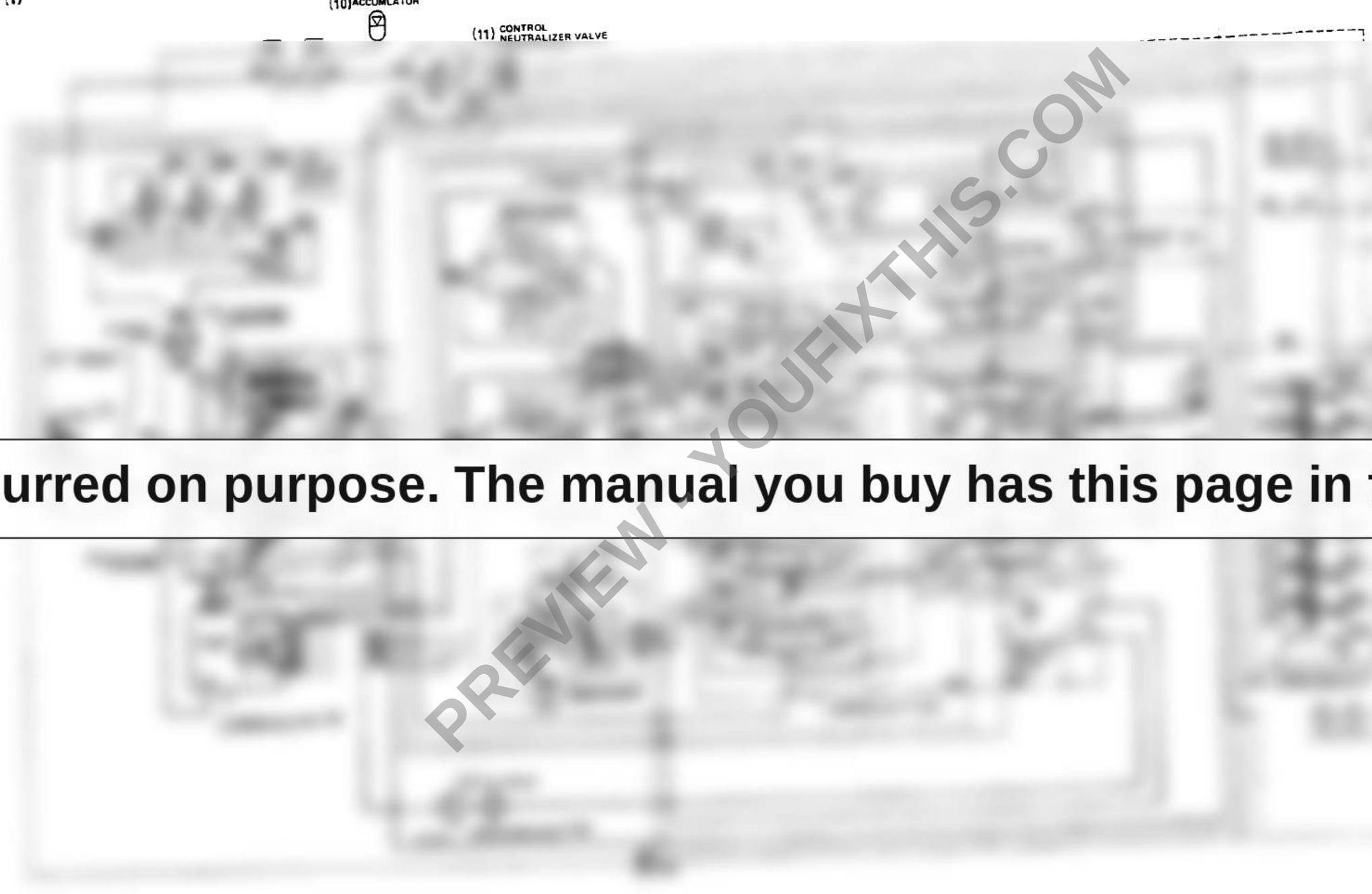
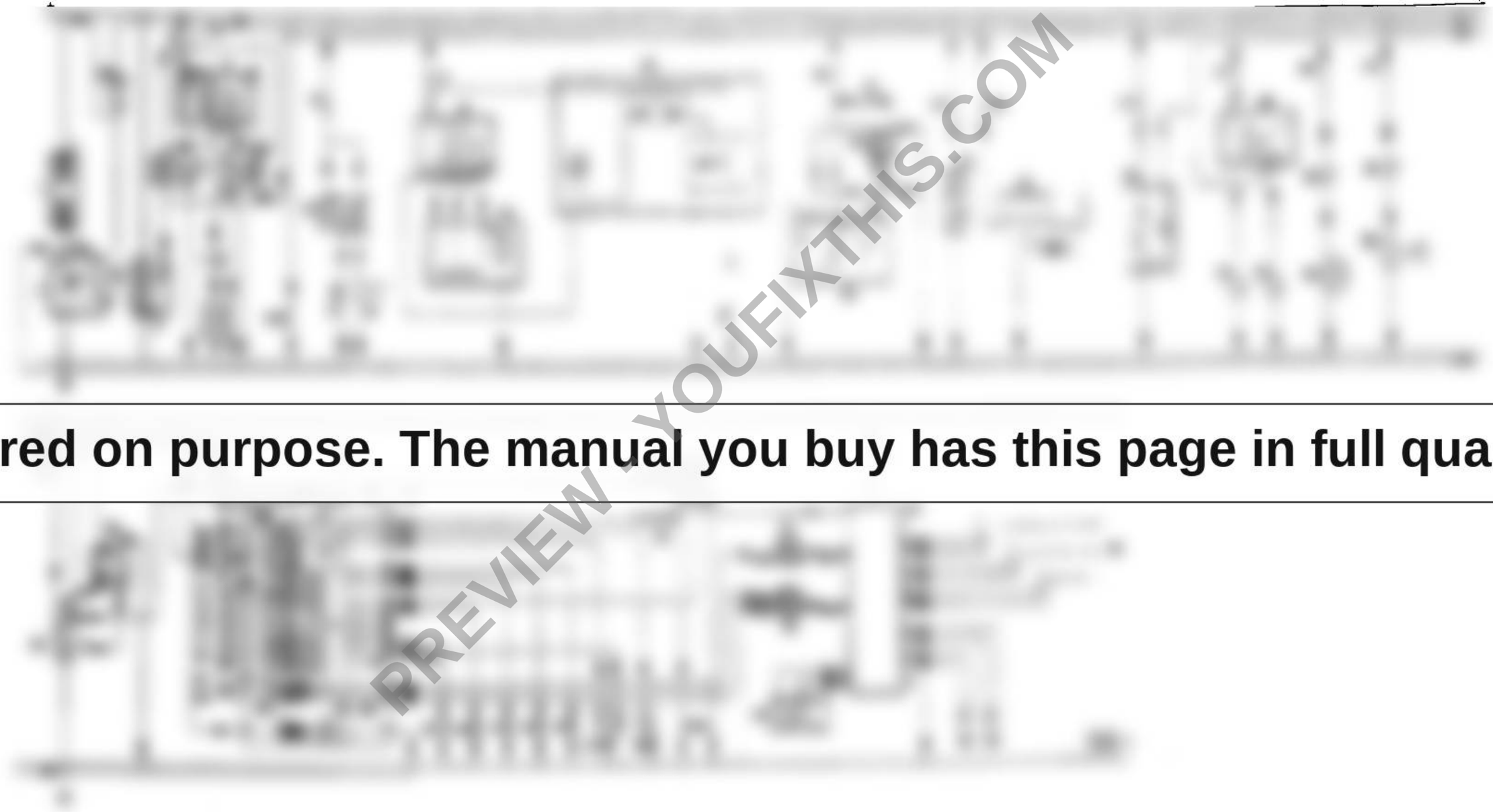
(1) **HYDRAULIC SYSTEM** **Triple articulation**



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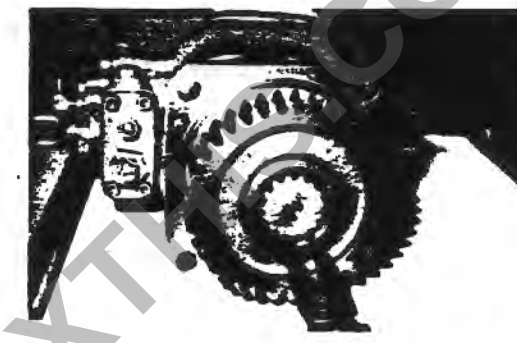
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HYDRAULIC PUMP

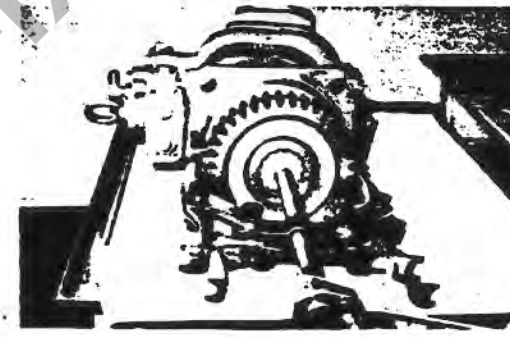
1. DISASSEMBLY

- Clean the outside of regulator.
- Refer to TM-5 for the single pump removal procedure from transmission.

