

Northwest Classics Ltd



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SALES & SERVICE

ALL-BRITISH
Lockheed
REG'D TRADE MARK



Northwest Classics Ltd

GIRLING & LOCKHEED

**BRAKE & CLUTCH
HYDRAULIC PARTS**



www.northwestautomotivehydraulics.co.uk

Sales & Service

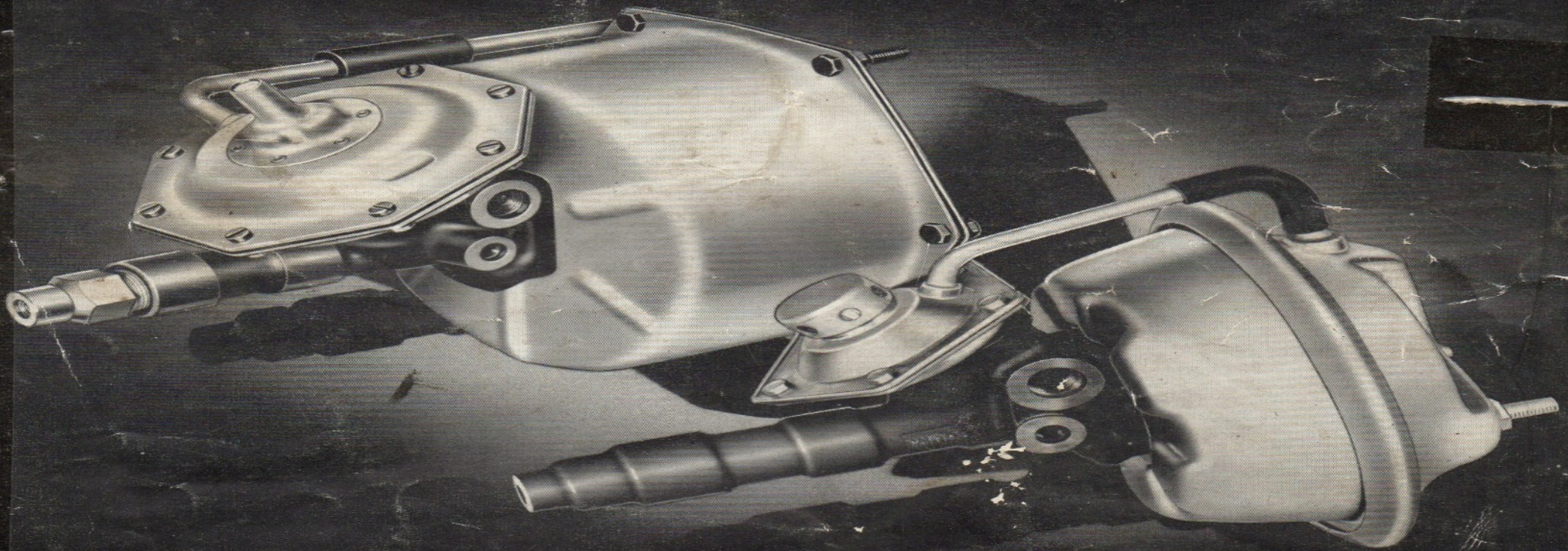
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POWER BRAKING

INSTALLATION, PRINCIPLE OF OPERATION & SPECIFICATIONS.

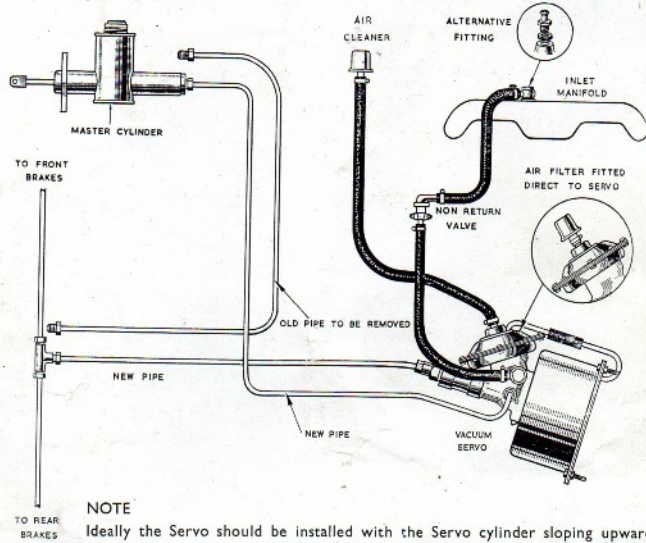


SERVO BRAKING UNITS FOR EVERY CAR

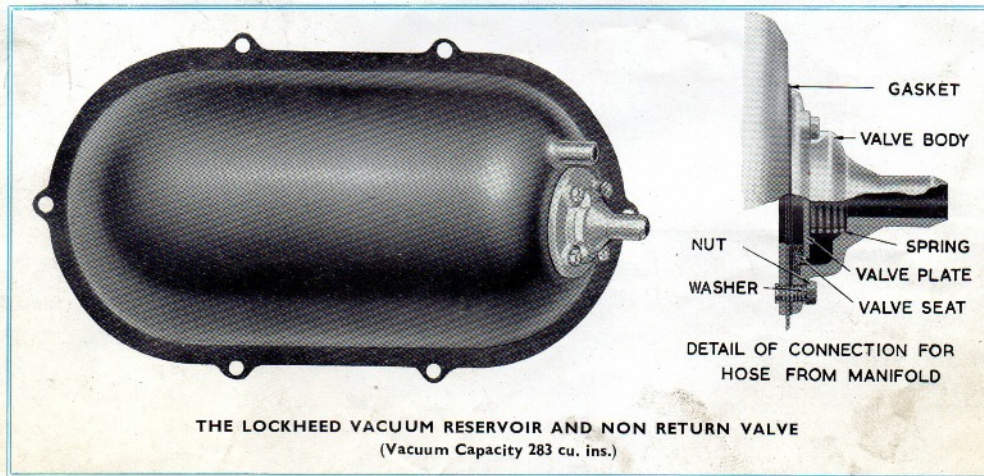
6⁷/₈" PISTON TYPE

Designed for the heavier car, medium van or light truck, the 6⁷/₈ in. Servo utilises a piston in place of a diaphragm, though still retains the feature of combining the vacuum power cylinder and control valve in one compact unit. The principle of operation is depicted on pages 6 and 7.

INSTALLATION DIAGRAM



PLEASE ASK FOR OUR RECOMMENDATIONS



5¹/₂" DIAPHRAGM TYPE

Produced to meet the demand for a compact servo unit, the Lockheed 5¹/₂ in. Diaphragm Servo is particularly suitable for the medium-sized Car or Light Van where problems of space usually govern the installation.

One simple unit combines two powerful forces—Hydraulic and Vacuum—to work through three simple connections to give smooth progressive servo braking.

It is as simple as that, for it consists of one vacuum-hydraulic unit which furnishes power for brake actuation on vehicles fitted with hydraulic brakes. A vacuum power cylinder and control valve are combined in one compact unit with a hydraulic slave cylinder working on an entirely new principle.

By adding the latent vacuum power of the engine manifold to the hydraulic system the Lockheed servo braking unit ensures smooth and positive stopping with a minimum of effort for the driver. There are no outside levers, rods or links to clog with rust or dirt or to require adjustment; all working parts are inside the unit.

The vacuum power cylinder utilises a diaphragm for which frictional losses are low, giving a more efficient unit. An integral air cleaner is incorporated to prevent foreign matter entering the reaction valve chamber.

The unit is made with four slave cylinder bore sizes to suit practically every type of light-medium car.

Compactness and light weight make installation simple. No maintenance is required.

This Servo Braking Unit, when required, can be used in conjunction with the Lockheed Vacuum Reservoir illustrated opposite.

Principle of operation is depicted on pages 6 and 7.

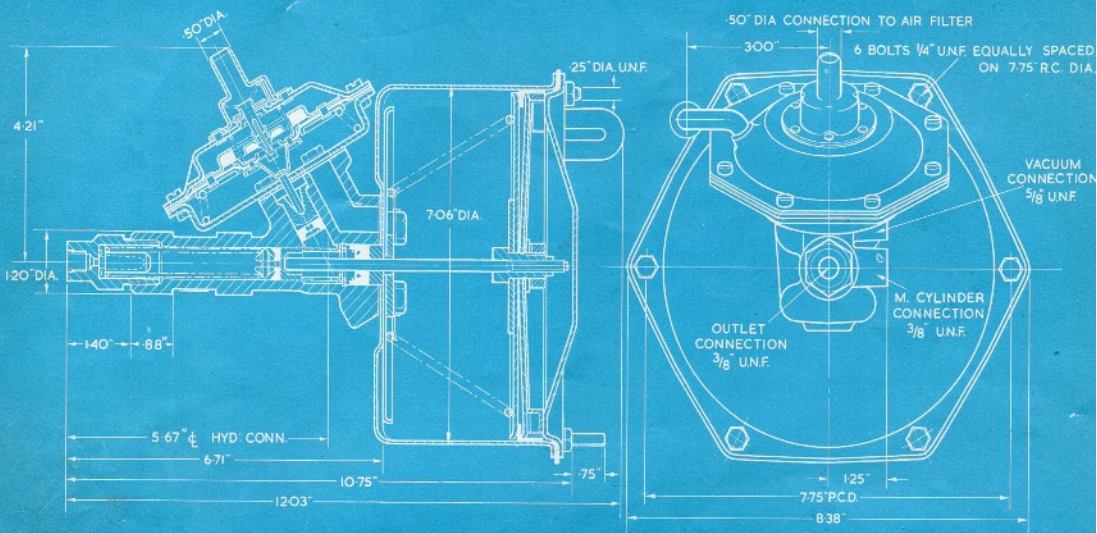
Installation is similar to the diagram for the 6⁷/₈ in. unit shown opposite.

