ELECTRONIC DATA MONITOR

1) Clock
2) Engine coolant temperature gauge
3) Fuel level gauge
4) Service hourmeter
5) Battery charge indicator
6) Engine oil pressure indicator
8) Engine air cleaner restriction indicator
9) Engine coolant high temperature indicator
10) Fuel reserve indicator
12) Work lights pilot lamp
13) Engine oil level OK pilot lamp
14) Engine coolant level OK pilot lamp
15) Hydraulic oil tank level OK pilot lamp
16) Decelerator (auto-idling) pilot lamp
17) Low speed travel pilot lamp
18) High speed travel pilot lamp
V) Warning indicators test switch
S) Buzzer stop switch

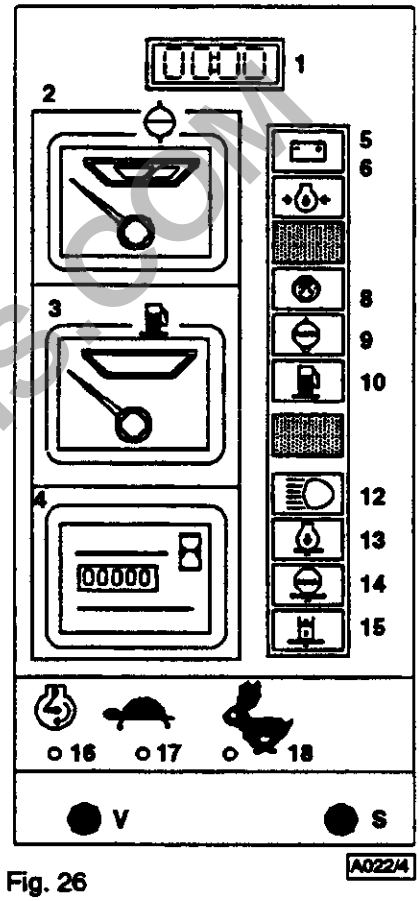


Fig. 26

This Monitor Panel consists of the following three categories:

1) Indicators which show the current machine conditions by analog system.
2) Warning lamps turning red in case of malfunction.
3) Pilot lamps showing the work conditions.

INSTRUMENT FUNCTIONS

Clock

This clock is always operative except when disconnecting a battery terminal, say, for some maintenance operation. The clock is provided with time setting knobs:

X: press to set hours

Y: press to set minutes

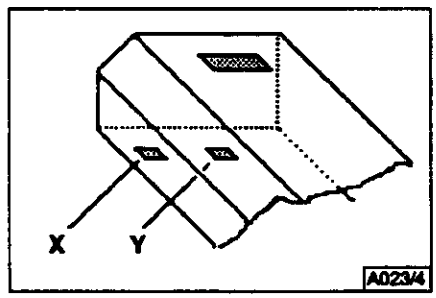


Fig. 27

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FLYWHEEL - ENGINE VOLANO MOTORE	VOLANT DU MOTEUR SCHWUNGRAD VOLANTE DEL CIGÜEÑAL	**0.083** TAV.1 II-1995

ITEM	PART NUMBER	QTY	TR. CO.	DESCRIPTION	DESCRIZIONE
01	**76192156**	1	48V	FLYWHEEL - ASS.LY	VOLANO - COMPL.
01A	**76192152**	1	297C	RING GEAR	CORONA DENTATA
02	**75208363**	8	131R	WASHER 12	ROSETTA 12
03	**75208362**	8	40V	SCREW 12X1,25X32	VITE 12X1,25X32
04	**71420339**	1	70F	FLANGE	FLANGIA
05	**45021712**	8	40V	SCREW	VITE
06	**12641031**	8	170R	LOCKWASHER 10X20	ROSETTA ELASTICA 10X20

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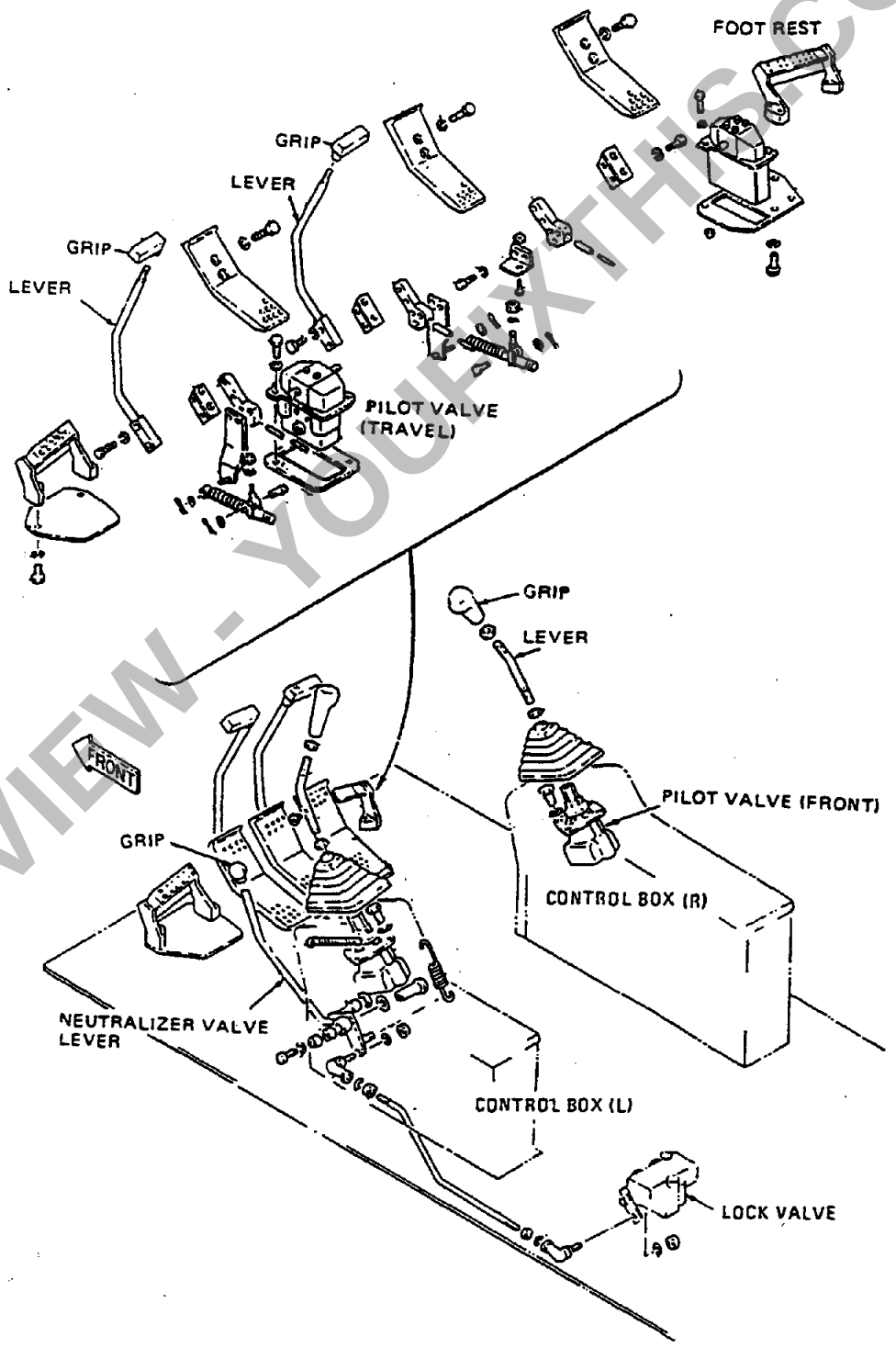
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16. CONTROL LEVER

16.1 CONSTRUCTION

Control lever consists of pilot valve, lever and pedal.

