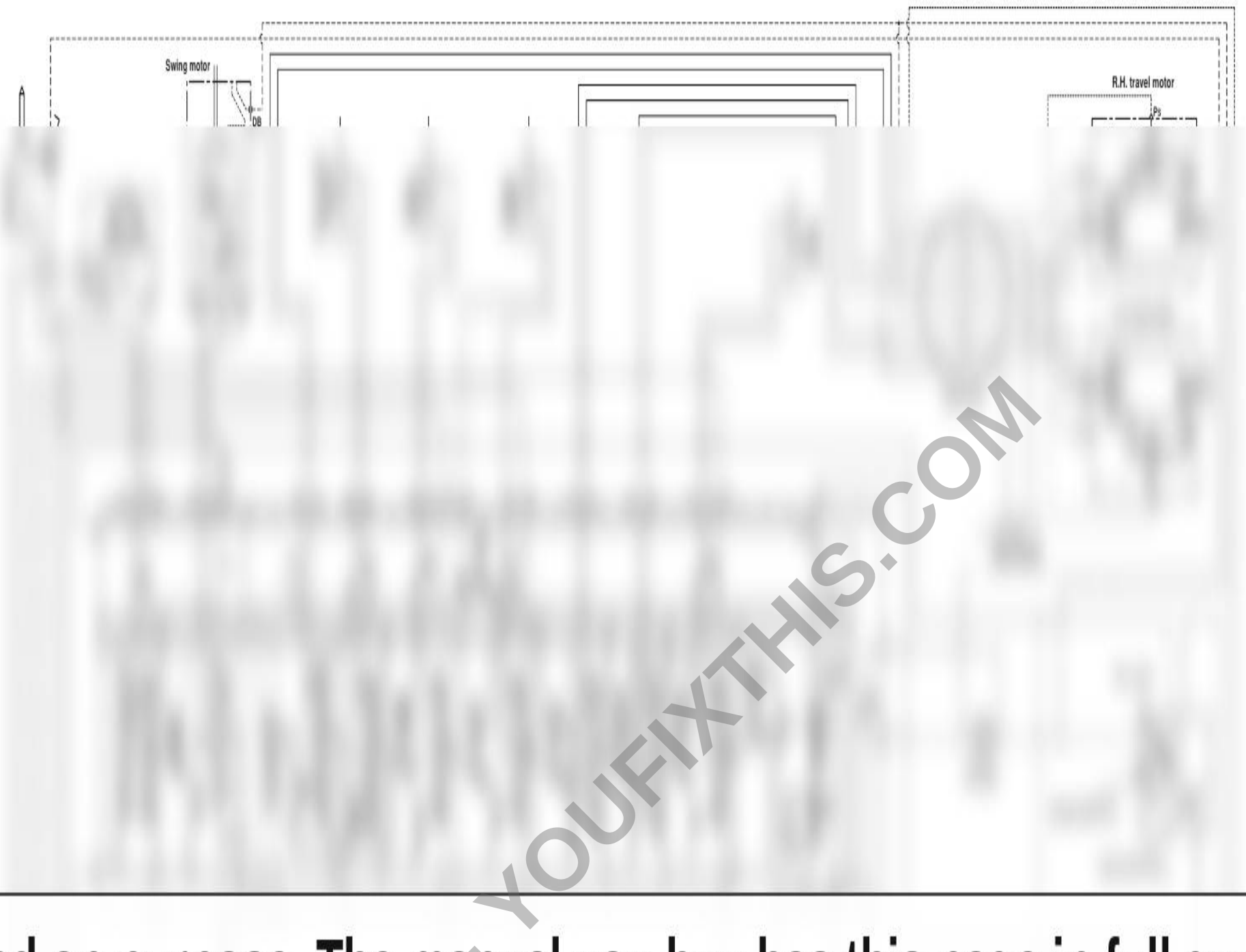
HYDRAULIC CIRCUIT DIAGRAM

PC35R



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CHECKING THE ENGINE SPEED

⚠ When checking the engine rpm , always be very careful not to touch parts that reach high tempera-



