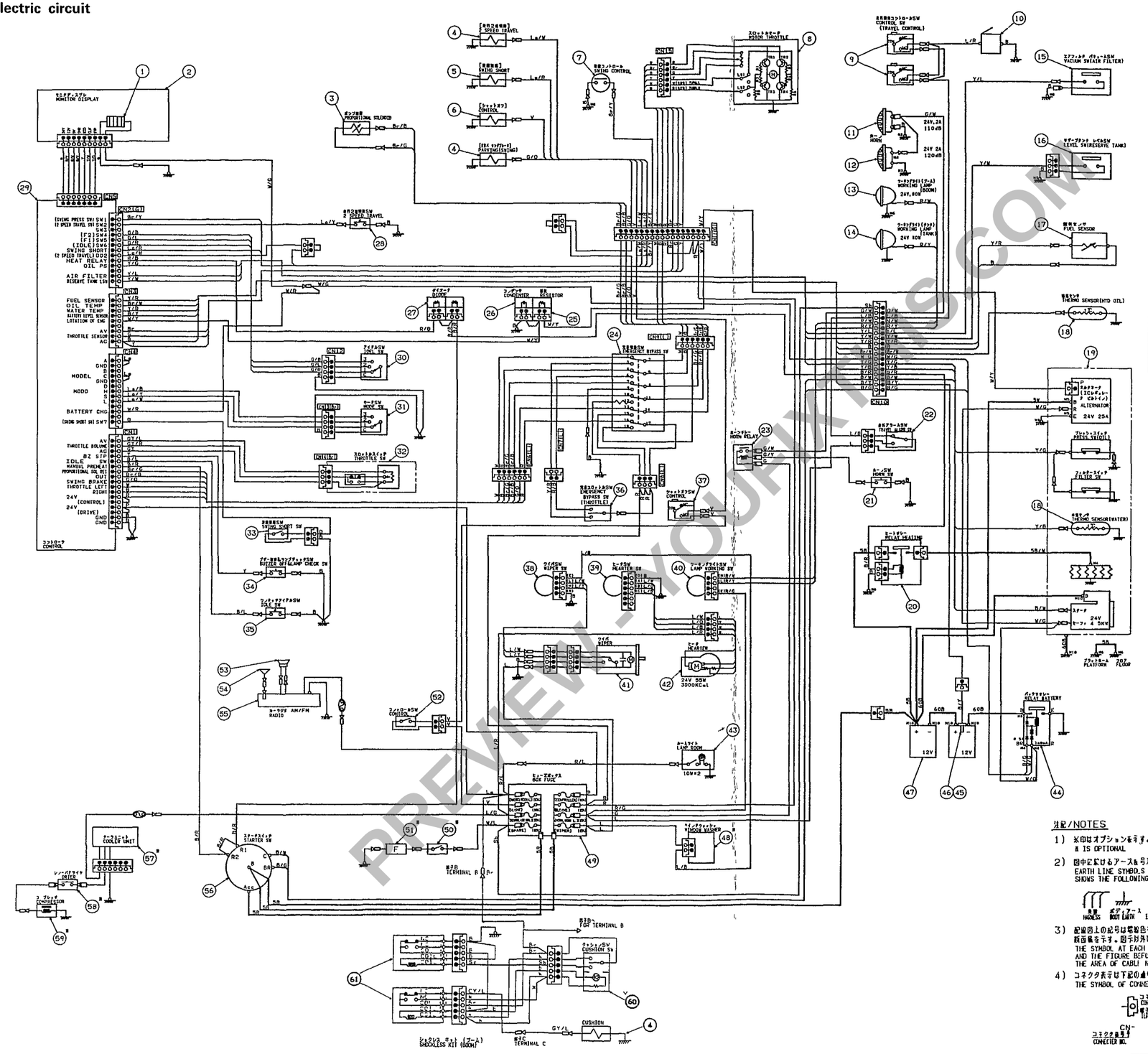
Electric circuit



SYM		DESCRIPTION	QTY
		METER;HOUR	
	1	メータ アワー	1
	2	MONITOR DISPLAY ASSY	
		モニタ ディスプレー アッセンブリ	1
	3	PUMP;HYD	
		ポンプ,油圧 (可変容量形)	1
	4	VALVE,SOLENOID	
		バルブ,ソレノイド	3
※	5	VALVE;SOLENOID	
		バルブ,ソレノイド	1
	6	VALVE;SOLENOID	
		バルブ,ソレノイド	1
	7	SWITCH,PRESSURE	
		スイッチ,プレッシャ	1
	8	MOTOR,THROTTLE	
		モータ,スロットル	1
	9	SWITCH,LIMIT	
		スイッチ,リミット	2
	10	ALARM;TRAVEL	
		アラーム,走行	1
	11	HORN;ERECTRIC	
		ホーン,電気	1
	12	HORN;ERECTRIC	
		ホーン,電気	1
	13	LAMP,WORKING	
		ライト,ワーキング	1
	14	LAMP,WORKING	
		ライト,ワーキング	1
	15	SENSOR;VACUUM	
		センサ,真空	1
	16	SWITCH,LIMIT	
		スイッチ,リミット	1
	17	SENSOR;FUEL	
		センサ,フューエル	1
	18	SENSOR;THERMO	
		センサ,サーモ	2
	19	ENGIN;DIESEL	
		エンジン,ディーゼル	1
	20	RELAY,HEATING	
		リレー,ヒーティング	1
	21	KNOB(SWITCH)	
		ノブ(キー スイッチ)	1
	22	SWITCH,ROCKER(HORN)	
		スイッチ,ロッカ(ホーン)	1
	23	RELAY,HORN	
		リレー,ホーン	1
	24	SWITCH	
		スイッチ (XH)	1
	25	DIODE	
		ダイオード	1
	26	DIODE	
		ダイオード	1
	27	DIODE	
		ダイオード	2
	28	PUSH BUTTON DIMMER	
		プッシュボタン,ディマ	1
	29	CONTROLLER	
		コントローラ 運転席	1
	30	SWITCH,ROTARY(IDEL)	
		スイッチ,ロータリ(アイドル)	1
	31	SWITCH,ROTARY(MODE)	
		スイッチ,ロータリ(モード)	1
	32	SWITCH(THROTTLE)	
		スイッチ(スロットル)	1
※	33	SWITCH,ROCKER(SWING)	
		スイッチ,ロッカ(スイング スイッチ)	1
	34	PUSH BUTTON	
		プッシュボタン	1
	35	KNOB(SWITCH)	
		ノブ(FX スイッチ用)	1
	36	SWITCH,TOGGLE	
		スイッチ,トグル	1
	37	SWITCH,LIMIT	
		スイッチ,リミット	1
	38	SWITCH,ROTARY(WIPER)	
		スイッチ,ロータリ(ワイパ)	1
	39	SWITCH,ROTARY(HEATER)	
		スイッチ,ロータリ(ヒータ)	1
	40	SWITCH,ROTARY(LAMP)	
		スイッチ,ロータリ(ライト)	1
	41	MOTOR,WIPER	
		モータ,ワイパ	1
	42	HEATER;CAR	
		ヒータ,カー	1
	43	LAMP,ROOM	
		ライト,ルーム	1
	44	RELAY BATTERY	
		リレー,バッテリ	1
	45	BATTERY(SENSOR)	
		バッテリ(センサ用)	1
	46	SENSOR SPECIAL	
		センサ専用(温度)	1
	47	BATTERY	
		バッテリ	1
※	48	WINDOW WASHER TANK	
		ウインド ウォッシャ タンク	1
	49	BOX,FUSE	
		ボックス,ヒューズ	1
※	50	SWITCH,TOGGLE	
		スイッチ,トグル	1
※	51	FAN	
		ファン,クーラ	1
	52	SWITCH,ROCKER(CONTROL)	
		スイッチ,ロッカ(コントロール)	1
	53	SPEAKER	
		スピーカ	1
	54	ANTENNA	
		アンテナ	1
	55	RADIO SET	
		ラジオ,カー AM/FM(HIGHバンド)	1
	56	SWITCH,STARTER	
		スイッチ,スタータ	1
※	57	COOLER PART (DRIER)	
		クーラパーツ (ドライヤ)	1
※	58	COOLER PART (COMPRESSOR)	
		クーラパーツ (コンプレッサ)	1
※	59	COOLER PART (COOLER UNIT)	
		クーラパーツ (クーラユニット)	1
	60	SWITCH LOCKER(CUSHION)	
		スイッチ ロッカー(クッション)	1
	61	RELAY	
		リレー	2