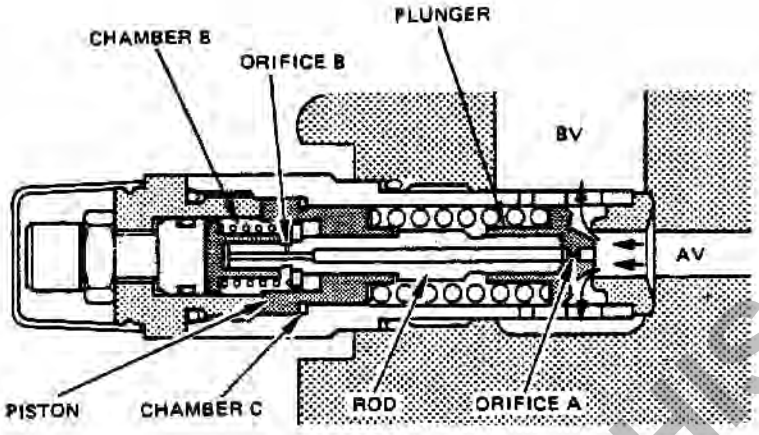
The hydraulic pilot type control lever system can be easily changed to each operation pattern by reconnecting the pilot hoses.

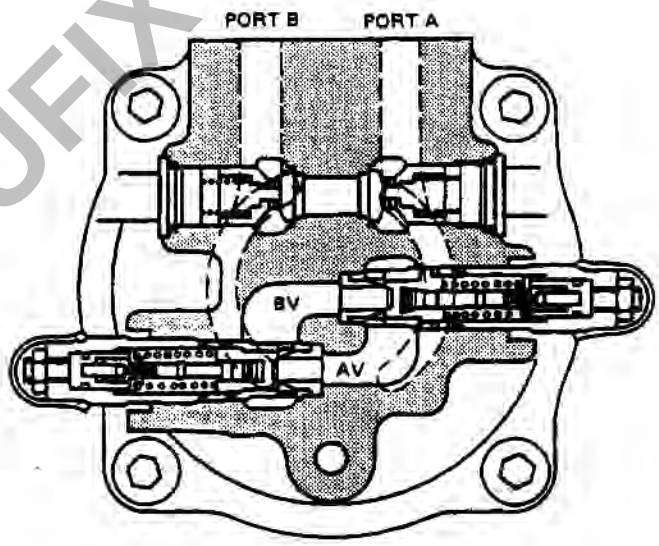


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SWING START MOTION





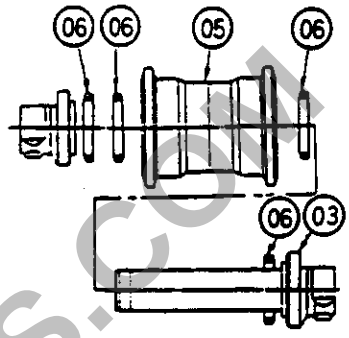
When the swing lever is quickly moved to full stroke, pressure AV increases. This pressure is also applied to chamber B through the orifice A and B and the rod is moved to the left. Then, the piston moves smooth to the right and also pressure oil increases smoothly by the chamber C.

When AV pressure reaches the setting of the relief valve, the plunger moves to the left and pressure oil is crossed over to the return side of the motor (BV). While the superstructure rotating, pressure at AV will drop and the plunger will close.

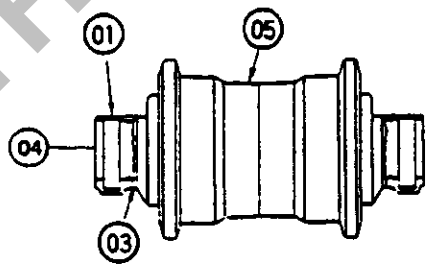
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3 Install seal group (06) into roller (05) and collar (03).
Note: Apply engine oil to matching surface of seal group (06).

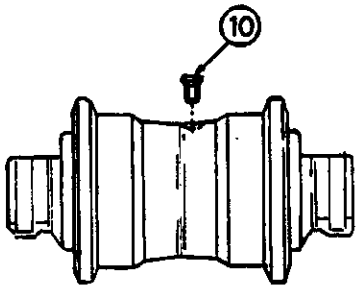


4 Install shaft (04) into roller (05).
Fix another collar (03) to the axle by pin (01).



5 Supply engine oil to the roller through the plug (10), hole.
Install plug (10).
Note: Recommended oil:

SAE	40
Quantity	0.4 kg.



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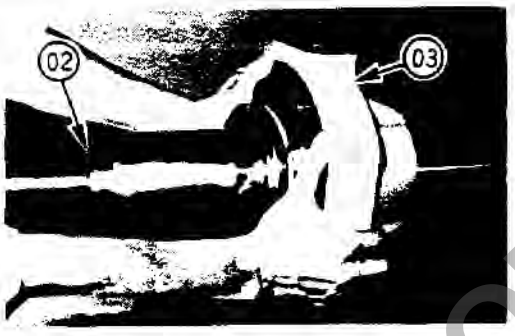
10 Place the rod (02) on the workbench.

Install tool on the rod with taper end toward the thread.

Install head (03) onto the rod.

Tool: 75301131 for arm cylinder

75298698 for position., bucket and boom cylinder



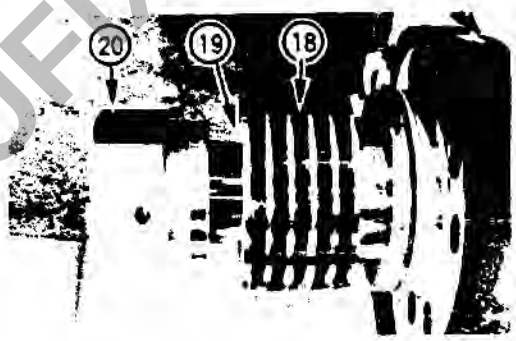
11 Install brake bushing (17) onto the rod with the taper end toward cylinder inside.

Note: the bucket cylinder is without brake bushing (17).

Insert piston (18) onto the rod.



12 Install the shim (19) and piston nut (20) on to the rod.

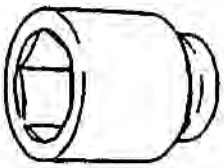


13 Tighten the nut with the tool (workbench 75297916).

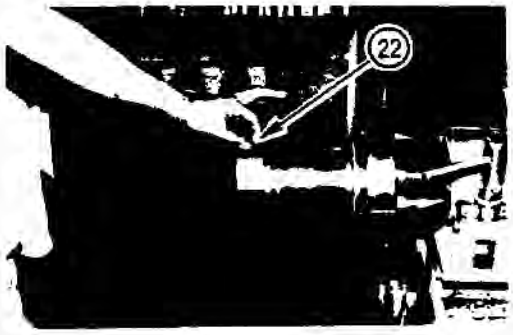
Tool: 75298362 for boom cylinder, bucket and arm cylinder
75298684 for position. cylinder

564 kgf.m - for boom cylinder
1120 kgf.m - for arm cylinder
846 kgf.m - for bucket cylinder
756 kgf.m - for position. cylinder

Tightening torque (dry value).



14 Install the ball (22).



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GENERAL INFORMATION FOR SAFETY

HYDRAULIC EXCAVATOR

This instruction Manual shall be used to obtain the best performance for a correct use and a proper maintenance.
It may be useful even for a very qualified operator.
It should be always part of Your excavator .
Read carefully this instruction manual; the pictures will give You an additional guide to have the best operation and proper checkings of the excavator.
A valid and proper maintenance will improve the performance of Your excavator and ensure years of trouble free use.
Your and other people safety depend on a proper maintenance and use of this excavator.
A careful operator will be always the best guarantee to prevent accident.
However proper the design of any type of machine may be, unexpected situations may arise.
The constructor aim is to improve the machines, the manufacturers reserve the right to modify at any time the technical specifications and therefore they are not responsible for any differences between the specifications and the descriptions contained in this manual.
The safety rules in force are integral part of this manual.

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WALK-AROUND INSPECTION

By taking preventive action on initial manifestation of troubles you will notably reduce maintenance costs and machine downtimes. You should therefore check machine daily, in a walk-around inspection, before moving off to the job.

