3
11	SPRING WASHER	027-00717	3	3
12	LABEL	027-06054	1	1
FOUNDATION BOLTS				
-	FOUNDATION BOLTS	Code QA	1	1
-	HOLDING DOWN BOLTS	027-00585	4	4
-	BLACK NUT	027-00156	4	4
-	BLACK WASHER	027-00157	4	4
-	SPRING WASHER	027-00395	4	4

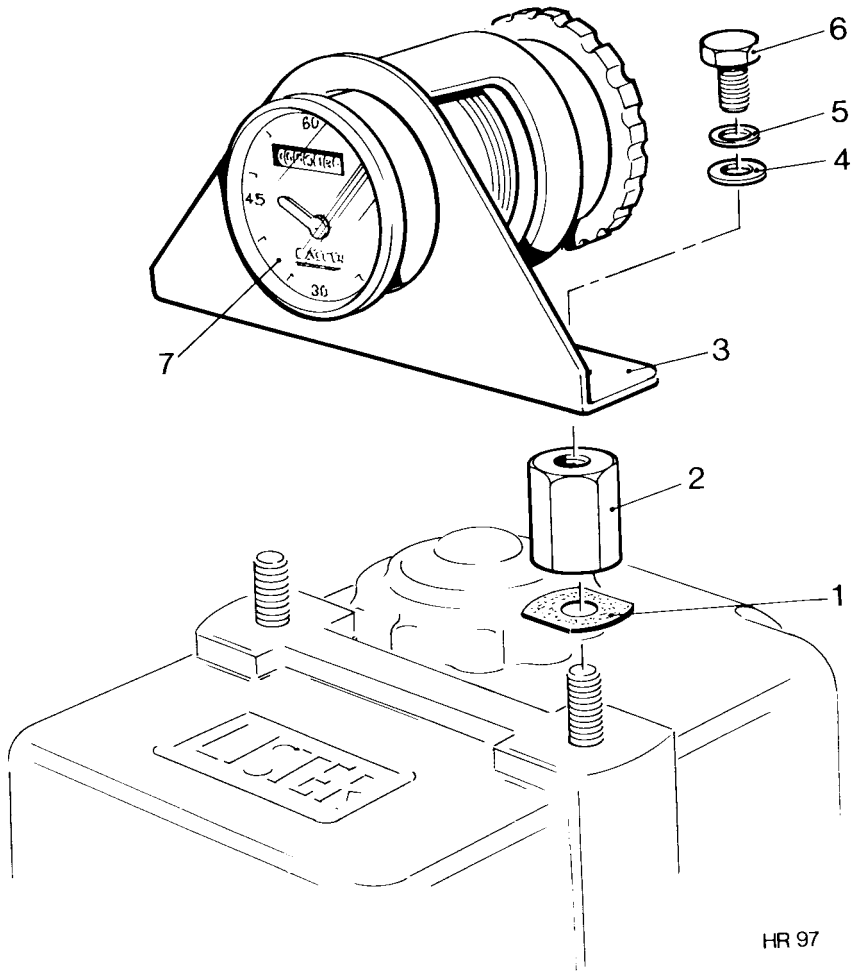


HR99

RUNNING HOUR RECORDER—Mechanical

HR2 & 3 CODE PJ & SG

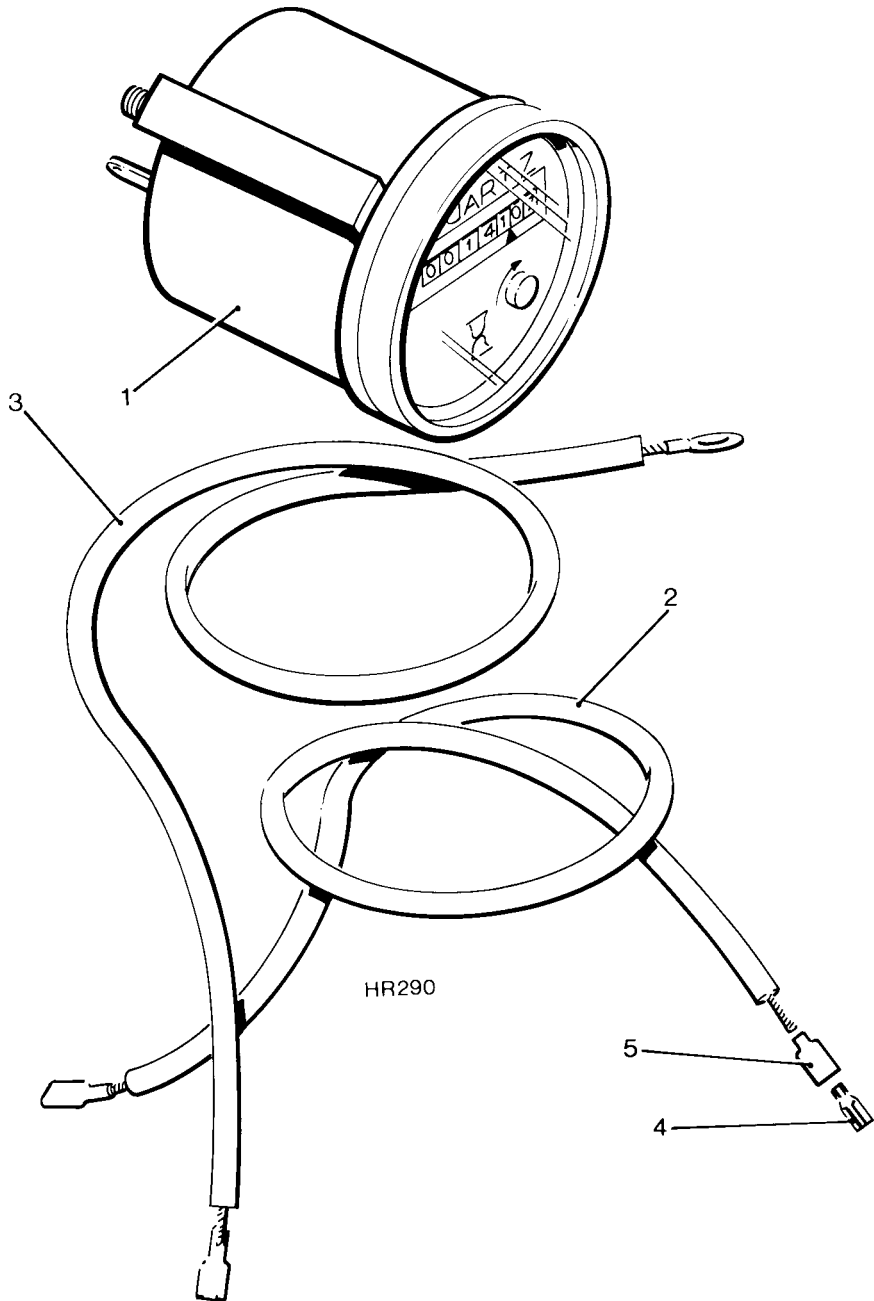
Illus No.	Description	Part No.	HR	
			2	3
RUNNING HOUR RECORDER - Vibration Type				
	RUNNING HOUR RECORDER - Vibration	Code PJ	1	1
1	JOINT	351-13940	2	2
2	PILLAR NUT	382-06881	2	2
3	BRACKET	382-06764	1	1
4	WASHER	027-00082	2	2
5	COPPER WASHER	616-01608	2	2
6	BOLT - 5/16"UNF x 1/2"	270-00058	2	2
7	VIBRATION HOUR RECORDER	636-21651	1	1
TOOL KIT				
	SPANNERS - Supplied with engine	Code SG	1	1
	DOUBLE OPEN ENDED SPANNER			
	- 7/16" x 1/2" AF	027-03838	1	1
	- 9/16" x 5/8" AF	027-03839	1	1
	- 3/8" x 7/16" WHIT	027-00399	1	1
	- 3/4" x 7/8" AF	027-04321	1	1
	- 7/16" AF x 1/2" WHIT	027-00152	1	1
	- 9/16" x 5/8" WHIT	027-00518	1	1
	SPECIAL FLAT SPANNER	027-04075	1	1



