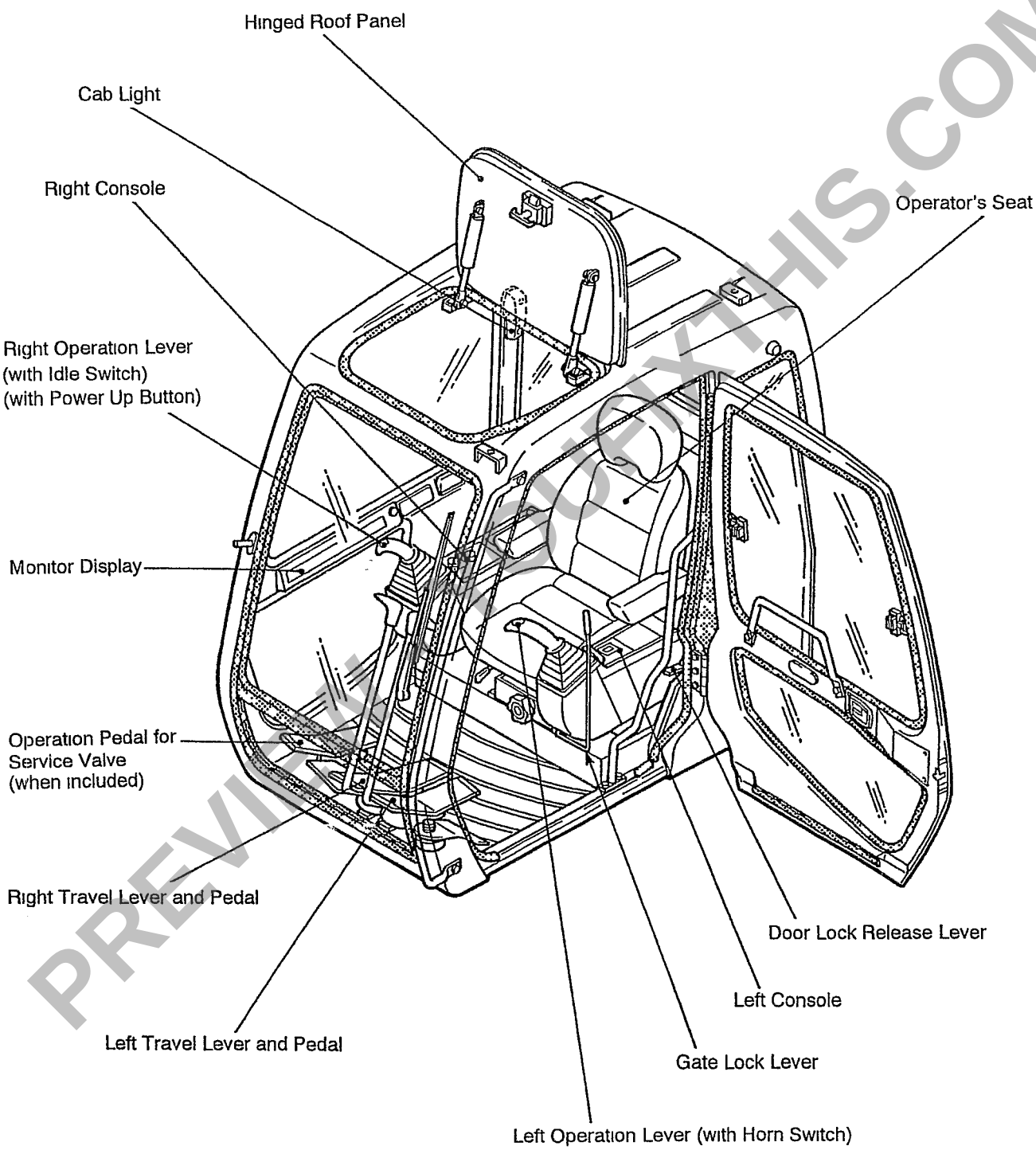
Operator's Cab



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Daily Checks (Inspection Before Start Up)