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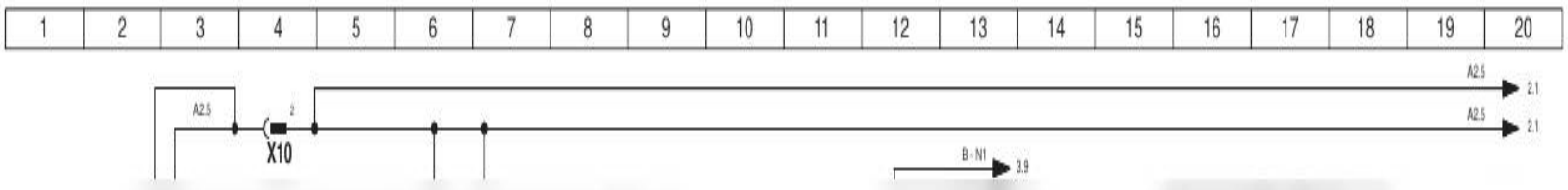
STANDARD TIGHTENING TORQUE

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ELECTRICAL DIAGRAM (1/3)



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NORMAL OR STANDARD TECHNICAL DATA

• FOR THE ENGINE

Machine model	PC35R-8
Engine	3D84E-3FAE

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The affected pages are indicated by the use of the following marks. It is requested that necessary actions be taken to these pages according to table below.

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a. S2 Port - From swing motor (T Port)
b. PA10 Port - From work equipment PPC valve (P2 Port)
c. PA8 Port - From L.H. PPC valve (P3 Port)
d. PA5 Port - From R.H. PPC valve (P4 Port)
e. PA4 Port - From R.H. PPC valve (P1 Port)
f. PA1 Port - From L.H. PPC valve (P1 Port)
g. LS Port - From hydraulic pump (PLS Port)
h. C Port - To exchange oil cooler
i. B1 Port - To arm cylinder (Head side)
j. B2 Port - To swivel joint (B Port)
k. B3 Port - To swivel joint (D Port)
l. B4 Port - To boom cylinder (Bottom side)
m. B5 Port - To bucket cylinder (Bottom side)
n. B6 Port - To boom swing cylinder (Bottom side)
o. B7 Port - To swivel joint (G Port)
p. P2 Port - From hydraulic pump (P2 Port)
q. B10 Port - To attachment (R.H. side)
r. TS Port - To hydraulic tank
s. A10 Port - To attachment (L.H. side)
t. A8 Port - To swing motor (A Port)
u. A7 Port - To swivel joint (F Port)
v. A6 Port - To boom swing cylinder (Head side)
w. A5 Port - To bucket cylinder (Head side)
x. A4 Port - To boom cylinder (Head side)
y. A3 Port - To swivel joint (C Port)
z. A2 Port - To swivel joint (A Port)
aa. A1 Port - To arm cylinder (Bottom side)
bb. P1 Port - From hydraulic pump (P1 Port)
cc. T Port - To hydraulic tank
dd. PC Port - To ST1 solenoid valve (P Port)
ee. PB1 Port - From L.H. PPC valve (P2 Port)
ff. PB4 Port - From R.H. PPC valve (P2 Port)
gg. PB5 Port - From R.H. PPC valve (P3 Port)
hh. PB8 Port - From L.H. PPC valve (P4 Port)
ll. PB10 Port - From work equipment PPC valve (P1 Port)
mm. PP Port - To hydraulic pump (P1L Port)
nn. B8 Port - To swing motor (B Port)