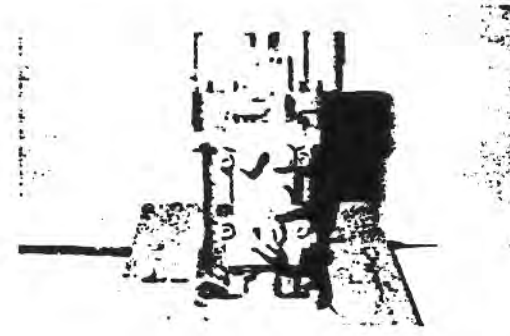
1 Place a pump on the bed as shown. Remove a retaining ring using retaining pliers.



2 Remove a drive gear using 2 jaws puller.



3 Place the pump on the working bench as shown.



4 Loosen 4 socket bolts (50) and washers (51) to remove regulator ass'y.



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ENGINE

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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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BASIC MACHINE OPERATIONS

AVOID EXCESSIVELY HARD DIGGING

Do not travel the machine with the bucket thrust into the ground or dig by using the machine's weight. These operations apply excessive stresses on the machine.

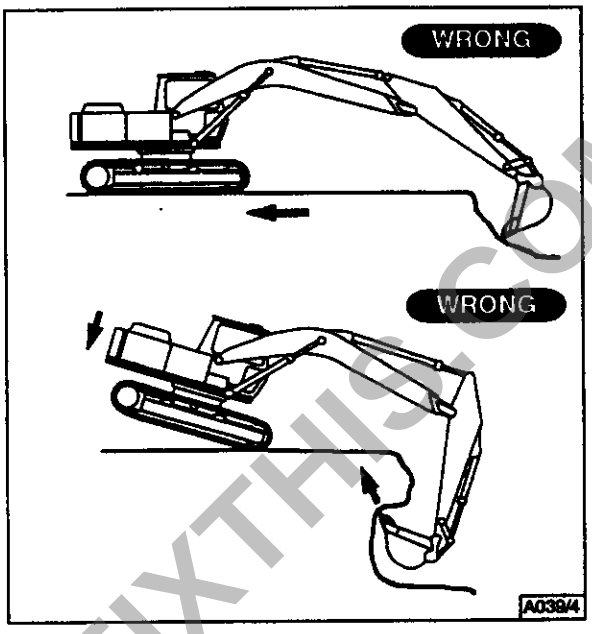


Fig. 50

AVOID HAMMERING WORK

Do not use the bucket as a hammer or pile driver. Such operation will damage the bucket and other front attachment parts.

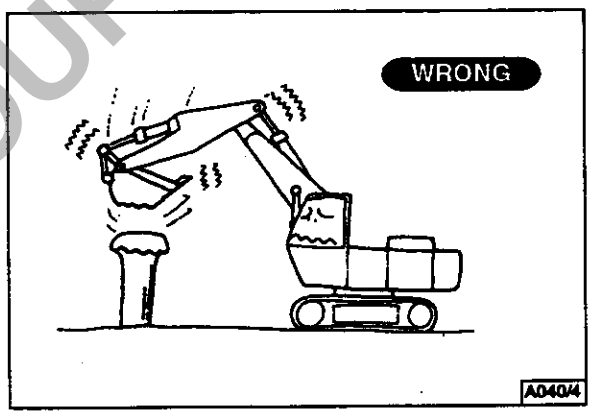


Fig. 51

SELECT CORRECT SHOES

Never use a wide shoe and marsh type shoe for rough ground (which involve rocks, sand and gravel, pebbles, etc.), as they are designed for soft and weak ground. Using these shoes on rough ground will cause bending and loosening of the shoes, and may damage other undercarriage components (links and rollers).

AVOID USE OTHER THAN SPECIFIED

The performance of the machine is defined in the manufacturer's specifications. Never use the machine for works outside the specifications.

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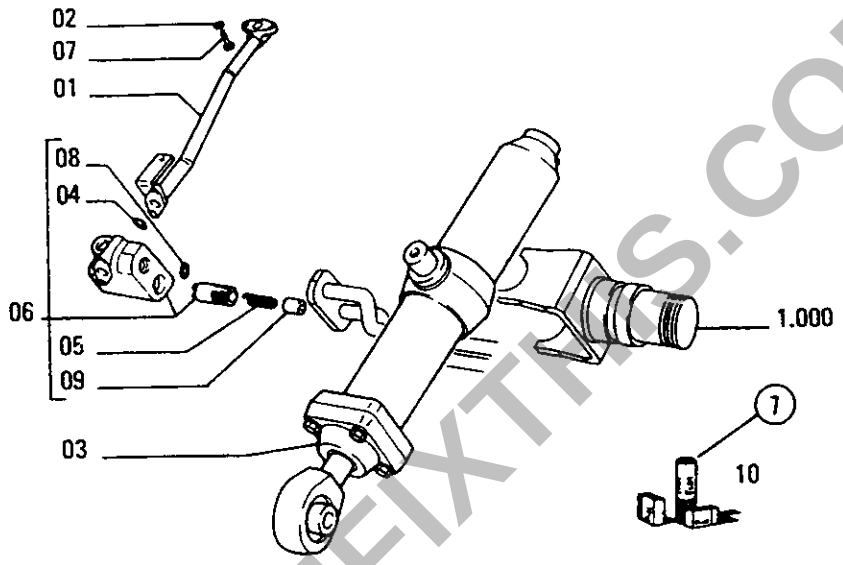
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6
01-02

1 2

LIFT CYLINDER (RIGHT) CILINDRO SOLLEV. (DESTRO) **71405788**	VERIN DE RELEVAGE(DROIT) HUBZYLINDER (RECHTS) GATO ELEVACION (DERECHO)
2.030 TAV.2	
4 N.T.R. 63 - 23-2-81 3	

8 5



LIFT CYLINDER (RIGHT) CILINDRO SOLLEV. (DESTRO) **71405788**	VERIN DE RELEVAGE(DROIT) HUBZYLINDER (RECHTS) GATO ELEVACION (DERECHO)
2.030 TAV.2	
N.T.R. 63 - 23-2-81	

ITEM	PART NUMBER	QTY	TR. CO.	DESCRIPTION (13) DESCRIZIONE
9 01	**4318965**	1	193T	TUBE -RIGHT — TUBO RIGIDO -DEST.
	4513436	1	193T	TUBE -RIGHT — TUBO RIGIDO -DEST.
10	**4606783**	1	193T	TUBE -LEFT (16) — TUBO RIGIDO -SIN.
				(14) **C951** UP TO S/N 004652 — **C951** FINO AL TELAIO 004652
				4606783=79021573 (18)
11	**79021573**	1	193T	TUBE -LEFT — TUBO RIGIDO -SIN.
				D951 FROM S/N 004653 — **D951** DAL TELAIO 004653
02	**12638601**	2	131R	WASHER — ROSETTA
03	**4606786**	1	164C	CYLINDER -ASS.Y RIGHT — CILINDRO -COMPL. DEST.
				SEE TAV.3 — VED. TAV.3
12	**4606787**	1	164C	CYLINDER -ASS.Y LEFT — CILINDRO -COMPL. SIN.
				C951 UP TO S/N 004652 (19) — **C951** FINO AL TELAIO 004652
				(15) 4606787=79021574+79021576
	79021574	1	164C	CYLINDER -ASS.Y LEFT — CILINDRO -COMPL. SIN.
				D951 FROM S/N 004653 — **D951** DAL TELAIO 004653
04	**4606788**	1	158G	O-RING -WRONG — GUARNIZIONE O-R -ERRATA
	4606789	1	158G	O-RING -CORRECT (21) — GUARNIZIONE O-R -CORRIGE
05	**4606790**	1	100M	SPRING — MOLLA
06	**4606791**	1	10V	VALVE -ASS.Y RIGHT — VALVOLA -COMPL. DEST.
	4606792	1	10V	VALVE -ASS.Y LEFT (20) — VALVOLA -COMPL. SIN.
				C951 UP TO S/N 004652 — **C951** FINO AL TELAIO 004652
				4606792=79021576-4606794
	79021576	1	10V	VALVE -ASS.Y LEFT (17) — VALVOLA -COMPL. SIN.
				D951 FROM S/N 004653 — **D951** DAL TELAIO 004653
07	**11307021**	2	40V	SCREW 8X1X20 — VITE 8X1X20
08	**14453381**	1	158G	O-RING (22) — GUARNIZIONE O-R
09	**4606795**	1	50T	PLUG — TAPPO
10	**79021577**		1K	KIT.-SEE PAG.32 — KIT-VED. PAG.32