スタータ スイッチ 56
STARTER SWITCH

POS.	B	R1	R2	Acc	Br	C
3						
OFF						
1						
2						

ワイパー スイッチ 38
WIPER SWITCH

POS.	L	E	H	M
WASH				
OFF				
ON				

作業灯 スイッチ 40
WORKING LAMP SWITCH

POS.	E	L	M
OFF			
L			
H			

ヒータ スイッチ 39
HEATER SWITCH

POS.	D	E	A	B	C
OFF					
1 (L)					
2 (M)					
3 (H)					

色記号表
TABLE OF COLOUR SYMBOLS

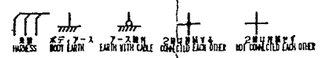
記号 SYMBOL	色 COLOUR	記号 SYMBOL	色 COLOUR
B	黒 BLACK	R	赤 RED
W	白 WHITE	Y	黄 YELLOW
Br	茶 BROWN	Lg	黄緑 LIGHT GREEN
P	桃 PINK	Sb	空色 SKY BLUE
V	紫 VIOLET	L	青 BLUE
G	緑 GREEN	GY	灰 GRAY
O	橙 ORANGE		

○/bは 白○の電線下地に 色bのストライプを表す。
例) B/R 黒の下地に 赤のストライプ。
o/b MEANS CABLE COLOUR o STRIPED BY b
EX.) B/R MEANS CABLE COLOUR BLACK STRIPED BY RED

注記/NOTES

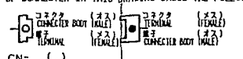
1) ※印はオプションを示す。
※ IS OPTIONAL

2) 図中に於けるアース線号及び記載交点部は下記の通りである。
EARTH LINE SYMBOLS AND CROSS POINT OF LINES IN THIS DRAWING SHOWS THE FOLLOWING



3) 配線図上の記号は電線色を示し記号前に付記した数値は電線の断面積を示す。図示外は0.85sqである。
THE SYMBOL AT EACH LINE SHOWS COLOUR OF CABLE AND THE FIGURE BEFORE THE SYMBOL SHOWS THE AREA OF CABLE THE AREA OF CABLE NOT INDICATED IS 0.85 sq

4) コネクタ表示は下記の通りである。
THE SYMBOL OF CONNECTER IN THIS DRAWING SHOWS THE FOLLOWING



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HYDRAULIC SYSTEM

This machine carries out all functions, such as traveling, swing, excavation, etc. by hydraulic pressure. The system can be roughly divided in two

- Hydraulic actuator
- Control device

Hydraulic actuator

This is composed of main hydraulic device which directly actuates traveling, swinging and excavating devices, and two hydraulic devices

No. 1 pump → Control valve → Arm speed 2, Bucket, Boom, Right travel

No. 2 pump → Control valve → Arm, Swing, Boom speed 2, Left travel

No 3 pump → Pilot valve

(Pilot pump)

Hydraulic system

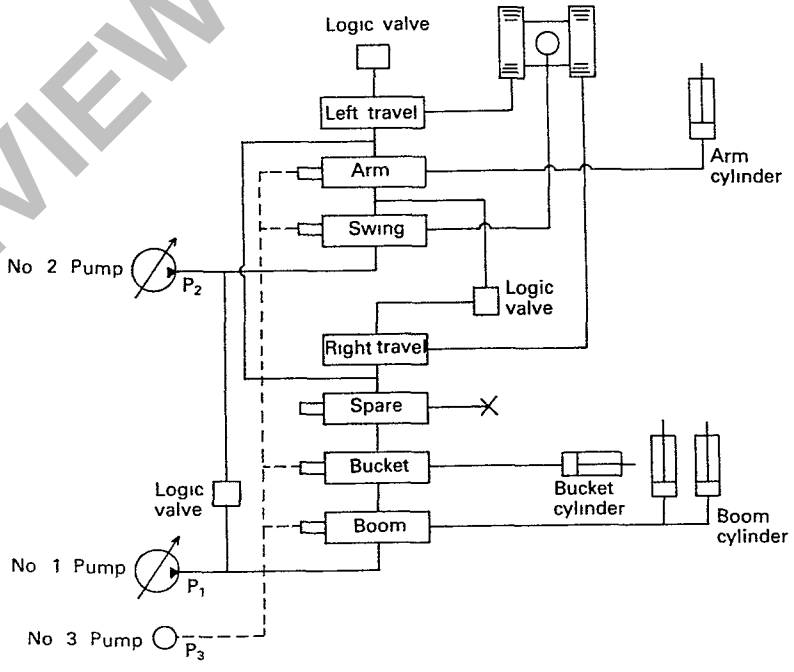
To carry out the functions described to the left, actuate the control valve to supply hydraulic oil to the device.

