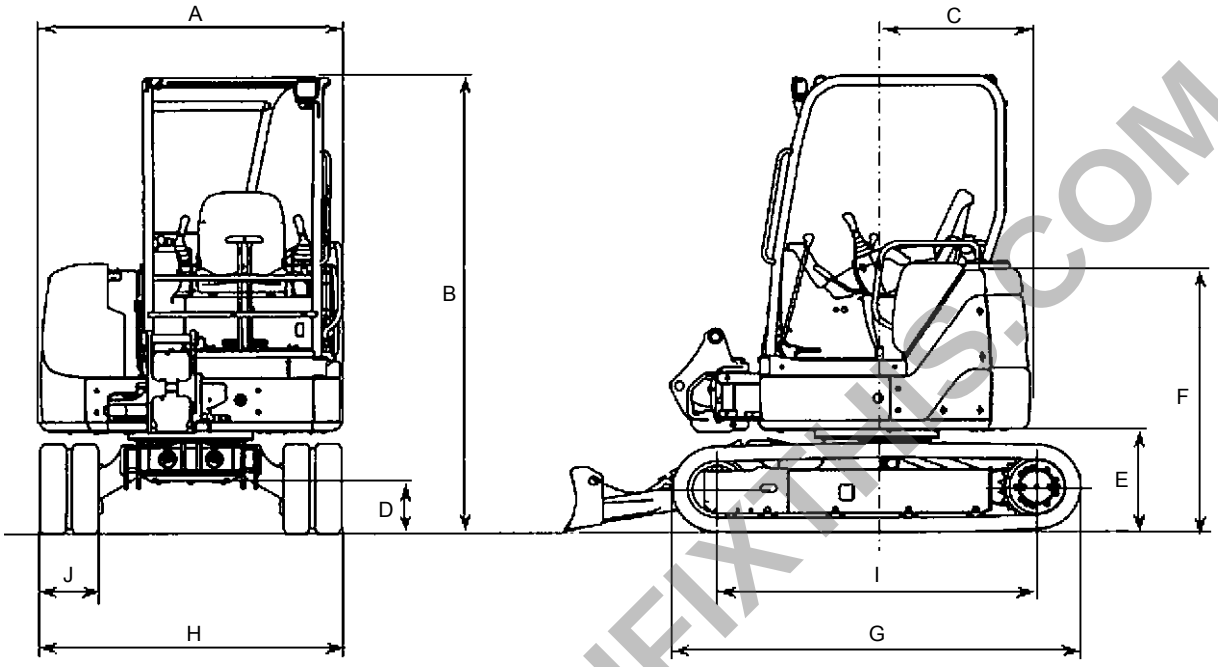
SPECIFICATIONS

ZX27U-3 class



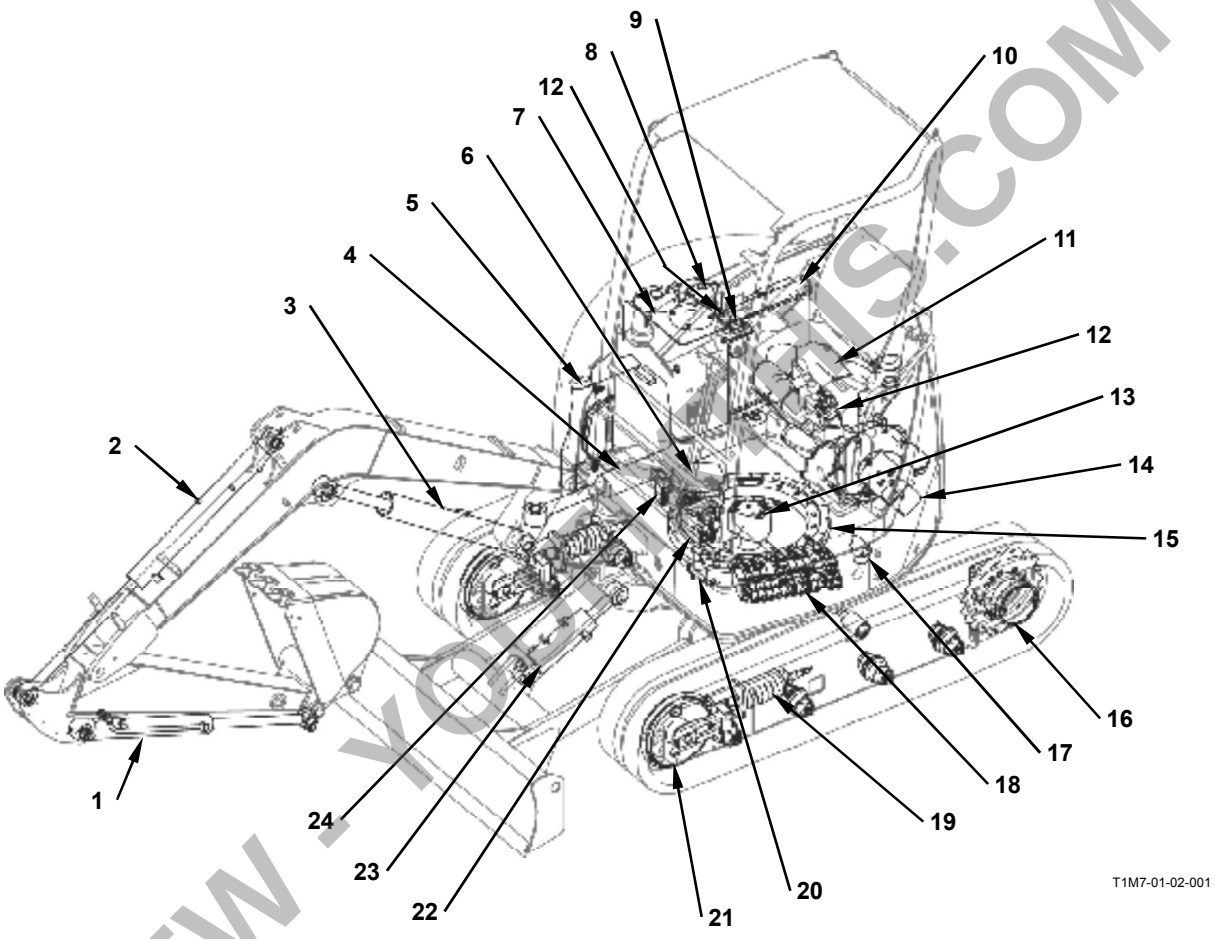
M1M7-12-002

Type		ZX27U-3 class	
		Canopy	Cab
Type of Front-End Attachment		Boom Swing Type	
Bucket Capacity (Heaped)	m^3 (yd^3)	0.08 (0.10)	
Operating Weight	kg (lb)	2840 (6260)	3010 (6640)
Base Machine Weight	kg (lb)	2130 (4700)	2300 (5070)
Engine	kW/min^{-1} (PS/rpm)	Yanmar EDM-3TNV88 19.7/2200 (26.8/2200)	
A: Overall Width	mm (ft·in)	1550 (5′1″)	
B: Overall Height	mm (ft·in)	2460 (8′1″)	2500 (8′2″)
C: Rear-End Swing Radius	mm (ft·in)	775 (2′7″)	
D: Minimum Ground Clearance	mm (ft·in)	320 (1′1″)	
E: Counterweight Clearance	mm (ft·in)	550 (1′10″)	
F: Engine Cover Height	mm (ft·in)	1420 (4′8″)	
G: Undercarriage Length	mm (ft·in)	1950 (6′5″)	
H: Undercarriage Width	mm (ft·in)	1550 (5′1″)	
I: Sprocket Center to Idler Center	mm (ft·in)	1490 (4′11″)	
J: Track Shoe Width	mm (ft·in)	300 (1′0″) (Rubber Crawler)	
Ground Pressure	kPa (kgf/cm^2, psi)	28 (0.29, 4.1)	30 (0.31, 4.4)
Swing Speed	min^{-1} (rpm)	9.1 (9.1)	
Travel Speed (fast/slow)	km/h (mph)	4.5/2.6 (2.8/1.6)	
Gradeability		30° (tan θ = 0.58)	

NOTE: The dimensions do not include the height of the shoe lug.