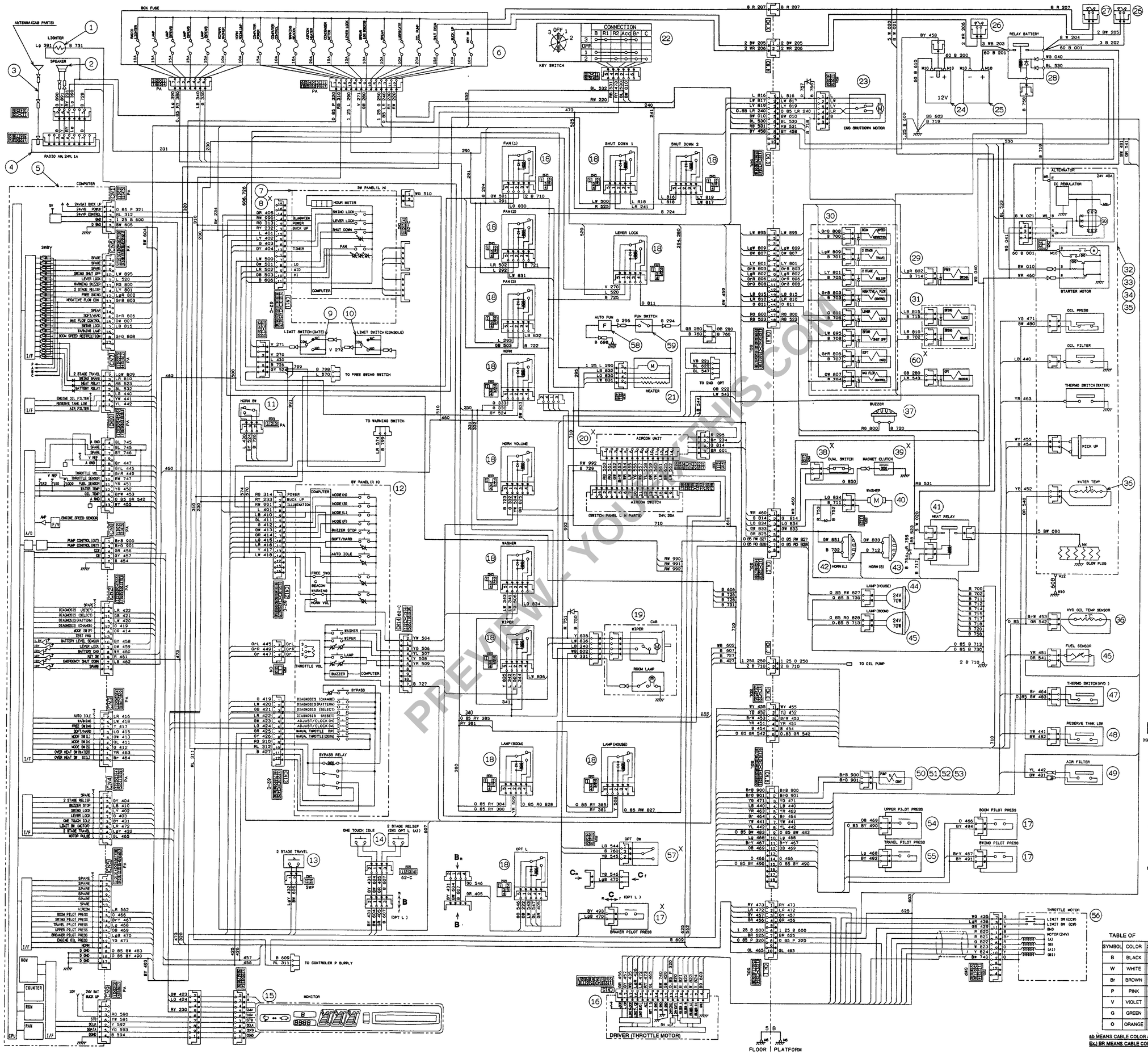
	Section	Work	Items	Remedy	Oil and grease (replacement parts)	Reference item
Check before starting the engine	General	Inspection and maintenance	1 Water and oil leakage 2 Loose bolts and nuts 3 Dust accumulation 4 Visual damage and deformation	 Tighten Clean 		 Bolt
	Engine		1. Amount of engine oil and its cleanliness 2. Amount of coolant 3 Damage and clogging of radiator and oil cooler 4 Tension of V-belts 5 Clogging and cleanliness of air cleaner element 6 Oil and water leakage of each part, damage of hoses and pipes	Refill or replace Refill Repair or clean Clean or replace 	Engine oil Soft water Element 	Engine Engine Engine Engine Engine
	Upper structure		1. Amount of fuel in fuel tank 2. Amount of oil in hydraulic oil tank 3. Cleanliness of hydraulic oil 4. Oil and water leakage of each part, damage of hoses and pipes 5. Deformation and damage of each part 6. Breakage, short circuit and loose terminals in the electrical wiring	Refill Refill 	Diesel fuel Hydraulic oil 	Fuel Hydraulic oil
	Crawler		1 Looseness, wear and breakage of shoe 2 Oil leakage and wear of upper and lower rollers and idlers 3. Looseness of mounting bolts, missing bolts	 	 	 Travel mechanism Travel mechanism
	Working component		1 Oil leakage and damage of the cylinders and hoses and pipes 2 Wear and damage to the bucket 3 Looseness, wear and damage to bucket teeth 4. Greasing condition of front attachment 5 Looseness of mounting bolts, missing bolts	 	 Extreme pressure grease 	 Bucket Bucket Attachment
Check after starting the engine	General	Inspection and maintenance	1 Ease of starting, exhaust color and unusual noise of engine 2 Operation and unusual noise of hydraulic components 3. Oil and water leakage of each part 4. Operation of horn, buzzer, lamps, windshield wipers and monitor panel 5 Operation and performance (travel, swing and attachments) 6 Operation of swing brake			

The inspection method for the main items are given in the section on Daily Checks

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Electric Circuit Diagram



SYM	DESCRIPTION	QTY
1	LIGHTER	1
2	SPEAKER	1
3	CORD, ANTENNA	1
4	RADIO, SET	1
5	CONTROLLER	1
6	BOX, FUSE	1
7	PANEL, SWITCH (LH)	1
※ 8	PANEL, SWITCH (LH)	1
9	SWITCH, LIMIT	1
10	SWITCH, LIMIT	1
11	KNOB (SWITCH)	1
12	PANEL, SWITCH (RH)	1
13	SWITCH, SPL	1
14	KNOB (SWITCH)	1
15	MONITOR	1
16	DRIVER (THROTTLE MOTOR)	1
17	SWITCH, PRESS	3
18	RELAY	11
19	CAB	1
※ 20	AIR CONDITIONER (UNIT)	1
21	HEATER	1
22	SWITCH, STARTER	1
23	MOTOR, STOP	1
24	BATTERY	1
25	BATTERY	1
26	FUSE	2
27	FUSE	1
28	RELAY, BATTERY	1
29	VALVE, SOLENOID	1
30	VALVE, SOLENOID	1
31	VALVE, SPL	1
32	ENGINE, DIESEL	1
33	ENGINE, DIESEL	1
34	ENGINE, DIESEL	1
35	ENGINE, DIESEL	1
36	SENSOR, THERMO	2
37	ALARM, SPL	1
※ 38	COOLER PART (DRIER)	1
※ 39	COOLER PART (COMPRESSOR)	1
40	TANK, WASHER	1
41	RELAY, HEATING	1
42	HORN (L)	1
43	HORN (S)	1
44	LAMP, WORKING (HOUSE)	1
45	LAMP, WORKING (BOOM)	1
46	SENSOR, FUEL	1
47	SWITCH, THERMO	1
48	SWITCH, LEVEL	1
49	SENSOR, VACUUM	1
50	PUMP, HYD	1
51	PUMP, HYD	1
52	PUMP HYD	1
53	PUMP HYD	1
54	SWITCH, PRESS	1
55	SWITCH, PRESS	1
56	MOTOR, THROTTLE	1
※ 57	SWITCH, SPL	1
58	FAN, AUTO	1
59	SWITCH, FAN	1
※ 60	VALVE, SOLENOID	1

NOTES

1) THIS CIRCUIT IS WRITTEN FOR 2650Q 2700Q, 2800Q 3400Q
2) X IS OPTION
3) EARTH LINE SYMBOLS AND CROSS POINT OF LINES IN THIS DRAWING SHOWS THE FOLLOWING

HARNESS | BODY EARTH | EARTH WITH CABLE | CONNECTED TO EACH OTHER | NOT CONNECTED EACH OTHER

4) THE SYMBOL AT EACH LINE SHOWS COLOR OF CABLE AND THE FIGURE BEFORE THE SYMBOL SHOWS THE CIRCUIT No AND THE AREA OF CABLE THE AREA OF CABLE NOT INDICATED IS 0 5mm²