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MODIFICATIONS SUMMARY - RIEPILOGO DELLE MODIFICHE
RECAPITULATIF DES MODIFICATIONS - TABELLEN DER AENDERUNGEN
TABLAS DE LAS MODIFICACIONES

MODIF.	SGR.	TAV.	ITEM	PART NUMBER	EFFECTIVENESS - ATTUAZIONI REPLACEMENTS - SOSTITUZIONI	
3703	1.010	3	03	75208953	FROM S/N-DAL TEL.	129
	1.010	3	04	76191746	FROM S/N-DAL TEL.	129
	1.010	3	05	76191501	FROM S/N-DAL TEL.	129
	1.010	3	06	76192459	FROM S/N-DAL TEL.	129
	1.010	3	07	76192531	FROM S/N-DAL TEL.	129
	1.010	3	08	76192532	FROM S/N-DAL TEL.	129
	1.010	3	09	76192533	FROM S/N-DAL TEL.	129
	1.010	3	10	76192534	FROM S/N-DAL TEL.	129
	1.010	3	11	76192535	FROM S/N-DAL TEL.	129
	1.010	3	12	76192536	FROM S/N-DAL TEL.	129
	1.010	3	13	76192537	FROM S/N-DAL TEL.	129
	1.220	1A	01	15896221	FROM S/N-DAL TEL.	129
	1.220	1A	02	71451345	FROM S/N-DAL TEL.	129
	1.220	1A	03	10902234	FROM S/N-DAL TEL.	129
	1.220	1A	04	14496421	FROM S/N-DAL TEL.	129
	1.220	1A	05	10571574	FROM S/N-DAL TEL.	129
	1.220	1A	06	71451135	FROM S/N-DAL TEL.	129
3704	1.300	1	18	71481036	UP TO S/N-FINO AL TEL.	131
	1.300	1	21	71481183	UP TO S/N-FINO AL TEL.	131
	1.300	1	34	71420575	UP TO S/N-FINO AL TEL.	131
	1.300	1	61	71405545	UP TO S/N-FINO AL TEL.	131
	1.300	1A	01	71481231	FROM S/N-DAL TEL.	132
	1.300	1A	02	71481249	FROM S/N-DAL TEL.	132
	1.300	1A	03	71481247	FROM S/N-DAL TEL.	132
	1.300	1A	04	71420545	FROM S/N-DAL TEL.	132
	1.300	1A	05	71481274	FROM S/N-DAL TEL.	132
	1.300	1A	06	71481275	FROM S/N-DAL TEL.	132
	1.300	1A	07	71419836	FROM S/N-DAL TEL.	132
	1.300	1A	08	71481277	FROM S/N-DAL TEL.	132
	1.300	1A	09	11112634	FROM S/N-DAL TEL.	132
	1.300	1A	10	11112434	FROM S/N-DAL TEL.	132
	1.300	1A	11	10517074	FROM S/N-DAL TEL.	132
	1.300	1A	12	14496731	FROM S/N-DAL TEL.	132
	1.300	1A	13	11112234	FROM S/N-DAL TEL.	132
	1.300	1A	14	11702921	FROM S/N-DAL TEL.	132
	1.300	2	00	71481033	UP TO S/N-FINO AL TEL.	131
	1.300	2	00	71481265	FROM S/N-DAL TEL.	132
	4.500	1	00	71408349	UP TO S/N-FINO AL TEL.	131
	4.500	1	02	71481146	UP TO S/N-FINO AL TEL.	131
	4.500	1	03	71406073	UP TO S/N-FINO AL TEL.	131
	4.500	1	04	71406074	UP TO S/N-FINO AL TEL.	131
	4.500	1	05	71406009	UP TO S/N-FINO AL TEL.	131
	4.500	1	06	71406075	UP TO S/N-FINO AL TEL.	131
	4.500	1	07	13683701	UP TO S/N-FINO AL TEL.	131
	4.500	1	08	71416634	UP TO S/N-FINO AL TEL.	131
	4.500	1	09	71480166	UP TO S/N-FINO AL TEL.	131
	4.500	1	10	71480167	UP TO S/N-FINO AL TEL.	131
	4.500	1	11	159507038	UP TO S/N-FINO AL TEL.	131
	4.500	1	12	71309807	UP TO S/N-FINO AL TEL.	131
	4.500	1	14	79060540	UP TO S/N-FINO AL TEL.	131
	4.500	1	17	71416617	UP TO S/N-FINO AL TEL.	131
	4.500	1	18	71416618	UP TO S/N-FINO AL TEL.	131
	4.500	1	19	71416619	UP TO S/N-FINO AL TEL.	131
	4.500	1	20	71416620	UP TO S/N-FINO AL TEL.	131
	4.500	1	21	71416221	UP TO S/N-FINO AL TEL.	131
	4.500	1	24	71406021	UP TO S/N-FINO AL TEL.	131
	4.500	1	25	71406076	UP TO S/N-FINO AL TEL.	131
	4.500	1	26	71480164	UP TO S/N-FINO AL TEL.	131
	4.500	1	27	71481130	UP TO S/N-FINO AL TEL.	131

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CRANKSHAFT ALBERO MOTORE	VILEBREQUIN KURBELWELLE CIGÜEÑAL	0.080 TAV.1 II-1995

ITEM	PART NUMBER	QTY	TR. CO.	DESCRIPTION	DESCRIZIONE
01	**76192085**	1	18A	CRANKSHAFT - ASS.LY	ALBERO MOTORE - COMPL.
01A	**76192018**	1	50I	GEAR	INGRANAGGIO
01B	**75208356**	1	90G	DOWEL	GRANO
02	**76192128**	1	K19A	KIT-CYL.BLOCK BEARINGS(-0,000)	KIT-SEMICUSC.DI BANCO (-0,000)
	76192129	1	K19B	KIT-CYL.BLOCK BEARINGS(-0,25)	KIT-SEMICUSC.DI BANCO (-0,25)
	76192130	1	K19C	KIT-CYL.BLOCK BEARINGS(-0,50)	KIT-SEMICUSC.DI BANCO (-0,50)
	76192131	1	K19D	KIT-CYL.BLOCK BEARINGS(-0,75)	KIT-SEMICUSC.DI BANCO (-0,75)
	76192132	1	K19E	KIT-CYL.BLOCK BEARINGS(-1,00)	KIT-SEMICUSC.DI BANCO (-1,00)
03	**76191859**	1	K15C	KIT-CRANK.THRUST RINGS(+0,5)	KIT-ANELLI SPALLAM. (+0,5)
	76191860	1	K15D	KIT-CRANK.THRUST RINGS(+1,0)	KIT-ANELLI SPALLAM. (+1,0)
04	**75286656**	1	95B	BUSHING - REAR	BOCCOLA - POST.
05	**76191954**	1	95B	BUSHING - FRONT	BOCCOLA - ANT.

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ALTERNATOR-MOUNTING ALTERNATORE-FISSAGGIO	ATTAQUES ALTERNATEUR DREHSTROMLICHTMASCHINE SOPORTES DE ALTERNADOR	0.400 TAV.2 N.T.R. 129 *IX-1997* (updating 01)

ITEM	PART NUMBER	QTY	TR. CO.	DESCRIPTION	DESCRIZIONE	MODIF. CO.
01	**76192029**	1	300S	SUPPORT	SUPPORTO	**C3703**
	153649161	1	300S	SUPPORT	SUPPORTO	**D3703**
02	**75208953**	3	40V	SCREW 8X1,25X25	VITE 8X1,25X25	
03	**76191752**	1	95B	BUSHING	BOCCOLA	
04	**76191963**	1	40V	SCREW 10X1,5X95	VITE 10X1,5X95	
05	**76191907**	1	231S	CLIP	STAFFETTA	
06	**75208153**	2	40V	SCREW 8X1,25X20	VITE 8X1,25X20	
07	**76191628**	1	230P	PULLEY	PULEGGIA	
08	**76191629**	1	95B	BUSHING	BOCCOLA	