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MAIN COMPONENT LAYOUT



1 - Bucket Cylinder
2 - Arm Cylinder
3 - Boom Cylinder
4 - Boom Swing Cylinder
5 - Fuel Tank
6 - Swing Device
7 - Hydraulic Oil Tank
8 - Reserve Tank
9 - Blade Pilot Valve
10 - Radiator / Oil Cooler
11 - Engine
12 - Front Attachment / Swing Pilot Valve
13 - Center Joint
14 - Pump Device
15 - Swing Bearing
16 - Travel Device
17 - Pilot Filter
18 - Control Valve
19 - Track Adjuster
20 - 2-Spool Solenoid Valve
21 - Front Idler
22 - Travel Pilot Valve
23 - Blade Cylinder
24 - Boom Swing Pilot Valve

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INTRODUCTION

Troubleshooting charts shown in this section indicate the orderly procedures for inspecting and finding out the cause(s) of problems in the machine.

This section is comprised of five groups: Diagnosing Procedure, Troubleshooting A (diagnosis of machine by system failure indicator) (only ZX30U-3 class / 35U-3 class), Troubleshooting B (diagnosis of machine by symptom), Troubleshooting C (diagnosis of monitor), and Electric System Inspection.

- Diagnosing Procedure

- Troubleshooting A (diagnosis of machine by system failure indicator) (only ZX30U-3 class / 35U-3 class)
  This procedure is used when system failure indicator of the monitor flickers or is lit.

  Example) System failure indicator: Flickering every 1 second (engine control dial wire breakage and shortcircuit)

- Troubleshooting B (diagnosis of machine by symptom)
  This procedure is used for diagnosis by symptoms.
  This is used in case flickering and lighting do not take place after diagnosis by system failure indicator.

  Example: Even if the engine control dial is rotated, engine speed remains unchanged.

- Troubleshooting C (diagnosis of monitor)
  This procedure is used when there are malfunction on components regarding monitor, such as gauges or indicators.

  Example: Fuel gauge is not operated.

- Electrical System Inspection
  This procedure is used when the information on precaution for electrical system inspection or inspection method is needed.

  Example: Fuse inspection

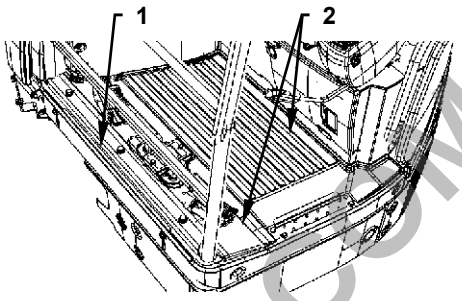
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REMOVAL AND INSTALLATION OF 4-PILLAR CANOPY

Removal

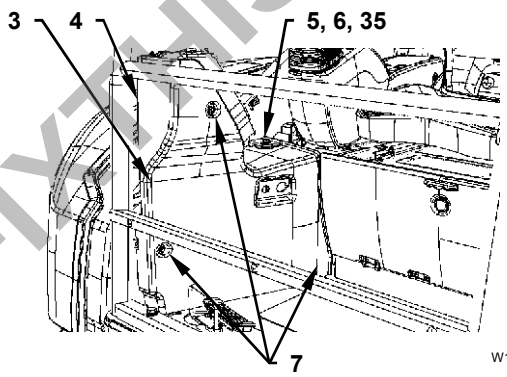
1. Remove floor mats (2) (2 used) from frame (1).



W1ND-02-01-001

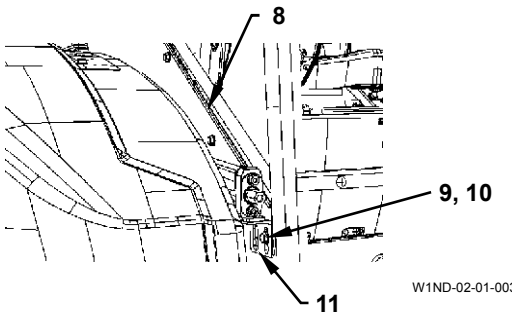
2. Remove bolt (5) and washers (6, 35) from cover (3).
   : 13 mm

3. Remove screws (7) (3 used) from cover (3). Remove cover (3) from duct (4).



W1ND-02-01-002

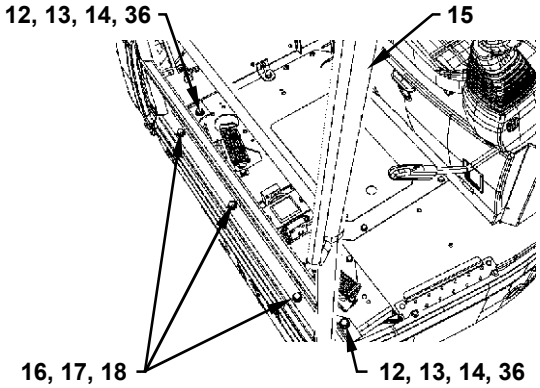
4. Remove bolt (9) and washer (10) from bracket (11). Remove bracket (11) from cover (8).
   : 13 mm



W1ND-02-01-003

5. Remove bolts (12) (2 used), washers (13) (2 used), washers (36) (2 used), and collars (14) (2 used) from canopy (15).
   : 17 mm