EX. AREA COLOR CIRCUIT NO — 60 B 001

5) THE SYMBOL OF CONNECTOR IN THIS DRAWING SHOWS THE FOLLOWING

FEMALE TERMINAL | MALE TERMINAL

CN ( ) — CONNECTOR NO | COLOR OF CONNECTOR (COLOR NOT INDICATED IS W

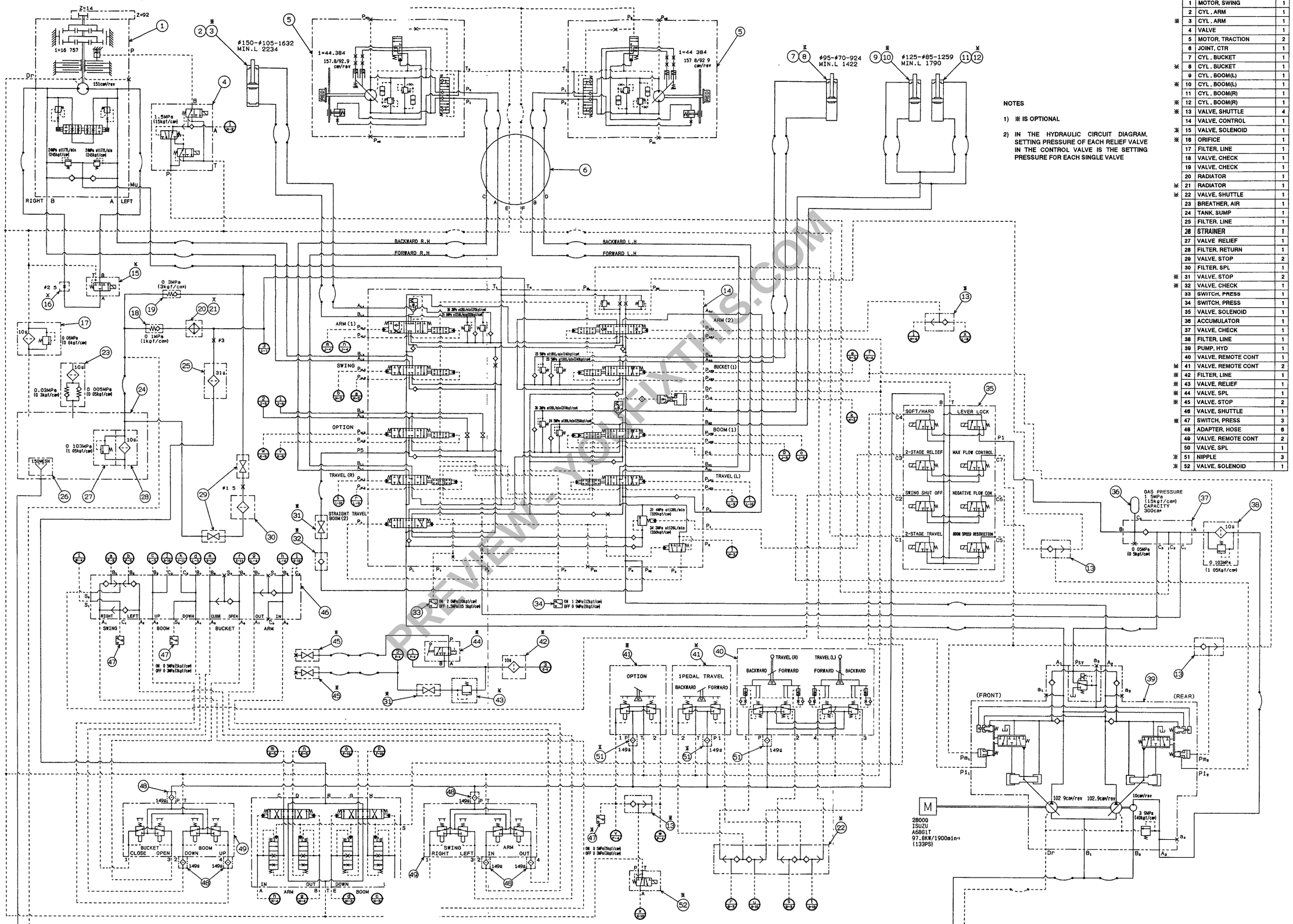
TABLE OF R SYMBOLS			
SYMBOL	COLOR	SYMBOL	COLOR
B	BLACK	R	RED
W	WHITE	Y	YELOW
Br	BROWN	Lg	LIGHT GREEN
P	PINK	Sb	SKY BLUE
V	VIOLET	L	BLUE
G	GREEN	Gr	GRAY
O	ORANGE		

ab MEANS CABLE COLOR a STRIPED BY b.
Ex) BR MEANS CABLE COLOR BLACK STRIPED BY RED

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Hydraulic Circuit Diagram



SYM	DESCRIPTION	QTY
1	MOTOR, SWING	1
2	CYL , ARM	1
※ 3	CYL , ARM	1
4	VALVE	1
5	MOTOR, TRACTION	2
6	JOINT, CTR	1
7	CYL , BUCKET	1
※ 8	CYL , BUCKET	1
9	CYL , BOOM(L)	1
※ 10	CYL , BOOM(L)	1
11	CYL , BOOM(R)	1
※ 12	CYL , BOOM(R)	1
※ 13	VALVE, SHUTTLE	4
14	VALVE, CONTROL	1
※ 15	VALVE, SOLENOID	1
※ 16	ORIFICE	1
17	FILTER, LINE	1
18	VALVE, CHECK	1
19	VALVE, CHECK	1
20	RADIATOR	1
※ 21	RADIATOR	1
※ 22	VALVE, SHUTTLE	1
23	BREATHER, AIR	1
24	TANK, SUMP	1
25	FILTER, LINE	1
26	STRAINER	1
27	VALVE RELIEF	1
28	FILTER, RETURN	1
29	VALVE, STOP	2
30	FILTER, SPL	1
※ 31	VALVE, STOP	2
※ 32	VALVE, CHECK	1
33	SWITCH, PRESS	1
34	SWITCH, PRESS	1
35	VALVE, SOLENOID	1
36	ACCUMULATOR	1
37	VALVE, CHECK	1
38	FILTER, LINE	1
39	PUMP, HYD	1
40	VALVE, REMOTE CONT	1
※ 41	VALVE, REMOTE CONT	2
※ 42	FILTER, LINE	1
※ 43	VALVE, RELIEF	1
※ 44	VALVE, SPL	1
※ 45	VALVE, STOP	2
46	VALVE, SHUTTLE	1
※ 47	SWITCH, PRESS	3
48	ADAPTER, HOSE	6
49	VALVE, REMOTE CONT	2
50	VALVE, SPL	1
※ 51	NIPPLE	3
※ 52	VALVE, SOLENOID	1