RUNNING HOUR RECORDER—Vibration Type

HR2 & 3 CODE PG

Illus No.	Description	Part No.	HR	
			2	3
ELECTRIC RUNNING HOUR RECORDER				
	HOUR RECORDER KIT	Code PG	1	1
1	RUNNING HOUR RECORDER	367-14074	1	1
2	CABLE ASSEMBLY	382-08891	1	1
3	CABLE ASSEMBLY	382-08357	1	1
4	PUSH ON CONNECTOR	064-33068/002	1	1
5	COVER	064-33991/002	1	1
JOINT SETS				
	HR2 DECARBONISING	657-19696	1	-
	HR2 OVERHAUL	657-19685	1	-
	HR3 DECARBONISING	657-19715	-	1
	HR3 OVERHAUL	657-19705	-	1

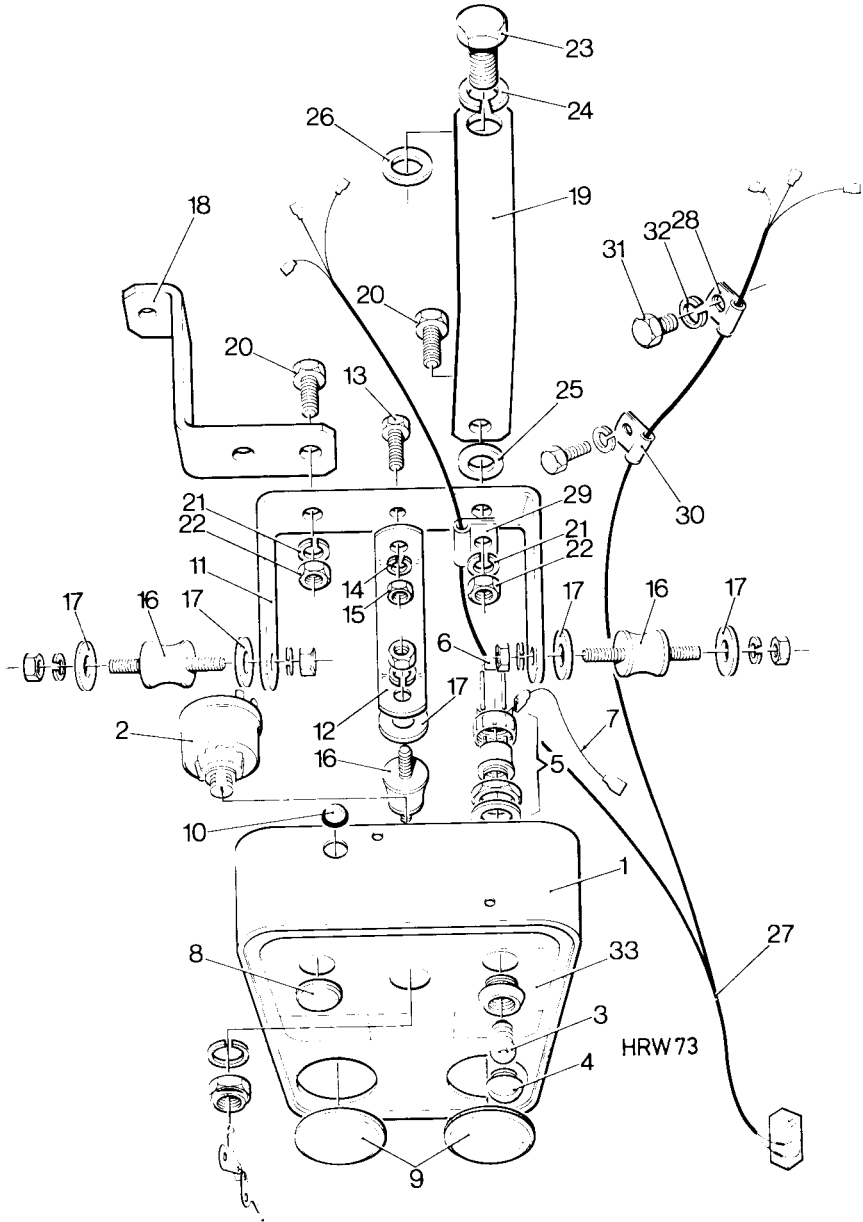


HR290

ELECTRIC RUNNING HOUR RECORDER © 1989

HR2 & 3 CODE WA & WB

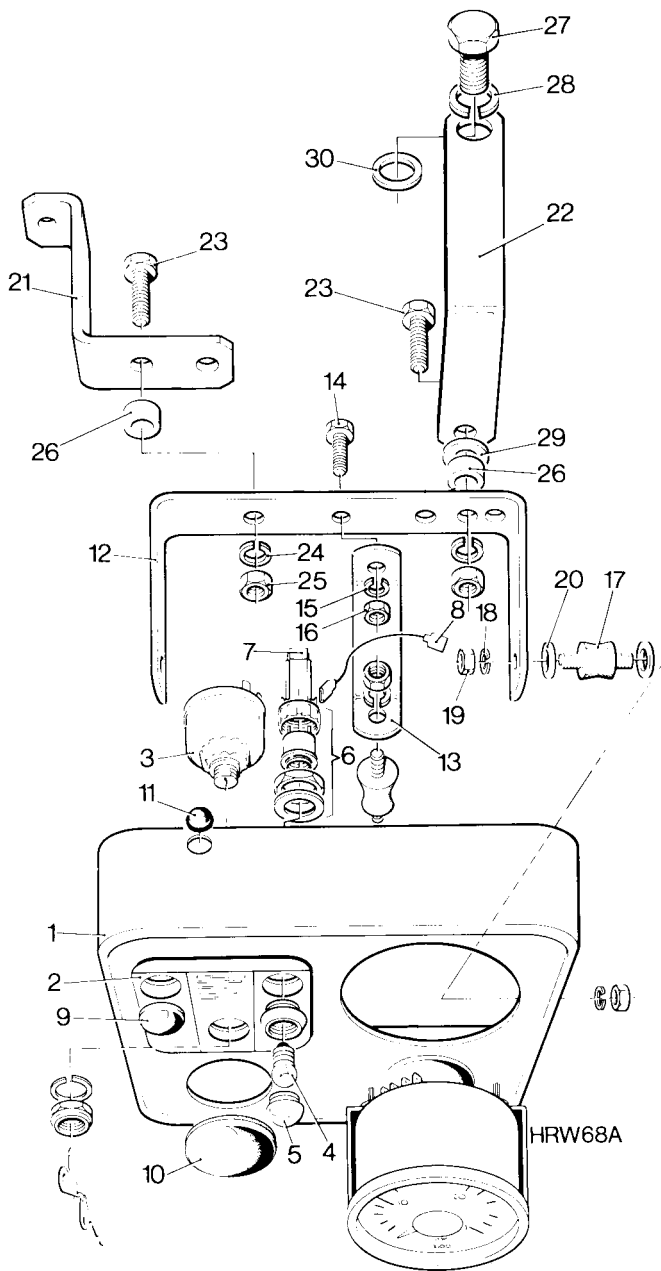
Illus No.	Description	Part No.	HR	
			2	3
ELECTRIC START GAUGE PANEL AND WIRING LOOM				
	ELECTRIC START PANEL KIT - 12V	Code WA	1	1
	ELECTRIC START PANEL KIT - 24V	Code WB	1	1
1	PANEL	366-06937	1	1
2	KEYSWITCH	366-06379	1	1
3	LAMP - 12V	064-09681/001	1	1
-	LAMP - 24V	064-09681/002	1	1
4	LENS	064-20787/001	1	1
5	LAMP HOLDER	366-07236	1	1
6	EXCITATION RESISTANCE - 12V	366-07236	1	1
-	EXCITATION RESISTANCE - 24V	382-08872	1	1
7	CABLE	366-06433	1	1
8	HELVIN BUTTON	064-13033/008	1	1
9	GROMMET	382-07342	2	2
10	BLANKING PLUG	382-08080	1	1
11	STIRRUP	382-08572	1	1
12	BRACKET	382-08571	1	1
13	SETSCREW - M6 x 16mm	272-00034	1	1
14	SPRING WASHER	272-00070	1	1
15	NUT - M6	272-00002	1	1
16	FLEXIBLE MOUNTING	382-08349	3	3
17	SPACER	204-53470	6	6
18	BRACKET	382-07370	1	1
19	BRACKET	382-07371	1	1
20	SETSCREW - M8 x 20mm	272-00039	2	2