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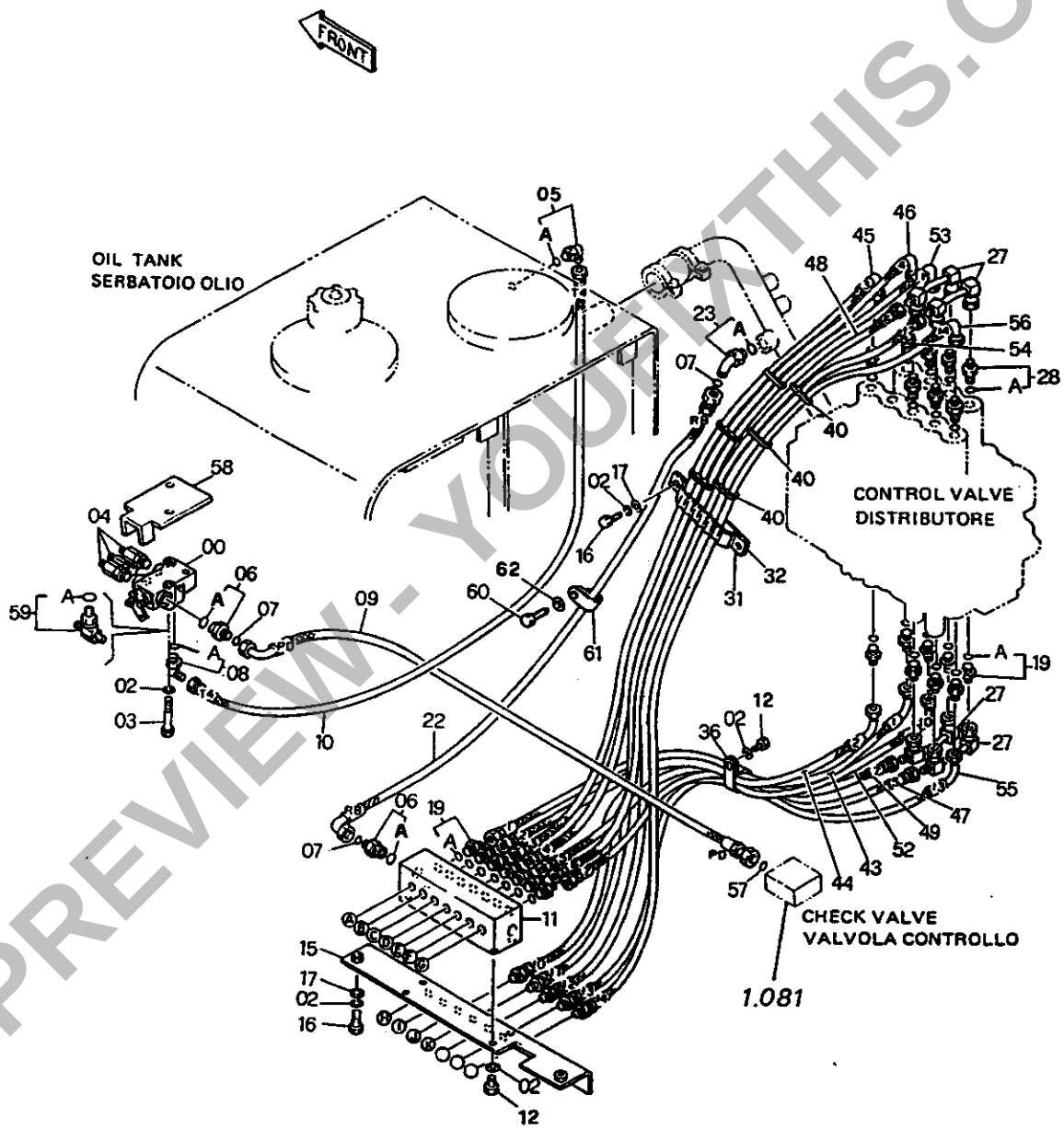
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PILOT PIPING (3)
TUBAZIONI SERVOCOMANDI(3)

TUYAUT. SERVOCOMMANDES(3)
LEITUNGEN-SERVOSTEU. (3)
TUBERIAS SERVOMANDOS (3)

1.082 TAV.1

II-1995



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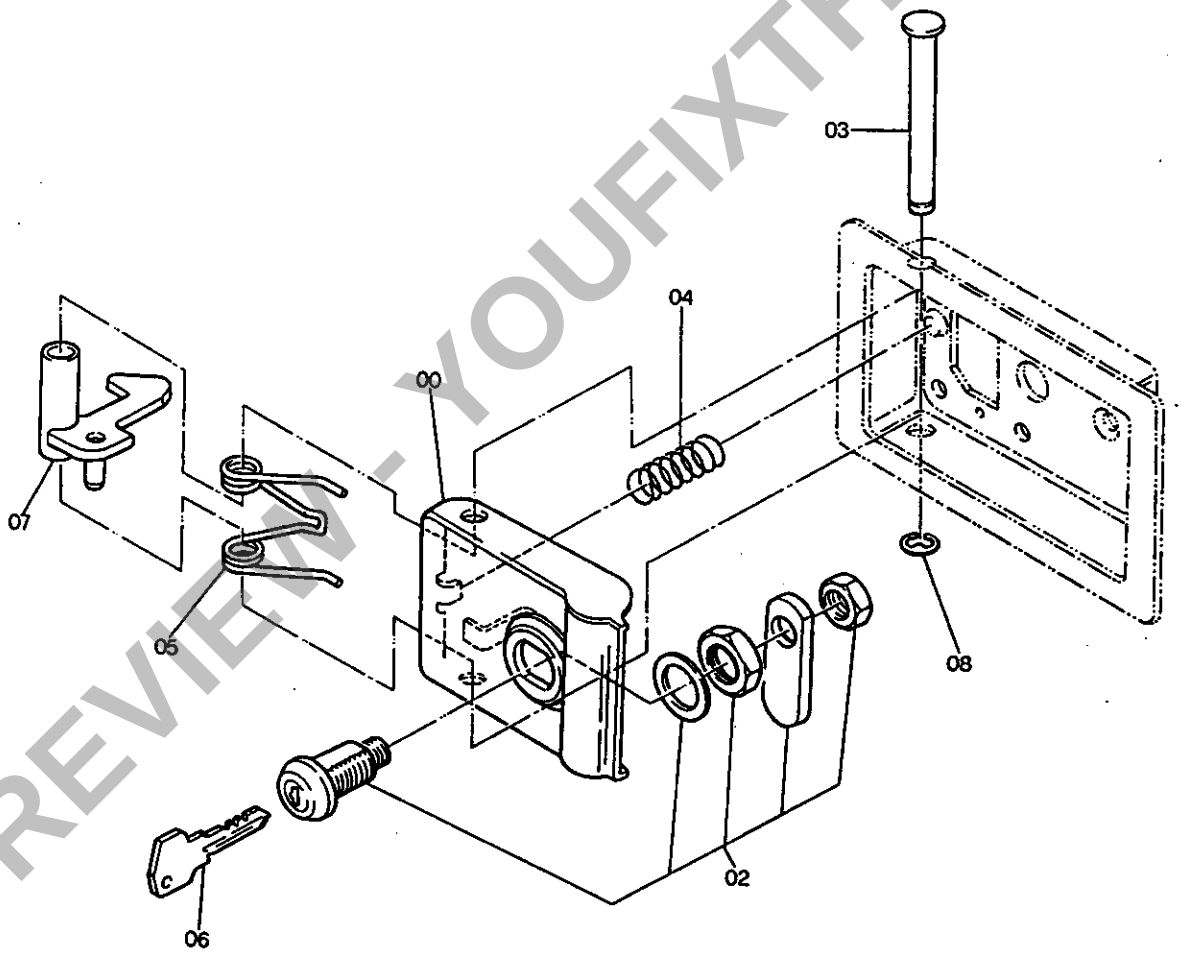
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HANDLE-COMPONENTS
MANIGLIA-COMPONENTI
71405595

MANILLE-COMPOSANTS
GRIFF-EINZELTEILE
MANIJA-COMPONENTES

1.300 TAV.4

II-1995



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TRAVEL PIPING (LOWER)
TUBAZIONI TRASLAZ.(INF.)