NOTES

1) ※ IS OPTIONAL

2) IN THE HYDRAULIC CIRCUIT DIAGRAM, SETTING PRESSURE OF EACH RELIEF VALVE IN THE CONTROL VALVE IS THE SETTING PRESSURE FOR EACH SINGLE VALVE

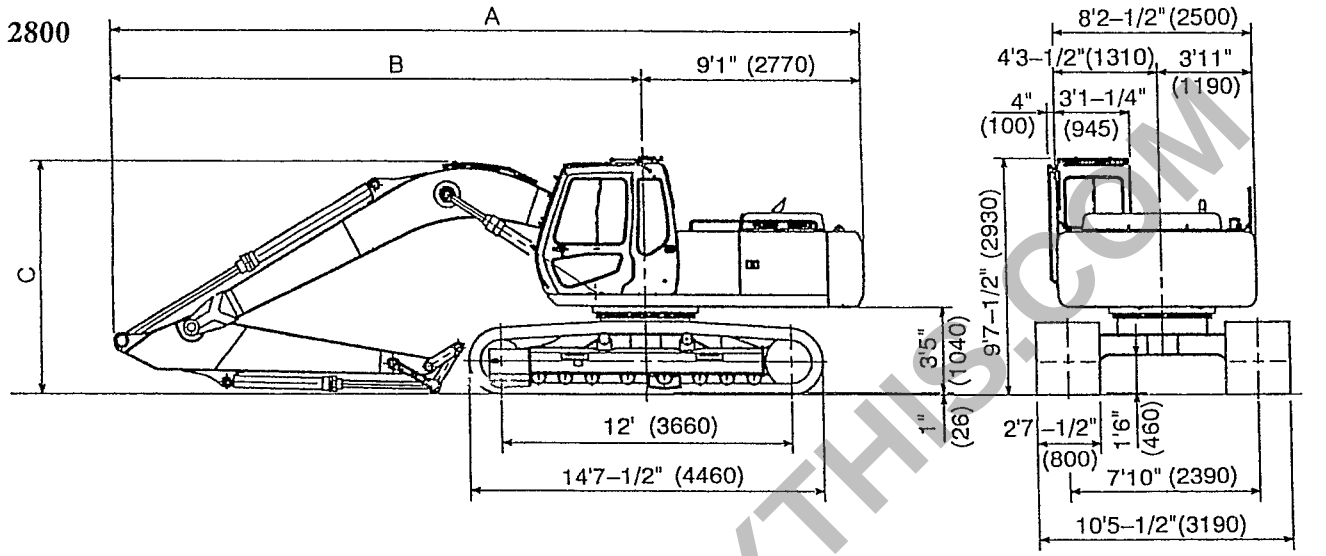
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[2800LF]

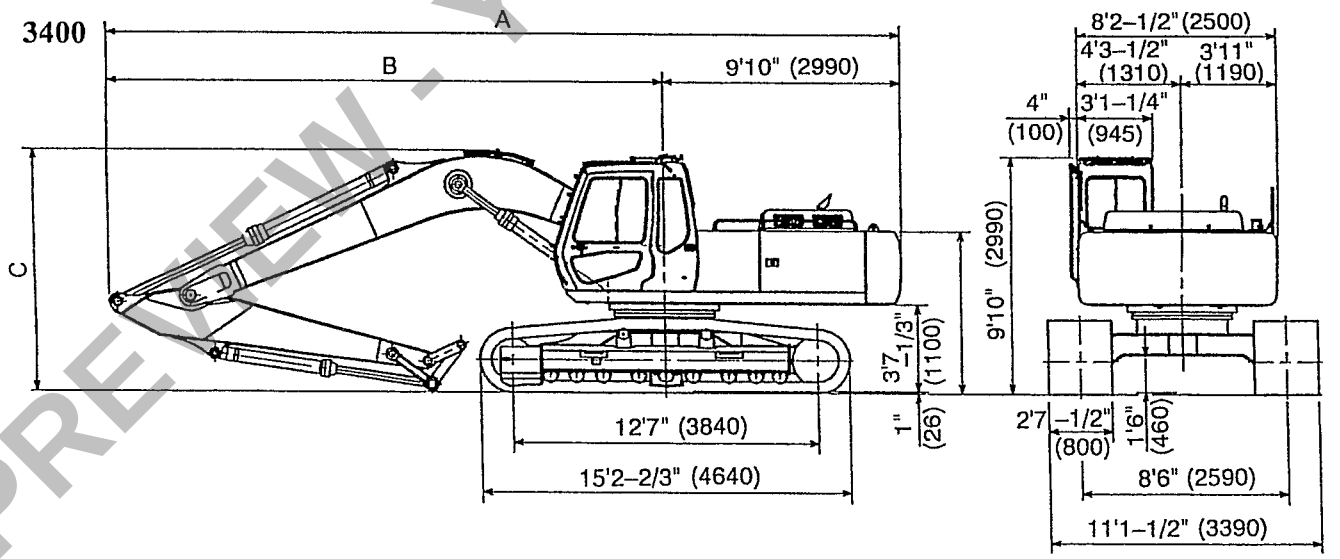
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TRANSPORTATION DIMENSIONS

■ Dimensions During Transportation in. (mm)



Arm Type	Weight	A	B	C
7' 10–1/2" (2 4 m)	426001b (19 5ton)	31' 4"–1/2" (9,560mm)	22' 3–1/2" (6,790mm)	10' 1/2" (3,060mm)
9' 10" (3 0 m)	426001b (19 5ton)	31' (9,440mm)	21' 11" (6,670mm)	9' 5" (2,860mm)
21' (6 4 m) LR	471001b (21 4ton)	41' 11" (12,520mm)	32' (9,750mm)	9' 1" (2,770mm)