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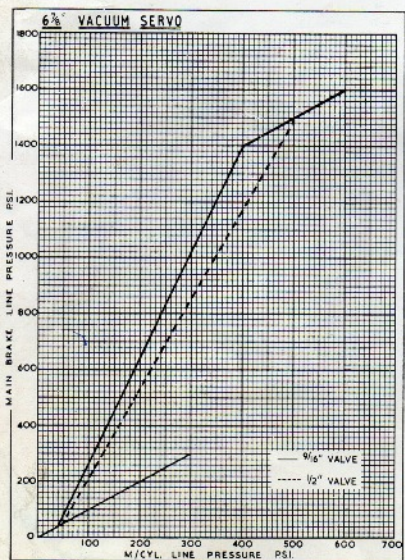
TECHNICAL DATA ON THE



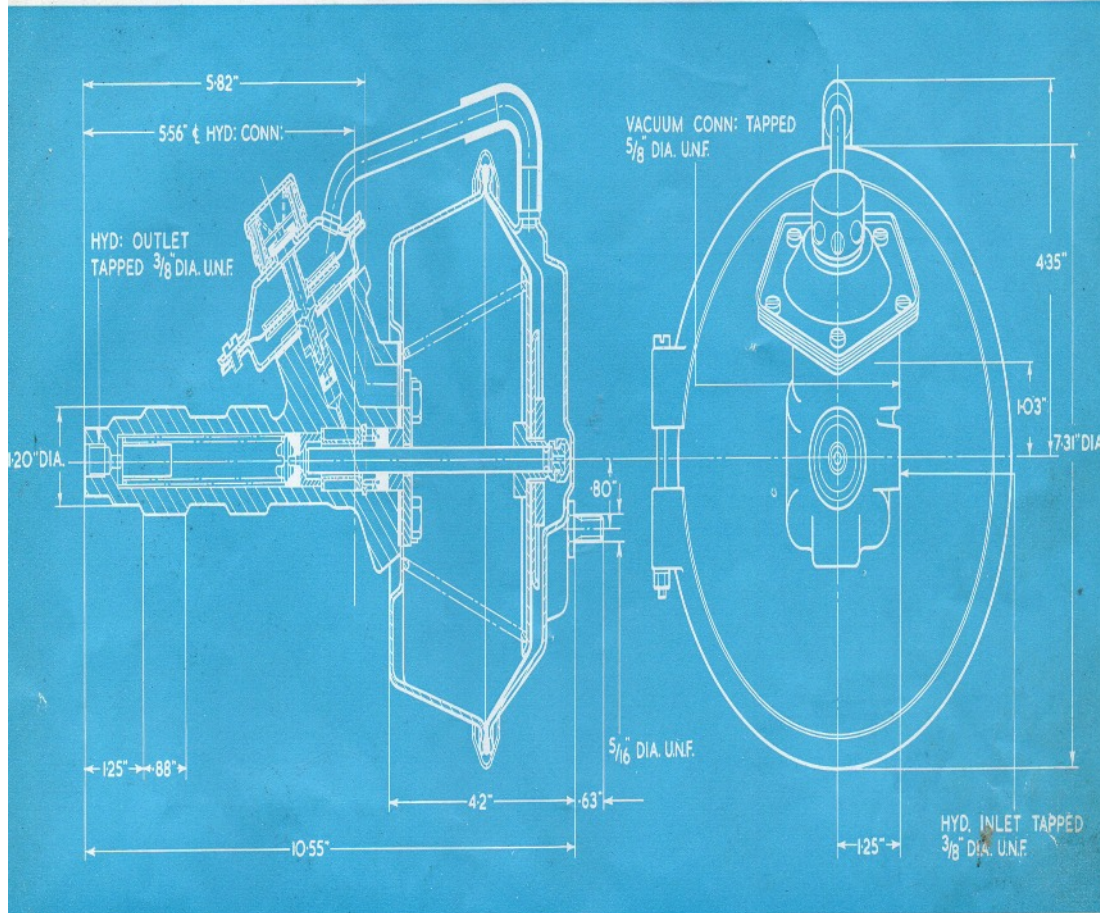
SERVO BRAKING UNITS



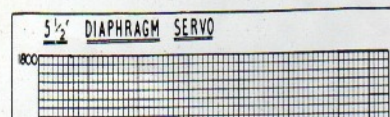
THE 6 7/8" DIAMETER PISTON TYPE



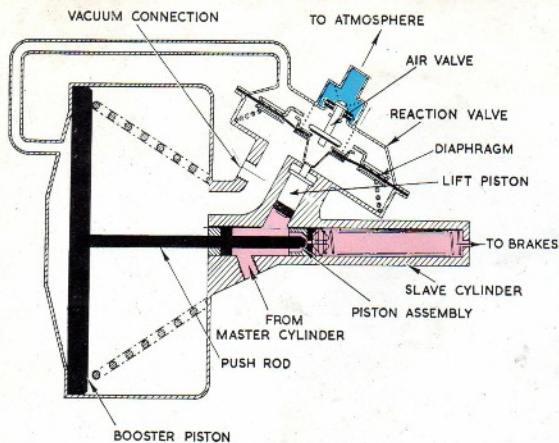
- Vacuum Cylinder diameter 6 7/8"
- Slave Cylinder diameter 5/8"
- Hydraulic Valve Piston diameter 9/16", 1/2"
- Vacuum Cylinder Stroke 2"
- Slave Cylinder displacement 0.61 cu. ins.
- Vacuum Cylinder capacity 9.3 cu. ins. approx.
- Approximate Weight 12 3/4 lbs.



THE 5 1/2" DIAMETER DIAPHRAGM TYPE



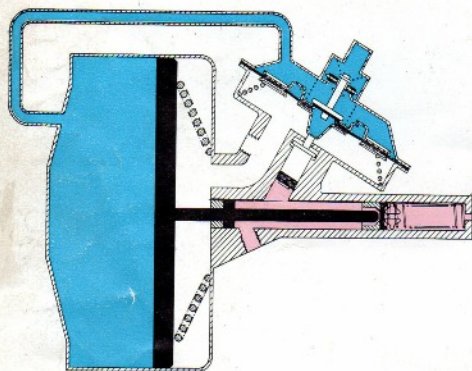
PRINCIPLE OF OPERATION - PISTON OR DIAPHRAGM TYPE



The Lockheed Vacuum Servo comprises (1) a vacuum cylinder enclosing a booster-piston and push rod assembly. (2) a re-action valve, connected to the vacuum source, with an air valve which, in the "brakes off" position, will keep the unit in a state of vacuum but when the brakes are applied will connect the rear of the servo cylinder to atmosphere. (3) a slave cylinder which does the actual work of supplying the pressurised brake fluid to the brake shoes.

The following notes, together with the accompanying drawings, will explain how the servo works.

Stage 1. Initial pressure on the brake pedal causes fluid from the brake master cylinder to flow round the push rod of the booster-piston to the brakes. Pressure meanwhile commences to build up under the piston in the base of the reaction valve chamber. The lower two chambers of the reaction valve are still connected to vacuum and the booster-piston is held against the rear face of the cylinder by spring pressure.

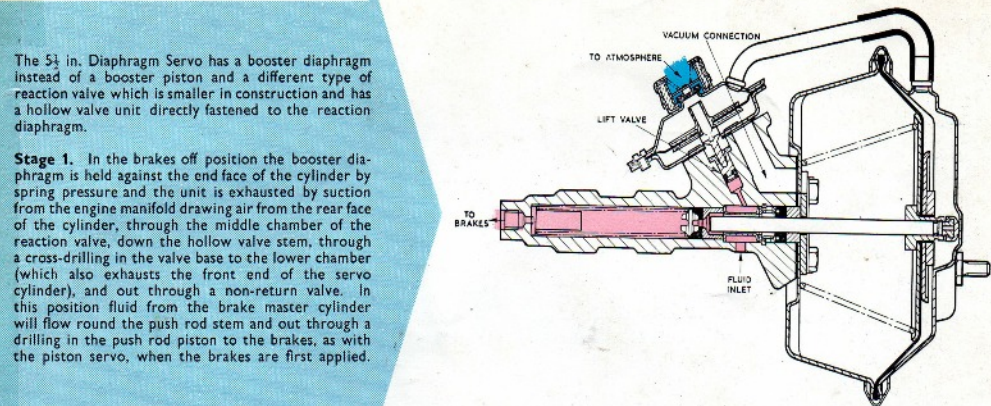
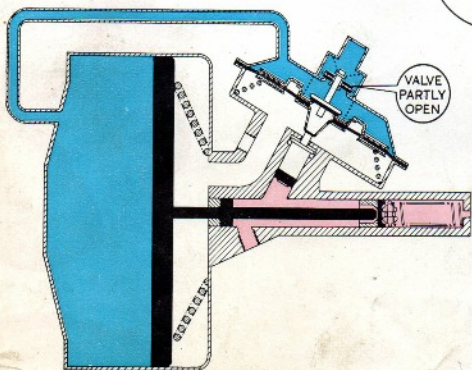


Stage 2. Fluid pressure has raised the lift valve which has deflected the diaphragm in turn and so raised the air valve. The lower chamber in the reaction valve is now sealed off and the middle and upper chambers opened to atmosphere. Air now enters the servo cylinder to the rear of the booster-piston and the resulting pressure differential across the faces forces the piston along the cylinder taking with it the push rod and slave cylinder piston. In moving, the slave cylinder piston has sealed off the bleed hole in its washer and intensified the pressure within the slave cylinder to the brakes. Further fluid from the brake master cylinder fills the space previously occupied by the slave cylinder piston, so preventing a vacuum lock in the system.