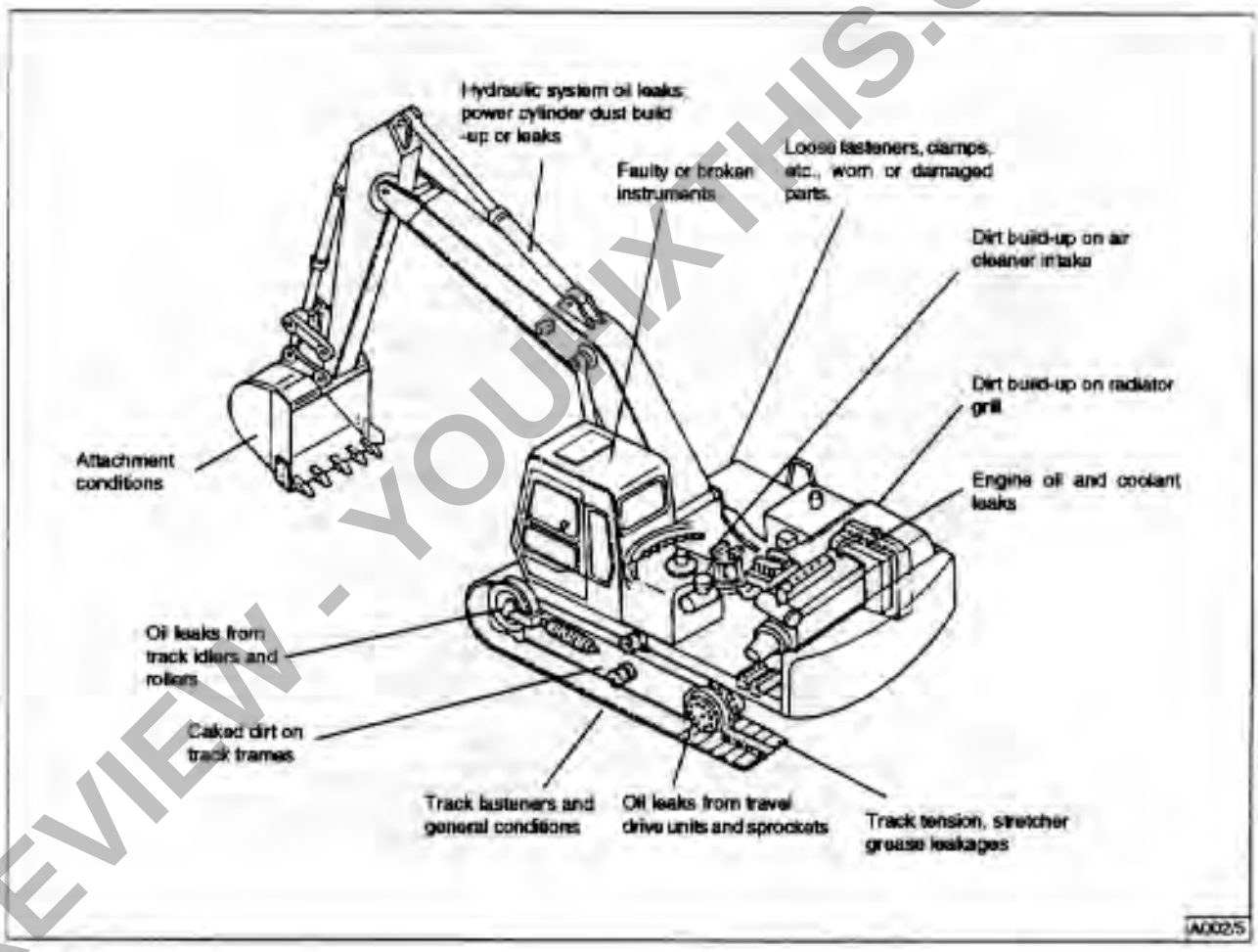


Fig. 61

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ÍNDICE GENERAL

	Págs.
Cómo se maneja el catálogo	26-27
Cómo se encargan las piezas de repuesto	28
Índice alfabético	29
Lista de versiones	30
Lista de variantes	31
Índice de fornituras	32
Índice numérico de las piezas de repuesto	33
Láminas y listas de las piezas de repuesto de la máquina base por orden alfanumérico de subgrupo	
Láminas y listas de las piezas de repuesto de las variantes por orden alfanumérico de subgrupo	
Tablas de las modificaciones	34
Recapitulación de las piezas modificadas	35
Denominaciones adicionales traducidas del inglés o italiano al francés, alemán y español	36
Glosario	37

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RADIATOR RADIATORE	RADIATEUR KUEHLER RADIADOR	**0.003** TAV.1 II-1995

ITEM	PART NUMBER	QTY	TR. CO.	DESCRIPTION	DESCRIZIONE
00	**71482062**	1	25R	RADIATOR - ASS.LY SEE TAV.3	RADIATORE - COMPL. VED. TAV.3
01	**71482060**	2	142T	TIEROD	TIRANTE
03	**11127534**	4	40V	SCREW 16X2X35	VITE 16X2X35
04	**10517274**	8	170R	LOCKWASHER	ROSETTA ELASTICA
05	**13000890**	6	180C	COLLAR	COLLARE
06	**11701721**	2	10D	NUT 10	DADO 10
07	**71482057**	1	285T	HOSE - UPPER	TUBO FLESSIBILE - SUP.
08	**71482058**	1	285T	HOSE - LOWER	TUBO FLESSIBILE - INF.
09	**16264434**	4	40V	SCREW 16X2X50	VITE 16X2X50
10	**154209154**	1	85G	ELBOW	GOMITO
11	**71481061**	1	193T	TUBE	TUBO RIGIDO
12	**71405003**	4	131R	WASHER 17	ROSETTA 17
14	**11106234**	2	40V	SCREW 10X1,5X25	VITE 10X1,5X25
15	**14496731**	2	131R	WASHER 12X24	ROSETTA 12X24

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INJECTION NOZZLE-LINES
TUBAZIONI POMPA-INIETTORI

TUYAUTERIE ET INJECTEURS
LEITUNGEN - DUESENSTOCK
TUBERIAS Y INYECTORES

0.149 TAV.1A

N.T.R. 128 "V-1997" (updating 01)

ITEM	PART NUMBER	QTY	TR. CO.	DESCRIPTION	DESCRIZIONE	MODIF. CO.
01	**76101646**	1	170R	LOCKWASHER	ROSETTA ELASTICA	**D3700**
02	**76192558**	1	40V	SCREW 8X1,25X12	VITE 8X1,25X12	**D3700**
03	**75208924**	6	122G	SEAL	GUARNIZIONE	**D3700**
04	**75208950**	6	20R	FITTING	RACCORDO	**D3700**
05	**76192179**	1	40V	SCREW 8X1,25X16	VITE 8X1,25X16	**D3700**
06	**76191761**	2	122G	SEAL	GUARNIZIONE	**D3700**
07	**76191704**	1	10V	VALVE	VALVOLA	**D3700**
08	**75208947**	6	225S	BRACKET	STAFFA	**D3700**
09	**76192308**	3	225S	BRACKET	STAFFA	**D3700**
10	**76192112**	10	85I	INSULATOR	ISOLANTE	**D3700**
11	**76192454**	12	40V	SCREW 5X0,8X24,5	VITE 5X0,8X24,5	**D3700**
12	**76192570**	1	193T	TUBE	TUBO RIGIDO	**D3700**
13	**76192571**	1	193T	TUBE	TUBO RIGIDO	**D3700**
14	**76192572**	1	193T	TUBE	TUBO RIGIDO	**D3700**
15	**76192564**	2	225S	BRACKET	STAFFA	**D3700**
16	**76192522**	4	40V	SCREW 8X1,25X50	VITE 8X1,25X50	**D3700**
17	**76192566**	1	188C	MANIFOLD	COLLETTORE	**D3700**
18	**76192565**	1	225S	BRACKET	STAFFA	**D3700**
19	**76191931**	2	225S	BRACKET	STAFFA	**D3700**
20	**76192560**	2	225S	BRACKET	STAFFA	**D3700**
21	**76192006**	4	85I	INSULATOR	ISOLANTE	**D3700**
22	**76192568**	1	193T	TUBE	TUBO RIGIDO	**D3700**
23	**76192569**	1	193T	TUBE	TUBO RIGIDO	**D3700**
24	**76192567**	1	193T	TUBE	TUBO RIGIDO	**D3700**