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BLADE



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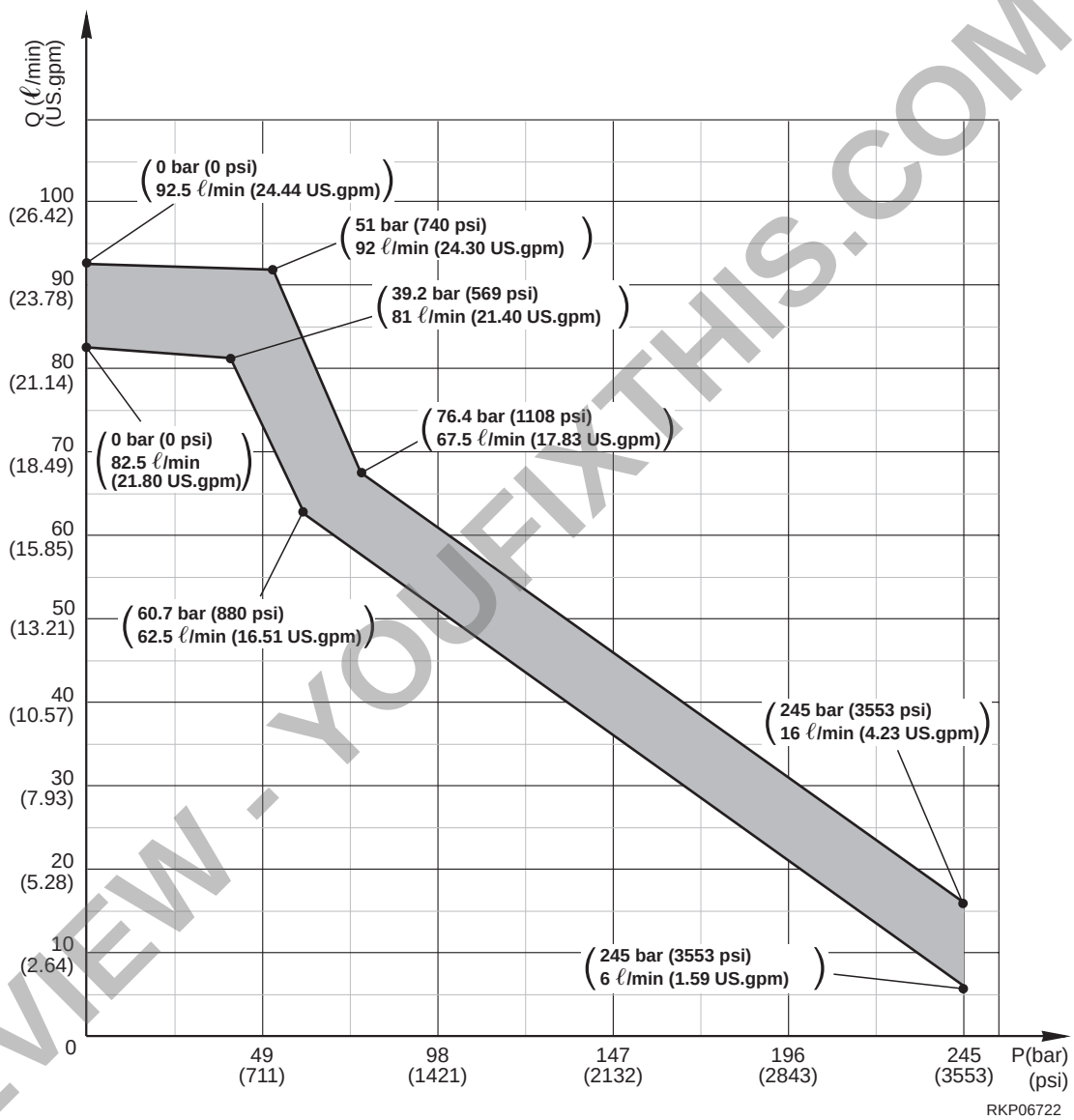
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Classification

- Delivery piston pump P1
- Pump speed: 2500 rpm
- Hydraulic oil temperature: 45 – 55°C (113 – 131°F)
- Gear pump P2: at max. pressure

Pump characteristics



★ When measuring deliveries with the pumps mounted on the machine, it is difficult to use the accelerator to count the precise number of revs needed for this test.
Make delivery measurements with the engine running at a speed close to the test speed and then make a proportional calculation.