Note: In the unlikely event of a failure in the vacuum system the brakes will still continue to operate in the conventional manner but without servo assistance.

Stage 3. Brakes held in "ON" position. Drop in fluid pressure from the master cylinder has caused air valve to close. Booster-piston is still in forward position due to the pressure difference within the servo cylinder but as no more air can enter the unit the brakes will be held in their present position. Further pressure on the brake pedal, however, will open the air valve once more and the booster-piston will apply further pressure to the fluid in the system. As the air valve will open and close according to the pressure applied to the brake pedal it will be seen that it is in fact a proportioning device, ensuring that the performance of the servo is truly progressive.

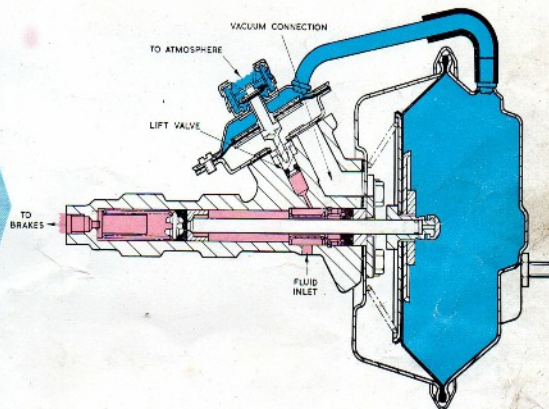
The smaller diagram shows the effect when the brakes are suddenly applied. Rapid pressure build up causes the lift piston to rise to the limit of its travel. In turn the air valve has also been raised to the maximum and lugs on the valve stem have lifted the valve setting in the upper chamber so permitting air to rush rapidly to the servo cylinder to give a quicker response.



The 5 1/2 in. Diaphragm Servo has a booster diaphragm instead of a booster piston and a different type of reaction valve which is smaller in construction and has a hollow valve unit directly fastened to the reaction diaphragm.

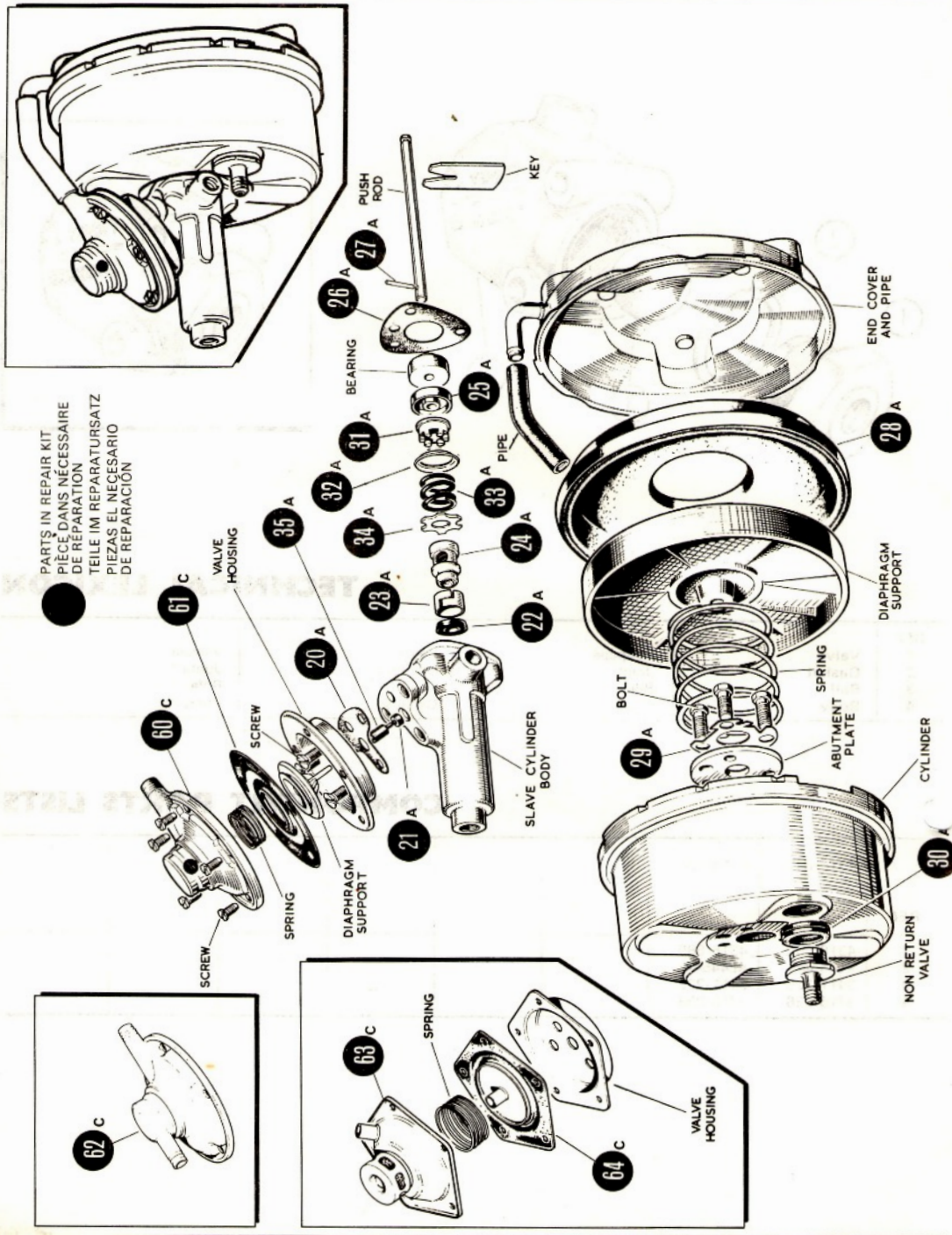
Stage 1. In the brakes off position the booster diaphragm is held against the end face of the cylinder by spring pressure and the unit is exhausted by suction from the engine manifold drawing air from the rear face of the cylinder, through the middle chamber of the reaction valve, down the hollow valve stem, through a cross-drilling in the valve base to the lower chamber (which also exhausts the front end of the servo cylinder), and out through a non-return valve. In this position fluid from the brake master cylinder will flow round the push rod stem and out through a drilling in the push rod piston to the brakes, as with the piston servo, when the brakes are first applied.

Stage 2. When further pressure on the footbrake pedal is applied fluid pressure lifts the piston in the base of the reaction valve, deflects the reaction diaphragm and valve assembly, and unseats a flap valve in the top chamber to connect both it and the middle chamber to atmosphere. By virtue of the same fact the hollow passage in the valve stem is sealed off thus isolating the central chamber from the vacuum source. Air is now passed to the rear of the booster diaphragm and the pressure differential so created forces the diaphragm and push rod assembly forward sealing off the bleed hole in the push rod piston, and taking the locked line of fluid with it.



THE ADVANTAGES OF THE LOCKHEED SERVO BRAKING UNITS

1. No outside levers, rods or links to clog with rust or dirt or to require adjustment. All working parts are inside the unit.
2. Can be located at any convenient place in vehicle chassis.
3. Smoothly graduated power for braking all in one unit.
4. Economy of vacuum.
5. Light mounting brackets because no reactions.
6. Simplification of piping installation.
7. Compact.
8. Full efficiency of hydraulic system even with servo out of operation.
9. No lag in operation.
10. Light weight—5 1/2" Diaphragm Type 7 1/4 lbs.
6 7/8" Piston Type 12 1/4 lbs.
11. Low price.
12. Can be inserted in any suitable hydraulic system without alteration to master cylinder or pedal ratio.