The control valve uses the pilot method to operate the hydraulic system, and can be operated with a light touch. (Except travel)

No. 3 Pump → Shutoff valve → Pilot valve → Control valve

When the shutoff valve is turned OFF, (the control switch is OFF or the console box is raised up), the pilot pressure will be stopped to make all other operations except travel

Hydraulic Circuit



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Fan belt tension checking and adjustment

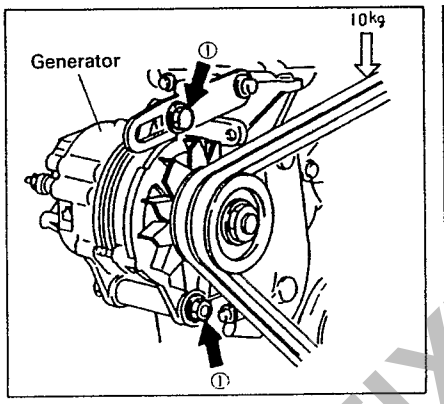
(Every 250 hour maintenance)

Push (about 22 lb, 10 kg) the fan belt at a point between the generator and the water pump The standard bending is 0.4 in (10 mm). To adjust the tension, loosen the nuts ①, and relocate the generator

(Refer to "Operation manual for engine")

★ If the fan belt is so extended that there is no allowance for adjustment, replace it with a new belt

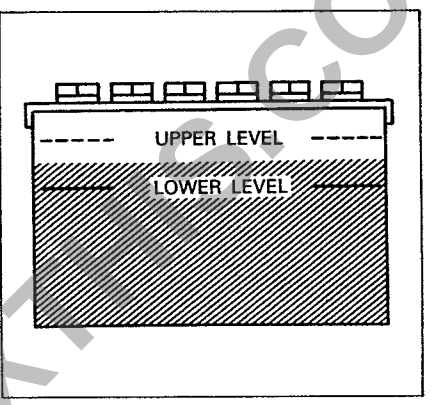
★ When the belt is replaced, run the engine for about 1 hour, and then recheck the tension.



Checking the battery solution level

(Every 250 hour maintenance)

Since the battery solution decreases with repeated charging and discharging, check to see that the solution is at the proper level.



Bolt tightening

(Every 250 hour maintenance)

Check the torque on every bolt and nut and, if necessary, tighten them in accordance with the following table, otherwise a serious accident may be caused.

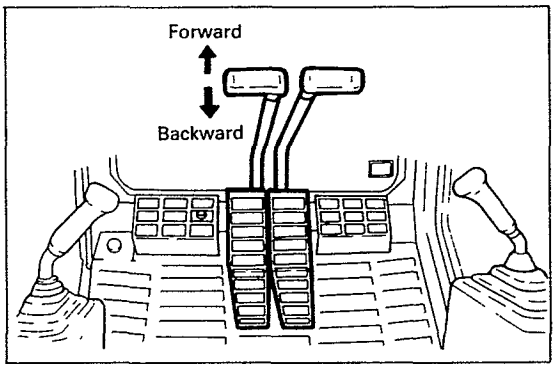
Bolt tight ening torque table

	Place of tightening	Bolt size	Hex size	Tightening torque
1	Turntable bearing mounting bolts	M20	30 mm	384~434 ft-lb (53.1~60.0 kg-m)
2	Swing reduction gear mounting bolts	M20	30 mm	384~434 ft-lb (53.1~60.0 kg-m)
3	Engine mounting bolts			
	radiator side,	M16	24 mm	198~231 ft-lb (27.4~32.0 kg-m)
	pump bolt side	M16	24 mm	198~231 ft-lb (27 4~32.0 kg-m)
4	Radiator mounting bolts	M16	24 mm	198~231 ft-lb (27.4~32.0 kg-m)
5	Hydraulic pump mounting bolts			
	pump,	M10	17 mm	48~ 54 ft-lb (6.6~ 7.4 kg-m)
	bracket,	M10	17 mm	48~ 54 ft-lb (6.6~ 7.4 kg-m)
	cylinder hub	—	—	—
6	Hydraulic tank mounting bolts	M16	24 mm	135~148 ft-lb (18.7~20.5 kg-m)
7	Control valve mounting bolts	M16	24 mm	137~159 ft-lb (19.0~22.0 kg-m)
8	Operator's cab mounting nut	M16	24 mm	48~ 56 ft-lb (6.6~ 7.8 kg-m)
9	Travel reduction gear mounting bolts			
	reduction gear section,	M16	24 mm	197~230 ft-lb (27.2~31.8 kg-m)
	sprocket section	M16	24 mm	197~230 ft-lb (27.2~31.8 kg-m)
10	Track shoe bolts	M18	27 mm	362~434 ft-lb (50.0~60 0 kg-m)
11	Track roller mounting bolts	M16	24 mm	197~230 ft-lb (27.2~31.8 kg-m)
12	Carrier roller mounting bolts	M20	30 mm	384~434 ft-lb (53.1~60.0 kg-m)
13	Counter weight mounting bolts	M27	41 mm	796~940 ft-lb (110~130 kgf-m)
	(CIILF)	M30	46 mm	796~940 ft-lb (110~130 kgf-m)

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Travel Lever



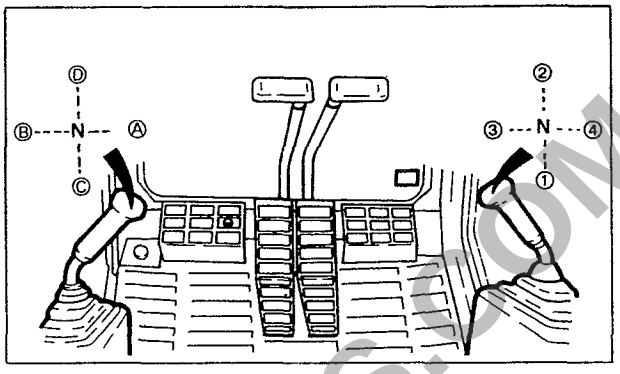
When both levers are pushed forward, the machine travels forward, when pulled backward, the machine travels backward

The machine will turn left or right when only left or right lever is operated If the levers are operated simultaneously in opposite direction, the machine will turn on the same spot Spin turn

⚠ WARNING

Before operating the travel lever, check the position of the lower It is recommended that the lower faces forward

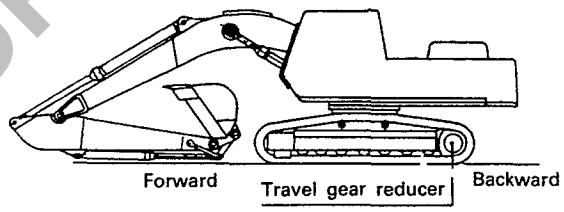
Operation Levers



N Neutral

Upper swing, arm, boom and bucket will stop when controller is in neutral

Swing control	Boom control
A – Right swing	1 – Hoisting
B – Left swing	2 – Lowering
Arm control	Bucket control
C – Pulling in	3 – Digging
D – Pushing out	4 – Dumping



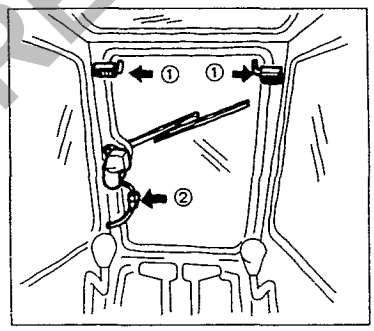
Front Window

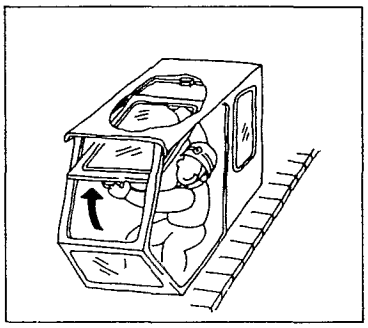
The front window and wiper can be stored in the ceiling of the cab