6. Remove bolts (16) (3 used), washers (17) (3 used), and spacers (18) (3 used) from canopy (15).
   : 17 mm

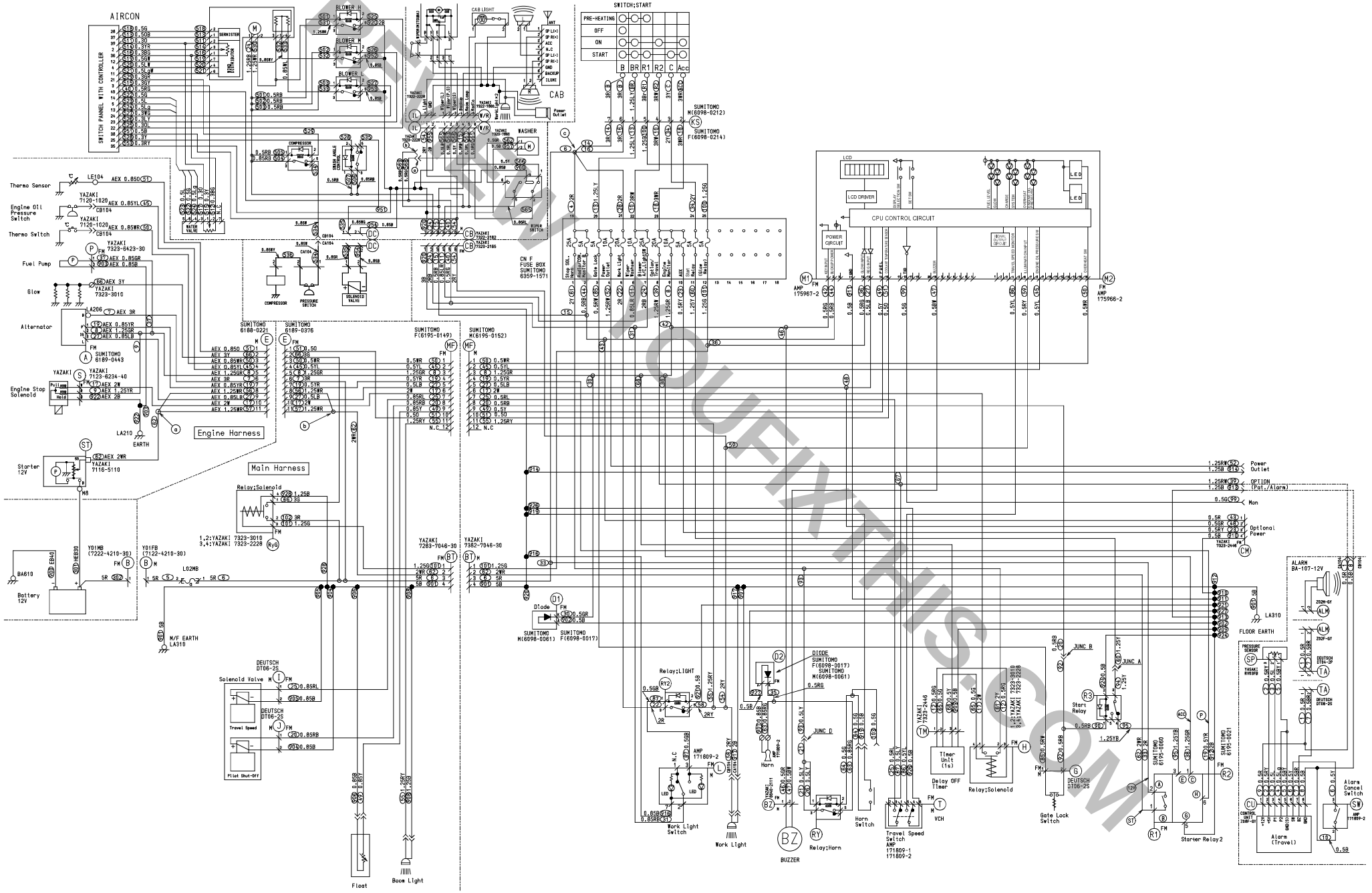


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ZX27U-3 ELECTRICAL CIRCUIT DIAGRAM (Standard)



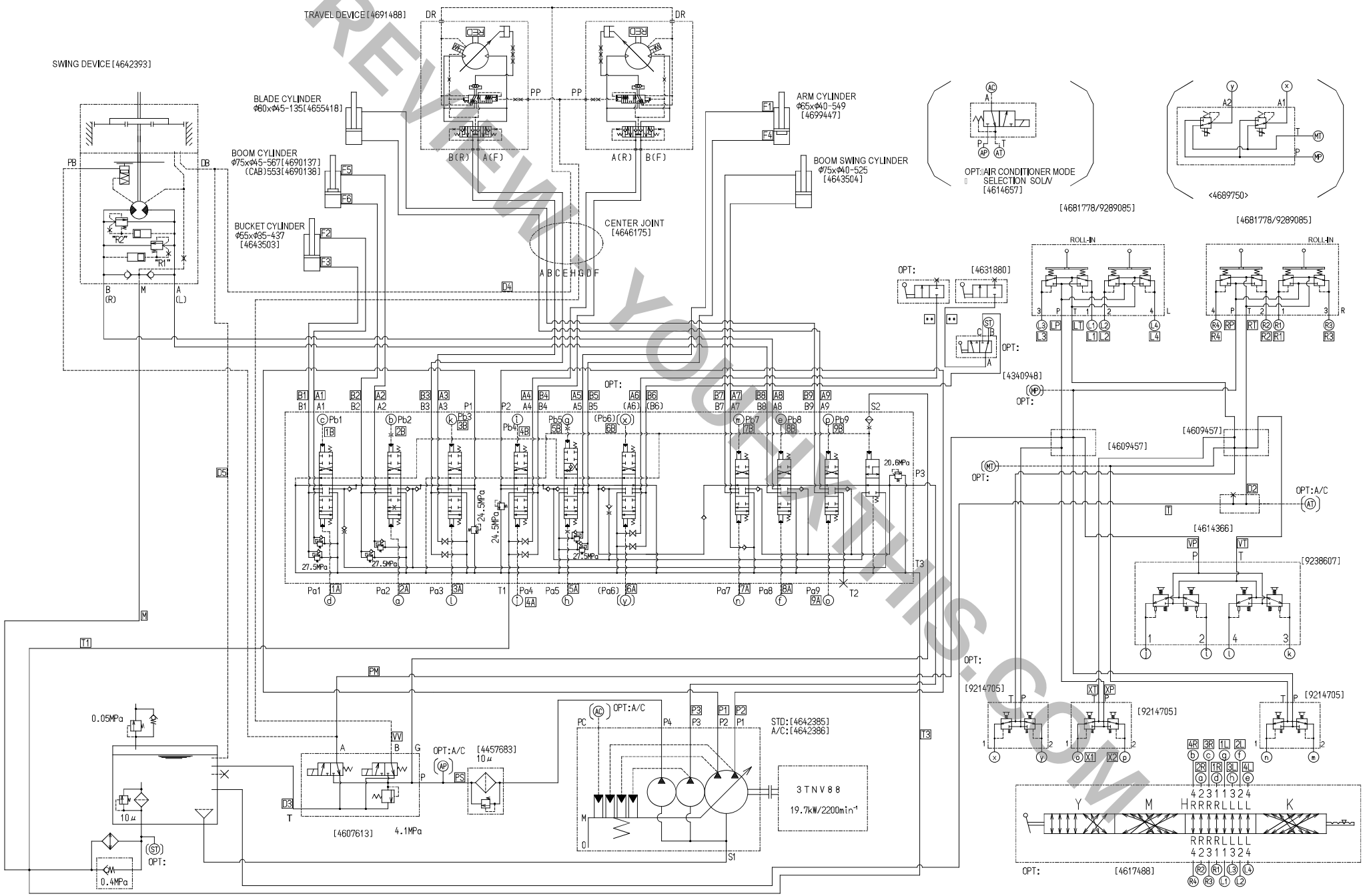
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ZX27U-3 CLASS
HYDRAURIC CIRCUIT DIAGRAM

CAUTION: Authorised Hitachi Dealer Use Only.
Parts numbers on the drawing are provited only for reference purpose,
To order parts on the drawing, be sure to consult the Parts Catalog.

NOTE: Refer to the performance standard table in the
Technical Manual for the set pressure of each relife valve.



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SAFETY

RECOGNIZE SAFETY INFORMATION

- These are the **SAFETY ALERT SYMBOLS**.
  - When you see these symbols on your machine or in this manual, be alert to the potential for personal injury.
  - Follow recommended precautions and safe operating practices.



SA-688

UNDERSTAND SIGNAL WORDS



SA-1223

- On machine safety signs, signal words designating the degree or level of hazard - DANGER, WARNING, or CAUTION - are used with the safety alert symbol.
  - **DANGER** indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
  - **WARNING** indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
  - **CAUTION** indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.
  - **DANGER** or **WARNING** safety signs are located near specific hazards. General precautions are listed on **CAUTION** safety signs.
  - Some safety signs do not use any of the designated signal words above after the safety alert symbol are occasionally used on this machine.
- To avoid confusing machine protection with personal safety messages, a signal word **IMPORTANT** indicates a situation which, if not avoided, could result in damage to the machine.
- ***NOTE*** indicates an additional explanation for an element of information.

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INTRODUCTION

SAFETY ALERT SYMBOL AND HEADLINE NOTATIONS

In this manual, the following safety alert symbol and signal words are used to alert the reader to the potential for personal injury of machine damage.

⚠ This is the safety alert symbol. When you see this symbol, be alert to the potential for personal injury.
Never fail to follow the safety instructions prescribed along with the safety alert symbol.
The safety alert symbol is also used to draw attention to component/part weights.
To avoid injury and damage, be sure to use appropriate lifting techniques and equipment when lifting heavy parts.

- ⚠ **CAUTION:**
  Indicated potentially hazardous situation which could, if not avoided, result in personal injury or death.

- **IMPORTANT:**
  Indicates a situation which, if not conformed to the instructions, could result in damage to the machine.

- *NOTE:*
  Indicates supplementary technical information or know-how.