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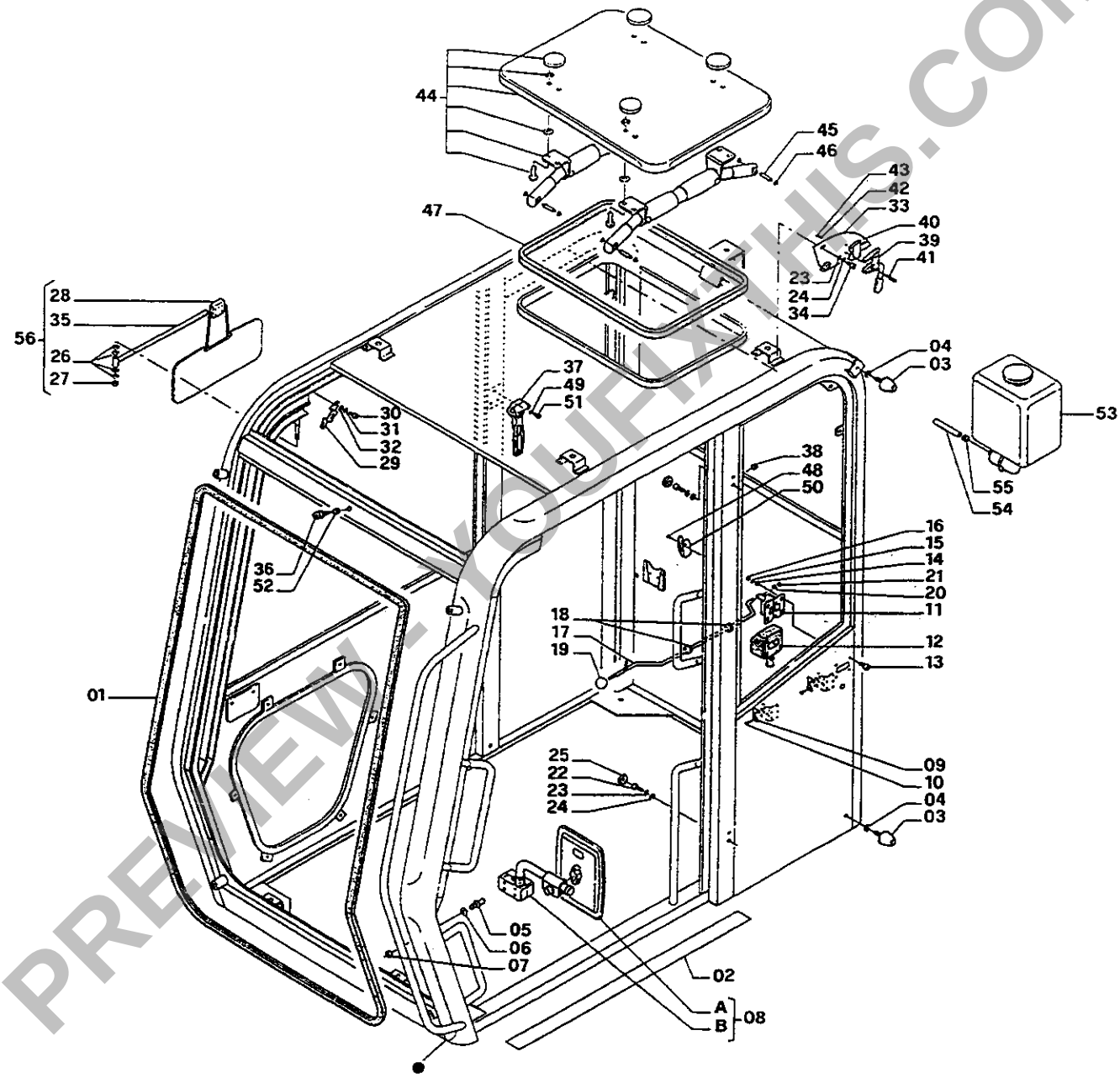
SWING REDUCTION UNIT MOTORIDUTTORE DI ROTAZ.	MOTOREDUCTOR ROTACION UNTERSETZUNGGETRIEBE REDUCTOR DE ROTACION	1.040 TAV.1 II-1995

ITEM	PART NUMBER	QTY	TR. CO.	DESCRIPTION	DESCRIZIONE
0 0-70	**71401642**	1	7482	SWING MOTOREDUCTION - ASS.LY	MOTORIDUTT.ROTAZIONE - COMPL.
00	**71402393**	1	196P	PLANETARY CARRIER	PORTA-SATELLITI
02	**71402522**	2	45A	RING	ANELLO
03	**71402523**	3	80P	PIN	PERNO
06	**71402524**	6	202S	SPRING PIN	SPINA ELASTICA
07	**71402525**	1	50I	GEAR	INGRANAGGIO
09	**71402526**	3	145P	SUN GEAR	PLANETARIO
11	**71402527**	3	341C	BEARING	CUSCINETTO
12	**71402395**	3	145P	SUN GEAR	PLANETARIO
13	**71402529**	12	45A	RING	ANELLO
14	**71402530**	1	187A	SNAP RING	ANELLO ELASTICO
15	**71402531**	1	187A	SNAP RING	ANELLO ELASTICO
16	**71402532**	1	341C	BEARING	CUSCINETTO
17	**71402426**	1	341C	BEARING	CUSCINETTO
22	**71402397**	1	16A	SHAFT	ALBERO
24	**71402499**	12	40V	SCREW	VITE
25	**71402502**	12	170R	LOCKWASHER	ROSETTA ELASTICA
31	**71402042**	8	170R	LOCKWASHER	ROSETTA ELASTICA
32	**71402519**	1	101A	CASING	ASTUCCIO
34	**71402533**	1	122G	SEAL	GUARNIZIONE
37	**71402536**	1	265C	COVER	COPERCHIO
43	**71402537**	1	158G	O-RING	GUARNIZIONE O-R
44	**71401767**	1	91A	DIPSTICK	ASTA LIVELLO
45	**71401756**	1	193T	TUBE	TUBO RIGIDO
47	**71402490**	1	297C	RING GEAR	CORONA DENTATA
50	**71402518**	8	40V	SCREW	VITE
51	**71404212**	1	158G	O-RING	GUARNIZIONE O-R
52	**71402546**	1	50T	PLUG	TAPPO
54	**71401755**	1	150R	COCK	RUBINETTO
56	**71402535**	2	200S	PIN	SPINA
58	**71402348**	1	127M	HYDRAULIC MOTOR - ASS.LY SEE TAV.2	MOTORE IDRAULICO - COMPL. VED. TAV.2
59	**71402538**	1	187A	SNAP RING	ANELLO ELASTICO
60	**71401761**	2	58C	MAGNET	CALAMITA
61	**71401762**	2	40V	SCREW 4X12	VITE 4X12
62	**71401757**	1	50T	PLUG	TAPPO
63	**71402398**	1	196P	PLANETARY CARRIER	PORTA-SATELLITI
64	**71402540**	3	80P	PIN	PERNO
65	**71402399**	1	50I	GEAR	INGRANAGGIO
66	**71402542**	1	297C	RING GEAR	CORONA DENTATA
68	**71402543**	1	158G	O-RING	GUARNIZIONE O-R
69	**71402544**	1	265C	COVER	COPERCHIO
70	**71402400**	1	35S	CASE	SCATOLA
71	**15226134**	12	40V	SCREW 22X70	VITE 22X70
72	**10517574**	12	170R	LOCKWASHER	ROSETTA ELASTICA
73	**71416322**	2	200S	PIN	SPINA

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CAB CABINA 71481234	CABINE FAHRERHAUSE CABINA	1.250 TAV.4	
		N.T.R. 128 "V-1997" (updating 01)	