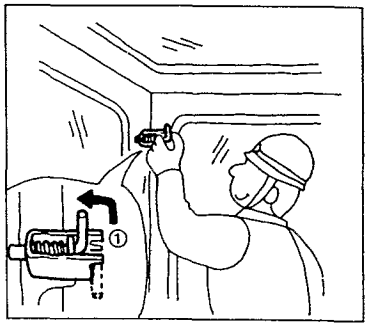
* Park the vehicle on stable, flat ground to open or close the window, turn the engine off, and turn the control switch to OFF

To Open Window

1 Remove the window wiper motor wiring from plug ②
2 Pull lock pins ①, located at the upper right and left hand corner of the window, to the inside to release the lock
3 From the operator's cab, grasp the bottom of the window with one hand and the top of the window with the other hand, and carefully pull the window up
4 Check to be certain that it has been pulled all the way to the top, then lock with lock pins ① at the left and right







Note The windshield wipers should be stopped at the top of the window If they are stopped at the bottom, they will be blocked by the cab when the window is stored in the ceiling This could cause damage to the wiper motor and to the window glass

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TROUBLESHOOTING

In order to extend the life of the machinery and raise the operation rate, along with daily inspections as well as oiling and greasing, should any problem be noticed, the cause should be found, and the problem fixed immediately If operation continues with this problem, it could cause an even greater problem, and extensive damage.

If there is trouble, check the cause, from the items given below, and make the necessary adjustments or repairs When the cause is uncertain, consult your distributor

Engine and its auxiliary parts

(Refer to the manufacturer's manual for details)

Problem	Probable cause	Solution
Starter motor will not turn	Improper electrical wiring Insufficient battery charging	Repair Charge
Starter motor turns but the engine will not start	There is air or water mixed in the fuel Insufficient fuel (FUEL lamp flashing) Insufficient engine warm-up (GLOW lamp flashing)	Check, replace Add fuel Warm up
The BATT lamp flickers	Insufficient battery fluid Battery is out of order	Add fluid Replace
The charging lamp comes on	The alternator is out of order	Repair
The oil lamp comes on	Insufficient engine oil amount Clogging of the oil filter Defective pressure oil switch	Add oil Clean or replace Replace
Over heating of the water (More than 8 bar graph segments are illuminated)	Improper adjustmentor or damaged fan belt Insufficient coolant, leakage (LEVEL lamp is on) Defective thermostat (HEAT lamp is on) Engine over-heating (HEAT lamp is on)	Adjust tension replace Add coolant Replace See Engine Manual
Water temperature gauge will not rise (No bar graphs visible)	Defective thermostat (Flashing W-UP lamp)	Replace
White engine exhaust	Excessive engine oil Insufficient fuel	Adjust to the designated amount Replace
Black engine exhaust	Defective nozzle Clogged air cleaner (FILTER lamp is on)	Replace Clean or replace
Abnormal noise (in engine or machinery)	Low-quality fuel Damage to muffler	Replace Repalce

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LUBRICATION CHART

LS-2800CII/CLFII LUBRICATION CHART

REF NO	DESCRIPTION		NO POINTS	SPECIFICATION	INTERVALS (hr)					
					50	100	250	500	1000	2000
①	FRONT ATTACHMENT PIN		16	EP GREASE No 2	○					
②	TURNTABLE BEARING		3			○				
③	SWING RING GEAR		13kg 28.7lb					○		
④	ENGINE OIL PAN		22.6ℓ 6.0gal	ENGINE OIL	△		●			
⑤	SWING GEAR REDUCER		6.0ℓ 1.6gal	GEAR OIL			△		●	
⑥	TRAVEL GEAR REDUCER		5.6ℓ×2 1.5gal×2	GEAR OIL			△		●	
⑦	HYDRAULIC SUMP TANK		233ℓ 61.6gal	HYDRAULIC OIL						●
⑧	ENGINE RADIATOR		25.8ℓ 6.8gal	WATER WITH LONG LIFE COOLANT	EVERY 2 YEARS					
⑨	FUEL TANK		280ℓ 74.0gal	LIGHT OIL	WHEN REQUIRED					
Ⓐ	PILOT OIL FILTER		1	ELEMENT	△			●		
Ⓑ	FUEL FILTER		1	ELEMENT				●		
Ⓒ	ENGINE OIL FILTER	FULL FLOW	1	ELEMENT	△		●			
Ⓓ		BY-PASS	1	ELEMENT				●		
Ⓔ	RETURN FILTER		1	ELEMENT	△			●		
Ⓕ	SUCTION FILTER		1	ELEMENT				□		●
Ⓖ	DRAIN FILTER		1	ELEMENT	△			●		
Ⓗ	AIR CLEANER		1	ELEMENT			□		●	
Ⓘ	AIR BREATHER		1	ELEMENT					●	

○ LUBRICATE/GREASE
△ CHANGE INITIALLY
● CHANGE OIL OR REPLACE ELEMENT
□ CLEAN

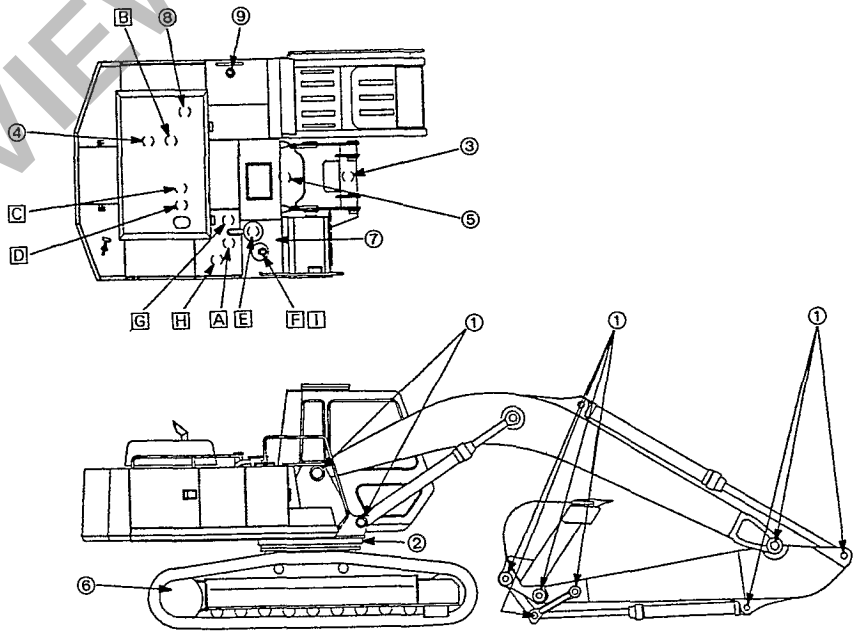
RECOMMENDED GREASE AND OIL SPEC ARE AS FOLLOWS