UNITS USED

- SI Units (International System of Units) are used in this manual.
  MKSA system units and English units are also indicated in parenthheses just behind SI units.
  Example : 24.5 MPa (250 kgf/cm^2, 3560 psi)

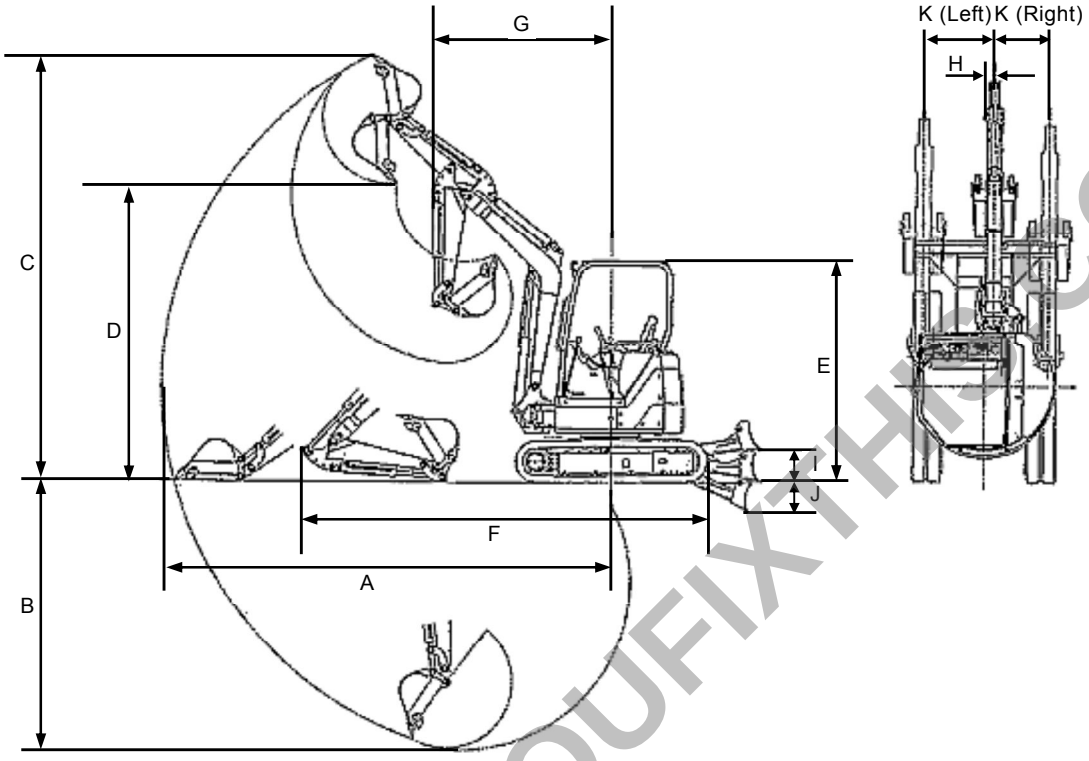
A table for conversion from SI units to other system units is shown below for reference purposees.

Quantity	To Convert From	Into	Multiply By	Quantity	To Convert From	Into	Multiply By
Length	mm	in	0.03937	Pressure	MPa	kgf/cm^2	10.197
	mm	ft	0.003281		MPa	psi	145.0
Volume	L	US gal	0.2642	Power	kW	PS	1.360
	L	US qt	1.057		kW	HP	1.341
	m^3	yd^3	1.308	Temperature	°C	°F	°C×1.8+32
Weight	kg	lb	2.205	Velocity	km/h	mph	0.6214
Force	N	kgf	0.10197		min^{-1}	rpm	1.0
	N	lbf	0.2248	Flow rate	L/min	US gpm	0.2642
Torque	N·m	kgf·m	1.0197		mL/rev	cc/rev	1.0
	N·m	lbf·ft	0.7375				

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ZX35U-3 class

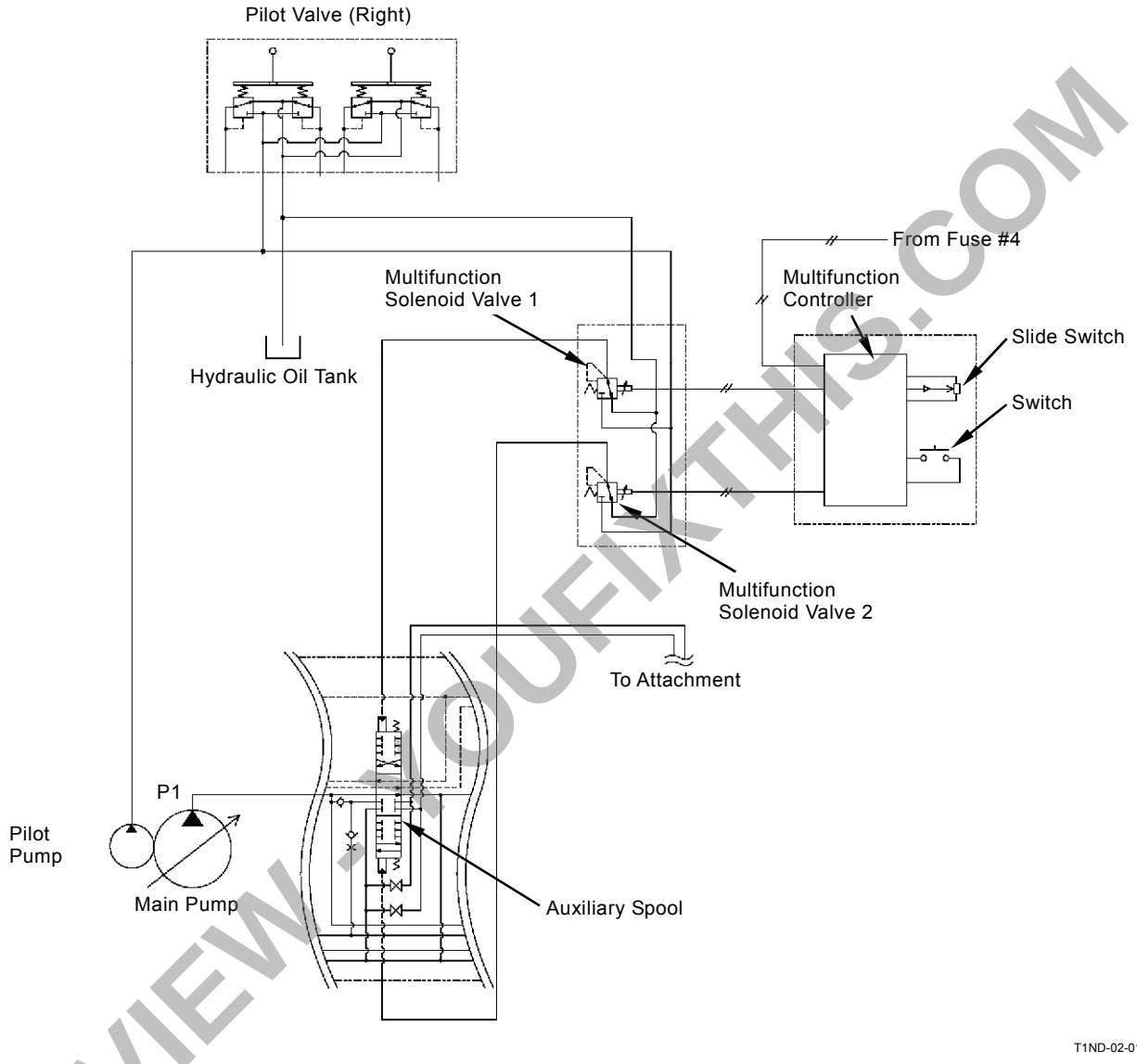


T1M7-01-01-002

Item	Category	ZX35U-3 class			
		Canopy		Cab	
		1.32 m Arm	1.72 m Arm	1.32 m Arm	1.72 m Arm
A: Maximum Digging Reach	mm (ft·in)	5210 (17′1″)	5520 (18′1″)	5210 (17′1″)	5520 (18′1″)
B: Maximum Digging Depth	mm (ft·in)	3050 (10′0″)	3450 (11′4″)	3050 (10′0″)	3450 (11′4″)
C: Maximum Cutting Height	mm (ft·in)	4870 (16′0″)	4950 (16′3″)	4710 (15′5″)	4760 (15′7″)
D: Maximum Dumping Height	mm (ft·in)	3470 (11′5″)	3570 (11′9″)	3320 (10′11″)	3390 (11′2″)
E: Overall Height (Rubber Crawler)	mm (ft·in)	2460 (8′1″)		2500 (8′2″)	
F: Overall Length	mm (ft·in)	4650 (15′3″)	4780 (15′8″)	4650 (15′3″)	4780 (15′8″)
G: Minimum Swing Radius	mm (ft·in)	2070 (6′10″)	2170 (7′1″)	2230 (7′4″)	2300 (7′7″)
H: Boom-Swing Pivot Offset Distance	mm (ft·in)	100 (4″)			
I: Blade Bottom Highest Position (above ground level)	mm (ft·in)	370 (1′3″)			
J: Blade Bottom Lowest Position (below ground level)	mm (ft·in)	390 (1′3″)			
K: Offset Distance	mm (ft·in)	L 705 (L 2′4″) R 640 (R 2′1″)		L 705 (L 2′4″) R 600 (R 2′0″)	
Maximum Boom-Swing Angle		L 72°/R 62°		L 62°/R 62°	

NOTE: The dimensions do not include the height of the shoe lug.