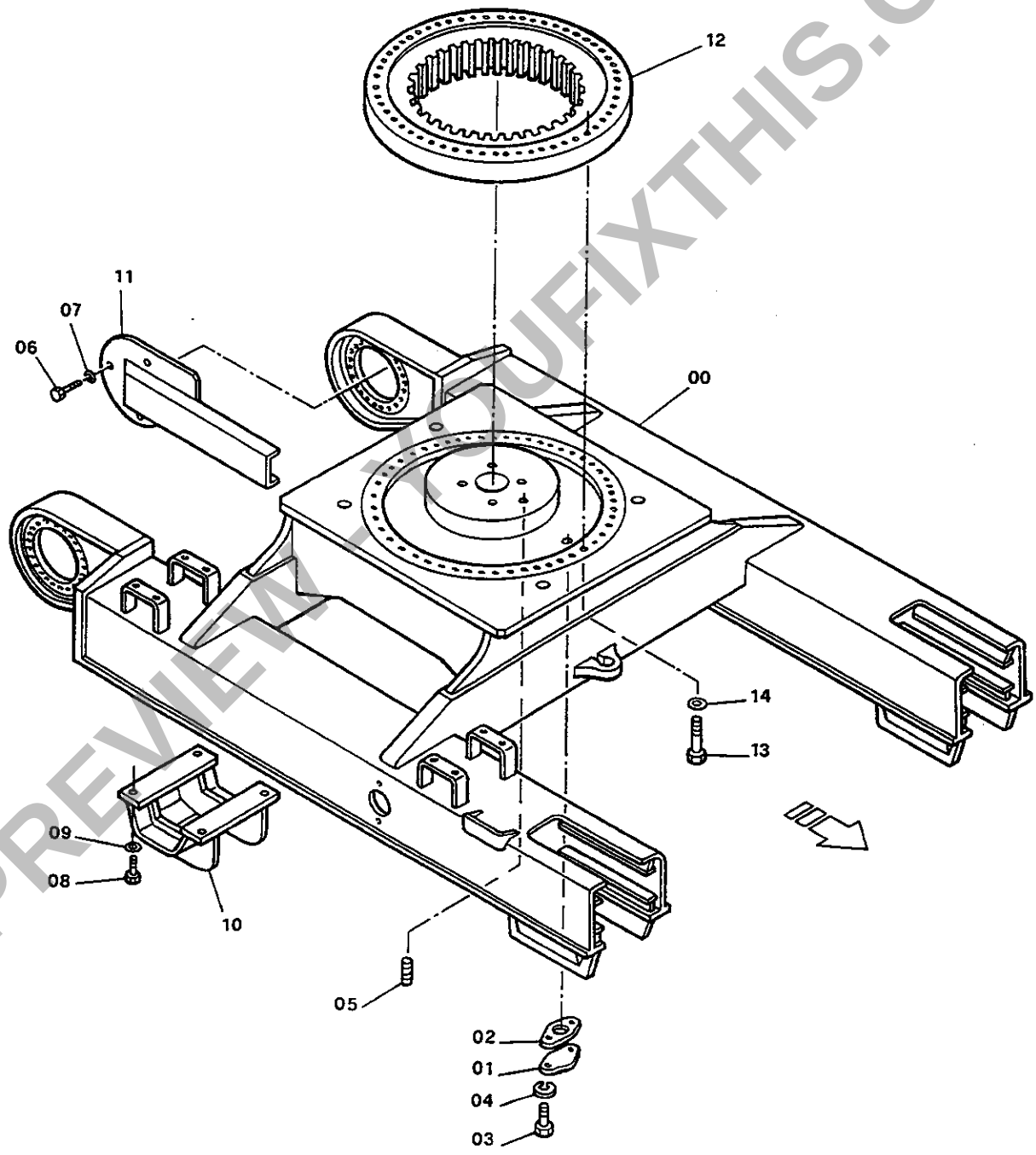


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I PARTICOLARI CONTRASSEGNATI CON • NON VENGONO FORNITI DI RICAMBIO

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WER FRAME AIO INFERIORE	CHASSIS INFERIEUR RAHMEN-UNTER CHASIS INFERIOR	3.000	TAV.1
		II-1995	



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60323002 (01)

ARM/POSIT. SAFETY VALVE VALVOLA ANTICAD. PEN/POS **71421100**	VALVE ANTI-CHUTE BAL/FLEC ARM/GEGENFALLVENTIL VALV.ANTICAIDA BR.TERMIN.	**5.0082** TAV.1 II-1995

ITEM	PART NUMBER	QTY	TR. CO.	DESCRIPTION	DESCRIZIONE
00	**71403033**	2	10V	VALVE	VALVOLA
01	**14423234**	8	40V	SCREW 12X90	VITE 12X90
02	**71404169**	4	158G	O-RING	GUARNIZIONE O-R
03	**71444073**	2	20R	FITTING - ASS.LY	RACCORDO - COMPL.
03A	**71404161**	1	158G	O-RING	GUARNIZIONE O-R
04	**70931640**	2	158G	O-RING	GUARNIZIONE O-R
05	**71404460**	2	158G	O-RING	GUARNIZIONE O-R
06	**70923843**	1	158G	O-RING	GUARNIZIONE O-R
07	**71421112**	1	193T	TUBE	TUBO RIGIDO
08	**71421114**	1	193T	TUBE	TUBO RIGIDO
09	**71403032**	1	10V	VALVE	VALVOLA
10	**14423434**	4	40V	SCREW 12X1,75X100	VITE 12X1,75X100
11	**71417065**	1	75D	SPACER	DISTANZIALE
12	**71421116**	1	193T	TUBE	TUBO RIGIDO
14	**71444313**	1	20R	FITTING - ASS.LY	RACCORDO - COMPL.
14A	**71404165**	1	158G	O-RING	GUARNIZIONE O-R
15	**71444353**	1	285T	HOSE	TUBO FLESSIBILE
16	**71444354**	1	285T	HOSE	TUBO FLESSIBILE
17	**71444105**	1	285T	HOSE	TUBO FLESSIBILE
18	**71444355**	1	285T	HOSE	TUBO FLESSIBILE
19	**71404345**	6	20R	FITTING - ASS.LY	RACCORDO - COMPL.
19A	**71404165**	1	158G	O-RING	GUARNIZIONE O-R
20	**71404675**	2	20R	FITTING - ASS.LY	RACCORDO - COMPL.
20A	**71404165**	1	158G	O-RING	GUARNIZIONE O-R
21	**71404341**	2	20R	FITTING - ASS.LY	RACCORDO - COMPL.
21A	**71404165**	1	158G	O-RING	GUARNIZIONE O-R
22	**71444069**	2	20R	FITTING - ASS.LY	RACCORDO - COMPL.
22A	**71404165**	1	158G	O-RING	GUARNIZIONE O-R
23	**71416892**	2	193T	TUBE	TUBO RIGIDO
24	**4982514**	18	31F	CLAMP	FASCETTA
25	**71444356**	1	285T	HOSE	TUBO FLESSIBILE
26	**71444357**	1	285T	HOSE	TUBO FLESSIBILE
27	**71444358**	1	285T	HOSE	TUBO FLESSIBILE
28	**71415875**	7	142G	SHEATH	GUAINA
29	**71444107**	1	285T	HOSE	TUBO FLESSIBILE
30	**71444071**	1	20R	FITTING - ASS.LY	RACCORDO - COMPL.
30A	**71404166**	1	158G	O-RING	GUARNIZIONE O-R
31	**71444027**	2	50T	PLUG - ASS.LY	TAPPO - COMPL.
31A	**71404166**	1	158G	O-RING	GUARNIZIONE O-R
32	**71417075**	1	265C	COVER	COPERCHIO
33	**11106234**	4	40V	SCREW 10X1,5X25	VITE 10X1,5X25
34	**71416897**	1	265C	COVER	COPERCHIO
35	**71444359**	1	285T	HOSE	TUBO FLESSIBILE
36	**71404391**	1	20R	FITTING - ASS.LY	RACCORDO - COMPL.
36A	**71404161**	1	158G	O-RING	GUARNIZIONE O-R

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INTRODUCTION

1. INTRODUCTION

This service manual is for training new personnel and for reference by experienced service technician.

It works to give you both the general background as a training text and technical details of shop service and field service.

It is concise service guide for specific machine. It covers specifications construction, theory of operation, trouble shooting, removal and installation, disassembly and assembly, maintenance and repair.

Using the service manual as a guide will reduce error and costly delay. It will also assure you the best in finished service work.