EP GREASE	LITHIUM GREASE No 2
ENGINE OIL	API CD SAE 30
GEAR OIL	API GL-4 SAE 90
HYDRAULIC OIL	ISO VG 32

NOTES 1 AS FOR FRONT ATTACHMENT PINS, DAILY LUBRICATION IS RECOMMENDED IN CASE OF SEVERE OPERATION IN THE WATER
2 THIS CHART IS PRIOR TO THE ENGINE INSTRUCTION MANAUL
3 INTERVAL HOURS ON THIS CHART ARE BASED ON SAE J752b AS FOLLOWS

50 (or WEEKLY) *	500 (or 3 MONTHS) *
100 (or 2 WEEKS) *	1000 (or 6 MONTHS) *
250 (or MONTHLY) *	2000 (or YEARLY) *

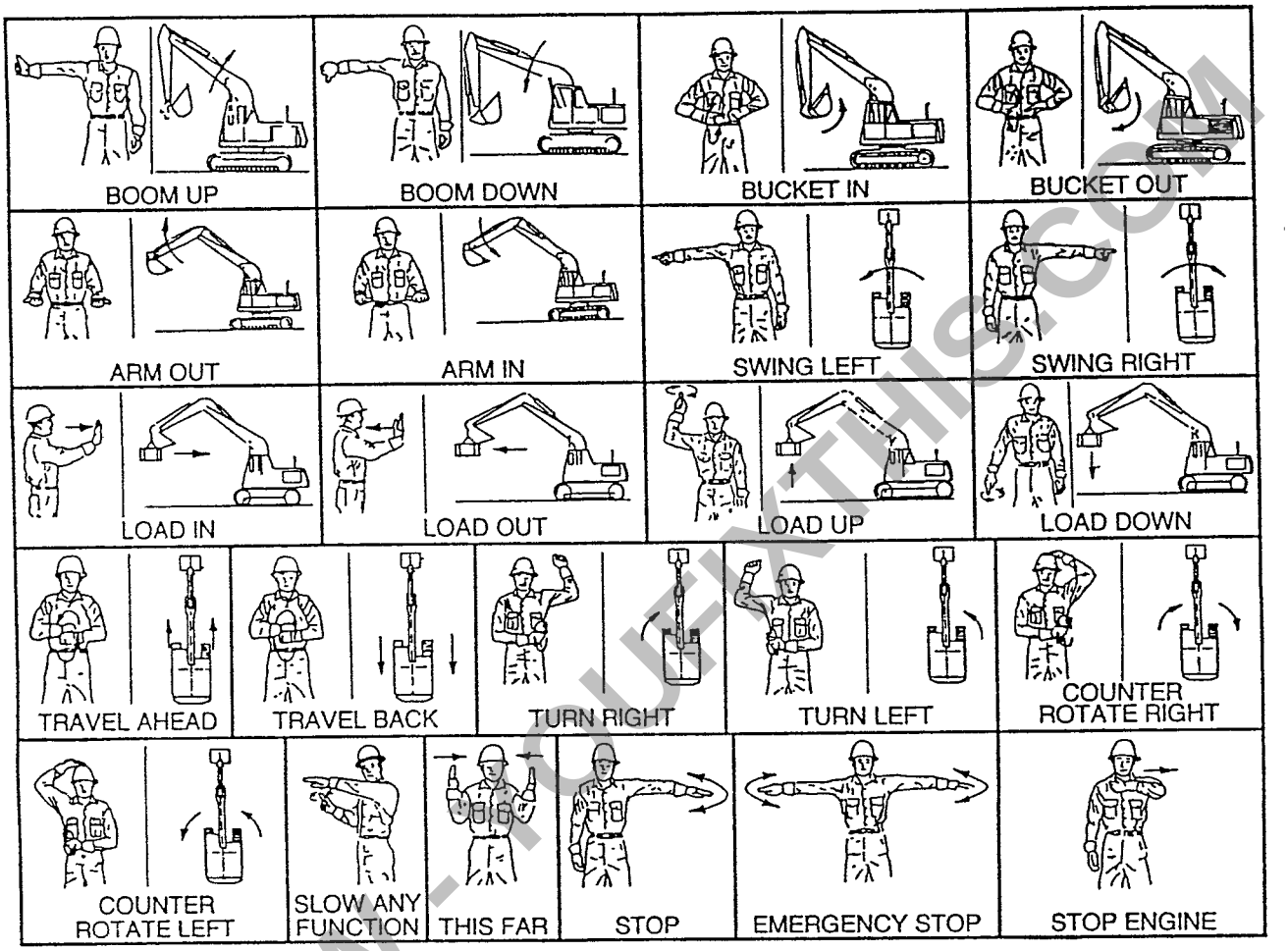
*WHICHEVER OCCURS FIRST



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Standard Hand Signals For Controlling Crawler Excavator Operations

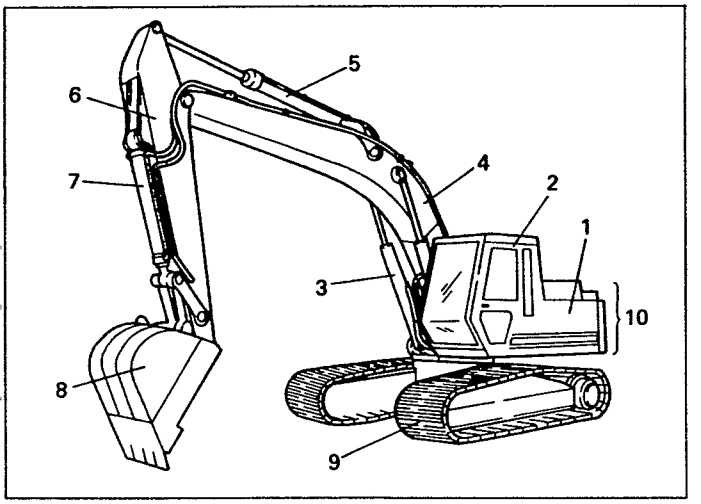


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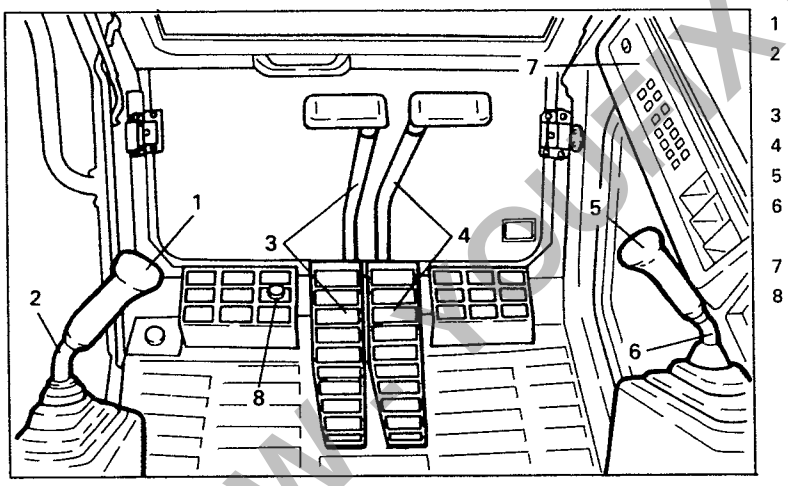
LOCATION OF COMPONENTS

