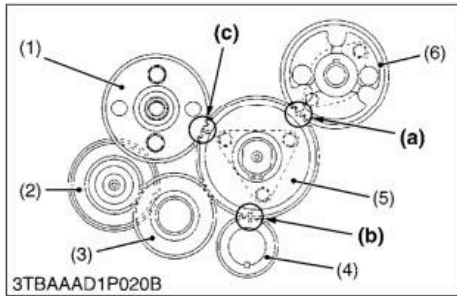


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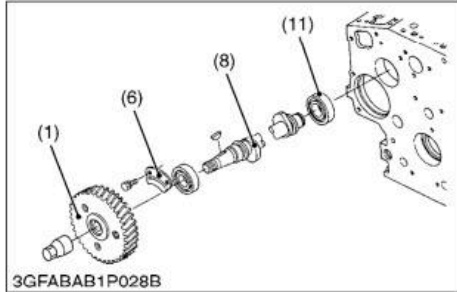
WORKSHOP MANUAL
TRACTOR

B3300SU-AUS

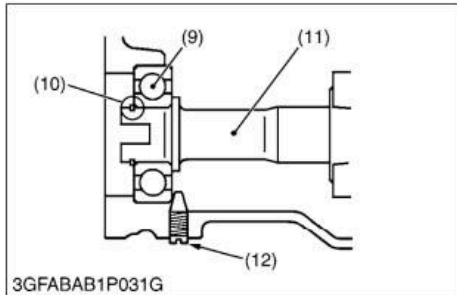
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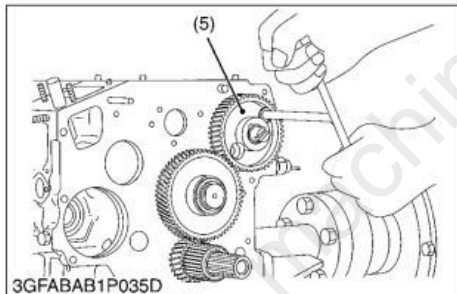
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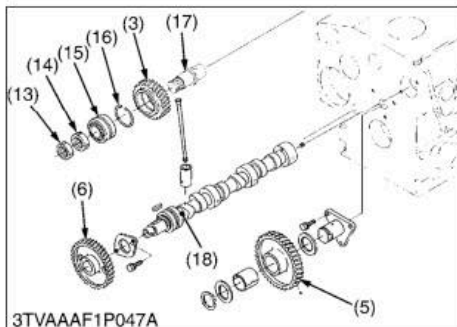
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Cam Gear and Idle Gear 1, 2

1. Remove the lock nut (13) and the bearing nut (14).
2. Remove the idle gear 2 (3) and the Idle gear 1 (5).
3. Remove the fuel camshaft stopper (7).
4. Draw out the fuel camshaft (8) with fuel camshaft (8).
5. Remove the camshaft stopper bolt.
6. Remove the cam gear (6) with camshaft (8).
7. Remove the cir-clip (10) from the governor shaft (11).
8. Remove the governor gear (2) with governor shaft (11).

(When reassembling)

- Apply engine oil thinly to the fuel camshaft before installation.
- Make sure to assemble the external snap ring of the governor shaft.
- Check the governor shaft for smooth rotation.

Tightening torque	Idle gear 2 lock nut	25 to 29 N·m 2.5 to 3.0 kgf·m 18 to 21 lbf·ft
	Idle gear 2 bearing nut	35 to 39 N·m 3.5 to 4.0 kgf·m 26 to 28 lbf·ft