Example:

MEASUREMENT
- Engine speed: 2450 rpm
- Delivery: 42 ℓ/min (11.1 US.gpm)

PROPORTIONAL DELIVERY AT 2500 rpm
(42x2500)/2450 = 42.8 ℓ/min (11.3 US.gpm)

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30 REMOVAL AND INSTALLATION

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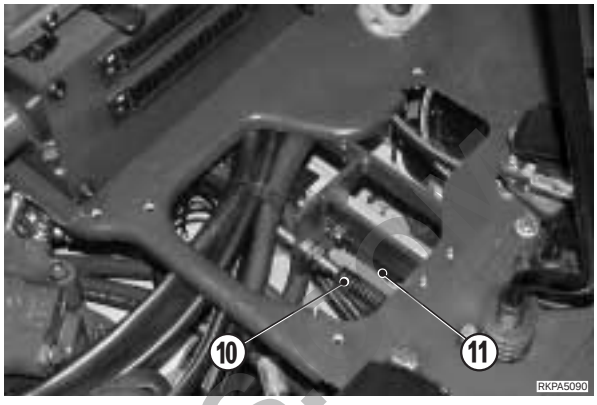
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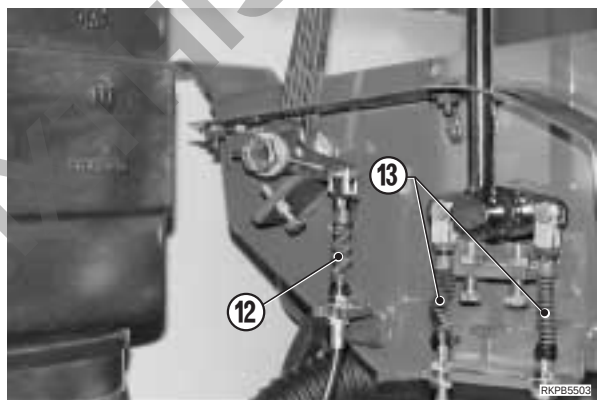
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7 - Disconnect the cables (10) and (11) of travel command. ※2



8 - Disconnect the cables (12) and (13) of accelerator and blade command. ※3

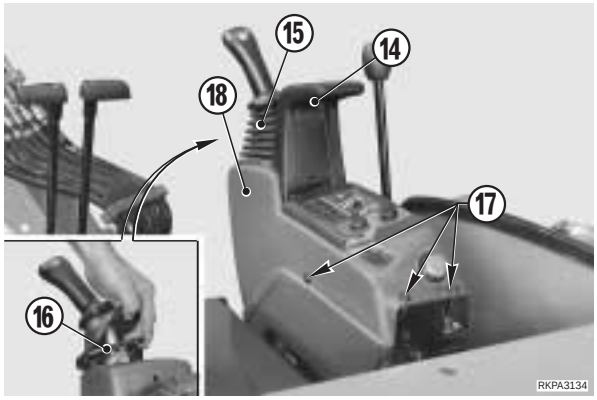


9 - Take off the arm-rest (14).

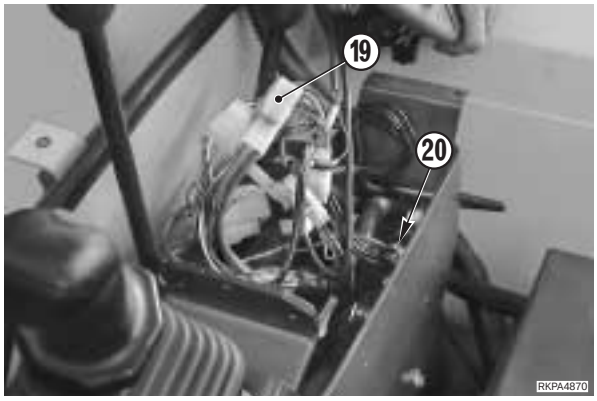
10 - Disconnect cup (15).

★ Take great care not to damage the frame (16).

11 - Take out the screws (17) overturn the cover (18) toward engine hood.



12- Disconnect the connectors (19) and ground cables (20).



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INSTALLATION OF THE BOOM

- To install, reverse the removal procedure.

※1

★ Insert the shims on both sides of the piston rod.

⚠ When aligning the positions between the hole and the pin, turn the engine over at low idling.
Do not insert fingers in the holes to check alignment.

Internal bushings: ASL800050

※2

Internal bushings: ASL800040

★ Insert the shims on both sides of the arm.

⚠ When aligning the positions between the hole and the pin, do not insert fingers in the holes to check alignment.

- Start the engine to circulate the oil and bleed the air from the cylinder.
  - ★ After bleeding the air, stop the engine and check the oil level in the tank.

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