Appearance



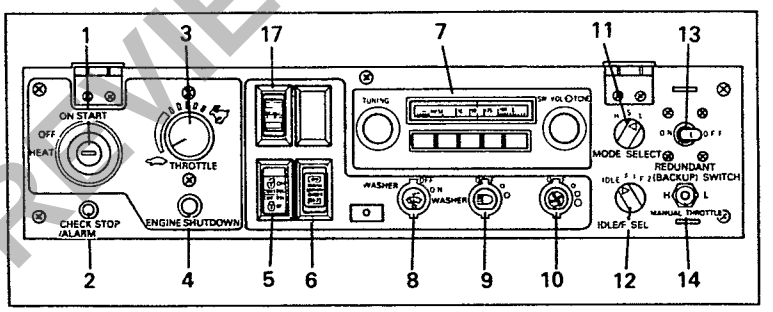
1 House
2 Operator's cab
3 Boom cylinder
4 Boom
5 Arm cylinder
6 Arm
7. Bucket cylinder
8. Bucket
9. Lower traveling body
10 Upper swing body

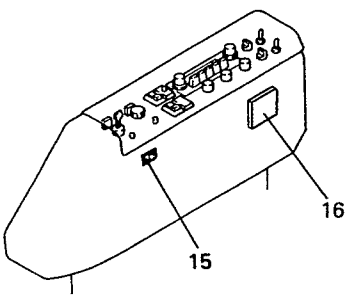
Operator's Controls



1 Horn switch
2 Left operation lever
(for arm and swing control)
3 Left travel pedal
4 Right travel pedal
5 Idle switch
6 Right operation level
(for boom and bucket)
7 Systems control monitor
8 Travel switch

Instrument Panel





1 Starter switch
2 Check-stop/alarm switch
3 Throttle switch
4 Engine shutdown switch
5 Control switch
6 Travel caution buzzer switch
7 Radio
8 Wiper switch
9 Light switch
10 Heater switch
11 Mode select switch
12 Idle/F mode sel switch
13 Redundant (Backup) switch
14 Manual throttle switch
15 Free swing switch
16 Fuse box
17 Attachment control switch

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HYDRAULIC HAMMER ATTACHMENT

General Information And Precautions

Special attachments, including the hydraulic hammer are used quite often on some machines. Pay particular attention to the additional precautions listed here when using a hydraulic hammer.

1. Read and understand the machine and the hammer operator's manual before beginning installation or operation
2. Select the right attachment for the job.
3. Follow the recommended, more frequent maintenance schedule for hydraulic oil and filters given later in this section.
4. Follow the recommended installation and operation procedures for the hammer given later in this section
5 Use the machine and attachment for jobs which they are designed to do.

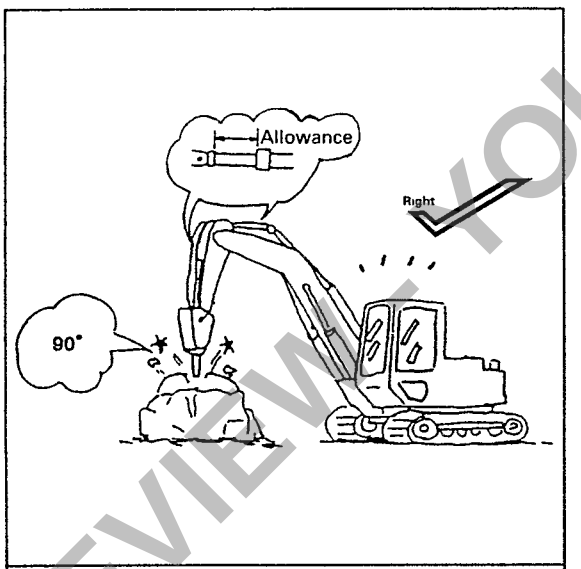


Figure 1
Correct operation.

6. Keep the chisel at a right angle to the surface being broken. Do not operate with any attachment cylinder extended or retracted to the stroke end.

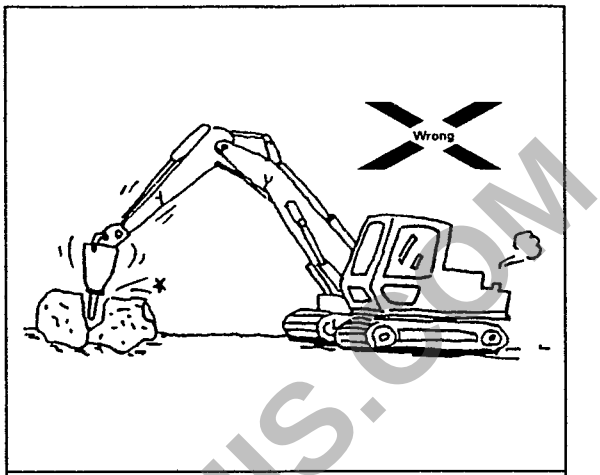


Figure 2
Do not pry.

7. Do not use the hammer to pry. Prying leads to hammer and machine damage.

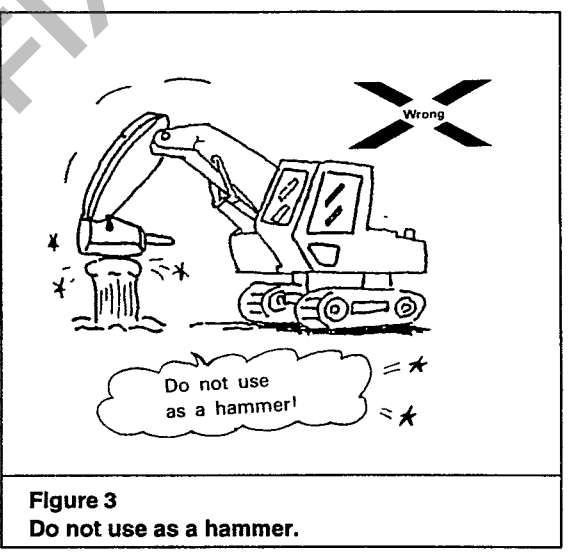


Figure 3
Do not use as a hammer.