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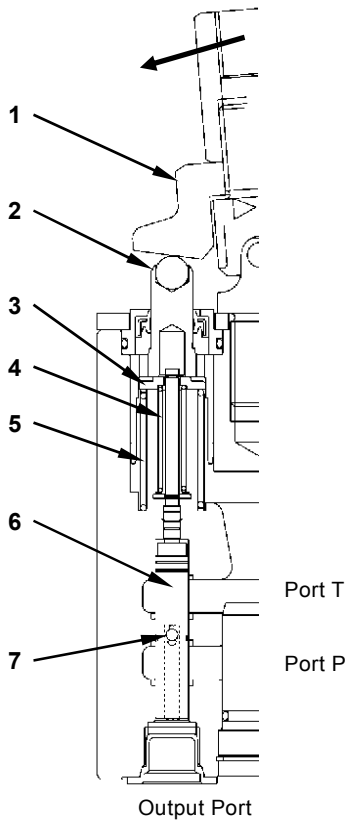
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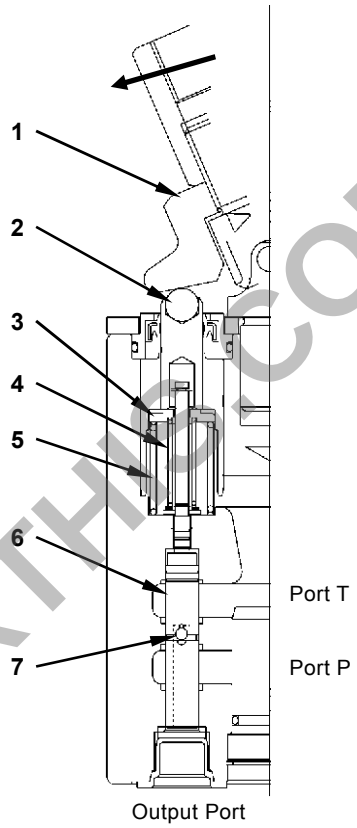
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T1MJ-03-04-005



T1MJ-03-04-006

1 - Cam
2 - Pusher
3 - Spring Guide
4 - Balance Spring
5 - Return Spring
6 - Spool
7 - Hole

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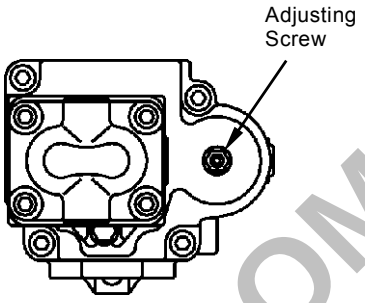
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Item	ZX27U-3 class	Remarks	Reference Page
HYDRAULIC CYLINDER CYCLE TIME sec		The cylinder stroke excludes the cushion range.	T4-4-12
Boom Raise (Canopy)	2.2±0.3		
Boom Lower (Canopy)	2.0±0.3		
Boom Raise (Cab)	2.1±0.3		
Boom Lower (Cab)	1.9±0.3		
Arm Roll-In	2.7±0.5		
Arm Roll-Out	2.0±0.3		
Bucket Roll-In	1.8±0.3		
Bucket Roll-Out	1.2±0.3		
Right Boom Swing (Canopy / Cab)	5.6±0.5/ 5.6±0.5		
Left Boom Swing (Canopy / Cab)	7.7±0.5/ 7.7±0.5		
Blade Raise	1.7±0.5		
Blade Lower	2.3±0.5		
DIG FUNCTION DRIFT mm/5 min			T4-4-14
Boom Cylinder	10 or less		
Arm Cylinder	15 or less		
Bucket Cylinder	8 or less		
Bucket Bottom	150 or less		
Blade Cylinder	3 or less		
Blade Cylinder (When jacked up)	15 or less		
Swing Cylinder	3 or less		
CONTROL LEVER/PEDAL OPERATING FORCE N (kgf)		HITACHI Lever Pattern	T4-4-16
Boom Lever	20.0 or less (2.0 or less)		
Arm Lever (ISO Lever Pattern: Swing)	20.0 or less (2.0 or less)		
Bucket Lever	20.0 or less (2.0 or less)		
Swing Lever (ISO Lever Pattern: Arm)	20.0 or less (2.0 or less)		
Travel Lever	17.0 or less (1.7 or less)		
Blade Lever	19.0 or less (1.9 or less)		
Boom Swing Pedal	54.0 or less (5.5 or less)		

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PUMP DRIVING TORQUE



T575-04-04-003

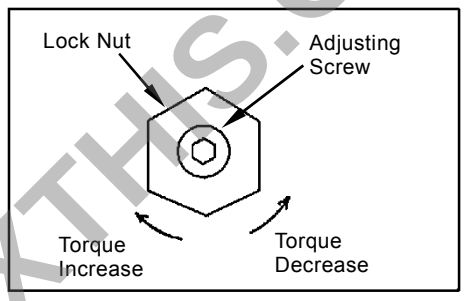
Summary:
The adjustment of pump driving torque is not recommended. If the adjustment of pump driving torque is necessary, perform the following procedures.

Adjustment:

1. Loosen the lock nut.
   : 13 mm
2. Turn the adjusting screw and adjust the pressure.
   : 4 mm
3. Tighten the lock nut.

NOTE: Replace the washer of lock nut after every adjustment. Failure to do so may cause oil leaks.

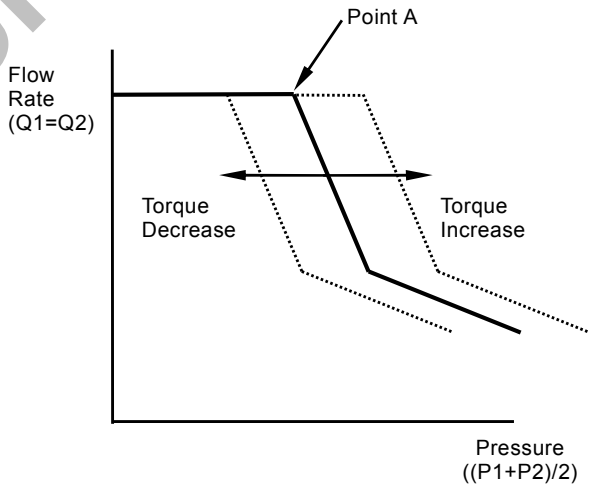
: 13 mm
: 10 to 14 N·m
(1 to 1.4 kgf·m, 7.4 to 10 lbf·ft)



W107-02-05-129

NOTE: Standard change in pressure

Adjusting Screw Turns		1/4	1/2	3/4	1
Change in Pressure (difference from point A)	kPa	123	245	368	490
	(kgf/cm^2)	(1.25)	(2.5)	(3.75)	(5)
	(psi)	(18)	(36)	(53)	(71)



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TRAVEL SYSTEM TROUBLESHOOTING

Machine does not move, moves slowly, or has weak power.