21	SPRING WASHER	272-00071	2	2
22	NUT - M8	272-00003	2	2
23	SETSCREW - 9/16" UNF x 3/4"	270-00513	1	1
24	SPRING WASHER	027-02061	1	1
25	CLAMP WASHER	351-11630	1	1
26	DISTANCE PIECE	351-17910	1	1
27	CABLE LOOM	382-08675	1	1
28	CLIP	382-08078	2	2
29	CLIP	382-08079	3	3
30	CLIP	382-08255	1	1
31	SETSCREW - 5/16" UNF x 1/2"	270-00058	1	1
32	SPRING WASHER	027-00413	1	1
33	LABEL	027-06356	1	1



ELECTRIC START PANEL © 1989

HR2 & 3 CODE WC & WD

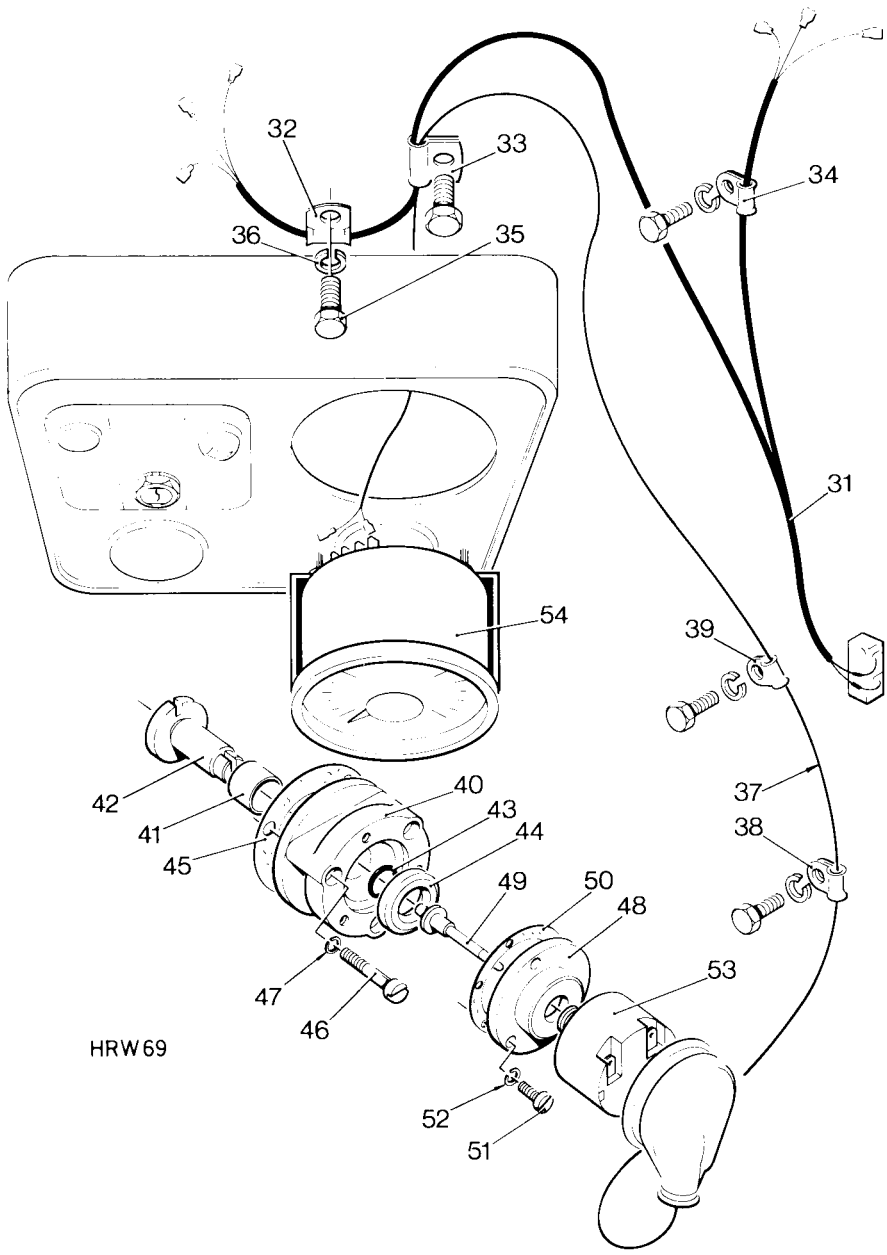
Illus No.	Description	Part No.	HR	
			2	3
ELECTRIC START GAUGE PANEL WITH TACHOMETER AND WIRING LOOMS				
	ELECTRIC START PANEL KIT - 12V	Code WC	1	1
	ELECTRIC START PANEL KIT - 24V	Code WD	1	1
1	PANEL	382-08346	1	1
2	LABEL	027-06773	1	1
3	KEYSWITCH	366-06379	1	1
4	LAMP - 12V	064-09681/001	1	1
-	LAMP - 24V	064-09681/002	1	1
5	LENS	064-20787/001	1	1
6	LAMP HOLDER	366-07236	1	1
7	EXCITATION RESISTANCE - 12V	366-07236	1	1
-	EXCITATION RESISTANCE - 24V	382-08872	1	1
8	CABLE	366-06433	1	1
9	HELVIN BUTTON	064-13033/008	1	1
10	GROMMET	382-07342	2	2
11	BLANKING PLUG	382-08080	1	1
12	STIRRUP	382-08572	1	1
13	BRACKET	382-08571	1	1
14	SETSCREW - M6 x 16mm	272-00034	1	1
15	SPRING WASHER	272-00070	1	1
16	NUT - M6	272-00002	1	1
17	FLEXIBLE MOUNTING - Includes	382-08349	3	3
18	NUT		6	6
19	SPRING WASHER		6	6
20	SPACER	204-53470	6	6
21	BRACKET	382-07370	1	1
22	BRACKET	382-07371	1	1
23	SETSCREW - M8 x 20mm	272-00039	2	2
24	SPRING WASHER	272-00071	2	2
25	NUT - M8	272-00003	2	2