TECHNICAL LEXICON

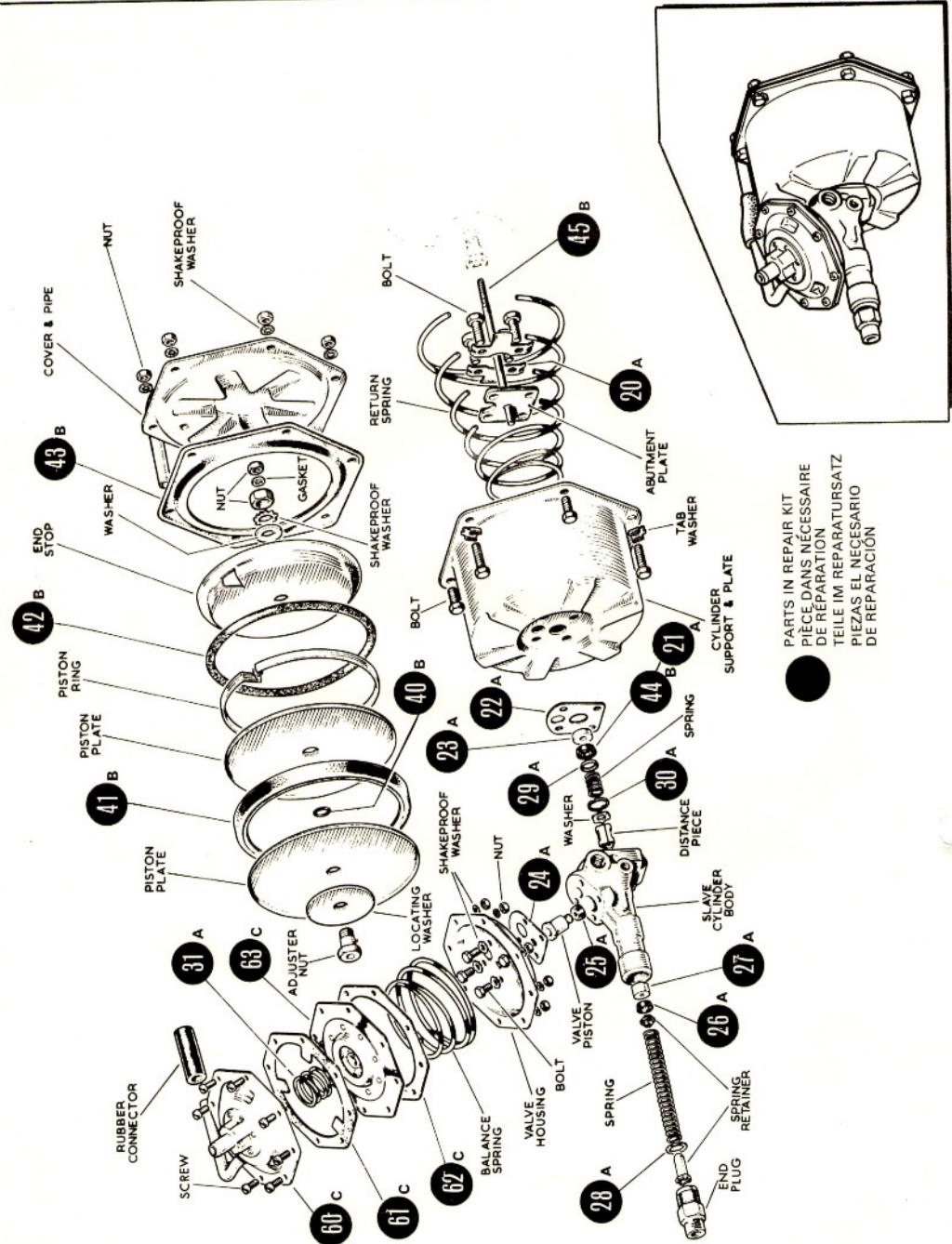
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●A	MAJOR REPAIR KIT containing:	Trousse principale de réparation comprenant:	Hauptreparaturkasten enthaltend:	Juego general de reparaciones conteniendo:
20	Gasket	Joint	Dichtring	Junta
21	Cup	Coupelle	Manschette	Copela
22	Seal	Joint	Dichtung	Junta
23	Retaining Clip	Agrafe de rétenion	Haltebügel	Grapa de retención
24	Piston	Piston	Kolben	Pistón
25	Cup	Coupelle	Manschette	Copela
26	Gasket	Joint	Dichtring	Junta
27	Pin	Goupille	Stift	Pasador
28	Diaphragm	Diaphragme	Membran	Diaphragma
29	Locking Plate	Plaque de verrouillage	Sicherungsblech	Platillo fijador
30	Valve Mount	Support de la soupape	Ventileinbau	Soporte de válvula
31	Spacer	Entretoise	Abstandsstück	Espaciador
32	Cup Spreader	Godet étaleur	Becherspreizstück	Ensanchador de copa
33	Spring	Ressort	Feder	Resorte
34	Washer	Rondelle	Unterleascheibe	Arandela
35	Valve Piston	Piston de la soupape	Ventilkolben	Pistón de válvula
●C	AIR CONTROL VALVE KIT containing:	Trousse de réparation de la soupape de contrôle de l'air comprenant:	Reparaturkasten für das Luftsteuerventil enthaltend:	Juego válvula control de aire conteniendo:
60	Valve Cover and Filter	Chapeau et filtre de la soupape	Ventildeckelfilter	Tapa de válvula y filtro
61	Diaphragm	Diaphragme	Membran	Diafragma
62	Valve and Cover	Soupape et chapeau	Ventil und Deckel	Tapa de válvula
63	Valve Cover and Filter	Chapeau et filtre de la soupape	Ventildeckelfilter	Tapa de válvula y filtro
64	Diaphragm	Diaphragme	Membran	Diafragma

COMPONENT PARTS LISTS

REF	4257-782 Type 6	4257-792 Type 6	4257-794 Type 6	4257-807 Type 6	4257-809 Type 6	4257-812 Type 6	4257-810 Type 6	4257-814 Type 6
●A	SSB1067	SSB1061	SSB1073	SSB1067	SSB1067	SSB1067	SSB1073	SSB1066
20	3884-230	3884-230	3884-230	3884-230	3884-230	3884-230	3884-230	3884-230
21	3865-411(2)	3865-411(2)	3865-411(2)	3865-411(2)	3865-411(2)	3865-411(2)	3865-411(2)	87143
22	3871-439	100977	3871-448	3871-439	3871-439	3871-439	3871-448	3871-448
23	3866-222	3866-220	3866-221	3866-222	3866-222	3866-222	3866-221	3866-221
24	4272-425	4271-311	4271-417	4272-425	4272-425	4272-425	4271-417	4271-417
25	98677	98677	98677	98677	98677	98677	98677	98677
26	3882-237	3882-237	3882-237	3882-237	3882-237	3882-237	3882-237	3882-237
27	3413-249	25846	3413-250	3413-249	3413-249	3413-249	3413-250	3413-250
28	3818-412	3818-412	3818-412	3818-412	3818-412	3818-412	3818-412	3818-412
29	3681-714	3681-714	3681-714	3681-714	3681-714	3681-714	3681-714	3681-714
30	3865-733	3865-733	3865-733	3865-733	3865-733	3865-733	3865-733	3865-733
31	3866-223	3866-223	3866-223	3866-223	3866-223	3866-223	3866-223	3866-223
32	3661-431	3661-431	3661-431	3661-431	3661-431	3661-431	3661-431	3661-431
33	3113-283	3113-283	3113-283	3113-283	3113-283	3113-283	3113-283	3113-283
34	3525-257	3525-257	3525-257	3525-257	3525-257	3525-257	3525-257	3525-257
35	3261-229	3261-229	3261-229	3261-229	3261-229	3261-229	3261-229	—
●C	SSB1032	SSB1032	SSB1032	SSB1025	SSB1025	SSB1032	SSB1032	SSB1032
60	4316-638	4316-638	4316-638	—	—	4316-638	4316-638	4316-638
61	3818-407	3818-407	3818-407	—	—	3818-407	3818-407	3818-407
62	—	—	—	—	—	—	—	—
63	—	—	—	4316-620	4316-620	—	—	—

COMPONENT PARTS LISTS -contd.

REF	4258-185 Type 7	4258-221 Type 7	4258-230 Type 7	4258-231 Type 7	4258-233 Type 7	4258-465 Type 8	4258-481 Type 8	4258-505 Type 8
●A	SSB1059	SSB1062	SSB1059	SSB1059	SSB1058	SSB1063	SSB1064	SSB1065
20	3884-230	3884-230	3884-230	3884-230	3884-230	3884-230	3884-230	3884-230
21	87143	3865-411(2)	87143	87143	3862-439	3862-439	87143	87143
22	100977	100977	100977	100977	3871-439	3871-448	100977	3871-448
23	3866-220	3866-220	3866-220	3866-220	3866-222	3866-221	3866-220	3866-221
24	4271-311	4271-311	4271-311	4271-311	4272-425	4271-417	4271-311	4271-417
25	98677	98677	98677	98677	98677	98677	98677	98677
26	3882-237	3882-237	3882-237	3882-237	3882-237	3882-237	3882-237	3882-237
27	25846	25846	25846	25846	3413-249	3413-250	25846	3413-250
28	3818-411	3818-411	3818-411	3818-411	3818-411	3818-415	3818-415	3818-415
29	3681-714	3681-714	3681-714	3681-714	3681-714	3681-714	3681-714	3681-714
30	3865-733	3865-733	3865-733	3865-733	3865-733	3865-733	3865-733	3865-733
31	3866-223	3866-223	3866-223	3866-223	3866-223	3866-223	3866-223	3866-223
32	3661-431	3661-431	3661-431	3661-431	3661-431	3661-431	3661-431	3661-431
33	3113-283	3113-283	3113-283	3113-283	3113-283	3113-283	3113-283	3113-283
34	3525-257	3525-257	3525-257	3525-257	3525-257	3525-257	3525-257	3525-257
35	—	3261-229	—	—	—	—	—	—
●C	SSB1038	SSB1032	SSB1032	SSB1032	SSB1038	SSB1032	SSB1032	SSB1032
60	—	4316-638	4316-638	4316-638	—	4316-638	4316-638	4316-638
61	3818-407	3818-407	3818-407	3818-407	3818-407	3818-407	3818-407	3818-407
62	4316-643	—	—	—	4316-643	—	—	—