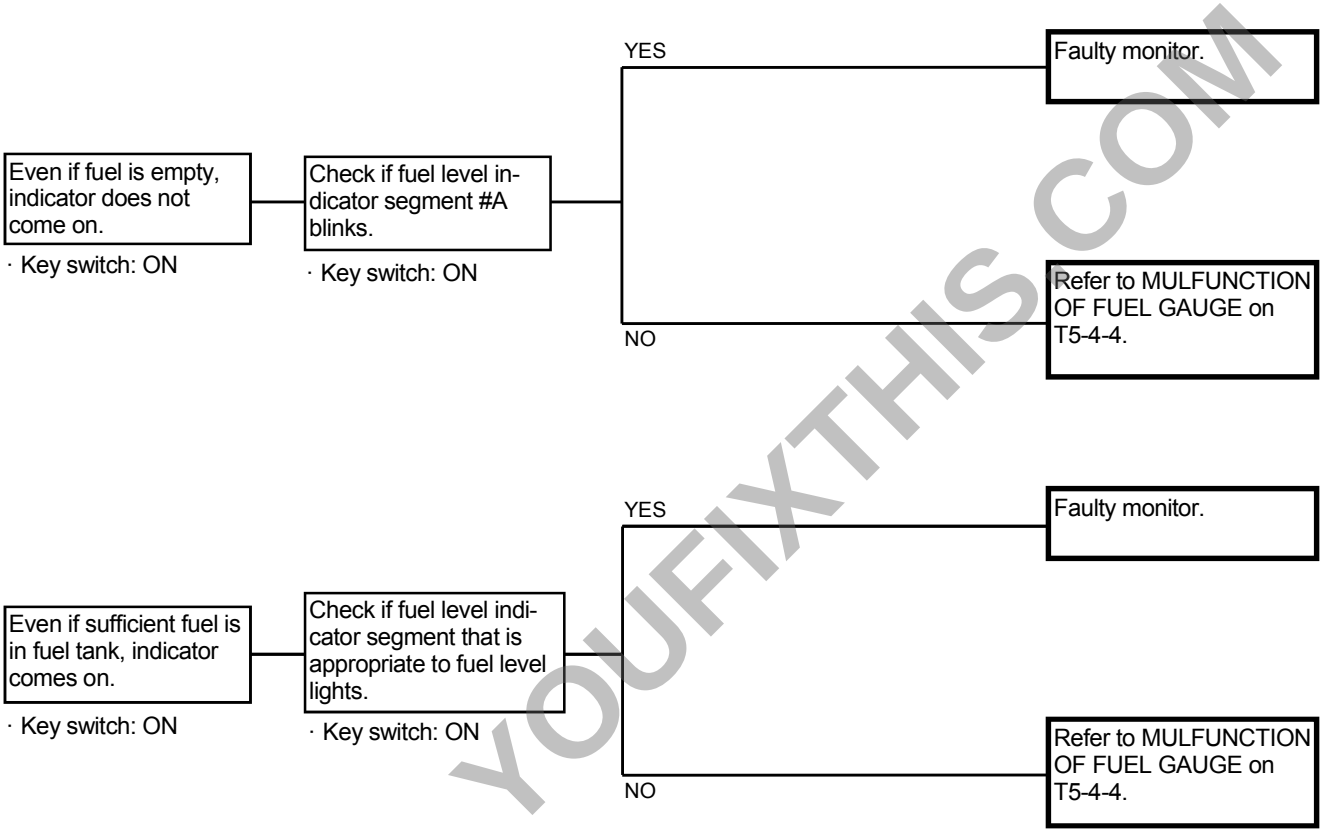
- Both right and left travel motors seldom become faulty at the same time.
- The troubleshooting here is for the machine that both right and left travel motors become faulty. If only one side is faulty, refer to "The excavator mistracks".
- If travel speed does not become fast, refer to "Travel speed does not change to the fast speed".

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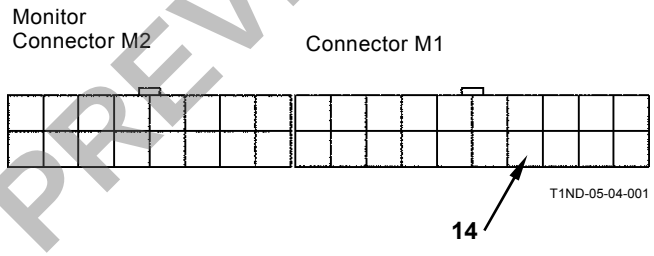
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MALFUNCTION OF FUEL LEVEL INDICATOR

- Check the siring connections first.



Connector (Harness end of connector viewed from the open end side)

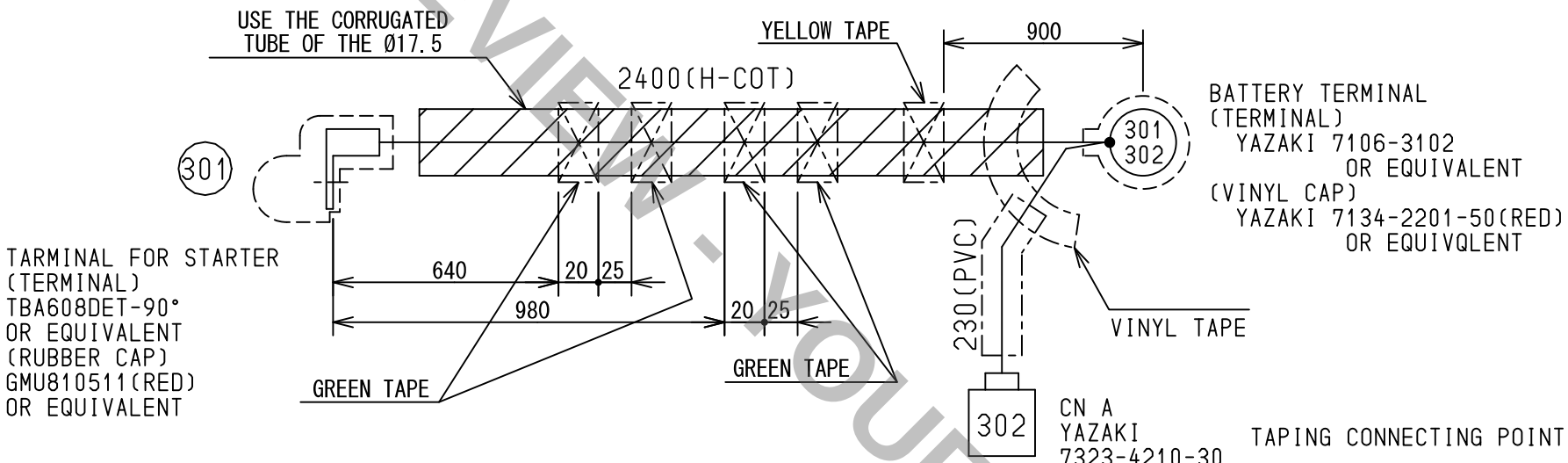


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Attach to Vol. No.: T1ND-E-00

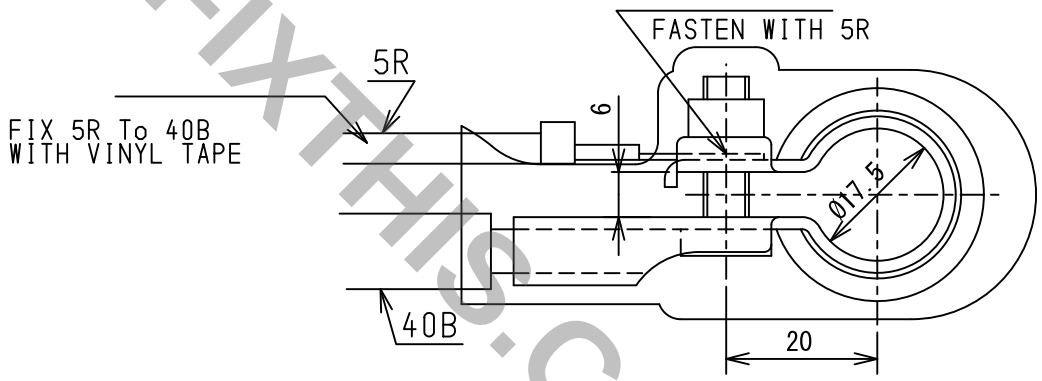
ZX30U-3 CLASS/35U-3 CLASS BATTERY HARNESS (+)



NO.	SIZE	COLOR	CIRCUIT		COMMENT
			FROM	TO	
301	40	B	STARTER	BATTERY TERMINAL	HEB-40
302	5	R	CN A	BATTERY TERMINAL	AV/AVS

NOTE. MEASURE FROM THE TIP OF CONNECTOR
AND FROM THE CENTER OF TERMINAL

Lead content in wire insulation material must be less than 0.03 Weight %.