8. Use the hammer as a "breaker". Do not use it to "hammer".
9. Do not use the swing force to attempt to break materials. This might damage the swing mechanism.
10. Do not operate the hammer under water. Water will enter the seals and damage the hammer and machine.
11 Do not operate the hammer in the same position for more than 1 minute. If material is not broken in less than 1 minute, change positions. Continued operations in the same position will overheat the hammer (chisel) and the hydraulic oil which will damage the hammer and the machine

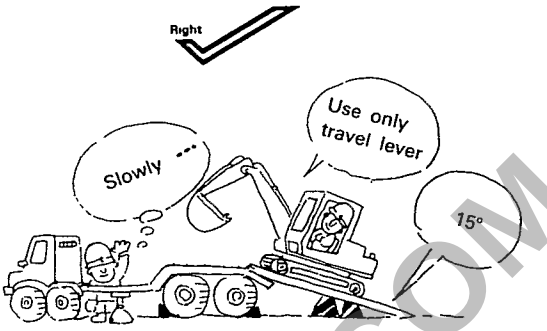
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TRANSPORTATION

Loading

- Be sure to attach the ramp boards

> **⚠ WARNING**
>
> Never attempt to load or unload by jacking up with own attachment instead of using a ramp. This is very hazardous

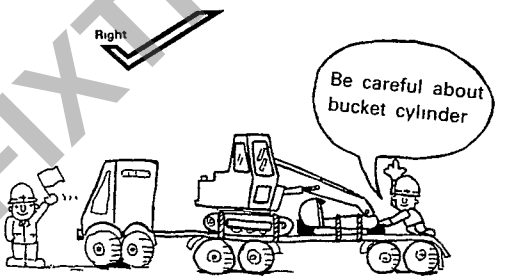


- Do not operate any lever or pedal except travel lever to avoid turning It is very hazardous because the machine may fall Before climbing, determine correct direction and position with sufficiently decreased speed
- When the machine goes over the area between the ramp and the trailer bed, be careful about the machine operation because the center of gravity transfers in that area

> **⚠ WARNING**
>
> Load or unload at sufficiently decreased speed Do not stop halfway

Trailer loading

- Stop the excavator at appropriate position on trailer bed, and swing slowly to transporting position
- Fold the bucket and then arm Place blocks on the bed and lower the boom so that the bucket and arm settle right on the block
- Engage the swing lock and stop the engine, tie the excavator down securely
- It is safest to use the bucket to provide support at 3 different locations
- Do not transport the excavator with any cylinders in fully extended position. Road shocks and flexing of the hauler may damage the cylinder

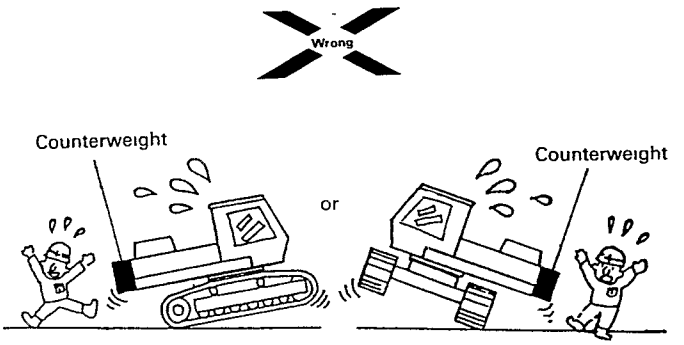


Examine obstruction (road width, height, weight limit of bridge) along the roads you will drive Make sure of the maximum height and study the obstacles on the road before starting

Cautions for removing of front attachment

If the front attachment is removed with the counterweight loaded as shown in the right picture, the center of gravity moves further backward

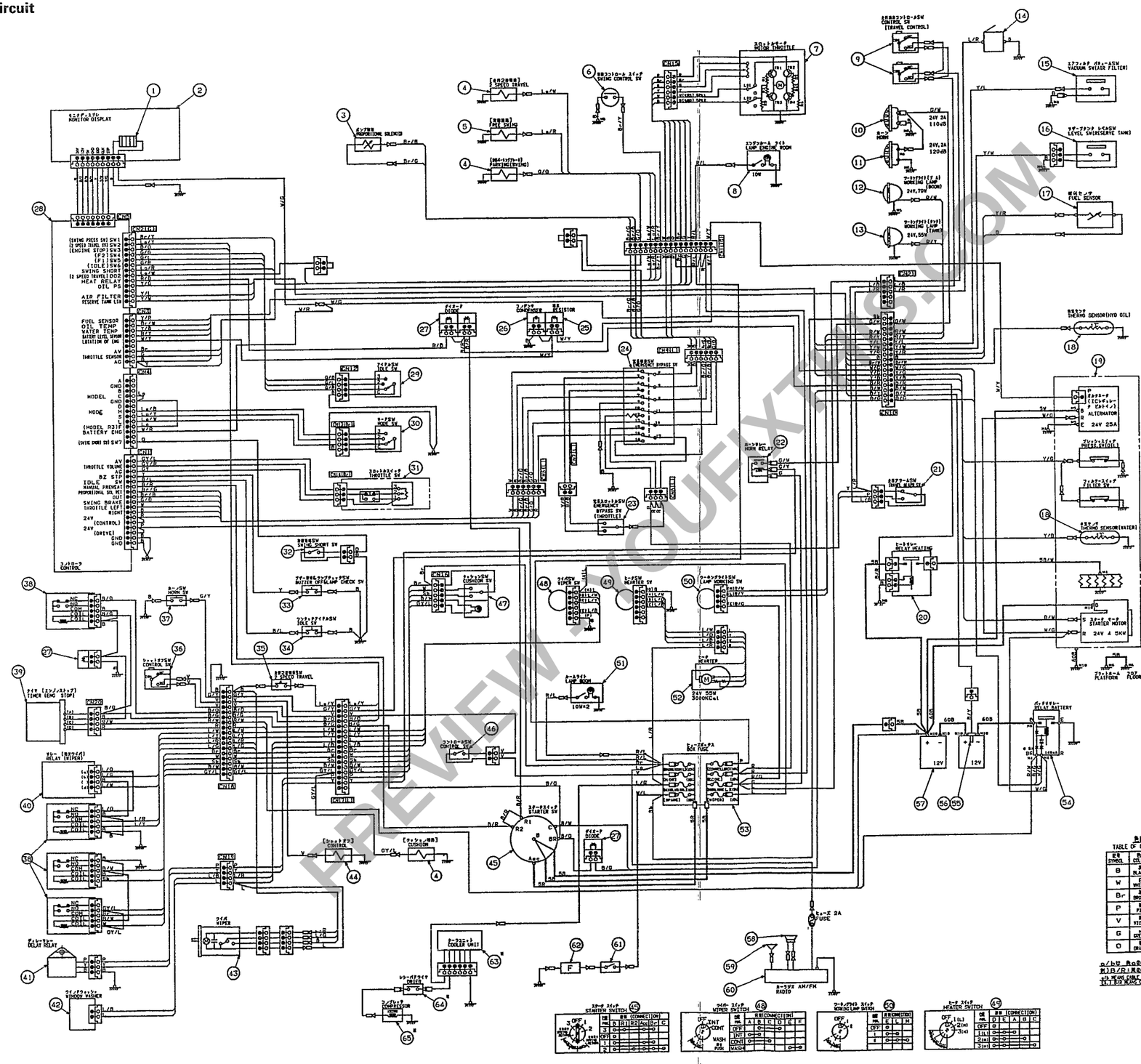
> **⚠ DANGER**
>
> - Never travel or transport the machine in this condition since it is extremely hazardous
> - If necessity to travel the machine with the front attachment removed arises, be sure to remove the counterweight before traveling