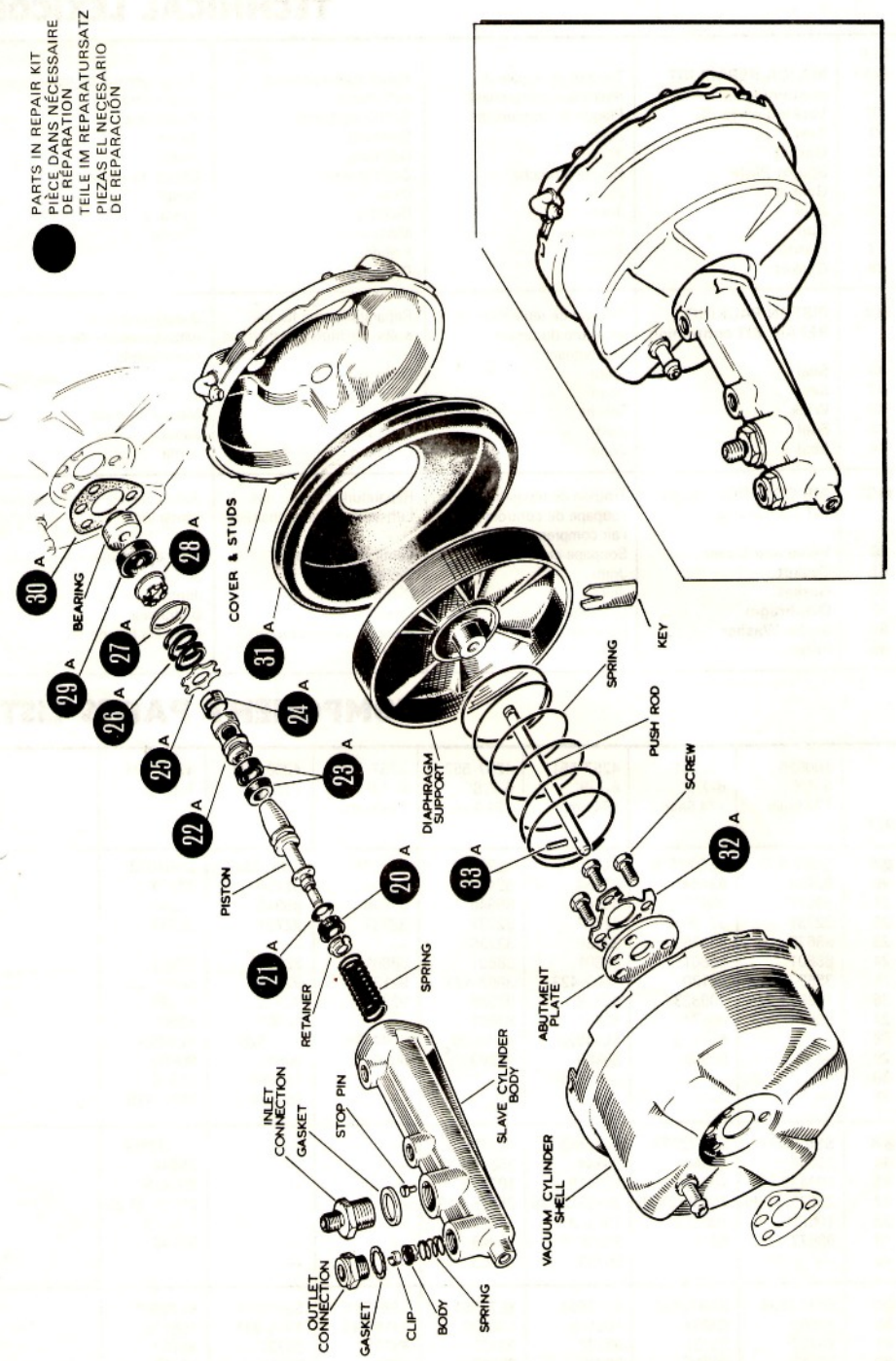
PARTS IN REPAIR KIT
PIECE DANS NECESSAIRE
DE REPARATION
TEILE IM REPARATURSATZ
PIEZAS EL NECESARIO
DE REPARACION

TECHNICAL LEXICON

REF ●A	MAJOR REPAIR KIT containing: Locking plate (2) Seal Gasket Spigot Plate Gasket Seal Cup Piston Gasket	Trousse principale de réparation comprenant: Plaque de verrouillage Joint Joint Plaque à broche Joint Joint Coupelle Piston Joint	Hauptreparaturkasten, enthaltend: Sicherungsblech Dichtung Dichtung Zapfenplatte Dichtring Dichtung Manschette Kolben Dichtring	Juego general de reparaciones conteniendo: Platillo fijador Junta Junta Chapa de asiento Junta Junta Copela Pistón Junta
●B	PISTON PACKING REPAIR KIT containing: Seal Seal Wick Seal Seal	Trousse de réparation de la garniture du piston comprenant: Joint Joint Mèche Joint Joint	Reparaturkasten für die Kolbendichtung, enthaltend: Dichtung Dichtung Docht Dichtung Dichtung	Juego reparación empaquetadura del pistón conteniendo: Junta Junta Mecha trenzada Junta Junta
●C	AIR CONTROL VALVE KIT containing: Valve and Cover Gasket Gasket Diaphragm Sorbo Washer Filter	Trousse de réparation de la soupape de contrôle de l'air comprenant: Soupape et chapeau Joint Joint Diaphragme Rondelle Sorbo Filtre	Reparaturkasten für das Luftsteuerventil, enthaltend: Ventil und Deckel Dichtring Dichtring Membran Absorptionsabdichtung Filter	Juego válvula control de aire conteniendo: Tapa de válvula Junta Junta Diafragma Arandela blanda Filtro

COMPONENT PARTS LISTS

REF	100626 6-7/8" 174.6mm	112231 6-7/8" 174.6mm	4257-551 6-7/8" 174.6mm	4257-552 6-7/8" 174.6mm	4257-716 6-7/8" 174.6mm	4258-503 Type 8	4258-504 Type 8
●A	SSB72572	SSB72576	KL72548	KL72548	KL72562	SSB1034	SSB1033
20	82454	82454	82454	82454	82454	82454	82454
21	98677	98677	98677	98677	98677	98677	98677
22	32737	32737	32737	32737	32737	32737	32737
23	98678	98678	32736	32736	—	—	—
24	88801	88801	88801	88801	88801	88801	88801
25	3862-423	92130	3862-423	3862-423	92130	3862-423	3862-423
26	109833	109833	92328	92328	92328	92328	92328
27	98674	98674	82601	82601	—	82601	82601
28	—	KL44537	KL44526	KL44526	KL44526	KL44526	KL44526
29	—	99905	90860	90860	90860	90860	90860
30	—	—	—	—	—	113067	113067
31	—	—	—	—	—	3818-415	3818-415
●B	SSB72577	SSB72577	KL72565	KL72565	—	—	SSB72566
40	25844	25844	25844	25844	—	—	25844
41	107419	107419	107419	107419	—	—	107419
42	25835/21.25	25835/21.25	25835/21.25	25835/21.25	—	—	25835/21.25
43	106213	106213	106213	106213	—	—	106213
44	98677	98677	85946	85946	—	—	85946
45	—	—	86753	86753	—	—	—
●C	SSB72534	SSB72534	KL72551	KL72551	SSB1011	SSB1011	KL72551
60	88803	88803	106176	106176	4316-611	4316-611	106176
61	93737	93737	93737	93737	93737	93737	93737
62	88718	88718	88718	88718	88718	88718	88718



TECHNICAL LEXICON

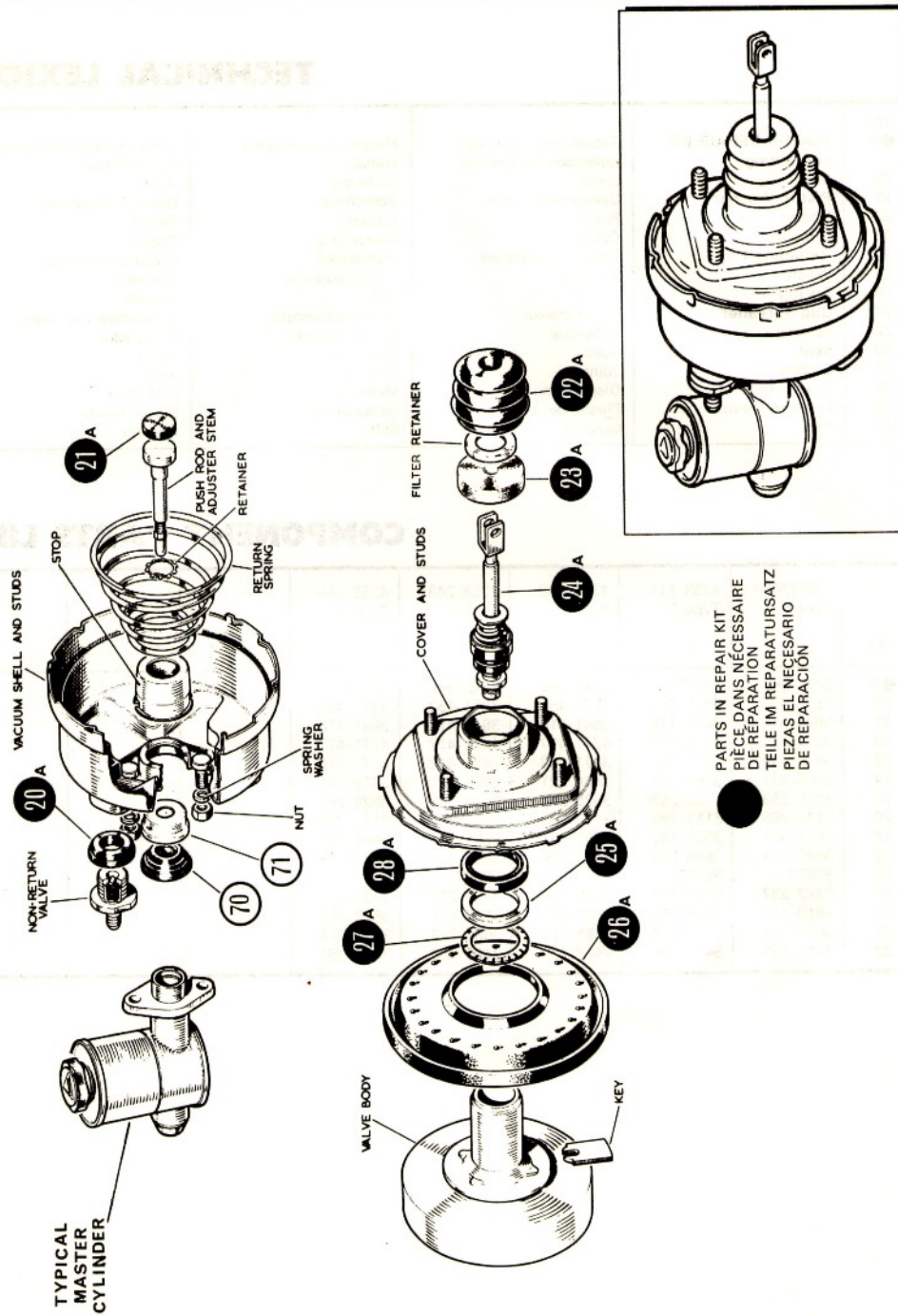
REF	MAJOR REPAIR KIT containing:	Trousse principale de réparation comprenant:	Hauptreparaturkasten, enthaltend:	Juego general de reparaciones conteniendo:
●A	Seal	Joint	Dichtung	Junta
20	Piston Washer	Disque de sécurité	Füllscheibe	Disco de seguridad
21	Piston	Piston	Kolben	Pistón
22	Cup (2)	Coupelle	Manschette	Copela
23	Retaining Clip	Agrafe de rétention	Haltebügel	Grapa de retención
24	Washer	Rondelle	Unterlegscheibe	Arandela
25	Spring	Ressort	Feder	Resorte
26	Cup Spreader	Godet étaleur	Becherspreizstück	Ensanchador de copa
27	Spacer	Entretoise	Abstandsstück	Espaciador
28	Seal	Joint	Dichtung	Junta
29	Gasket	Joint	Dichtring	Junta
30	Diaphragm	Diaphragme	Membran	Diafragma
31	Locking Plate	Plaque de verrouillage	Sicherungsblech	Platillo fijador
32	Pin	Goupille	Stift	Pasador
33				