All information, illustrations and specifications contained in this technical manual are based on the latest information available at the time of publication.
The right is reserved to make changes at any time without notice.

CARE OF THE HANDLING

2. REVISIONS AND SUPPLEMENTS

This loose-leaf manual can be easily kept up-to-date by inserting or exchanging the revisions and supplements.

The person in charge is responsible for updating the manual as soon as possible. Also, please dispose of the obsolete sheets to avoid confusion.

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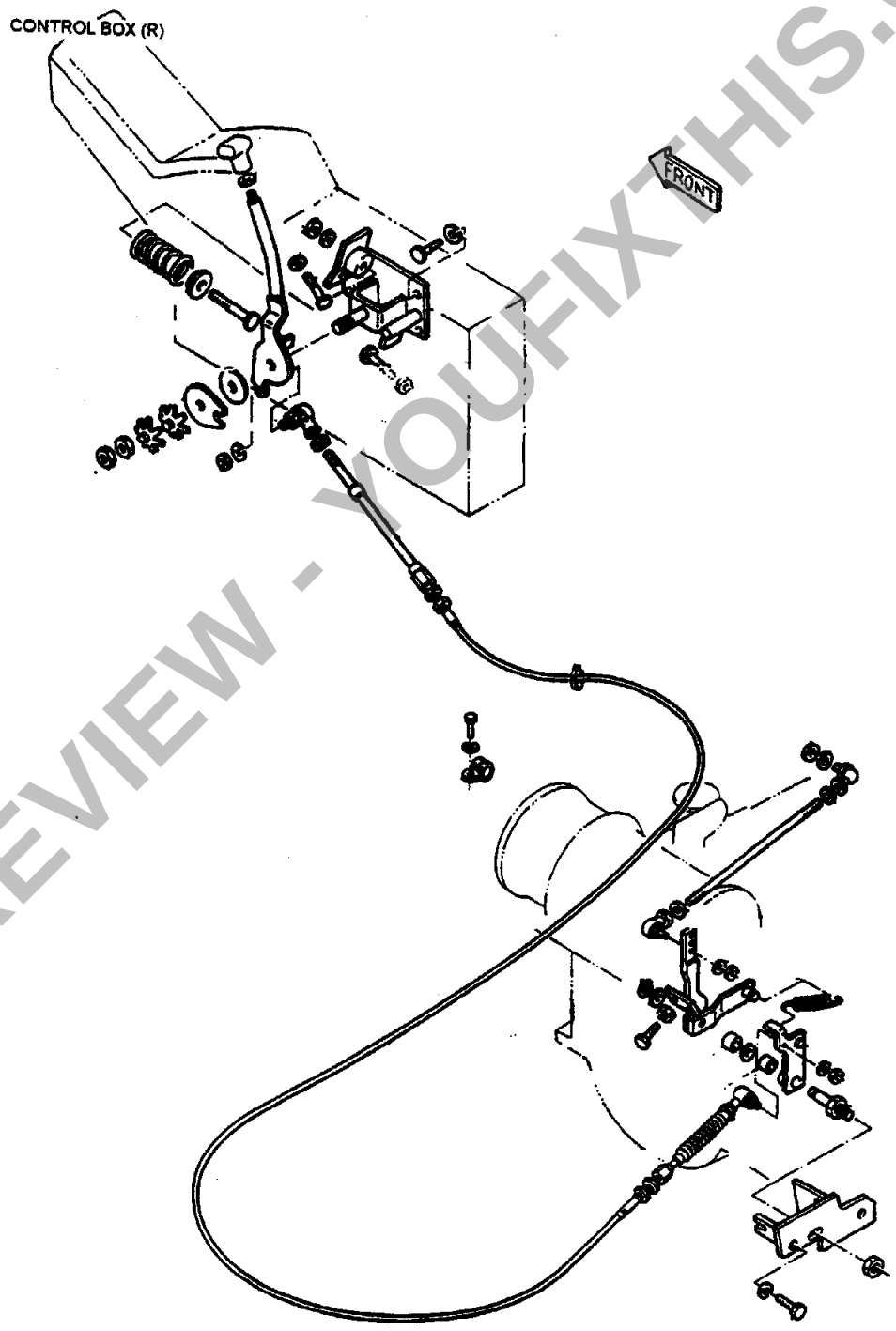
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8. ENGINE CONTROL LEVER

8.1 CONSTRUCTION & FUNCTION

Engine control lever is provided in the operator's control box for controlling the engine.

The engine control lever is connected with a engine fuel lever through a push-pull type cable.



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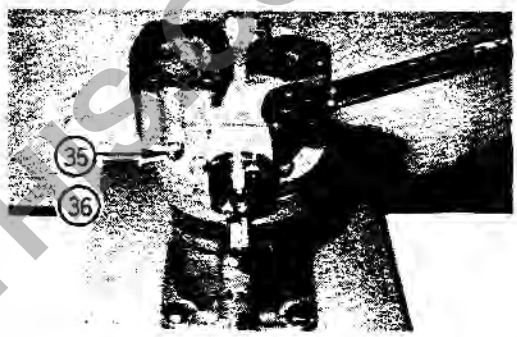
29 Install head cover (31) on casing (01) aligning servo pin with valve hole.

Note: Apply liquid gasket to faying surface of casing.
Place head cover in casing, being careful to align valve in casing, being careful to align valve plate sliding surface properly with guide of head cover and to align spring pin with pin hole.



30 Install 8 washers (36) and socket bolts (35) and tighten evenly.

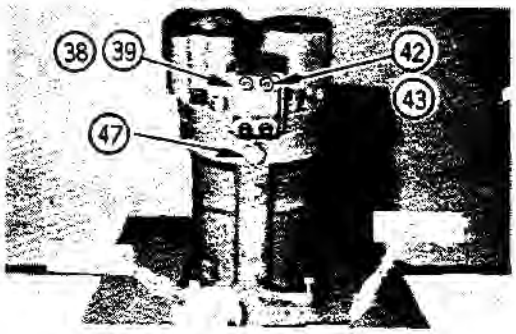
11kgf.m (80ft.lbs)



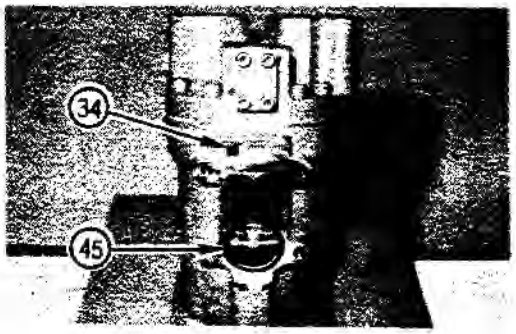
31 Remove tools.
Install Stopper-L(38) with O-ring (39), install and tighten 4 socket bolts (42) and washers (43).
Install plug (47).

2fgf.m (15ft.lbs)

7kgf.m (51ft.lbs)

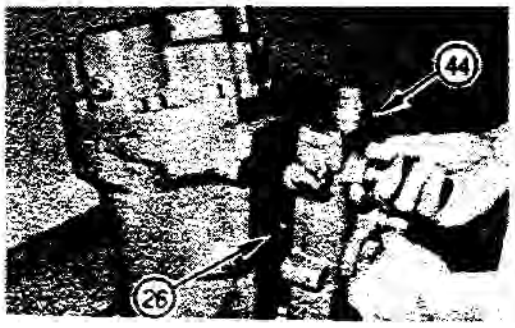


32 Install O-ring (45) and 5 O-rings (34).



33 Install regulator (44) aligning feed back pin (26) with groove of regulator 2 sleeves.

Note: Remove eyebolt and plug of regulator will ease assembling of regulator.



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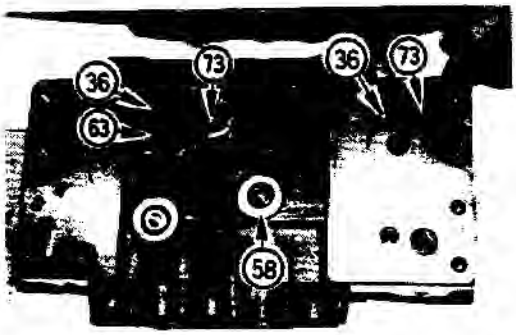
5 Install the poppet (56) into the section D-D.