ELECTRIC START PANEL WITH TACHOMETER © 1989

HR2 & 3 CODE WC & WD

Illus No.	Description	Part No.	HR	
			2	3
ELECTRIC START GAUGE PANEL WITH TACHOMETER AND WIRING LOOMS (Cont.)				
26	SPACER	351-14970	2	2
27	SETSCREW - 9/16" UNF x 3/4"	270-00513	1	1
28	SPRING WASHER	027-02061	1	1
29	CLAMP WASHER	351-11630	1	1
30	DISTANCE PIECE	351-17910	1	1
31	CABLE LOOM - Electric Start	382-08675	1	1
32	CLIP	382-08078	2	2
33	CLIP	382-08079	3	3
34	CLIP	382-08255	1	1
35	SETSCREW - 5/16" UNF x 1/2"	270-00058	1	1
36	SPRING WASHER	027-00413	1	1
37	CABLE LOOM - Tachometer	351-13171	1	1
38	CLIP	382-08076	2	2
39	CLIP	382-08254	3	3
40	HOUSING - Tachometer Drive	351-13171	1	1
41	BUSH	370-10670	1	1
42	DRIVE SHAFT	351-12031	1	1
43	'O' RING	616-01742	1	1
44	OIL SEAL	352-32470	1	1
45	JOINT	351-13160	1	1
46	CHEESE HEAD SCREW - 0.19 UNF x 1 3/8"	270-00030	3	3
47	SPRING WASHER	064-02582/002	3	3
48	ADAPTOR FLANGE	382-07626	1	1
49	DRIVE SHAFT	382-07664	1	1
50	JOINT	294-36420	1	1
51	SCREW	064-06772/011	3	3
52	SPRING WASHER	064-02582/001	3	3
53	TACHOGENERATOR	382-07165	1	1
54	TACHOMETER	382-08537	1	1