TUYAUTERIES INFERIEURES
LEITUNGEN-UNTER
TUBERIAS INFERIORES

3.071 TAV.1A

N.T.R. 129 "IX-1997" (updating 01)

ITEM	PART NUMBER	QTY	TR. CO.	DESCRIPTION	DESCRIZIONE	MODIF. CO.
01	**71481300**	2	285T	HOSE	TUBO FLESSIBILE	**D3705**
02	**71481294**	1	193T	TUBE	TUBO RIGIDO	**D3705**
03	**154219703**	2	20R	FITTING	RACCORDO	**D3705**
04	**71481301**	2	285T	HOSE	TUBO FLESSIBILE	**D3705**
05	**71481290**	1	193T	TUBE	TUBO RIGIDO	**D3705**
06	**154222712**	2	20R	FITTING	RACCORDO	**D3705**
07	**71481296**	1	193T	TUBE	TUBO RIGIDO	**D3705**
08	**71481298**	1	193T	TUBE	TUBO RIGIDO	**D3705**

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TOOL KIT
ACCESSORI MANUTENZIONE
71405996

ACCESSOIRES D'ENTRETIEN
BORDWERKZEUGE
HERRAMIENTAS

5.0083 TAV.1

II-1995

ITEM	PART NUMBER	QTY	TR. CO.	DESCRIPTION	DESCRIZIONE
02	**71405981**	1	87C	TOOL BOX	CASSETTA ATTREZZI
03	**14549579**	1	150C	KEY 12X14	CHIAVE 12X14
	14522421	1	150C	KEY 13x17	CHIAVE 13x17
	14549879	1	150C	KEY 19x22	CHIAVE 19x22
	14550079	1	150C	KEY 24x27	CHIAVE 24x27
	71405982	1	150C	KEY 30x32	CHIAVE 30x32
	14525021	1	150C	KEY 8X10	CHIAVE 8X10
09	**71405983**	1	150C	KEY 36X41	CHIAVE 36X41
11	**71405985**	1	150C	KEY	CHIAVE
12	**71405986**	1	150C	KEY 1/2"	CHIAVE 1/2"
13	**71405987**	1	150C	KEY 17	CHIAVE 17
	71405988	1	150C	KEY 19	CHIAVE 19
	71405989	1	150C	KEY 22	CHIAVE 22
	71405990	1	150C	KEY 24	CHIAVE 24
	71405991	1	150C	KEY 27	CHIAVE 27
	71405992	1	150C	KEY 30	CHIAVE 30
19	**71405993**	1	222P	EXTENSION	PROLUNGA
20	**71407471**	1	150C	KEY 11	CHIAVE 11
21	**14534479**	1	150C	KEY 10	CHIAVE 10
	14534579	1	150C	KEY 12	CHIAVE 12
	14534079	1	150C	KEY 4	CHIAVE 4
	14534279	1	150C	KEY 6	CHIAVE 6
	14534379	1	150C	KEY 8	CHIAVE 8
24	**14626090**	1	10C	SCREWDRIVER	CACCIAVITE
25	**14626290**	1	10C	SCREWDRIVER	CACCIAVITE
26	**14582790**	1	51M	HAMMER 0,5 Kg.	MARTELLO 0,5 Kg.
27	**14626671**	1	125P	PLIERS	PINZA
28	**71405995**	1	193T	TUBE 33,7X3,2	TUBO RIGIDO 33,7X3,2
29	**71406374**	1	992	GREASING PUMP	POMPA INGRASSAGGIO
30	**79028981**	1	285T	HOSE	TUBO FLESSIBILE
31	**71304923**	1	150C	KEY	CHIAVE
32	**79030150**	2	173C	BELT	CINGHIA

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nearest electric utility before beginning work. Look them up in your local telephone directory.

— You and the electric utility representative must jointly determine what specific precautions must be taken to insure safety.
— Consider all lines to be power lines and treat all power lines as energized even thought it is known that the power is shut off and the line is visibly grounded.
— It is the responsibility of the user and the electric utility to see that necessary precautions are taken.
— Slow down the operating cycle. Reaction time may be too slow and distances may be misjudged.
— Caution all ground personnel to stand clear of the machine and the load at all times. If the load must be guided into place consult your local electric utility company for specific precautions that must be taken.
— Use a signal person. The responsibility of the signal person is to observe, from the best vantage point, the approach of any part of the machine or load to the power line. The signal person must be in direct communication with the operator, and the operator must pay close attention to the signals.

Use only designated towing or pulling attachment points. Use care in making attachment. Be sure pins and locks as provided are secure before pulling. Stay clear of drawbars, cables or chains under load.

When pulling or towing through a cable or chain do not start suddenly at full throttle. Take up slack carefully. Guard against kinking chains or cables. Inspect carefully for flaws before using. Do not pull through a kinked chain or cable due to the high stresses and possibility of failure of the kinked area. Always wear heavy gloves when handling chain or cable.

Be sure cables are anchored and the anchor point is strong enough to handle the expected load. Keep exposed personnel clear of anchor point and cable or chain. DO NOT PULL OR TOW UNLESS OPERATORS COMPARTMENTS OF MACHINES INVOLVED ARE PROPERLY GUARDED AGAINST POTENTIAL CABLE OR CHAIN BACKLASH.

Operating on slopes is dangerous. Level off the working area if possible. Slow down the work cycle where leveling cannot be accomplished.

Avoid swinging bucket or load in a down hill direction as this reduces the stability of the machine.

Avoid working with the bucket on the uphill side. The counterweights, when swung down-hill will act to reduce stability on slopes making tipping a dangerous possibility.

On slopes it is recommended to work with the bucket in the down hill direction after first determining the stability of the machine by rotating the superstructure 360° with the booms and empty bucket fully extended, and then agair, with the booms fully retracted.

Do not swing loads over exposed people. Avoid swinging loads towards the down hill side of slopes as this reduces the stability of the machine. Dump on the uphill side if at all possible.

There is no substitute for good judgment when working on slopes.

The grade of slope you should attempt will be limited by such factors as condition of the ground, load being handled, the type of machine, speed of machine and visibility.

When working in or near a pit, in trenches or near high banks, be sure to have the walls shored properly to prevent cave-in.

Be particularly careful when digging near overhanging banks or where cave-ins may occur. Make sure footing is firm enough to avoid cave-ins.

Position undercarriage perpendicular to slopes, overhangs, etc. to facilitate transport exit from area.

Slides or cave-ins are a hazard when excavating. Check the condition of the soil or the material to be moved. Shore or brace to prevent slides or cave-ins whenever necessary including:

— When excavations or trenches are made adjacent to backfilled excavations.
— When soil conditions are not good.
— Where excavations are subject to vibrations from railroads, highway traffic, or the operation of machinery.

Use good judgment about the operating conditions with particular regard to supporting ground conditions.

Keep machine well back from the edge of an excavation.

Never undercut machine.

When undercutting is necessary, always be sure adequate shoring is provided to prevent the machine from falling into the excavation.

Transport a loaded bucket with the bucket as far tipped back and in as low a position as possible for maximum visibility, stability and safest transport of the machine. Carry it at a proper speed for the load and ground conditions.

Always carry the bucket low when traveling.

Handle only loads which are safely arranged.

Beware of overhanging material or objects.

When backing, always look to where the machine is to be moved. Be alert to the position of exposed personnel. DO NOT OPERATE if exposed personnel enter the immediate work area.

In darkness, check area of operation carefully before moving in with machine. Use all lights provided. Do not move into areas of restricted visibility.

Maintain a safe distance from other machines. Provide sufficient clearance for ground and visibility conditions. Yield right-of-way to loaded machines.

Avoid going over obstacles such as rough terrain, rocks, logs, curbs, ditches, ridges, and railroad tracks whenever possible. When obstructions must be crossed, do so with extreme care at an angle if possible.

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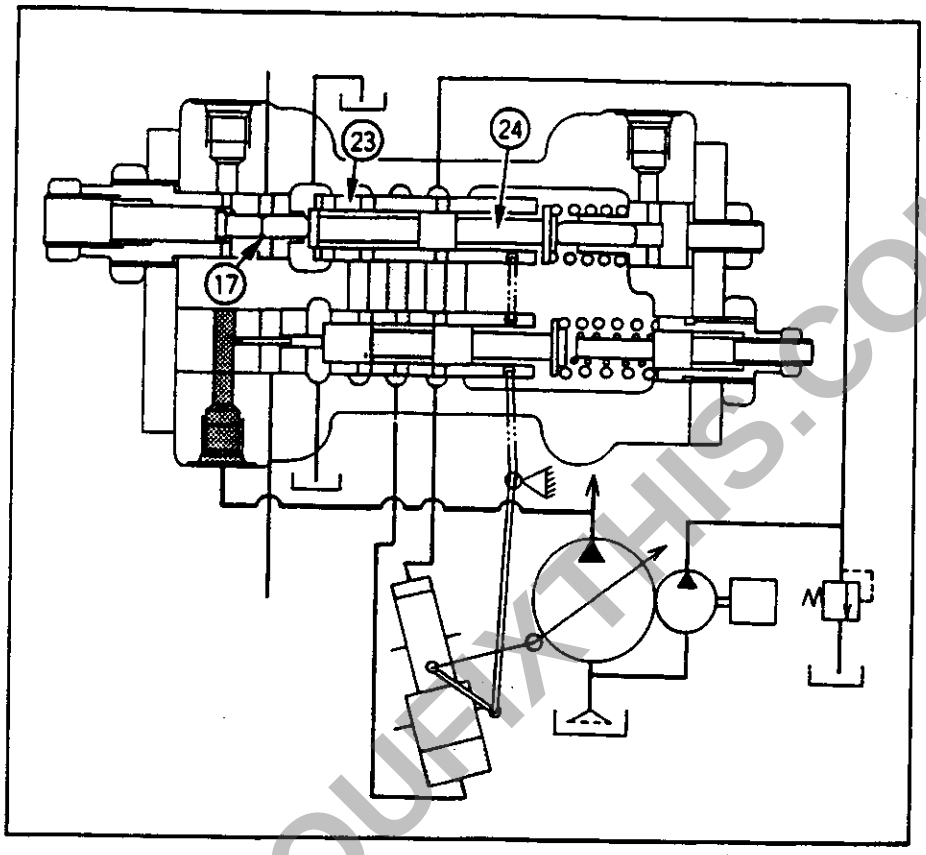
2.3 SPECIFICATIONS