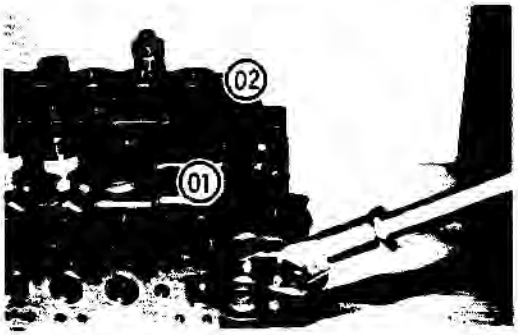
6 Install the spring (57).



7 Install the O-rings (36) (58) (63) (66) (73) into the housing.



8 Install housing (01) to the housing (02). Then tighten the socket bolts (22).
Tightening torque: 17 to 18 kgf.m
(123 to 130 ft.lbs)



9 Install the cap (04) (06) to the housing. Then tighten the socket bolts (20).
Tightening torque: 4 to 4.5 kgf.m
(29 to 32 ft.lbs)



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HV TYPE PILOT VALVE (FOR FRONT)

1. DISASSEMBLY

Note: Before disassembling clean the all parts.

1 Put a pilot valve assembly on a work-bench.



2 Remove a lock nut.



3 Remove a rubber.



4 Remove joint screw (21).

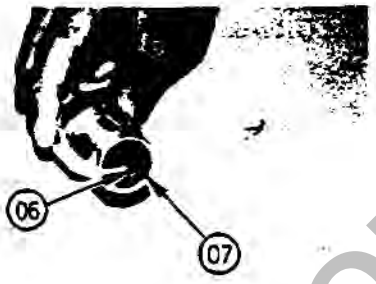


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MODE SELECTION CYLINDER

5 Remove seal (06) and wiper ring (07)



2. ASSEMBLY

Note: Before assembling clean the all parts.



1 Install seal (06) and wiper ring (07).



2 Install piston rod (03) and washer (04).

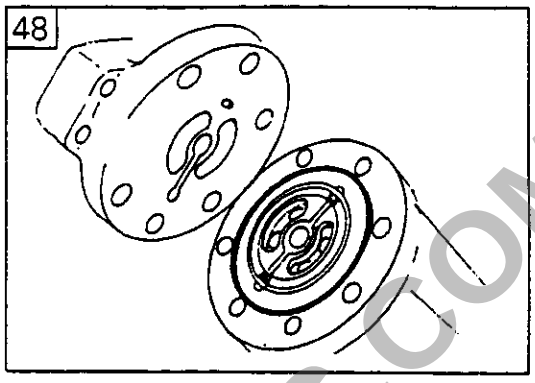


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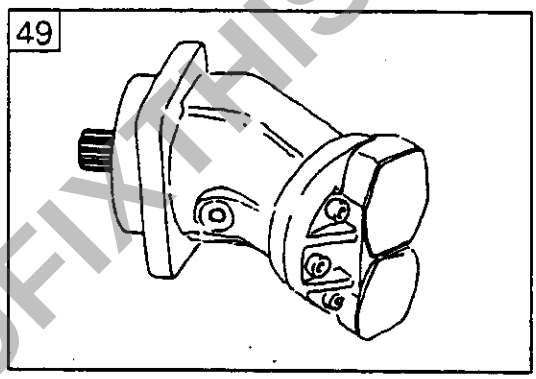
Completely assemble to figs. 18 - 20.

48



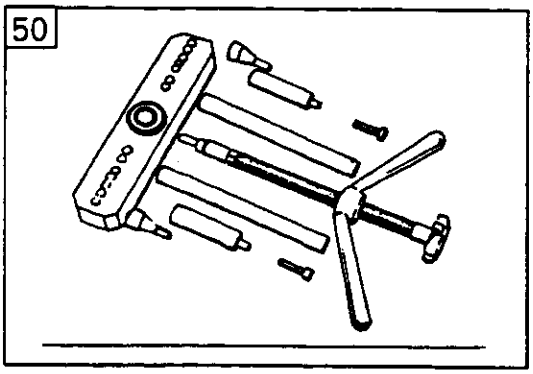
Seal connections to protect against dust.
Corrosion proctection (internal/external).
Assembly completed.

49



Extractor for rotary group (fig. 24).

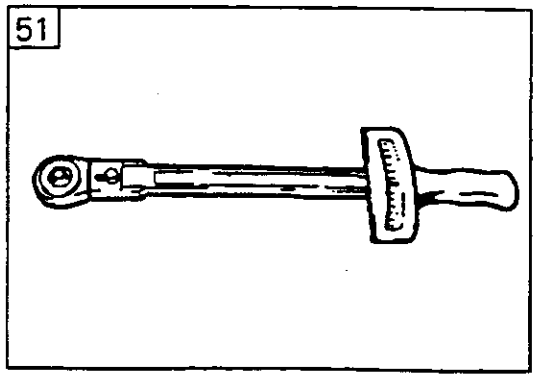
50



Torques

Thread	Torque (Nm)	Size
M 6	9,8	SW 4
M 8	24,0	SW 6
M 10	48,0	SW 8
M 12	84,0	SW 10
M 16	206,0	SW 12

51

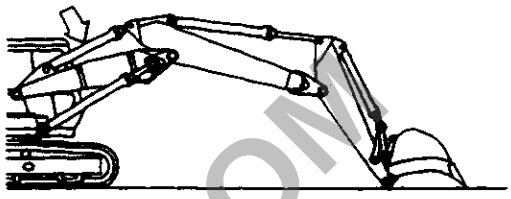


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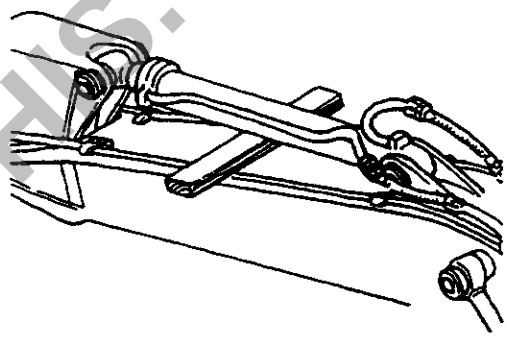
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(7) REMOVAL OF POSITIONING CYLINDER

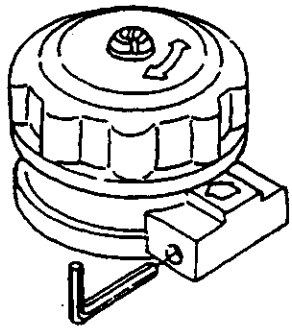
1 Place the unit on level ground.



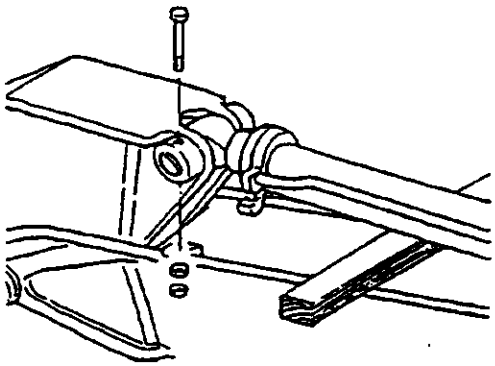
2 Put wooden block under the cylinder.



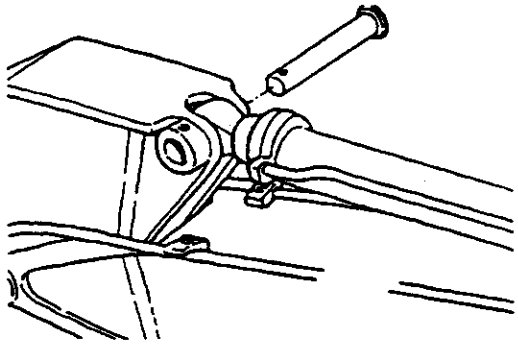
3 Stop the engine, then loosen the air breather cap to release pressure in hydraulic tank.