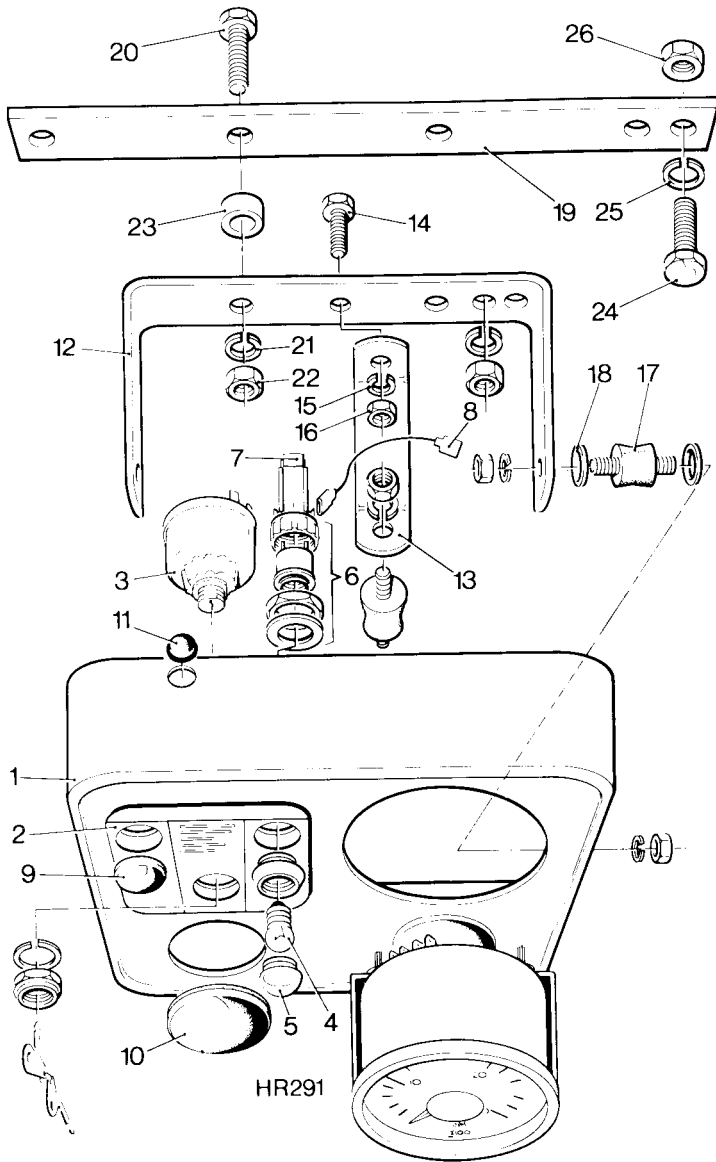


HRW69

ELECTRIC START PANEL WITH TACHOMETER © 1989

HR2 & 3 CODE WE & WF

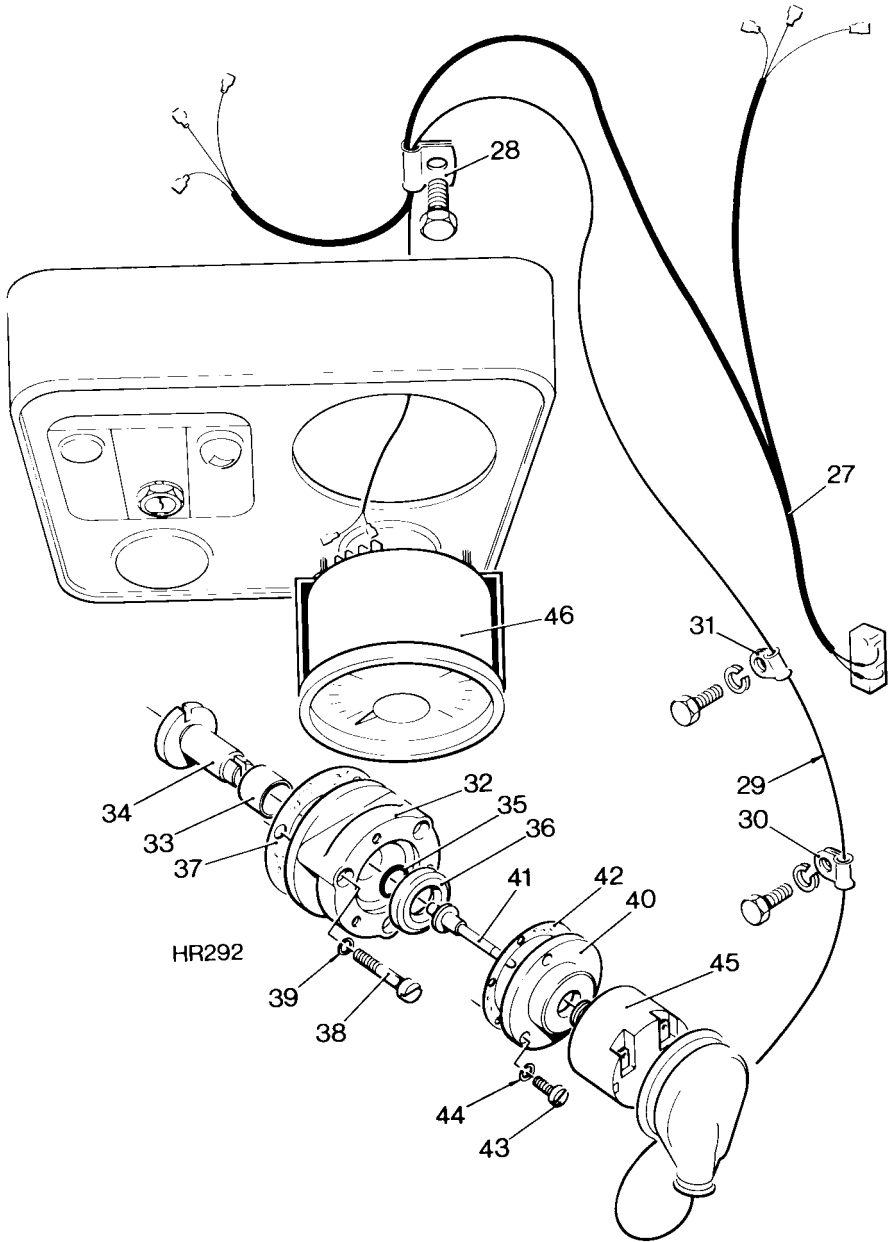
Illus No.	Description	Part No.	HR	
			2	3
ELECTRIC START GAUGE PANEL WITH TACHOMETER AND WIRING LOOMS				
	ELECTRIC START PANEL KIT - 12V	Code WE	1	1
	ELECTRIC START PANEL KIT - 24V	Code WF	1	1
1	PANEL	382-08346	1	1
2	LABEL	027-06773	1	1
3	KEYSWITCH	366-06379	1	1
4	LAMP - 12V	064-09681/001	1	1
	LAMP - 24V	064-09681/002	1	1
5	LENS	064-20787/001	1	1
6	LAMP HOLDER	366-07228	1	1
7	EXCITATION RESISTANCE - 12V	366-07236	1	1
	EXCITATION RESISTANCE - 24V	382-08872	1	1
8	CABLE	366-06433	1	1
9	HELVIN BUTTON	064-13033/008	1	1
10	GROMMET	382-07342	2	2
11	BLANKING PLUG	382-08080	1	1
12	STIRRUP	382-08572	1	1
13	BRACKET	382-08571	1	1
14	SETSCREW - M6 x 16mm	272-00034	1	1
15	SPRING WASHER	272-00070	1	1
16	NUT - M6	272-00002	1	1
17	FLEXIBLE MOUNTING	382-08349	3	3
18	SPACER	204-53470	6	6
19	BRACKET	382-08683	1	1
20	SETSCREW - M8 x 20mm	272-00039	2	2
21	SPRING WASHER	272-00071	2	2
22	NUT - M8	272-00003	2	2
23	SPACER	351-14970	2	2
24	SETSCREW	272-00039	2	2
25	SPRING WASHER	027-00071	2	2
26	NUT	272-00003	2	2



ELECTRIC START PANEL © 1989

HR2 & 3 CODE WG & WH

Illus No.	Description	Part No.	HR	
			2	3
ELECTRIC START GAUGE PANEL WITH TACHOMETER AND WIRING LOOMS				
27	CABLE LOOM - Electric Start	382-08675	1	1
28	CLIP	382-08079	3	3
29	CABLE LOOM - Tachometer	351-13171	1	1
30	CLIP	382-08076	2	2
31	CLIP	382-08254	3	3
32	HOUSING - Tachometer Drive	351-13171	1	1
33	BUSH	370-10670	1	1
34	DRIVE SHAFT	351-12031	1	1
35	'O' RING	616-01742	1	1
36	OIL SEAL	352-32470	1	1
37	JOINT	351-13160	1	1
38	CHEESE HEAD SCREW - 0.19 UNF x 1 3/8"	270-00030	3	3
39	SPRING WASHER	064-02582/002	3	3
40	ADAPTOR FLANGE	382-07626	1	1
41	DRIVE SHAFT	382-07664	1	1
42	JOINT	294-36420	1	1
43	SCREW	064-06772/011	3	3
44	SPRING WASHER	064-02582/001	3	3
45	TACHOGENERATOR	382-07165	1	1
46	TACHOMETER	382-08537	1	1