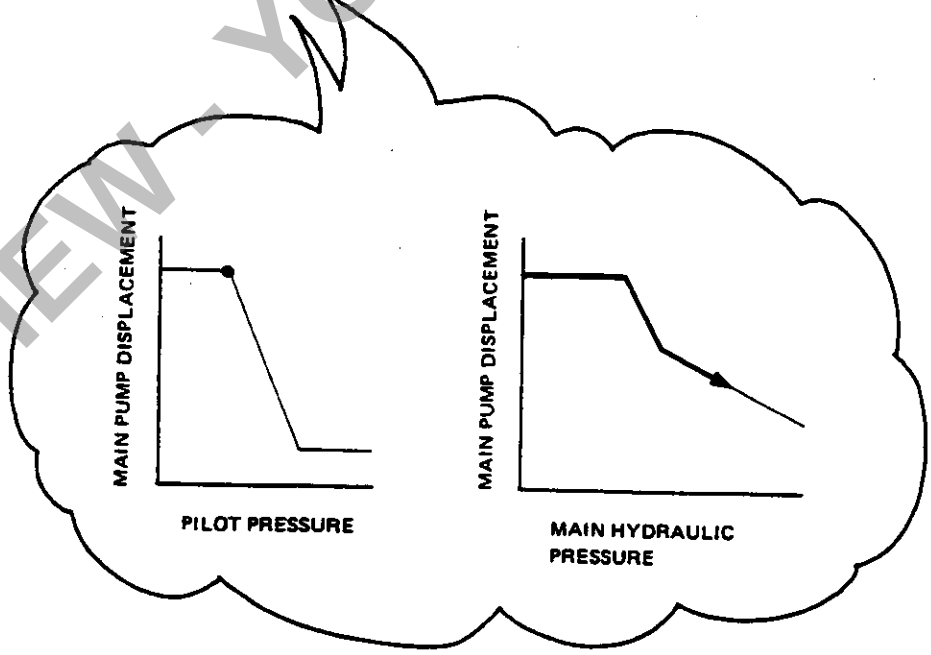
2.3.1 ENGINE

Engine model	CUMMINS 6BT5.9C
Model	Water cooled, four cycle, vartical in-line, overhead valve direct injection with turbo-chager.
Cylinder. nos. - bore x stroke	6 - 102 mm X 120 mm
Total piston displacement	5580 cm³
Fuel injection order	1-5-3-6-2-4
Retation direction	Clockwise viewed from fan side
1. Cooling system	Pressurized forced circulation
. Cooling fan	Draw-in type
. Water pump	Belt driven impuller type
. Thermostat	Wax pellet type
	Cracking temp: 83°C
2. Starting motor	Pinion shift system
. Voltage	24 V
. Output	4 KW
4. Generator	AC Generator belt drive
. Voltage	24 V
. Output	40 A
5. Super charging system	Turbocharger, forced lubrication
6. Fuel system	
. Injection pump	Bosch type
. Governor	Mechanical type
7. Stop mechanism	Fuel cut system
8. Others	
. Lubricating oil capacity	14.2 ℓ
. Water capacity	19 ℓ
. Valve clearance (at cold)	Inlet : 0.25 mm
	Outlet: 0.51 mm

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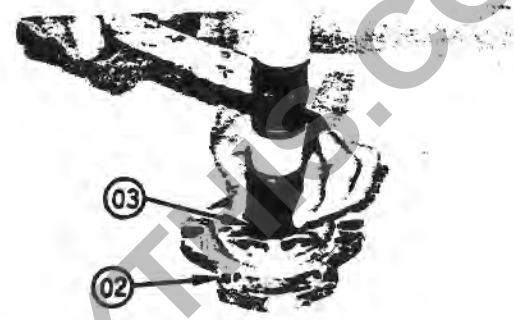
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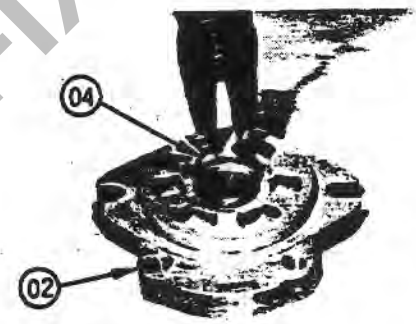
3. ASSEMBLY

Note : Clean all parts and apply clean hydraulic oil to all internal parts.

1 Install oil seal (03) into flange (02) with special tool.

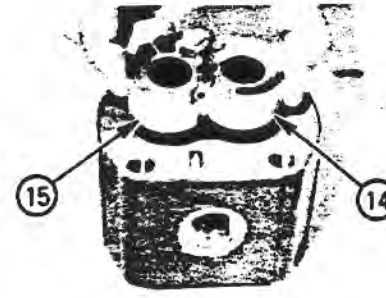


2 Install snap ring (04) into flange (02).

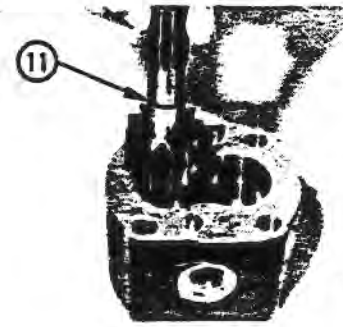


3 Install bushing (14) (15).

Note : Don't mistake delivery side and suction side.



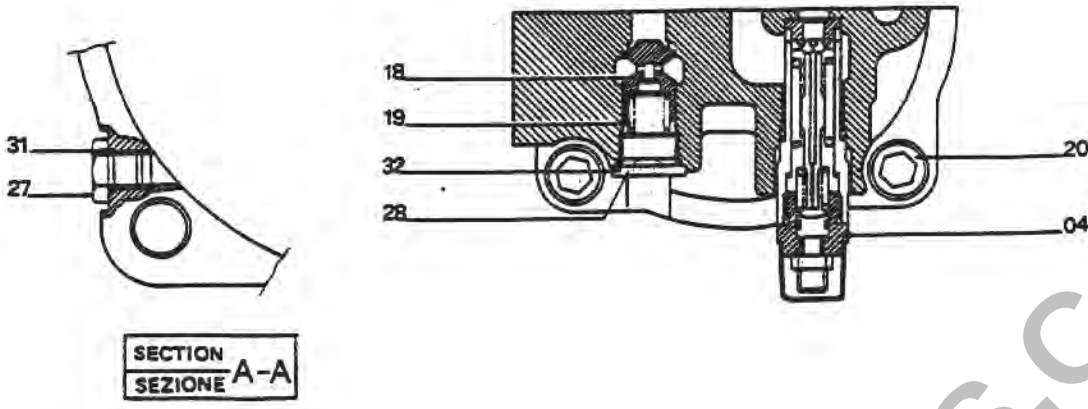
4 Install drive gear (11).