DETAIL OF THE BATTERY TERMINAL

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EVACUATING IN CASE OF FIRE

- If fire breaks out during machine operation, evacuate the machine in the following way:
  - Stop the engine by turning the key switch to the OFF position.
  - Use a fire extinguisher if there is time.
  - Exit the machine using handrails and/or steps.
  - In an emergency, if the cab door or front or rear window can not be opened, break the front or rear window panes with the emergency evacuation hammer to escape from the cab.
    Refer to the explanation pages on the Emergency Evacuation Method in the operator's manual.



SA-393

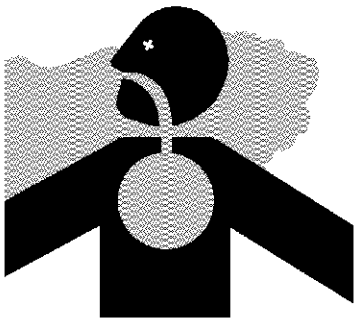
(Cab-Equipped Machines)



SS4642980

BEWARE OF EXHAUST FUMES

- Prevent asphyxiation. Engine exhaust fumes can cause sickness or death.
  - If you must operate the machine in a building, be sure there is adequate ventilation. Either use an exhaust pipe extension to remove the exhaust fumes or open doors and windows to bring enough outside air into the area.



SA-016

BEWARE OF ASBESTOS DUST

- Take care not to inhale dust produced in the work site. Inhalation of asbestos fibers may be the cause of lung cancer.
  - Depending on the wok site conditions, the risk of inhaling asbestos fiber may exist. Spray water to prevent asbestos from becoming airborne. Do not use compressed air.
  - When operating the machine in a work site where asbestos might be present, be sure to operate the machine from the upwind side and wear a mask rated to prevent the inhalation of asbestos.
  - Keep bystanders out of the work site during operation.

Asbestos might be present in imitation parts. Use only genuine Hitachi Parts.



SA-029

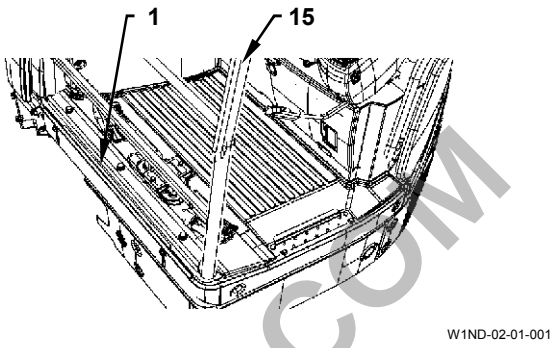
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Installation

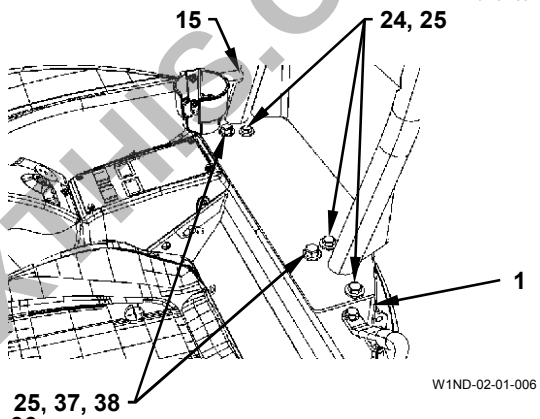
CAUTION: Canopy (15) weight: 73 kg (165 lb)

1. Attach a nylon sling onto canopy (15). Hoist and fit canopy (15) to the mounting hole of frame (1).



W1ND-02-01-001

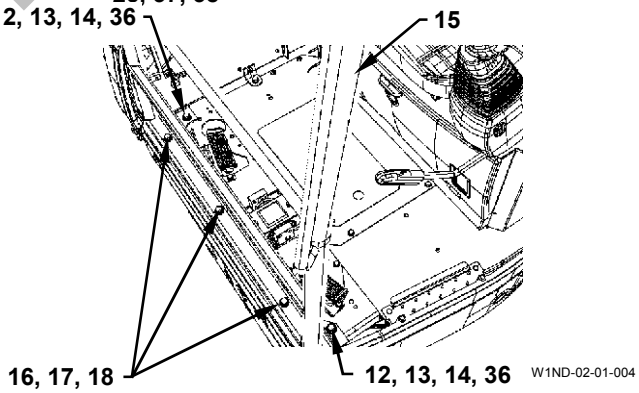
2. Install canopy (15) to frame (1) with washers (25) (5 used), bolts (24) (3 used) and bolts (38) (2 used). Install caps (37) (2 used) to bolts (38) (2 used).
   : 19 mm
   : 90 N·m (9 kgf·m, 65 lbf·ft)



W1ND-02-01-006

3. Install canopy (15) to frame (1) with collars (14) (2 used), washers (13) (2 used), washers (36) (2 used), and bolts (12) (2 used).
   : 17 mm
   : 50 N·m (5 kgf·m, 36 lbf·ft)

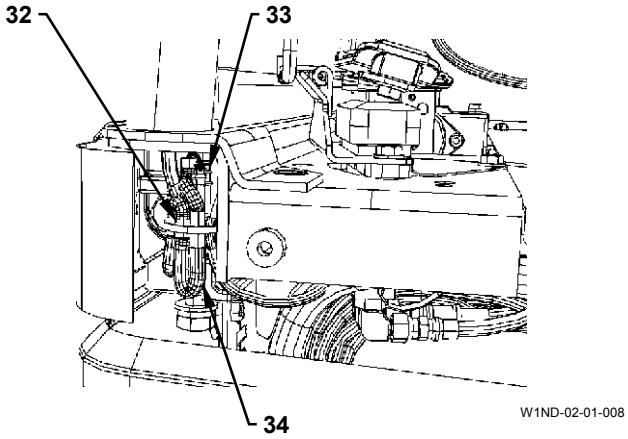
4. Install canopy (15) to frame (1) with spacers (18) (3 used), washers (17) (3 used), and bolts (16) (3 used).
   : 17 mm
   : 50 N·m (5 kgf·m, 36 lbf·ft)



W1ND-02-01-004

5. Connect plug (33).

6. Secure harness (34) with clip (32).



W1ND-02-01-008

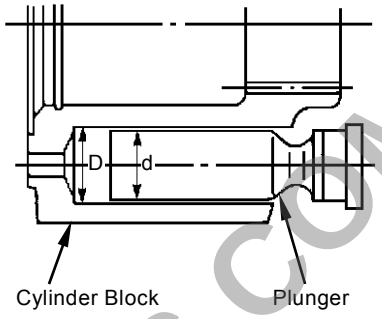
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MAINTENANCE STANDARD

1. Clearance between plunger outer diameter and cylinder block bore

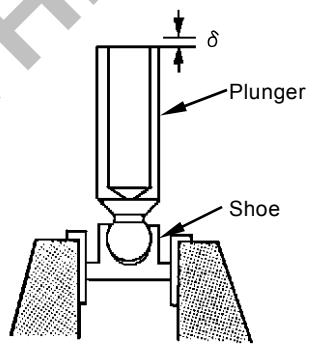
   (D-d): 0.050 mm (0.002 in) or less



W507-02-04-009

2. Clearance between plunger and shoe bottom

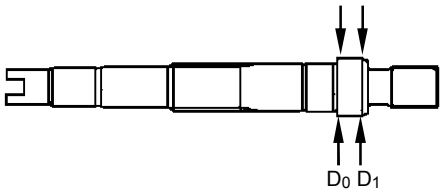
   δ : 0.2 mm (0.008 in) or less



3. Wear amount of oil seal mounting surface
   Check that there are no damage and / or abnormal wear.

   (D_0-D_1): 0.025 mm (0.001 in) or less

W107-02-06-141



W507-02-04-010

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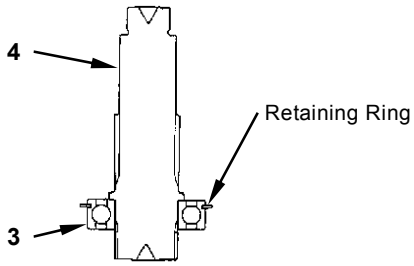
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Assembly of Swing Motor

IMPORTANT : Before assembling, apply hydraulic oil onto parts in order to prevent them from seizing.