ELECTRIC START PANEL © 1989

HR2 & 3 CODE WC & WD

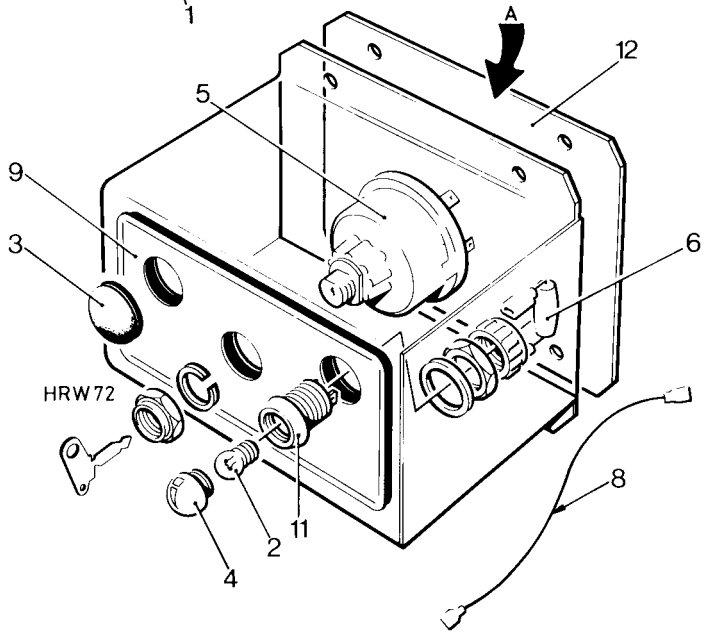
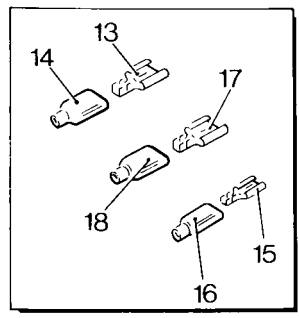
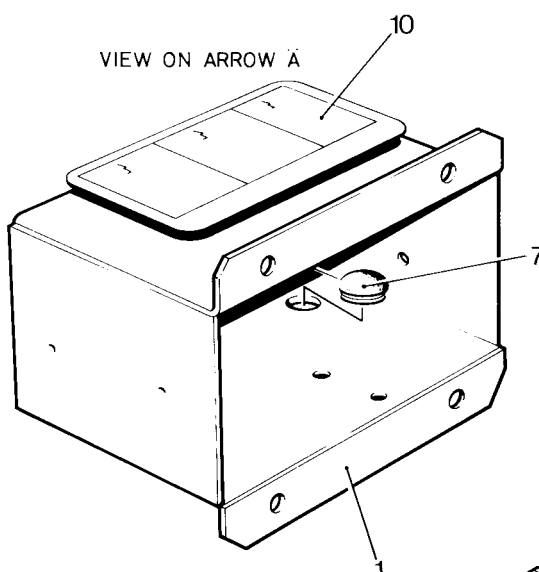
Illus No.	Description	Part No.	HR	
			2	3
WIRING LOOMS				
FUEL CONTROL AND PROTECTION SWITCHES				
	WIRING LOOM KIT	Code WG	1	1
	WIRING LOOM	382-09131	1	1
	CLIP	382-08076	4	4
	CLIP	382-08254	1	1
AMMETER WIRING LOOM KIT				
	WIRING LOOM	Code WH	1	1
	WIRING LOOM	382-08680	1	1
	CABLE TIE	064-32790/001	2	2

No se olvide!
Utilice únicamente
repuestos legítimos
LISTER-PETTER

Nie vergessen!
Nur echte
LISTER-PETTER
Teile zu benutzen

HR2 & 3 CODE WJ & WK

Illus No.	Description	Part No.	HR	
			2	3
REMOTE MOUNTED CONTROL PANEL				
	CONTROL PANEL KIT - 12V	Code WJ	1	1
	CONTROL PANEL KIT - 24V	Code WK	1	1
1	CONTROL PANEL	607-10016	1	1
2	LAMP - 12V	064-09681/001	1	1
-	LAMP - 24V	064-09681/002	1	1
3	HELVIN BUTTON	064-13033/008	1	1
4	LENS	064-20787/001	1	1
5	KEYSWITCH	366-06379	1	1
6	RESISTANCE - 12V	366-07236	1	1
-	RESISTANCE - 24V	382-08872	1	1
7	BLANKING PLUG	382-08080	1	1
8	CABLE	366-06433	1	1
9	LABEL	027-06269	1	1
10	LABEL	027-06270	1	1
11	LAMP HOLDER	366-07228	1	1
12	BACKPLATE	607-10017	1	1
13	PUSH ON CONNECTOR	064-33380/001	1	1
14	COVER	064-33991/001	1	1
15	PUSH ON CONNECTOR	064-33068/002	1	1
16	COVER	064-33991/002	1	1
17	PUSH ON CONNECTOR	064-33068/004	1	1
18	COVER	064-33991/004	1	1



CONTROL PANEL © 1989

HR2 & 3 CODE WL, WM, WN & WO

Illus No.	Description	Part No.	HR	
			2	3

BATTERIES AND BATTERY LEADS

12V DRY CHARGED BATTERY - Temperature above 27 Deg. C

	12V BATTERY KIT	Code WL	1	1
1	DRY CHARGED BATTERY - 2 Cyl	291-40020/002	1	-
	DRY CHARGED BATTERY - 3 Cyl	293-40020/002	-	1