COMPONENT PARTS LISTS

REF	SSB72690 Type 8	4258-111 Type 7	4258-232 Type 7	4258-243 Type 7	4258-510 Type 8			
●A	SSB1069	SSB1068	SSB1068	SSB1068	SSB1069			
20	3871-452	3871-452	3871-452	3871-452	3871-452			
21	3641-418	3641-418	3641-418	3641-418	3641-418			
22	4271-417	4271-417	4271-417	4271-417	4271-417			
23	3871-448	3871-448	3871-448	3871-448	3871-448			
24	3866-221	3866-221	3866-221	3866-221	3866-221			
25	3525-258	3525-258	3525-258	3525-258	3525-258			
26	3113-285	3113-285	3113-285	3113-285	3113-285			
27	3661-431	3661-431	3661-431	3661-431	3661-431			
28	3866-224	3866-224	3866-224	3866-224	3866-224			
29	98677	98677	98677	98677	98677			
30	3882-237	3882-237	3882-237	3882-237	3882-237			
31	3818-415	3818-411	3818-411	3818-411	3818-415			
32	3681-714	3681-714	3681-714	3681-714	3681-714			
33	3413-250	3413-250	3413-250	3413-250	3413-250			

TECHNICAL LEXICON

COMPONENT PARTS LISTS

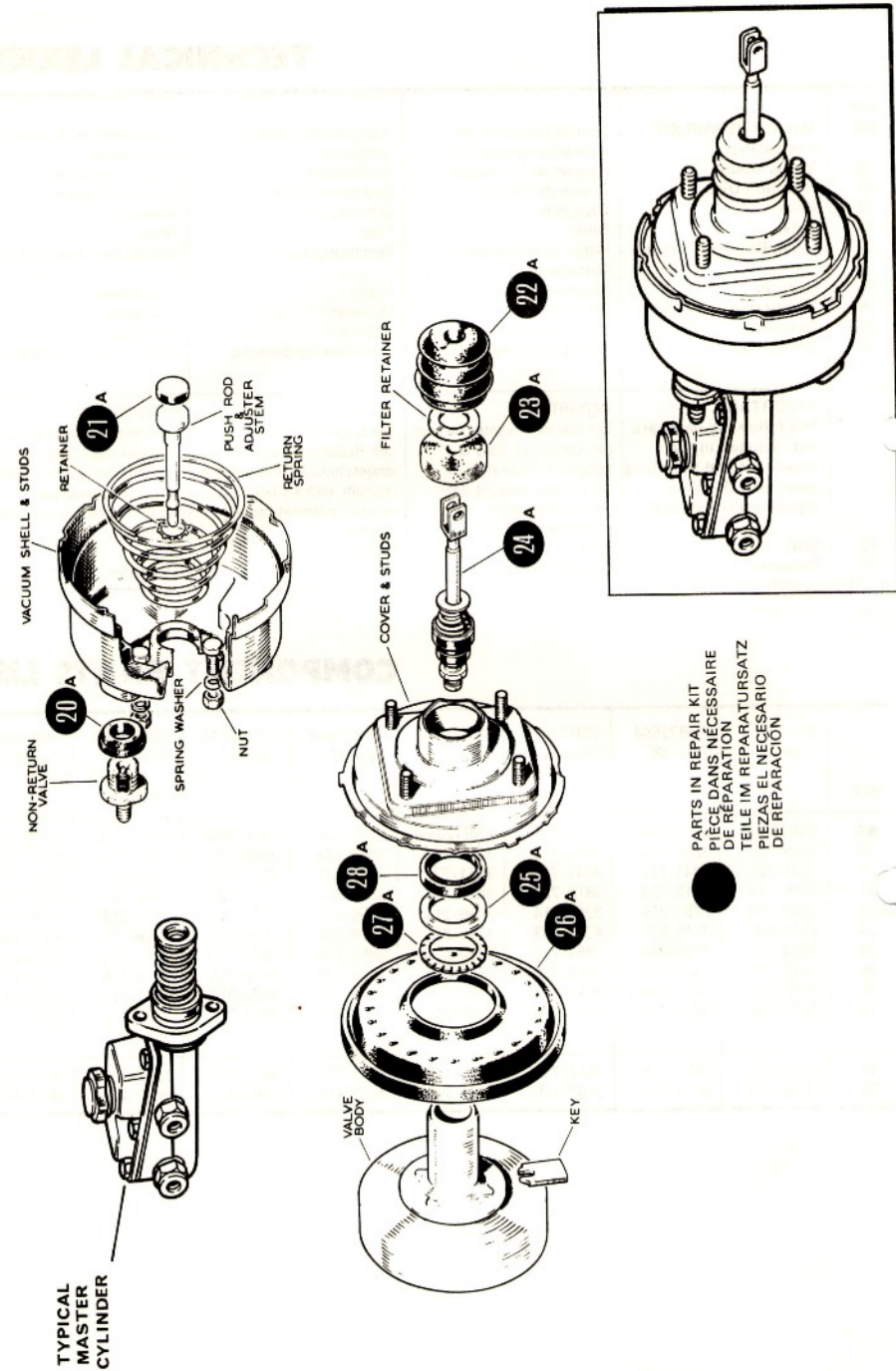


TECHNICAL LEXICON

REF ●A	MAJOR REPAIR KIT containing: Valve Mount Reaction Disc Boot Filter Valve Rod and Plunger	Trousse principale de réparation comprenant: Support de la soupape Disque de réaction Capuchon Filtre Piston de la tige de la soupape	Hauptreparaturkasten, enthaltend: Ventileinbau Reaktionsscheibe Schutzkappe Filter Ventilstangenkolben	Juego general de reparaciones conteniendo: Soporte de válvula Disco de reacción Guardapolvo Filtro Embolo del vástago de válvula
25 26 27 28	Bearing Diaphragm Retainer Cover Seal	Coussinet Diaphragme Pièce de fixation Garniture du chapeau	Lager Membran Haltstück Ventildeckelabdichtung	Chumacera Diafragma Retenedor Obturador de la cubierta
70 71	IMPORTANT The following parts are not included in the Repair Kit and therefore must be ordered separately if required. Seal Retainer	IMPORTANT Les pièces suivantes ne sont pas comprises dans la trousse de réparation et, s'il y a lieu, devront donc être commandées séparément. Joint Pièce de fixation	WICHTIG! Die folgenden Teile sind in den Reparaturkästen nicht eingeschlossen und müssen deshalb, falls sie benötigt werden, getrennt bestellt werden. Dichtung Haltstück	IMPORTANTE Las piezas siguientes no se incluyen en el juego de reparaciones y por lo tanto deben solicitarse por separado caso de necesitarse. Junta Retenedor

COMPONENT PARTS LISTS

REF	SSB72588 Type 28	SSB72594 Type 38	SSB72597 Type 38	SSB72653 Type 50	SSB72664 Type 38	SSB72670 Type 50	SSB72687 Type 38	SSB72699 Type 50
●A	SSB72593	SSB72595	SSB72599	SSB72649	SSB72663	SSB72665	SSB72686	SSB80000
20	3865-733	3865-733	3865-733	3865-733	3865-733	3865-733	3865-733	3865-733
21	3841-721	3841-721	3841-721	3841-721	3841-721	3841-721	3841-721	3841-721
22	3815-724	3815-724	3815-724	3815-724	3815-724	3815-724	3815-724	3815-724
23	3256-214	3256-214	3256-214	3256-214	3256-214	3256-214	3256-214	3256-214
24	4316-609	4316-621	4316-633	4316-621	4316-651	4316-633	4316-673	4316-692
25	3854-215	3854-215	3854-215	3854-215	3854-215	3854-215	3854-215	3854-215
26	3818-725	3818-729	3818-729	3818-415	3818-729	3818-415	3818-729	3818-415
27	3672-214	3672-214	3672-214	3672-214	3672-214	3672-214	3672-214	3672-214
28	3877-716	3877-716	3877-716	3877-716	3877-716	3877-716	3877-716	3877-716
70	3812-722	3812-728	3812-736	3812-728	3812-736	3812-728	3812-728	3812-746
71	3663-415	3663-415	3663-415	3663-415	3663-415	3663-415	3663-415	3663-418