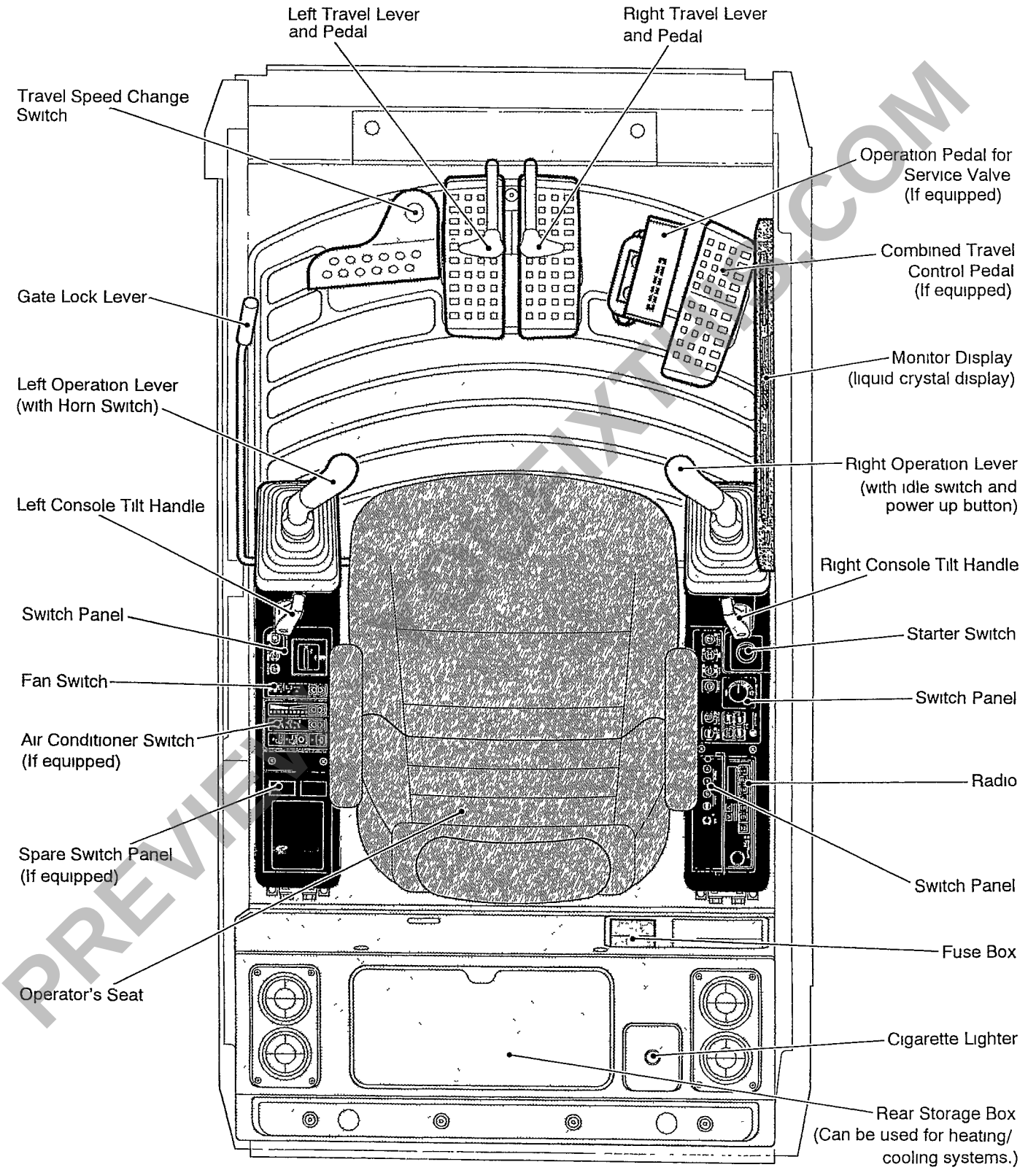


Arm Type	Weight	A	B	C
7' 10–1/2" (2 4 m)	515001b (23 4ton)	33' (10,060mm)	23' 2–1/2" (7,070mm)	10' 7" (3,225mm)
10' 2" (3 1 m)	518001b (23 5ton)	32' 8" (9,960mm)	22' 10–1/2" (6,970mm)	10' (3,050mm)
11' 6" (3 5 m)	520001b (23 6ton)	32' 10" (10,010mm)	23' 1/2" (7,020mm)	10' 7" (3,220mm)
25' 11" (7 9 m) LR	582001b (26 4ton)	47" 7" (14,500mm)	37' 9" (11,510mm)	10' 2–1/2" (3,110mm)

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Operator's Cab



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Regular Inspection and Maintenance Check List

Perform inspection and maintenance at the shorter of the time intervals listed below.

50 hours (every week) 500 hours (every 3 months) 3000 hours (every 1 5 years)
250 hours (every month) 1000 hours (every 6 months) 5000 hours (every 2 5 years)

Section	Inspection and maintenance point	Inspection and maintenance time interval						Oil/Grease/Replacement	Remark
		50	250	500	1000	3000	5000		
	Attachment greasing (other than EMS)	○						Extreme pressure grease	*1
Engine	Water drainage from fuel tank	×							
	Water separator	×							
	Fuel filter			◎				Element	
	Engine oil			◎				Engine oil	
	Engine oil filter (2)			◎				Element	
	Check and adjustment of V-belts		■						
	Radiator coolant	Every 2 years (when using long life coolant)						Long life coolant	*2
	Cleaning of radiator fins		□						
	Air cleaner element		□		◎			Element	
	Retightening of nuts and bolts	△	■						
Upper Structure	Drainage of sediment in the hydraulic oil tank		×						
	Nephron filter				◎			Element	
	Replacement of hydraulic oil						◎	Hydraulic oil	
	Pilot oil filter	△			◎			Element	
	Return filter	△			◎			Element	
	Drain filter	△			◎			Element	
	Suction filter				□		◎	Element	
	Air breather				◎			Element	
	Retightening of hoses	■							
	Battery check		■						
	Turntable bearing		○					Extreme pressure grease	
	Turntable bearing teeth			○				Extreme pressure grease	
	Gear oil of swing reduction gear		△	■	◎			Gear oil	
	Greasing of swing reduction gear					○		Extreme pressure grease	
Crawler	Travel motor, gear oil		△	■	◎			Gear oil	
	Upper roller, take up roller		■					Engine oil	
	Lower roller		■					Gear oil	
Others	Air conditioner (if equipped)		■						*3
	Clearance adjustment of bucket mounting pin			*1 As required					
	Tension adjustment of track shoe			*1 As required					
	Line filter (if equipped)		■		◎			Element	*3