12V DRY CHARGED BATTERY - Temperature -8 Deg. C to 27 Deg. C

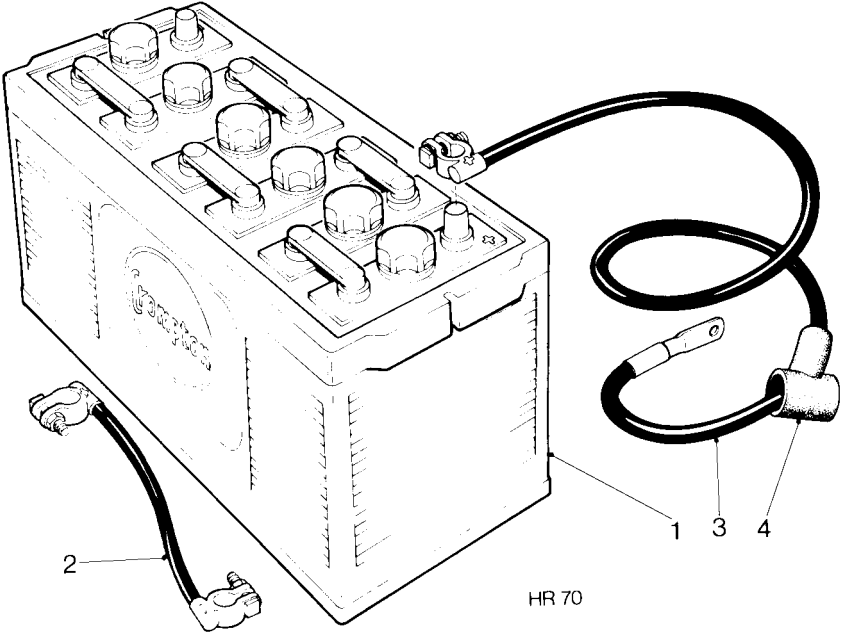
	12V BATTERY KIT	Code WM	1	1
	DRY CHARGED BATTERY - 2 Cyl	294-40020/002	2	-
	DRY CHARGED BATTERY - 3 Cyl	396-16590/002	-	2
2	CONNECTING LINK	064-12020	1	1

24V DRY CHARGED BATTERY - All Temperatures down to -8 Deg. C

	24V BATTERY KIT	Code WN	1	1
	DRY CHARGED BATTERY	294-40020/002	4	4
	CONNECTING LINK	064-12020	3	3

BATTERY LEADS

	BATTERY LEADS KIT	Code WO	1	1
3	BATTERY LEAD - 3ft - Positive	064-07172/001	1	1
-	BATTERY LEAD - 3ft - Negative	064-07172/002	1	1
4	SHROUD	064-08391	2	2

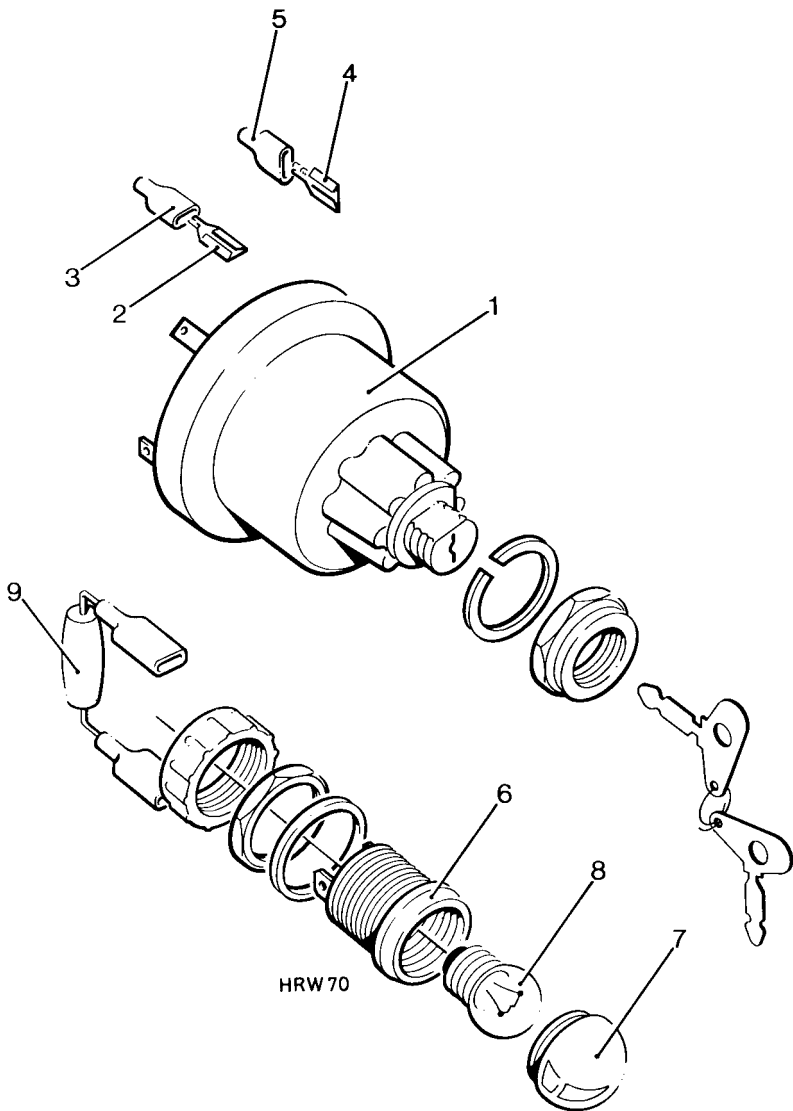


HR 70

BATTERY AND LEADS © 1989

HR2 & 3 CODE WP, WR & WS

Illus No.	Description	Part No.	HR	
			2	3
KEYSWITCH - Loose				
	KEYSWITCH KIT	Code WP	1	1
1	KEYSWITCH	366-06379	1	1
2	PUSH ON CONNECTOR	064-33068/002	1	1
3	COVER	064-33991/002	1	1
4	PUSH ON CONNECTOR	064-33068/004	1	1
5	COVER	064-33991/004	1	1
WARNING LAMP - Loose				
	WARNING LAMP KIT - 12V	Code WR	1	1
	WARNING LAMP KIT - 24V	Code WS	1	1
6	LAMP HOLDER	366-07238	1	1
7	LENS	064-20787/001	1	1
8	LAMP - 12V	064-09681/001	1	1
	LAMP - 24V	064-09681/002	1	1
9	EXCITATION RESISTANCE - 12V	366-07236	1	1
	EXCITATION RESISTANCE - 24V	382-08872	1	1



KEYSWITCH AND WARNING LAMP © 1989



WICHTIG!