IMPORTANT: Install bearing (3) with its retaining ring up as illustrated.

1. Install bearing (3) to shaft (4).



W1M9-02-05-007

IMPORTANT: Push shaft (4) until the retaining ring of bearing (3) comes in contact with casing (1). If pushing shaft (4) further, the retaining ring may be deformed.

2. Install the shaft (4) assembly to casing (1) by using a plastic hammer.

CAUTION: Use a press when installing retaining ring (14) to rotor (10). Spring (12) may fly out.

IMPORTANT: Insert collar (11) with its chamfered surface down.

3. Install collar (11), spring (12), and washer (13) to rotor (10).

4. Push washer (13) and spring (12) by using a press. Install retaining ring (14) to rotor (10). Turn over rotor (10).

5. Apply grease onto pins (9) (3 used). Install pins (9) (3 used) to rotor (10). Place holder (8) onto pin (9).

6. Install the assembly of plunger (6) and retainer (7) to rotor (10).

IMPORTANT: Insert swash plate (5) with its chamfered surface down. Apply grease onto the chamfered surface of swash plate (5).

7. Install swash plate (5) to casing (1).

8. Place casing (1) horizontally. Turn shaft (4) and install the rotor (10) assembly to casing (1). Place casing (1) vertically.

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Disassembly of Brake Valve

IMPORTANT: Do not disassemble the brake valve. Replace the brake valve as assembly.

IMPORTANT: Counterbalance valve assembly (7) cannot be disassembled.

1. Remove plugs (11) (2 used) from body (15). Remove springs (9) (2 used), plates (8) (2 used), and counterbalance valve assembly (7) from body (15).
   : 36 mm

IMPORTANT: When removing spool (5), do not drop pistons (3, 6) and spring (4).

2. Remove plugs (1) (2 used) from body (15). Remove pistons (3, 6), spring (4), and spool (5) from body (15).
   : 8 mm

3. Remove plugs (17) (2 used) from body (15). Remove shuttle (19) from body (15).
   : 5 mm

Assembly of Brake Valve

IMPORTANT: Before assembling apply hydraulic oil onto parts in order to prevent them from seizing.

1. Install shuttle (19) to body (15). Tighten it with plugs (17) (2 used).
   : 5 mm
   : 12 to 23 N·m
   (1.2 to 2.3 kgf·m, 8.9 to 17 lbf·ft)

2. Install spool (5), spring (4), and pistons (3, 6) to body (15). Tighten plugs (1) (2 used).
   : 8 mm
   : 46 to 51 N·m
   (4.7 to 5.2 kgf·m, 34 to 38 lbf·ft)

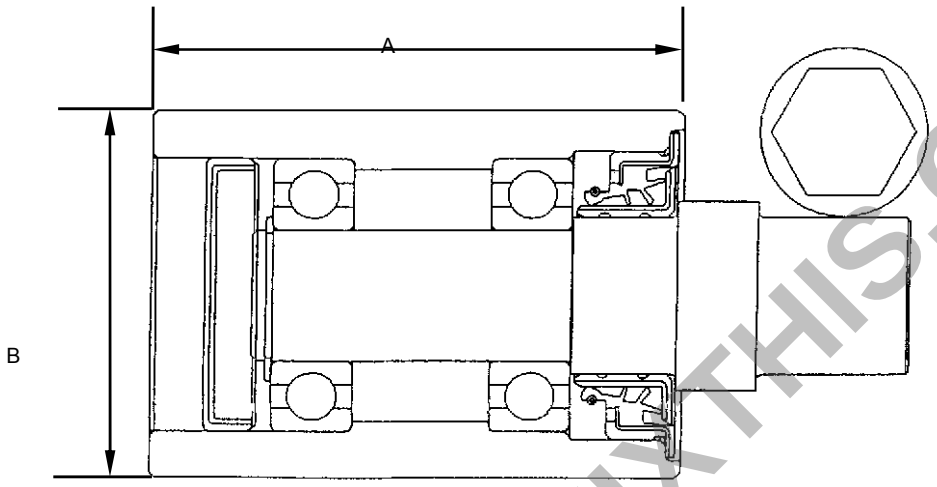
3. Install counterbalance valve assembly (7) to body (15). Install plates (8) (2used) and springs (9) (2 used). Tighten them with plugs (11) (2 used).
   : 36 mm
   : 196 to 245 N·m
   (20 to 25 kgf·m, 145 to 180 lbf·ft)

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MAINTENANCE STANDARD

Upper Roller



W1NG-03-06-002

Unit: mm (in)

	Standard	Allowable Limit	Remedy
A	100 (3.94)	-	Replace
B	70 (2.76)	-	

Lubricant Oil

Engine Oil SAE30 class CD
Engine Oil Amount: 30 mL (0.032 US qt)

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IMPORTANT: If air in a cylinder is suddenly compressed, the temperature inside will rise. As the temperature of the hydraulic oil will rise, the seals and the rings may be damaged.

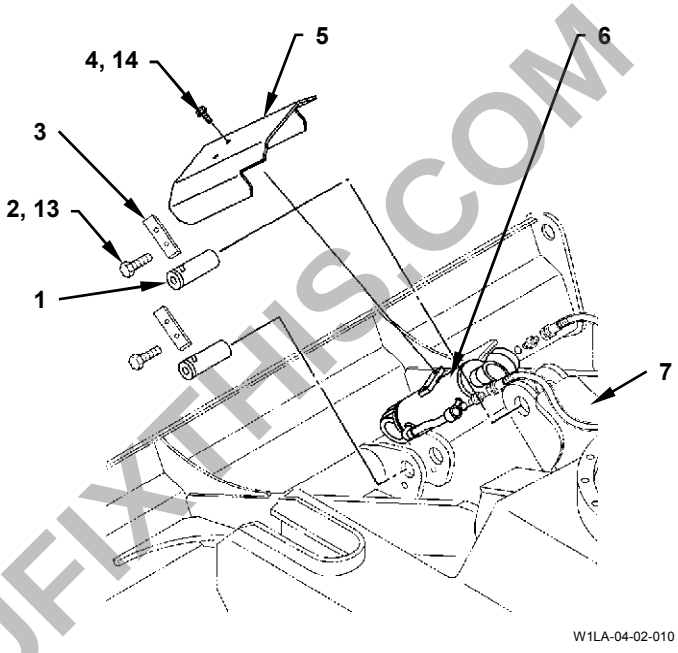
5. Start the engine. Extend the piston rod slowly. Fit the pin (1) holes of blade cylinder (6) and track frame (7).

6. Apply grease onto pin (1). Install blade cylinder (6) to track frame (7) with pin (1) by using a plastic hammer.

7. Secure pin (1) to track frame (7) with lock (3) and bolts (2) (2 used) and washers (13) (2 used).
   : 19 mm
   : 90 N·m (9 kgf·m, 65 lbf·ft)

8. Install cover (5) to blade cylinder (6) with bolts (4) (2 used) and washers (14) (2 used).
   : 17 mm
   : 50 N·m (5 kgf·m, 36 lbf·ft)

9. After completing the work, add hydraulic oil to the specified level. Operate every cylinder to the stroke end several times and bleed air from the circuit. Check each hose connection for any oil leaks.



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