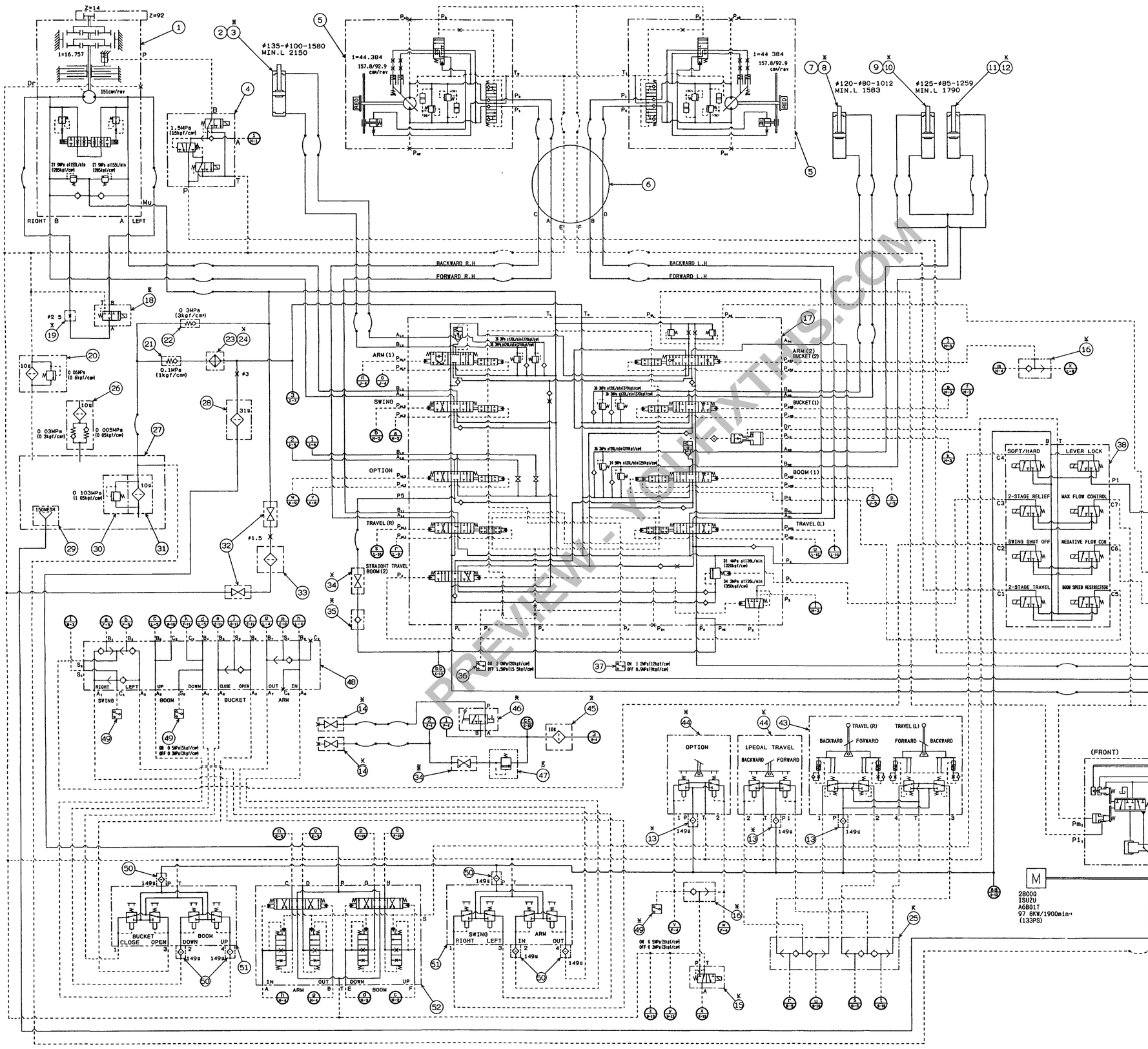
○: Supply and refill grease
△ Initial replacement and inspection
◎. Replacement of oil or element
□ Cleaning
×· Water drainage and sediment discharge
■· Retightening, inspection and adjustment

Remarks
*1 When working in water or wet areas, grease daily
*2 Replace every 500 hours when tap water is used.
*3 If equipped

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Hydraulic Circuit Diagram



SYM	DESCRIPTION	QTY
	1 MOTOR, SWING	1
	2 CYL , ARM	1
※	3 CYL , ARM	1
	4 VALVE, ASSEMBLE	1
	5 MOTOR, TRACTION	2
	6 JOINT, CTR	1
	7 CYL , BUCKET	1
※	8 CYL , BUCKET	1
	9 CYL , BOOM(L)	1
※	10 CYL , BOOM(L)	1
	11 CYL , BOOM(R)	1
※	12 CYL , BOOR(R)	1
※	13 NIPPLE	3
※	14 VALVE, STOP	2
※	15 VALVE, SOLENOID	1
※	16 VALVE, SHUTTLE	2
	17 VALVE, CONTROL	1
※	18 VALVE, SOLENOID	1
※	19 ORIFICE	1
	20 FILTER, LINE	1
	21 VALVE, CHECK	1
	22 VALVE, CHECK	1
	23 RADIATOR	1
※	24 RADIATOR	1
	25 VALVE SHUTTLE	1
	26 BREATHER, AIR	1
	27 TANK, SUMP	1
	28 FILTER, LINE	1
	29 STRAINER	1
	30 VALVE, RELIEF	1
	31 FILTER, RETURN	1
	32 VALVE, STOP	2
	33 FILTER, SPL	1
※	34 VALVE, STOP	2
※	35 VALVE, CHECK	1
	36 SWITCH, PRESS	1
	37 SWITCH, PRESS	1
	38 VALVE, SOLENOID	1
	39 ACCUMULATOR	1
	40 VALVE, CHECK	1
	41 FILTER, LINE	1
	42 PUMP, HYD	1
	43 VALVE, REMOTE CONT	1
※	44 VALVE, REMOTE CONT	2
※	45 FILTER, LINE	1
※	46 VALVE, SPL	1
※	47 VALVE, RELIEF	1
	48 VALVE, SHUTTLE	1
※	49 SWITCH, PRESS	3
	50 ADAPTER, HOSE	6
	51 VALVE, REMOTE CONT	2
※	52 VALVE, SPL	1