Bei der Beschaffung von Ersatzteilen oder bei Reparaturanweisungen sollte jeder Kunde in seinem eigenen Interesse immer vorschreiben:

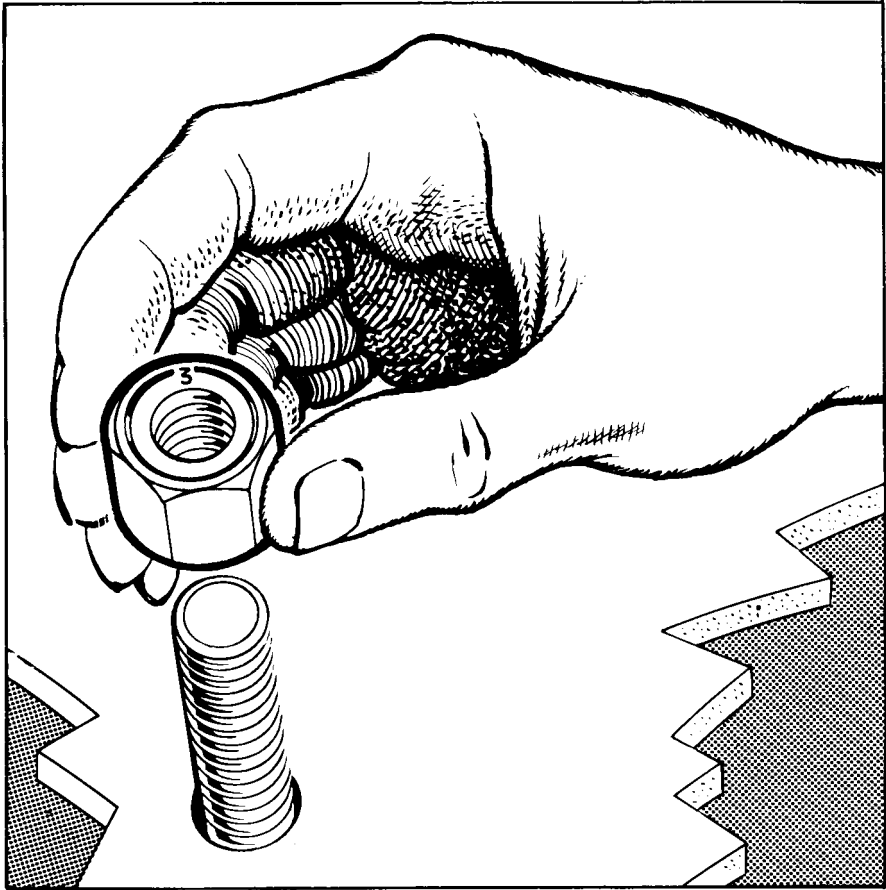
Nur echte Lister-Petter Teile

Bei nicht von der Lister-Petter Gruppe gelieferten Teilen ist es unmöglich, sich auf richtige Werkstoffe, Maße oder Oberflächengüte zu verlassen. LISTER-PETTER LTD. lehnen jegliche Garantieverpflichtungen ab, wenn durch die Verwendung derartiger Teile Schäden entstehen. Bei ihrer Benutzung erlischt die Garantie.

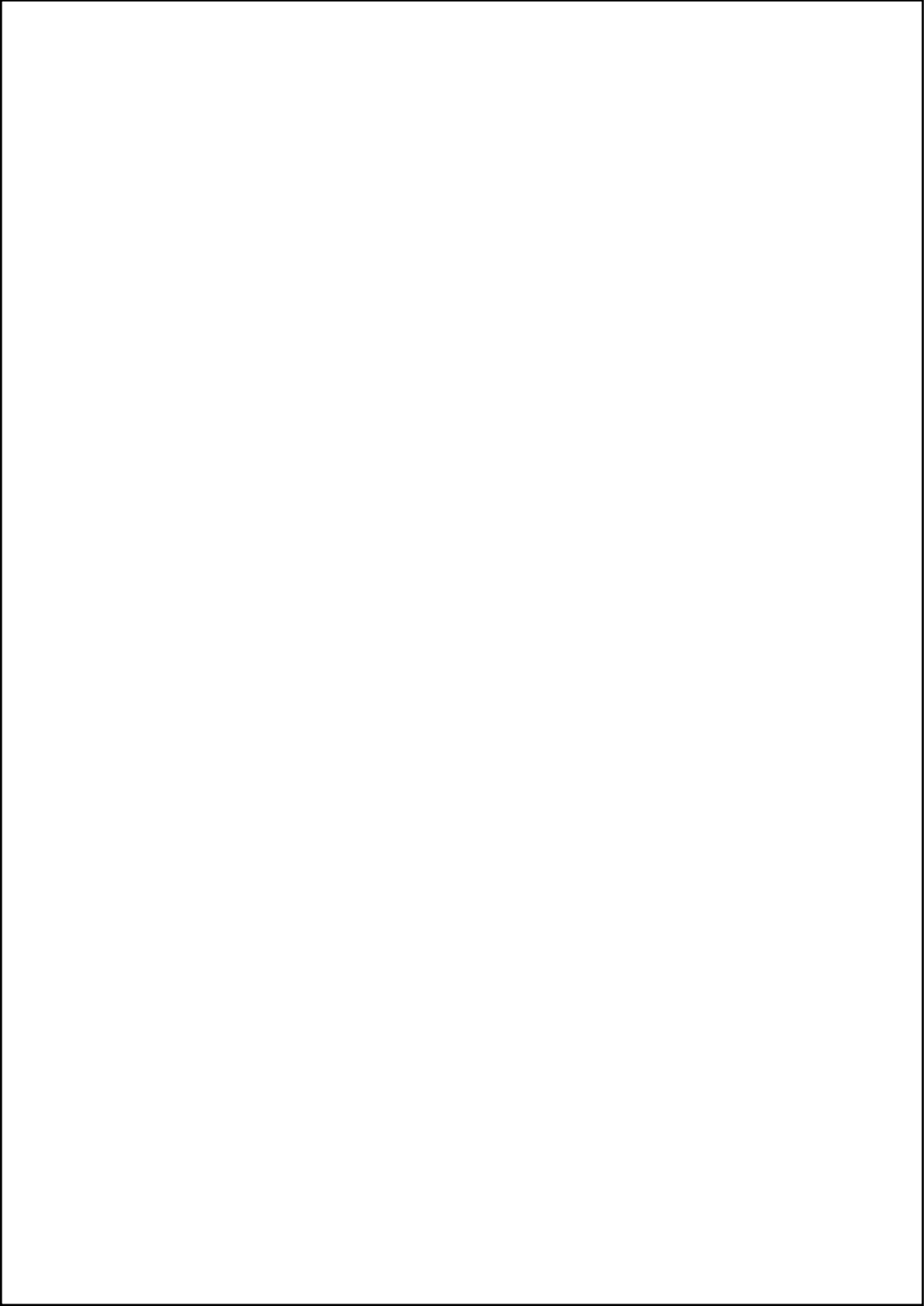
In Ihrem eigenen Interesse, schreiben Sie also vor:

NUR ECHTE LISTER-PETTER TEILE

WARNING



Whenever a unified nut is identified on one face by marking of the metal surface, the frictional area of that surface will be reduced. The nut should be fitted with the unmarked surface towards the component face





Technical Library

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