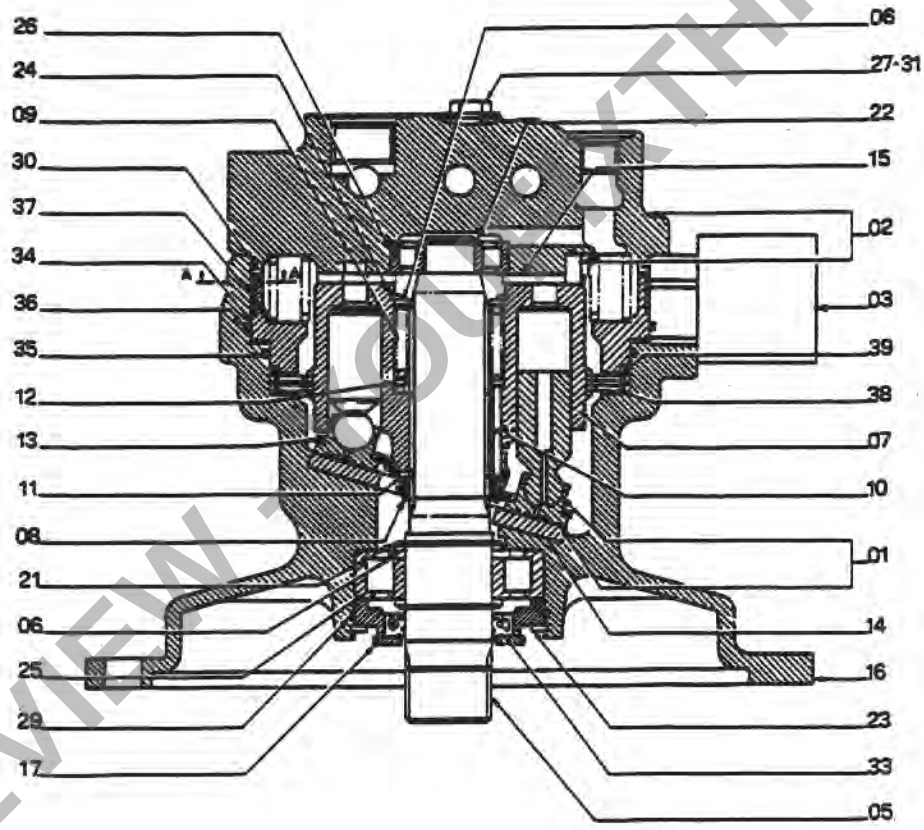
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CAB MOTOR



SECTION A-A
SEZIONE



01	PISTON
02	BODY
03	VALVE
04	VALVE
05	SHAFT
06	SPACER
07	CYLINDER
08	BUSHING
09	SPRING
10	ROD
11	SPACER
12	SPACER
13	PLATE
14	PLATE
15	PLATE
16	BODY
17	COVER
18	PISTON
19	SPRING
20	SCREW
21	SNAP RING
22	SNAP RING
23	SNAP RING
24	SNAP RING
25	BEARING
26	BEARING
27	PLUG
28	PLUG
29	O-RING
30	O-RING
31	O-RING
32	O-RING
33	SEAL
34	BLOCK
35	O-RING
36	O-RING
37	BLOCK
38	PLATE
39	PLATE

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2-2 HEAT-RUN SYSTEM

The shockless valve is provided heat-run system that is to warm up the pilot line. The relief pressure oil flows to the pilot valve through filter and check valve of shockless valve.