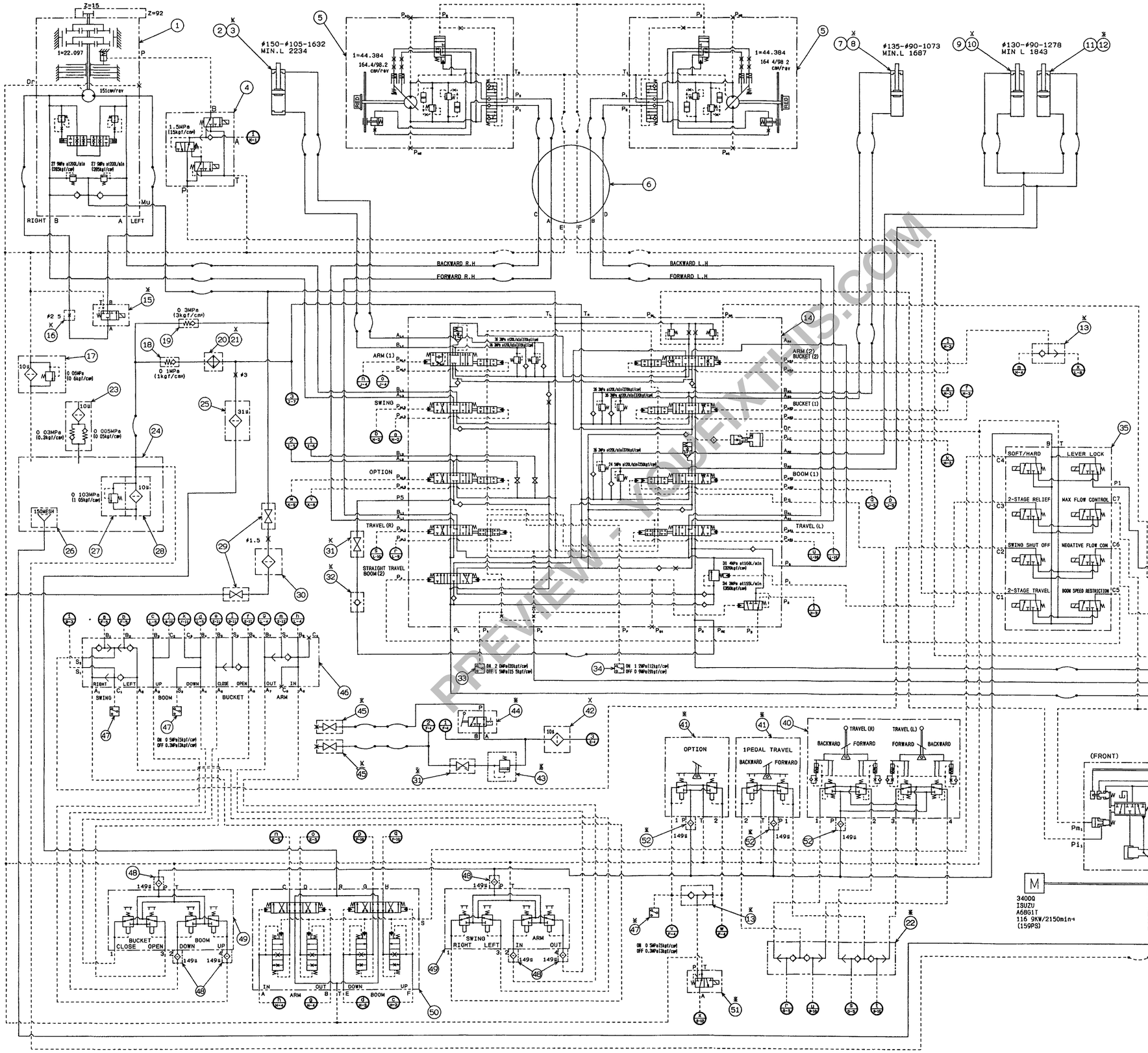
NOTES
1) ※ IS OPTIONAL

2) IN THE HYDRAULIC CIRCUIT DIAGRAM, SETTING PRESSURE OF EACH RELIEF VALVE IN THE CONTROL VALVE IS THE SETTING PRESSURE FOR EACH SINGLE VALVE

[2800Q]

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Hydraulic Circuit Diagram



SYM	DESCRIPTION	QTY
1	MOTOR, SWING	1
2	CYL , ARM	1
※ 3	CYL , ARM	1
4	VALVE	1
5	MOTOR, TRACTION	2
6	JOINT, CTR	1
7	CYL , BUCKET	1
※ 8	CYL , BUCKET	1
9	CYL , BOOM(L)	1
※ 10	CYL , BOOM(L)	1
11	CYL , BOOM(R)	1
※ 12	CYL , BOOM(R)	1
※ 13	VALVE, SHUTTLE	3
14	VALVE CONTROL	1
※ 15	VALVE, SOLENOID	1
※ 16	ORIFICE	1
17	FILTER, LINE	1
18	VALVE, CHECK	1
19	VALVE, CHECK	1
20	RADIATOR	1
※ 21	RADIATOR	1
※ 22	VALVE, SHUTTLE	1
23	BREATHER, AIR	1
24	TANK, SUMP	1
25	FILTER, LINE	1
26	STRAINER	1
27	VALVE, RELIEF	1
28	FILTER, RETURN	1
29	VALVE, STOP	2
30	FILTER, SPL	1
※ 31	VALVE, STOP	2
※ 32	VALVE, CHECK	1
33	SWITCH, PRESS	1
34	SWITCH, PRESS	1
35	VALVE, SOLENOID	1
36	ACCUMULATOR	1
37	VALVE, CHECK	1
38	FILTER, LINE	1
39	PUMP, HYD	1
40	VALVE, REMOTE CONT	1
※ 41	VALVE, REMOTE CONT	2
※ 42	FILTER, LINE	1
※ 43	VALVE, RELIEF	1
※ 44	VALVE, SPL	1
※ 45	VALVE, STOP	2
46	VALVE, SHUTTLE	1
※ 47	SWITCH, PRESS	3
48	ADAPTER, HOSE	6
49	VALVE, REMOTE CONT	2
50	VALVE, SPL	1
※ 51	VALVE, SOLENOID	1
※ 52	NIPPLE	3