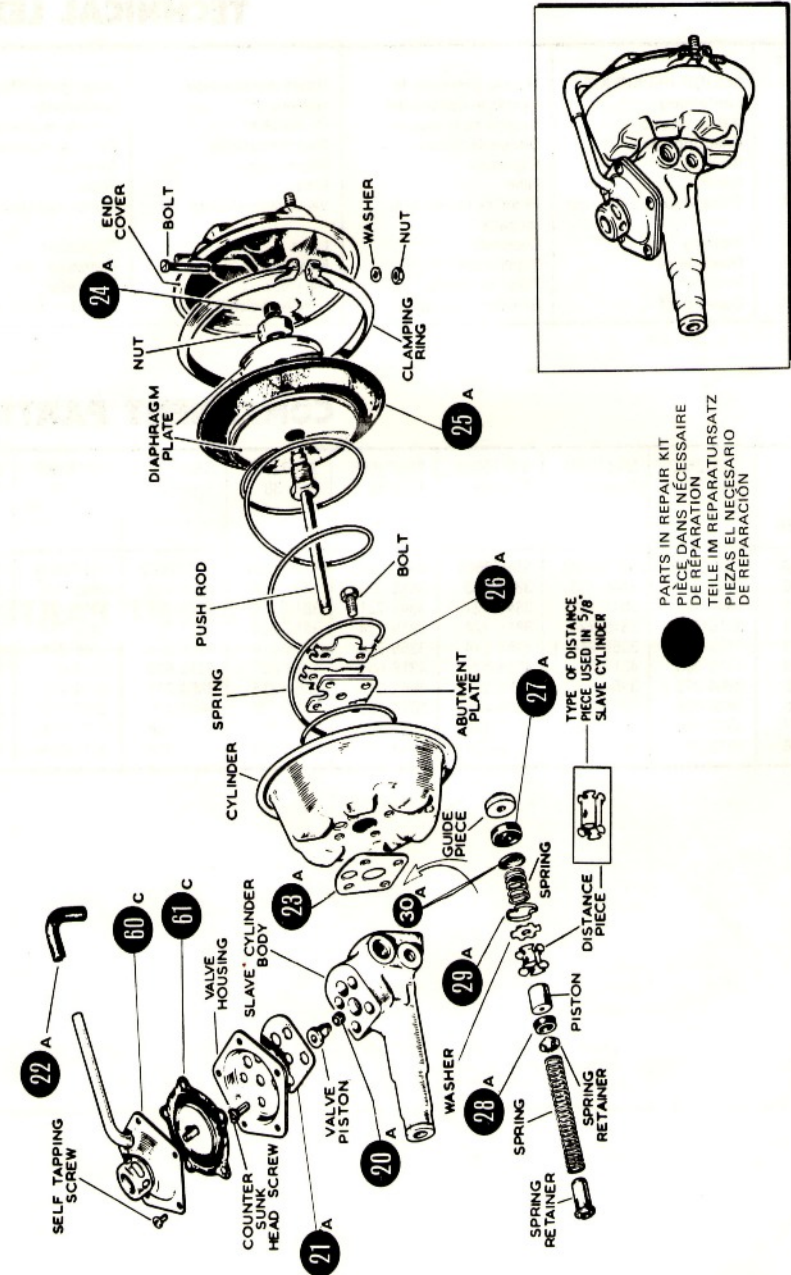


TECHNICAL LEXICON

REF	MAJOR REPAIR KIT containing:	Trousse principale de réparation comprenant:	Hauptreparaturkasten, enthaltend:	Juego general de reparaciones conteniendo:
20	Valve Mount	Support de la soupape	Ventileinbau	Soporte de válvula
21	Reaction Disc	Disque de réaction	Reaktionsscheibe	Disco de reacción
22	Boot	Capuchon	Schutzkappe	Guardapolvo
23	Filter	Filtre	Filter	Filtro
24	Valve Rod and Plunger	Piston de la tige de la soupape	Ventilstangenkolben	Embolo del vástago de válvula
25	Bearing	Coussinet	Lager	Chumacera
26	Diaphragm	Diaphragme	Membran	Diafragma
27	Retainer	Pièce de fixation	Haltstück	Retenedor
28	Cover Seal	Garniture du chapeau	Ventildeckelabdichtung	Obturator de la cubierta

COMPONENT PARTS LISTS

REF	SSB72590 Type 28	SSB72598 Type 38	SSB72650 Type 50	SSB72658 Type 38	SSB72662 Type 38	SSB72666 Type 50	SSB72667 Type 50	SSB72671 Type 38
●A	SSB72593	SSB72599	SSB72649	SSB72659	SSB72663	SSB72665	SSB72665	SSB72672
20	3865-733	3865-733	3865-733	3865-733	3865-733	3865-733	3865-733	3865-733
21	3841-721	3841-721	3841-721	3841-721	3841-721	3841-721	3841-721	3841-721
22	3815-724	3815-724	3815-724	3815-724	3815-724	3815-724	3815-724	3815-724
23	3256-214	3256-214	3256-214	3256-214	3256-214	3256-214	3256-214	3256-214
24	4316-609	4316-633	4316-621	4316-657	4316-651	4316-633	4316-633	4316-664
25	3854-215	3854-215	3854-215	3854-215	3854-215	3854-215	3854-215	3854-215
26	3818-725	3818-729	3818-415	3818-729	3818-729	3818-415	3818-415	3818-729
27	3877-716	3877-716	3877-716	3877-716	3877-716	3877-716	3877-716	3877-716
28	3672-214	3672-214	3672-214	3672-214	3672-214	3672-214	3672-214	3672-214



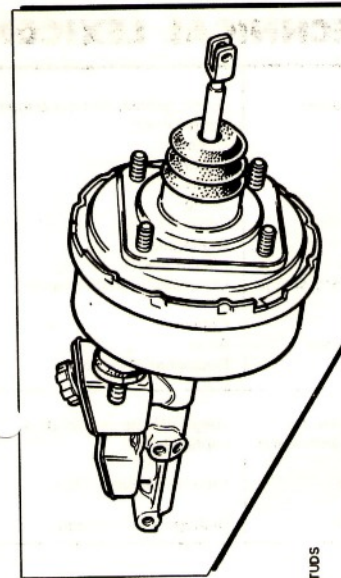
PARTS IN REPAIR KIT
PIÈCE DANS NÉCESSAIRE
DE RÉPARATION
TEILE IM REPARATURSATZ
PIEZAS EL NECESARIO
DE REPARACION

TECHNICAL LEXICON

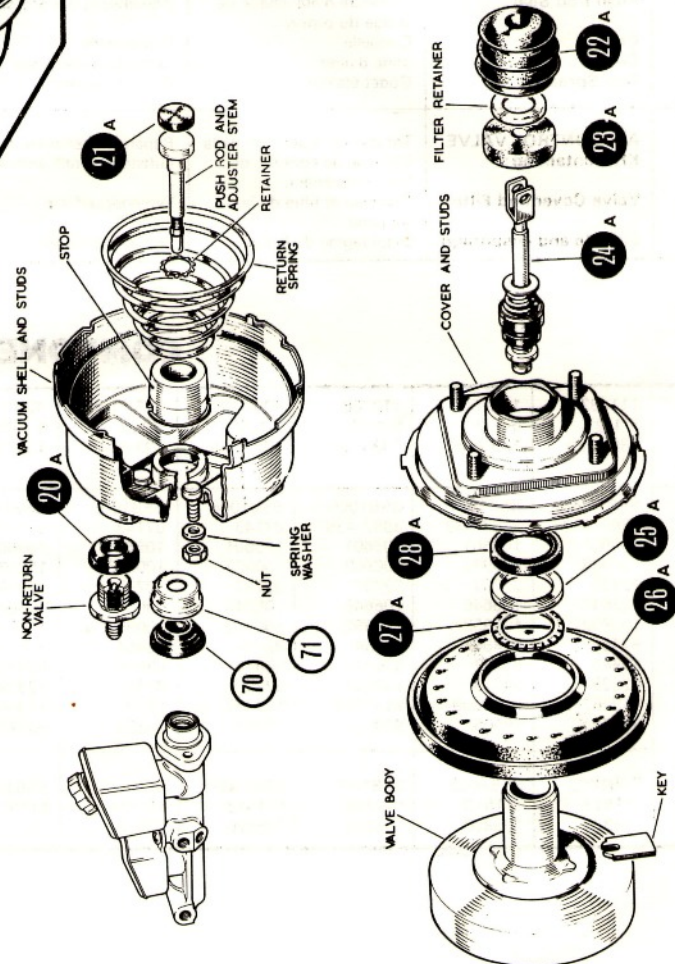
REF ●A	MAJOR REPAIR KIT containing: 20 Cup 21 Gasket 22 Elbow 23 Gasket 24 Buffer 25 Diaphragm 26 Locking Plate (2) 27 Push Rod Seal	Trousse principale de réparation comprenant: Coupelle Joint Coude Joint Tampon Diaphragme Plaque de verrouillage Garniture d'étanchéité de la tige du piston	Hauptreparaturkasten, enthaltend: Manschette Dichtring Krümmer Dichtring Stossfänger Membran Sicherungsblech Abdichtung der Stosstange	Juego general de reparaciones conteniendo: Copela Junta Codo Junta Tope Diafragma Platillo fijador Obturador vástago empuje
28 Cup 29 Circlip 30 Cup Spreader		Coupelle Jonc d'arrêt Godet étaleur	Manschette Sicherunas-federring Becherspreizstück	Copela Arillo Ensanchador de copa
●C	AIR CONTROL VALVE KIT containing: 60 Valve Cover and Filter 61 Spindle and Diaphragm	Trousse de réparation de la soupape de contrôle de l'air comprenant: Chapeau et filtre de la soupape Diaphragme de la tige	Reparaturkasten für das Luftsteuerventil, enthaltend: Ventildeckefilter Spindelmembrane	Juego válvula control de ai conteniendo: Tapa de válvula y filtro Diafragma del vástago