4 Remove screw and stopper pin.



5 Push out pin with bar and hammer.



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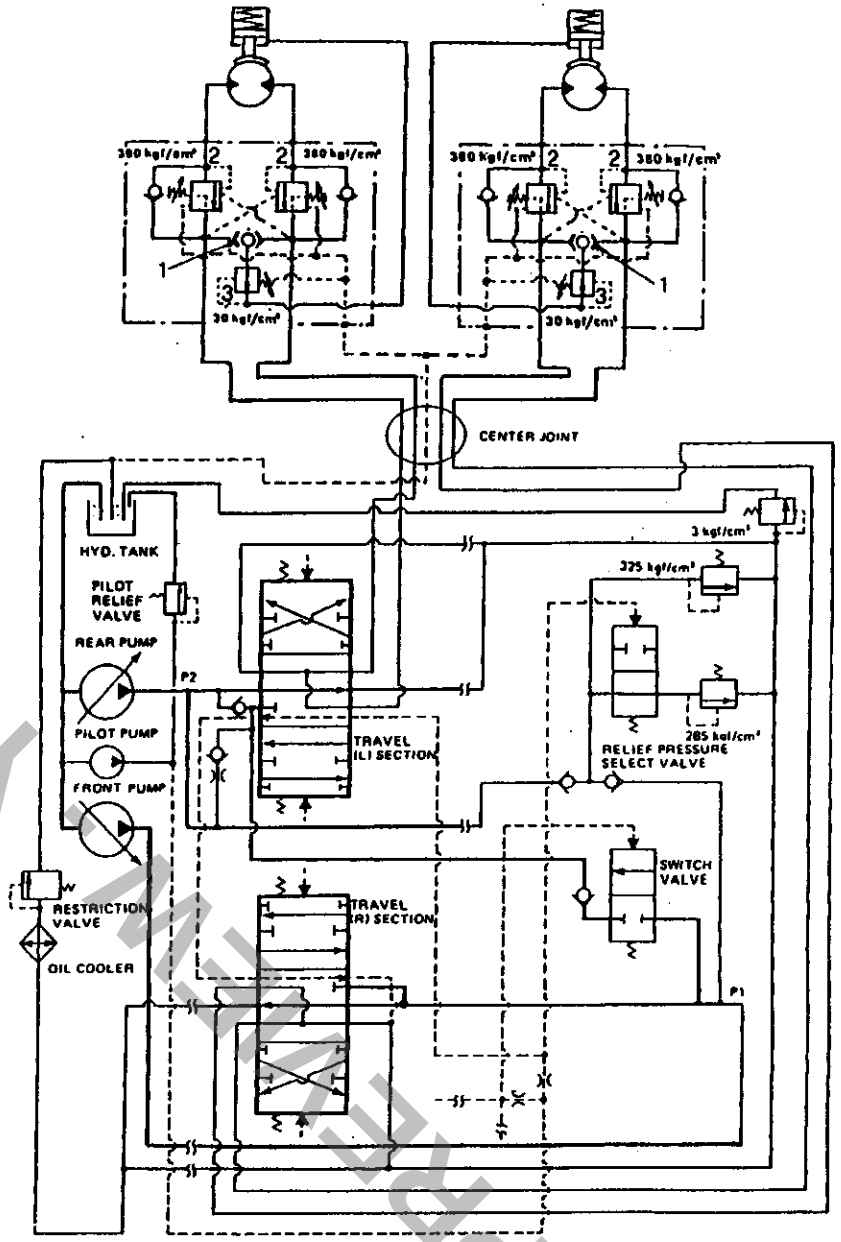
4.8 TRAVEL CIRCUIT OPERATION

OUTLINE

When the Travel levers are manually placed to the Forward or reverse position. Then the oil flows from pilot pump through the pilot valve to travel sections of the control valve. Here, spools position is moved to forward and reverse position. The oil flows from both main pumps through the travel sections of the control valves to the travel motors, and move the machine forward and reverse.

A brake valves are provided on travel motors to offer the following functions:

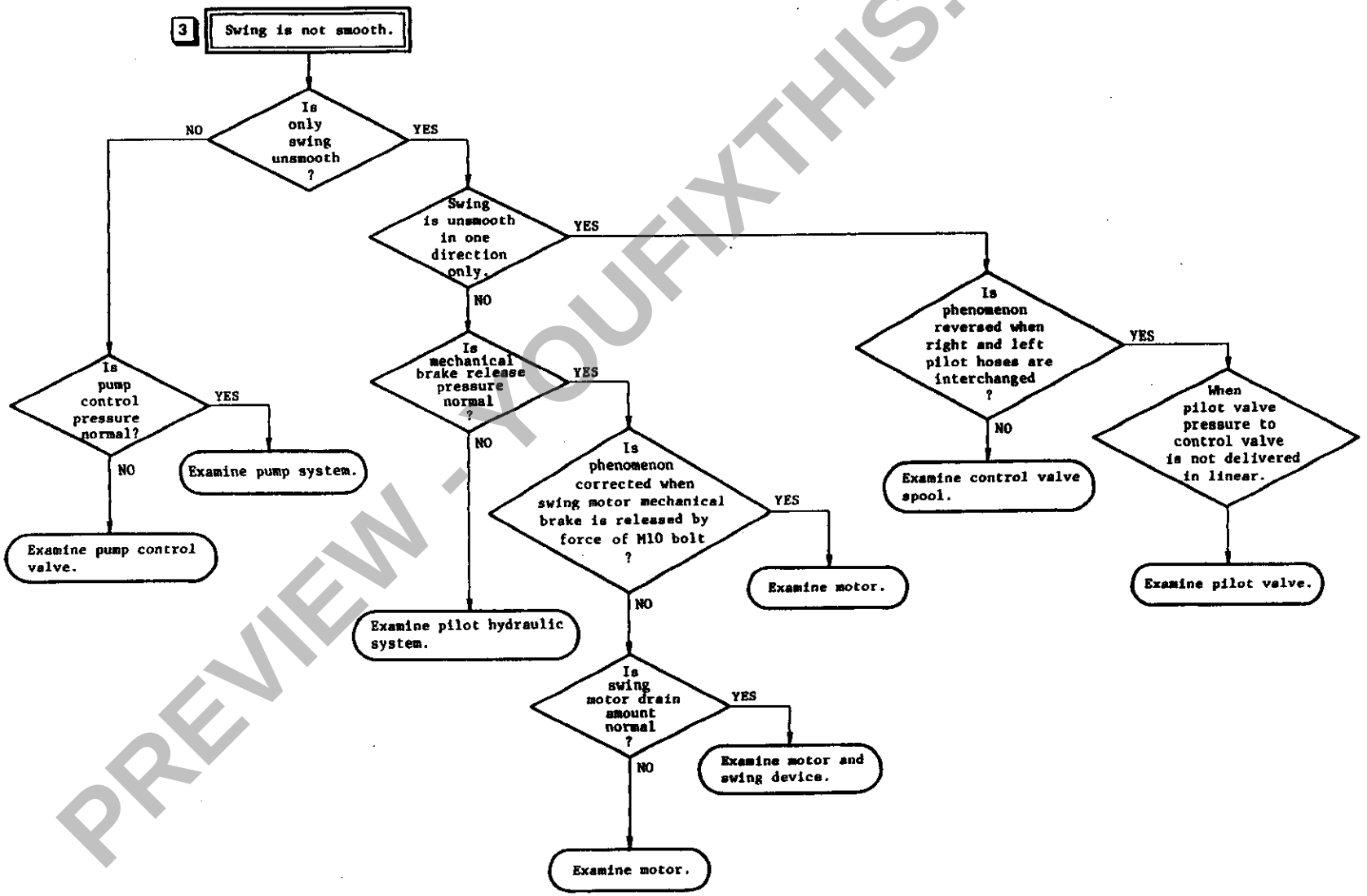
1. SHUTTLE VALVE: allow to control the reducing valve.
2. OVERLOAD/CHECK VALVE: avoid cavitation prevent motor overload. (380 kgf/cm²)
3. REDUCING VALVE: control the parking brake roloase pressure. (30 kgf/cm²)



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1.3 SWING



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