NOTES

1) ※ IS OPTIONAL

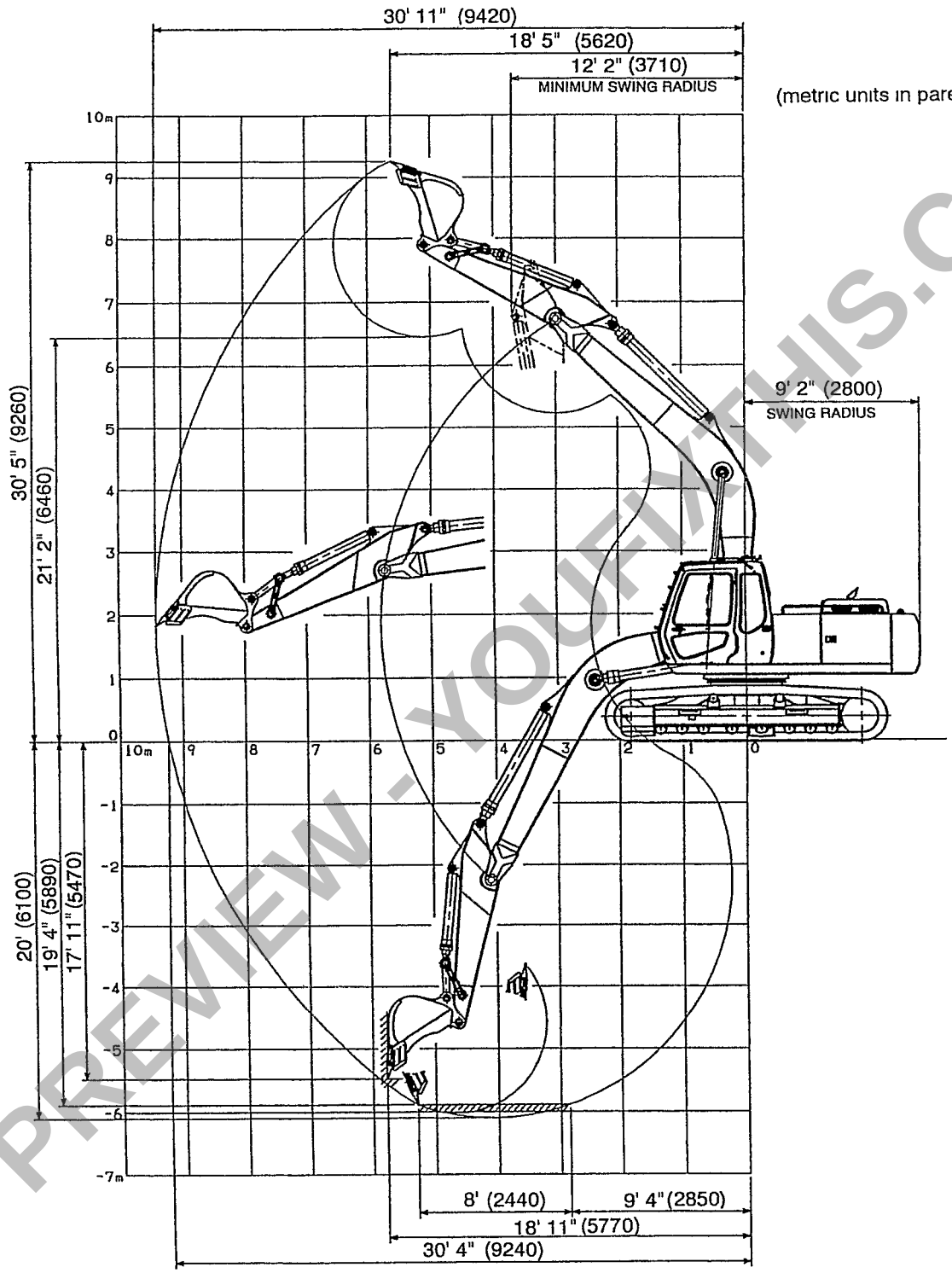
2) IN THE HYDRAULIC CIRCUIT DIAGRAM, SETTING PRESSURE OF EACH RELIEF VALVE IN THE CONTROL VALVE IS THE SETTING PRESSURE FOR EACH SINGLE VALVE

[3400Q]

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WORK RANGE 2800 7' 10" (2.4m) ARM



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Safety notice symbol

This symbol represents "safety notice"
When this mark is on a plate or decal on the excavator or in this manual, be especially careful. According to the following contents, take preventive actions and operate safely



Signal words

The signal words are "danger", "warning" and "caution" according to the level of danger
They are used together with the safety notice symbols to notify the following states

- The plates and decals on the excavator are classified accordingly.
  Check them carefully

⚠ DANGER

An operating procedure, practice, etc. which, if not correctly followed, may result in severe personal injury, dismemberment or loss of life.

⚠ WARNING

An operating procedure, practice, etc. which, if not correctly followed, may result in personal injury.

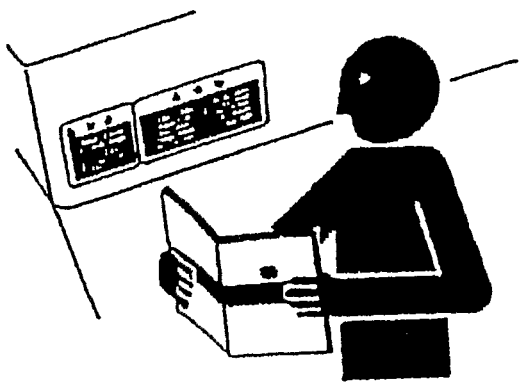
⚠ CAUTION

An operating procedure, practice, etc. which, if not correctly followed, may result in damage to or destruction of equipment or property.

Observation of safety notices

Read and fully understand the caution notices in this manual and on the excavator.

- Always keep the caution plates clean
- If any caution plate is missing or unreadable, replace it with a new one
- Completely master the proper operation
- Control the excavator in the proper state.
  Don't modify the excavator Modifications may affect the safety or reduce the function and service life of the machine



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