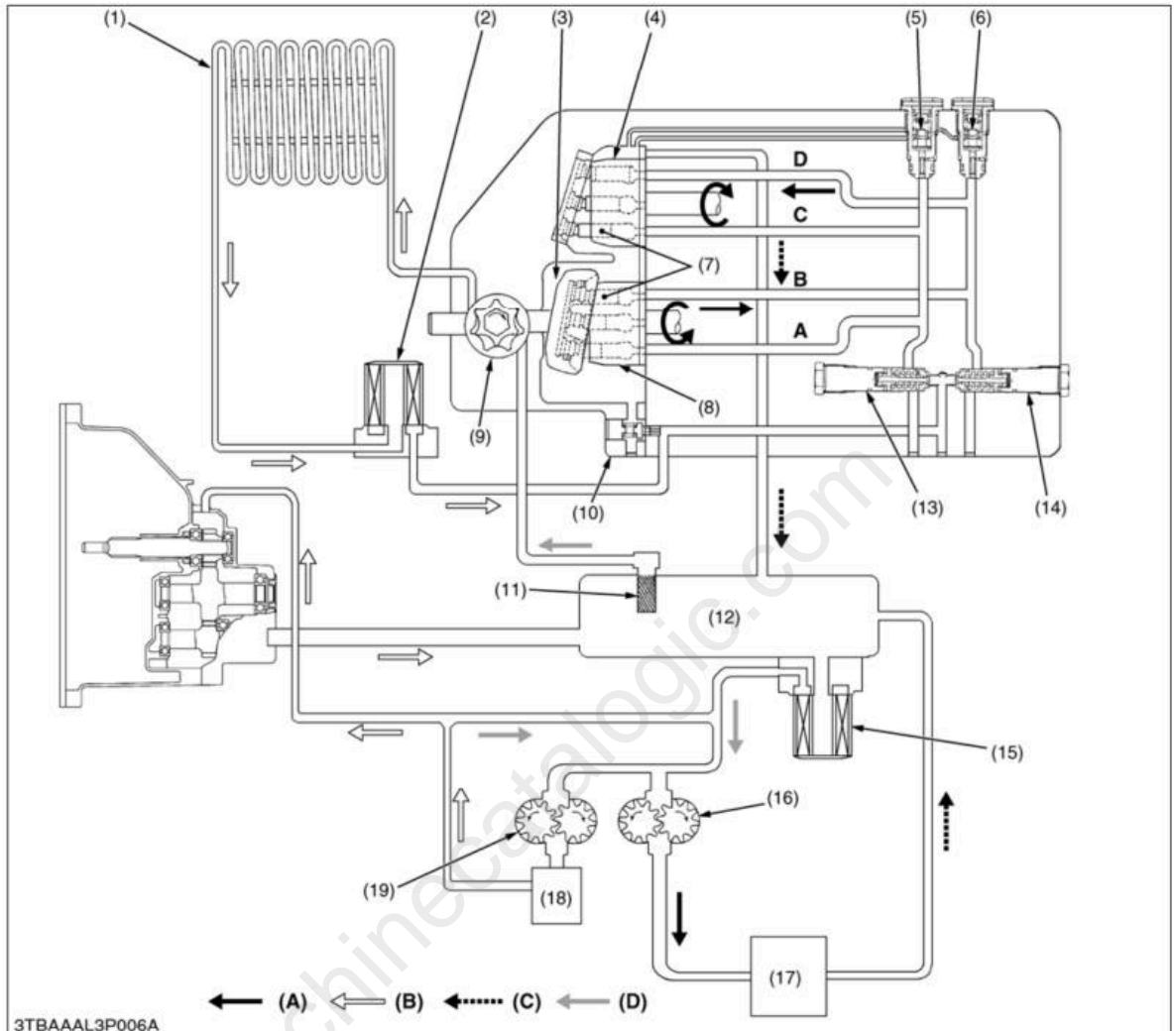
■ IMPORTANT

- When replacing the ball bearing (9) of governor shaft, securely fit the ball bearing (9) to the crankcase, apply an adhesive (Three Bond 1375N or equivalent) to the set screw (12), and fasten the screw until its tapered part contacts the circumferential end of the ball bearing.

- | | |
|-------------------------|---|
| (1) Injection Pump Gear | (14) Bearing Nut |
| (2) Governor Gear | (15) Taper Roller Bearing |
| (3) Idle Gear 2 | (16) Cir-clip |
| (4) Crank Gear | (17) Idle Gear Shaft |
| (5) Idle Gear 1 | (18) Cam Shaft |
| (6) Cam Gear | |
| (7) Fuel Camshaft Gear | (a) Alignment Mark: Idle Gear 1 and Cam Gear 1 |
| (8) Fuel Camshaft | (b) Alignment Mark: Idle Gear 1 and Crank Gear |
| (9) Ball Bearing | (c) Alignment Mark: Idle Gear 1 and Fuel Cam Gear |
| (10) Cir-clip | |
| (11) Governor Shaft | |
| (12) Set Screw | |
| (13) Lock Nut | |

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Reverse



3TBAAAL3P006A

- | | | | |
|------------------------------------|--|---|-----------------------|
| (1) Oil Cooler | (10) Charge Relief Valve | (16) Hydraulic Pump
(25.3 L/min,
6.68 U.S.gals/min,
5.57 Imp.gals/min) | (A) High Pressure Oil |
| (2) Oil Filter Cartridge (for HST) | (11) Oil Strainer | (17) Hydraulic Control Valve | (B) Low Pressure Oil |
| (3) Swashplate | (12) Oil Tank | (18) Power Steering | (C) Free Oil |
| (4) Cylinder Block (Motor) | (13) Check and High Pressure
Relief Valve (Forward) | (19) Hydraulic Pump
(12.2 L/min,
3.22 U.S.gals/min,
2.68 Imp.gals/min) | (D) Suction Oil |
| (5) Neutral Valve (Forward) | (14) Check and High Pressure
Relief Valve (Reverse) | | A: A Port |
| (6) Neutral Valve (Reverse) | (15) Oil Filter Cartridge | | B: B Port |
| (7) Piston | | | C: C Port |
| (8) Cylinder Block (Pump) | | | D: D Port |
| (9) Charge Pump | | | |