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Electric circuit



SYM	DESCRIPTION	QTY
1	METER;HOUR	1
2	MONITOR DISPLAY ASSY	1
3	PUMP;H/D	1
4	VALVE;SOLENOID	3
5	PRESSURE SWITCH;PRESSURE	1
6	MOTOR;THROTTLE	1
7	LAMP;ROOM	1
8	SWITCH;LIMIT	1
9	HORN;ELECTRIC	2
10	HORN;ELECTRIC	1
11	LAMP;WORKING	1
12	LAMP;WORKING	1
13	ALARM;TRAVEL	1
14	SENSOR;VACUUM	1
15	SWITCH;LIMIT	1
16	SENSOR;FUEL	1
17	SENSOR;THERMO	1
18	ENGINE;DIESEL	1
19	RELAY;HEATING	1
20	SWITCH;ROCKER(HORN)	1
21	RELAY;HORN	1
22	SWITCH;TOGGLE	1
23	SWITCH	1
24	RESISTOR	1
25	CONDENSER	1
26	DIODE	1
27	CONTROLLER	1
28	SWITCH;ROTARY(DELI)	1
29	SWITCH;ROTARY(MODE)	1
30	SWITCH;THROTTLE	1
31	SWITCH;ROCKER(SW(HD))	1
32	PUSH BUTTON	1
33	KNOB;SWITCH	1
34	PUSH BUTTON DIMMER	1
35	SWITCH;LIMIT	1
36	KNOB;SWITCH	1
37	RELAY	4
38	TIMER;RELAY RELAY	1
39	RELAY;INTERMIT	1
40	RELAY;DELAY	1
41	WINDOW WASHER TANK	1
42	MOTOR;WIPER	1
43	VALVE;SOLENOID	1
44	SWITCH;STARTER	1
45	SWITCH;ROCKER(CONTROL)	1
46	SWITCH;MAGNETIC(WIPER)	1
47	SWITCH;ROTARY(WIPER)	1
48	SWITCH;ROTARY(HEATER)	1
49	SWITCH;ROTARY(LAMP)	1
50	LAMP;ROOM	1
51	HEATER;CAB	1
52	BOX;FUSE	1
53	RELAY;BATTERY	1
54	BATTERY(SENSOR)	1
55	SENSOR;SPECIAL	1
56	BATTERY	1
57	SPEAKER	1
58	ANTENNA	1
59	RADIO SET	1
60	SWITCH;TOGGLE	1
61	FAN	1
62	COOLER PART [COOLER UNIT]	1
63	COOLER PART [DRIER]	1
64	COOLER PART [COMPRESSOR]	1
65		1

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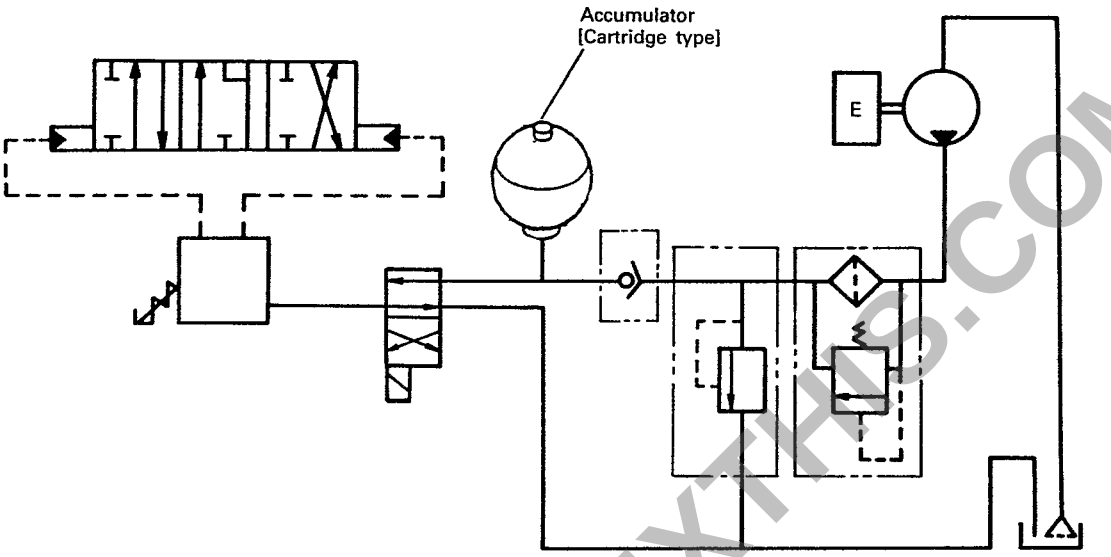
280U2–5558 and after

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Measuring Pressure

Accumulator gas pressure verification

N_2 gas pressure in accumulator should be verified at least twice a year.



Accumulator circuit

⚠ DANGER

1 NEVER weld the accumulator, or open holes in it
2. Always use nitrogen gas for the filler gas NEVER fill with oxygen or any other explosive gas.
3 The pressure of the filler gas should always be kept at the specified pressure.
4 Do not press the core while gas pressure is still being applied It is dangerous, and could also result in damage to the core

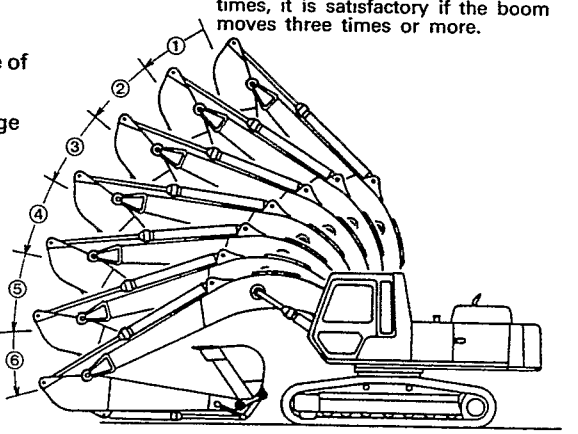
1) Accumulator gas pressure verification

⚠ CAUTION

Assure a sufficient space for boom hoisting/lowering.

a) Start the engine
b) Hoist the boom of the attachment.
c) Stop the engine
d) Turn on the starter switch. Also turn on the control switch.
e) Shift the boom operation lever from "lowering" to "neutral" to verify that the boom moves Repeat this six times (as shown on the right)
f) Judgement
   * If the boom lowers three times or more, the gas pressure of the accumulator is sufficient.
   * If the boom lowers only two times, replace each cartridge proceeding from g) to i).
g) Referring to the previous page, release the hydraulic pressure
h) Remove the accumulator from every cartridge

When the operation lever is shifted from "lowering" to "neutral" six times, it is satisfactory if the boom moves three times or more.



⚠ CAUTION

Don't disassemble the cartridge

i) Install a new accumulator for every cartridge

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