COMPONENT PARTS LISTS

REF	111493 5-1/2" 139.7mm	112756 5-1/2" 139.7mm	112768 5-1/2" 139.7mm	4257-087 5-1/2" 139.7mm	4257-094 5-1/2" 139.7mm	4257-117 5-1/2" 139.7mm		
●A	SSB1036	SSB1001	SSB1005	SSB1006	SSB1006	SSB1006		
20	3862-439	3862-439	3862-439	87143	87143	87143		
21	105601	105601	105601	105601	105601	105601		
22	100983	100983	100983	100983	100983	100983		
23	32737	32737	32737	32737	32737	32737		
24	106646	106646	106646	106646	106646	106646		
25	100952	100952	100952	100952	100952	100952		
26	82454	82454	82454	82454	82454	82454		
27	85946	98677	98677	85946	85946	85946		
28	92328	94713	109833	92328	92328	92328		
29	113067	KL47009	KL47009	113067	113067	113067		
30	90860	99905	99905	90860	90860	90860		
●C	SSB1002	SSB1002	SSB1004	SSB1002	SSB1002	SSB1002		
60	111513	111513	112758	111513	111513	111513		
61	105820	105820	105820	105820	105820	105820		



PARTS IN REPAIR KIT
PIÈCE DANS NECESSAIRE
DE REPARATION
TEILE IM REPARATURSATZ
PIEZAS EL NECESARIO
DE REPARACION

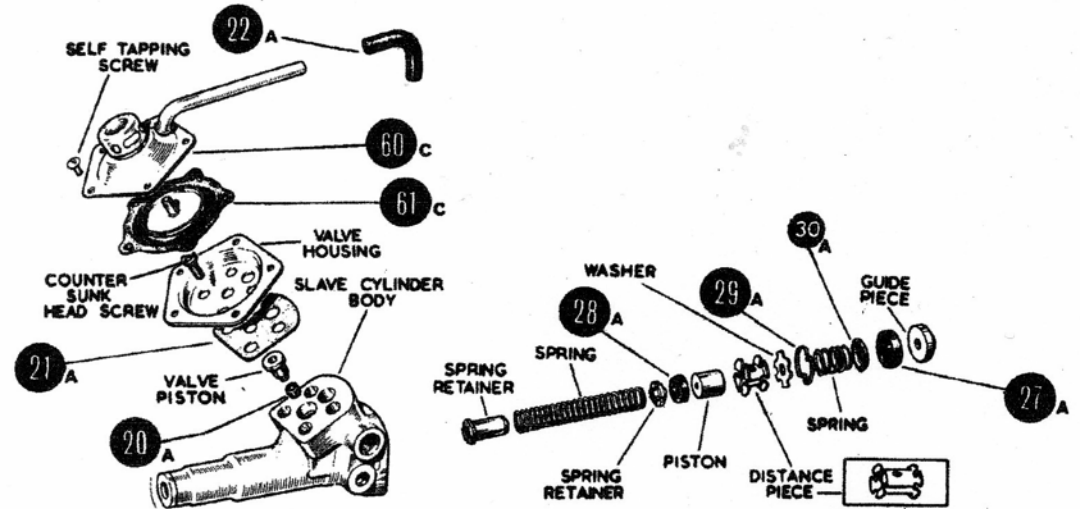
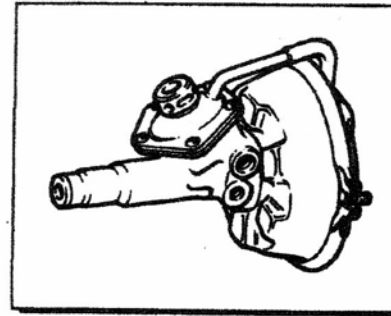


TECHNICAL LEXICON

REF ●A	MAJOR REPAIR KIT containing: 20 Valve Mount 21 Reaction Disc 22 Boot 23 Filter 24 Valve Rod and Plunger	Trousse principale de réparation comprenant: Support de la soupape Disque de réaction Capuchon Filtre Piston de la tige de la soupape	Hauptreparaturkasten, enthaltend: Ventileinbau Reaktionsscheibe Schutzkappe Filter Ventilstangenkolben	Juego general de reparaciones conteniendo: Soporte de válvula Disco de reacción Guardapolvo Filtro Embolo del vástago de válvula
25 26 27 28	Bearing Diaphragm Retainer Cover Seal	Coussinet Diaphragme Piece de fixation Garniture du chapeau	Lager Membran Haltstück Ventildeckelabdichtung	Chumacera Diafragma Retenedor Obturador de la cubierta
	IMPORTANT The following parts are not included in the Repair Kit and therefore must be ordered separately if required.	IMPORTANT Les pièces suivantes ne sont pas comprises dans la trousse de réparation et, s'il y a lieu, devrout donc être commandées séparément.	WICHTIG! Die folgenden Teile sind in den Reparaturkästen nicht eingeschlossen und müssen deshalb, falls sie benötigt werden, getrennt bestellt werden.	IMPORTANTE Las piezas siguientes no incluyen en el juego de reparaciones y por lo tanto deben solicitarse por separado caso de necesitarse.
70 71	Seal Retainer	Joint Piece de fixation	Dichtung Haltstück	Junta Retenedor

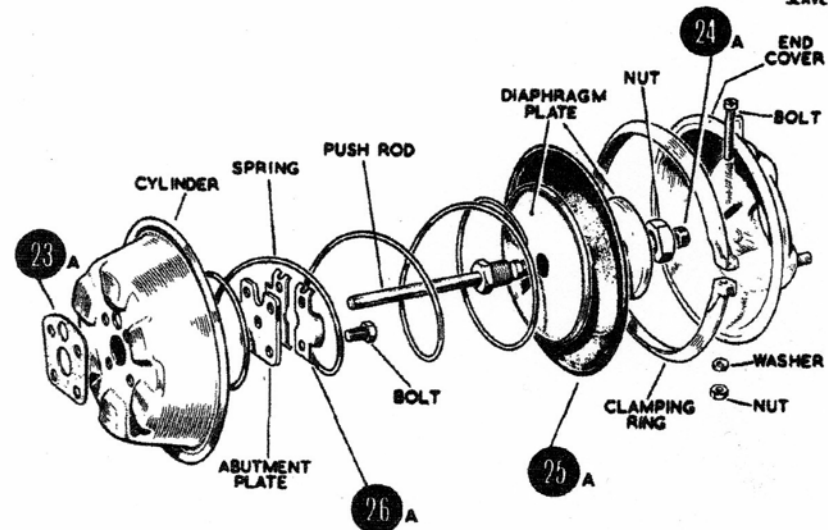
COMPONENT PARTS LISTS

REF	SSB72588 Type 28	SSB72594 Type 38	SSB72597 Type 38	SSB72653 Type 50	SSB72664 Type 38	SSB72670 Type 50	SSB72687 Type 38	SSB72699 Type 50
●A	SSB72593	SSB72595	SSB72599	SSB72649	SSB72663	SSB72665	SSB72686	SSB80000
20	3865-733	3865-733	3865-733	3865-733	3865-733	3865-733	3865-733	3865-733
21	3841-721	3841-721	3841-721	3841-721	3841-721	3841-721	3841-721	3841-721
22	3815-724	3815-724	3815-724	3815-724	3815-724	3815-724	3815-724	3815-724
23	3256-214	3256-214	3256-214	3256-214	3256-214	3256-214	3256-214	3256-214
24	4316-609	4316-621	4316-633	4316-621	4316-651	4316-633	4316-673	4316-692
25	3854-215	3854-215	3854-215	3854-215	3854-215	3854-215	3854-215	3854-215
26	3818-725	3818-729	3818-729	3818-415	3818-729	3818-415	3818-729	3818-415
27	3672-214	3672-214	3672-214	3672-214	3672-214	3672-214	3672-214	3672-214
28	3877-716	3877-716	3877-716	3877-716	3877-716	3877-716	3877-716	3877-716
70	3812-722	3812-728	3812-736	3812-728	3812-736	3812-728	3812-728	3812-746
71	3663-415	3663-415	3663-415	3663-415	3663-415	3663-415	3663-415	3663-418



PARTS IN REPAIR KIT
PIÈCE DANS NÉCESSAIRE
DE RÉPARATION
TEILE IM REPARATURSATZ
PIEZAS EL NECESARIO
DE REPARACIÓN

TYPE OF DISTANCE
PIECE USED IN 3/8"
SLAVE CYLINDER



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