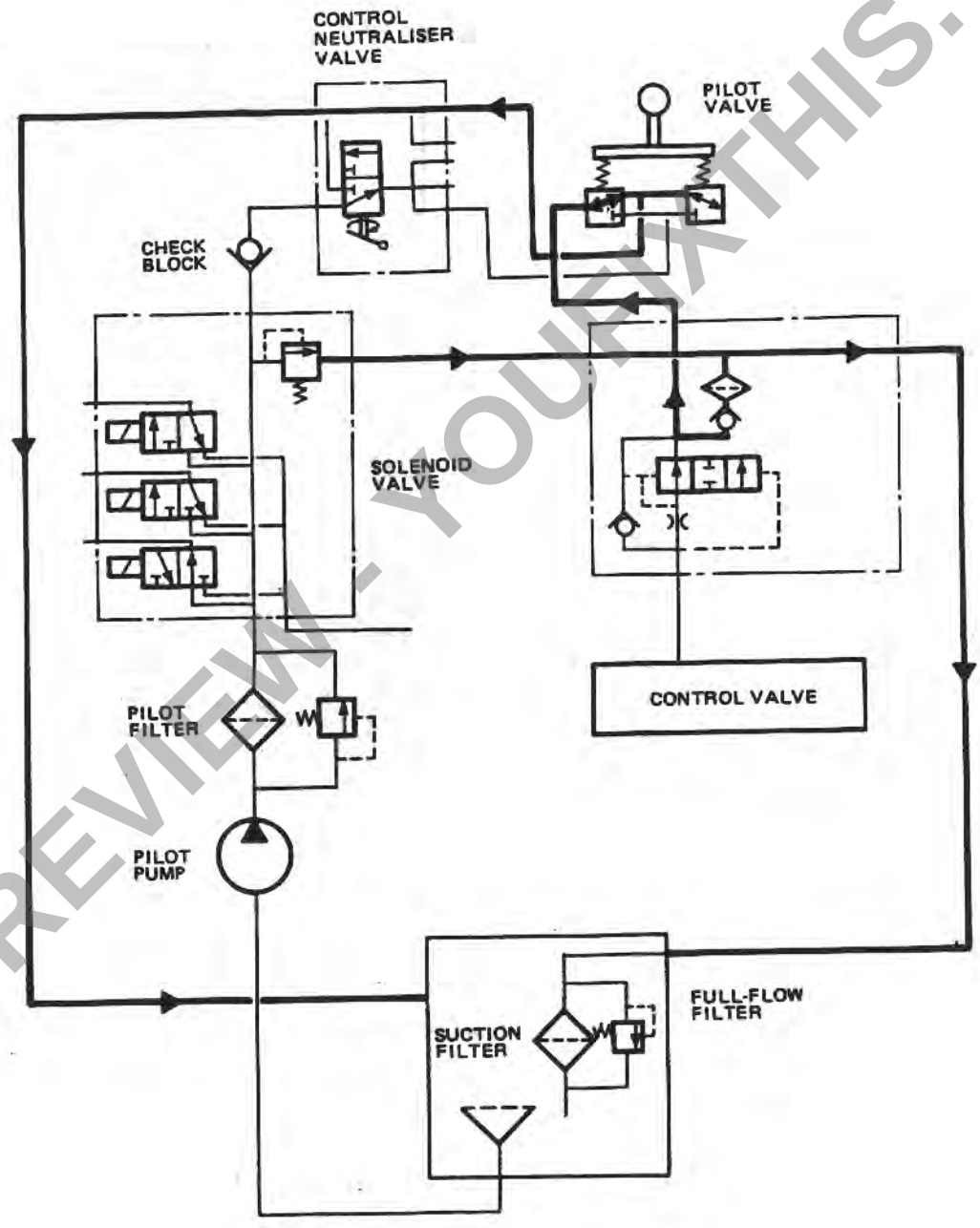


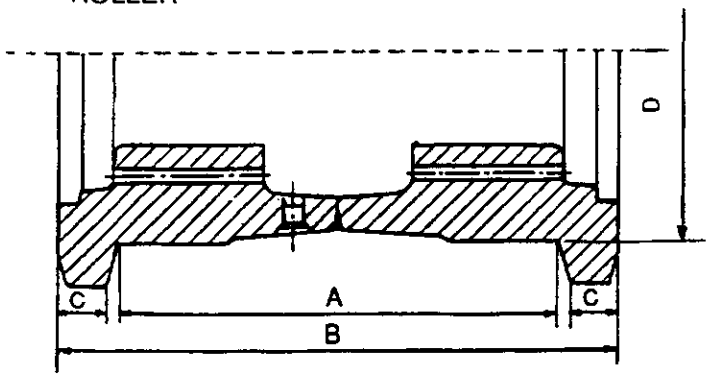
Fig. 4

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5.2.4 MAINTENANCE STANDARD

ROLLER



ND = Nominal Dimension
RL = Recommended Service Limit
LU = Limit of Use

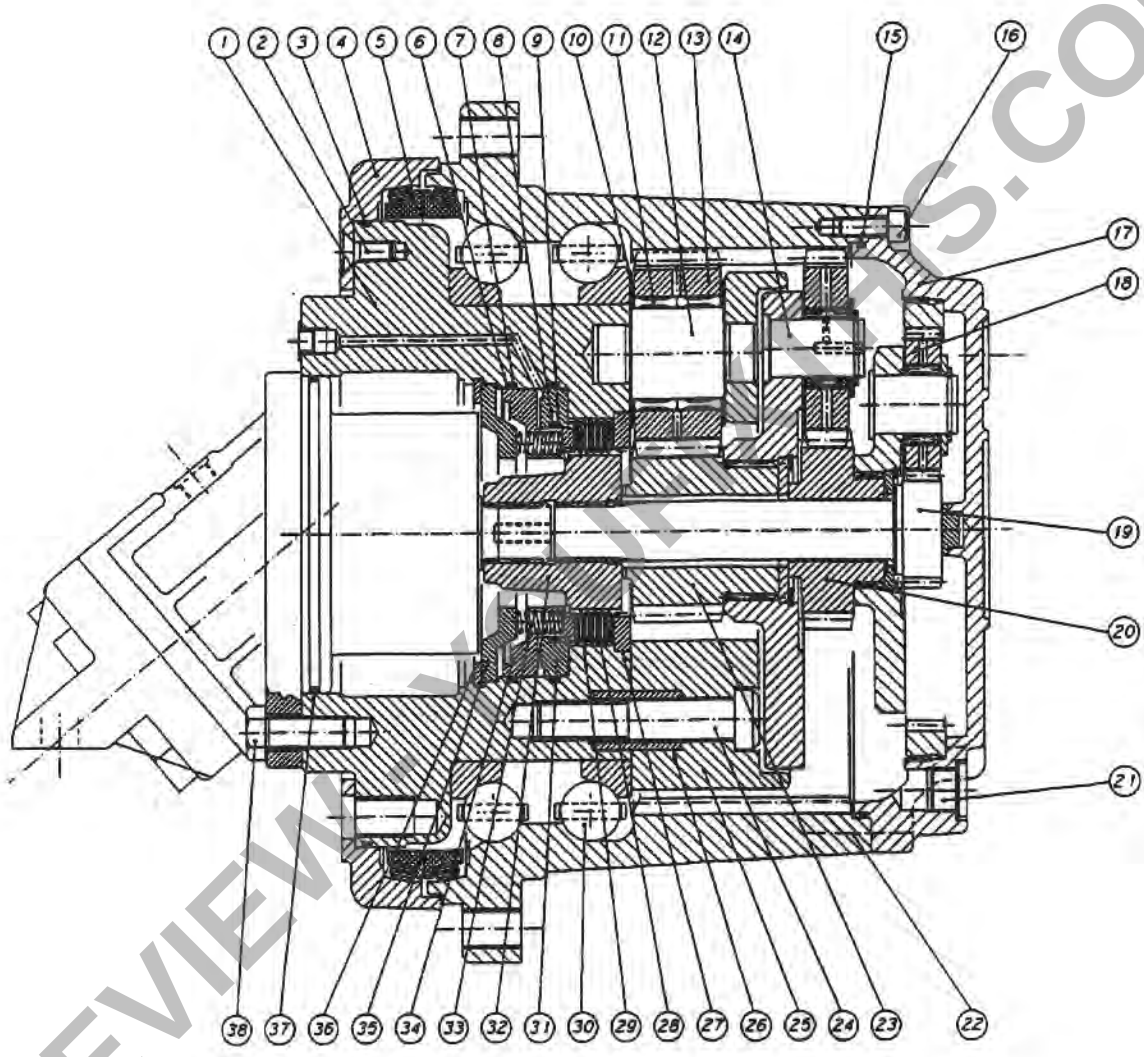
Unit: mm

Mark	ND	RL	LU	Remedy
A	143	147	150	Replace
B	195	-	-	Buildup or Replace
C	-	-		"
D	155	151.5	149	"

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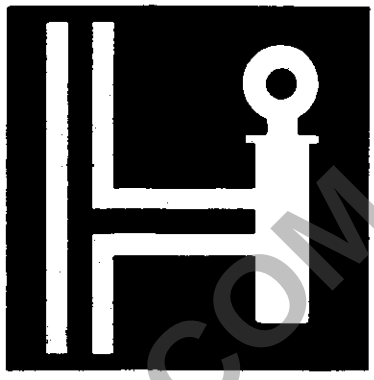
3 *CUTWAY DRAWING*



POSIZIONE *POSITION*	VITE *SCREW TYPE*	COPPIA DI SERRAGGIO *TIGHTENING TORQUE*
2	TSPEI M10x1.5 K(Grade)= 10.9	70 Nm
16	TCEI M10x1.5 K(Grade)= 12.9	85 Nm
24	TCEI M20x2.5 K(Grade)= 10.9	415 Nm
38	TE M16x2 K(Grade)= 8.8	215 Nm

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Section 7 HYDRAULIC SYSTEM

CONTENTS

Group 1-OUTLINE HS-7- 1

Group 2-MAIN HYDRAULIC CIRCUIT ... HS-7- 2~12

1. Suction Circuit & Delivery Circuit HS-7- 2
2. Return Circuit HS-7- 6
3. Drain Circuit HS-7- 8

Group 3-PILOT CIRCUIT ..... HS-7-13~26

1. Suction, Delivery & Return Circuit HS-7-14
2. Accumulator HS-7-16
3. Control Neutralizer Valve HS-7-16
4. Pump Displacement Control Circuit HS-7-18
5. Relief Pressure Change Circuit HS-7-20
6. Switch Valve Circuit HS-7-20
7. Swing Parking Brake Circuit HS-7-21
8. Heat-Run Circuit HS-7-22
9. Pilot Circuit HS-7-25

Group 4-SINGLE OPERATION ..... HS-7-27~44

1. Boom Raise Circuit Operation HS-7-27
2. Boom Lower Circuit Operation HS-7-29
3. Arm Roll-In Circuit Operation HS-7-31
4. Arm Roll-Out Circuit Operation HS-7-33
5. Bucket Circuit Operation HS-7-35
6. Swing Circuit Operatrion HS-7-37
7. Swing Operation HS-7-39
8. Travel Circuit Operation HS-7-41
9. Travel Forward & Reverse Operation HS-7-43

Continued on next page

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2.3 CONSTRUCTION

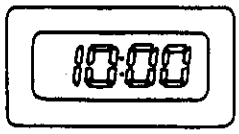
METER AND GAUGE

(1) Clock

The clock is a digital indicator and always functions even with the starter switch turned OFF.

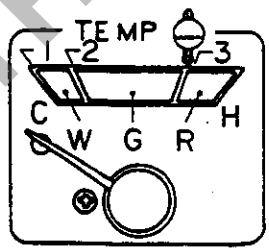
However, the clock will stop if the terminal of the battery is removed to turn off power during, for instance, maintenance.

The clock has time-set and minute-set switches for adjustment.



(2) Engine coolant temperature gauge

It is normal so long as the pointer is in the GREEN zone during operation of the machine.

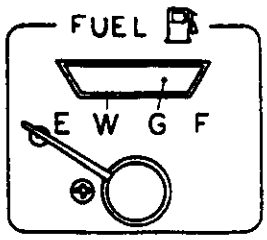


W: White, G: Green, R; Red

(3) Fuel gauge

When the pointer reaches point "E", it denotes that fuel remains in the tank for permiting the machine to be operated about an hour.

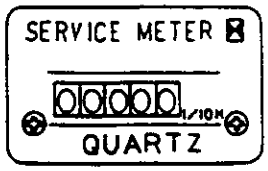
(About 16.5 liters in the condition of the machine on a level ground.)



W: White, G: Green

(4) Service meter

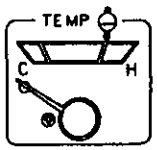
When the engine starts and the hourmeter switch is excited to allow the hourmeter starting to work.



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2.3 Monitor



DIAGNOSE MALFUNCTIONS

Maloperation of water temperature gauge

Pointer does not swing. (It does not rise from zero point)

Check connection of terminal of sensor unit of water temperature gauge.

Is terminal loose ?
- (Loose) Yes → Poor connection of terminal
- No → Extracting terminal of sensor unit, ground round terminal at harness side through resistance of 10 to 20Ω.

Does pointer swing almost to upper limit?
- Yes → Exchange sensor unit
- No → Remove 8P connector at back of gauge panel, check continuity between No.8 terminal at harness side and sensor unit terminal at harness side. (With terminal of sensor unit left extracted)

Is continuity obtained ?
- (R=0) Yes → Exchange water temperature gauge
- (R=∞) No → Harness defective (disconnection)

Pointer swings scalecover

Extracting terminal of sensor unit, turn key switch ON.

Does pointer swing back to zero point ?
- Yes → Exchange sensor unit
- No → Remove 8P connector at gauge panel, check continuity between No.8 terminal at harness side and body (E) (With terminal of sensor unit left extracted)

Is continuity obtained ?
- Yes → Harness defective (short)
- No → Exchange water temperature gauge

Pointer swings unstably

Check connection of terminal of sensor unit.

Is terminal loose ?
- (Loose) Yes → Poor connection of terminal
- No → Extracting terminal of sensor unit, ground terminal at harness side through resistance of 10 to 20Ω.

Does pointer swing stable ?
- Yes → Exchange sensor unit
- No → Exchange water temperature gauge

Pointer remains indicating a certain value (It doesn't swing back to zero point)

Turn key switch OFF

Does pointer swing back to zero point ?
- Yes → Normal
- No → Exchange water temperature gauge

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