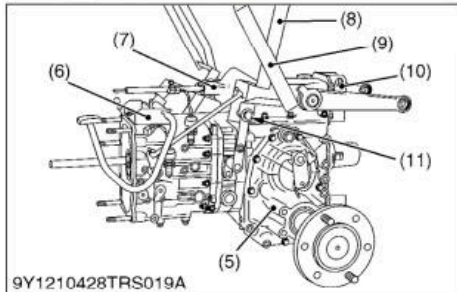
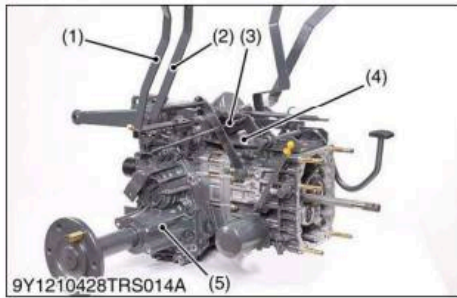
When the speed control pedal is stepped on and in reverse, the variable swashplate is tilted as shown in figure above.

As the pump cylinder block rotates with the input shaft, oil is forced out of pump port B at high pressure. As pressure oil enters motor port D, the pistons, which align with port D, are pushed against the swashplate and slide down the inclined surface.

Then the output shaft rotates with the motor cylinder block. This drives the machine rearward and the angle of pump swashplate determines the output shaft speed.

As the motor cylinder block continues to rotate, oil is forced out of motor port C at low pressure and returns to the pump.

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Separating Hydraulic Cylinder Case, Rear Axle Cases and Others

1. Remove the differential lock rod (3).
2. Remove the front wheel drive lever (2) and hydraulic control lever (1).
3. Remove the external snap ring (11) and remove the PTO shift lever (8) and range gear shift lever (9).
4. Remove the differential lock pedal support (6).
5. Remove the top link bracket (10).
6. Remove the hydraulic cylinder case assembly (7) with connecting plate (4).
7. Remove the rear axle cases (5).

(When reassembling)

- Apply liquid gasket (Three Bond 1206D or equivalent) to joint face of the differential case to hydraulic cylinder case and rear axle cases.

Tightening torque	Differential lock pedal support mounting screw	18 to 20 N-m 1.8 to 2.1 kgf-m 13 to 15 lbf-ft
	Connecting plate mounting nut	40 to 44 N-m 4.0 to 4.5 kgf-m 29 to 32 lbf-ft
	Hydraulic cylinder case mounting nut	40 to 44 N-m 4.0 to 4.5 kgf-m 29 to 32 lbf-ft
	Rear axle case mounting screw	40 to 44 N-m 4.0 to 4.5 kgf-m 29 to 32 lbf-ft
	Top link bracket mounting screw	78 to 90 N-m 7.9 to 9.2 kgf-m 58 to 66 lbf-ft

- | | |
|-------------------------------------|--------------------------------------|
| (1) Hydraulic Control Lever | (7) Hydraulic Cylinder Case Assembly |
| (2) Front Wheel Drive Lever | (8) PTO Shift Lever |
| (3) Differential Lock Rod | (9) Range Gear Shift Lever |
| (4) Connecting Plate | (10) Top Link Bracket |
| (5) Rear Axle Case | (11) External Snap Ring |
| (6) Differential Lock Pedal Support | |

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Separating Transmission Case and Differential Case

1. Remove the transmission case mounting screws and nuts and separate the differential case (3) and transmission case (1).

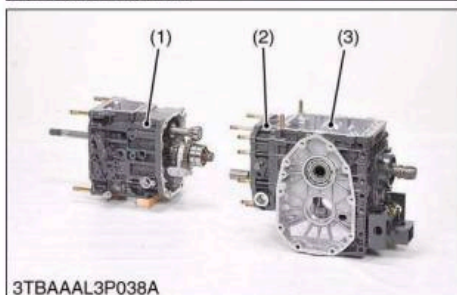
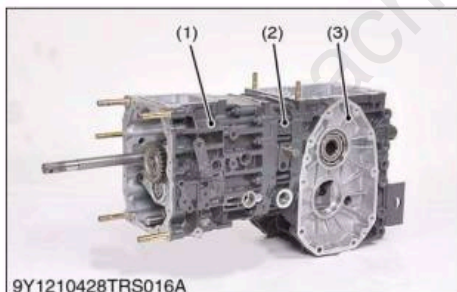
(When reassembling)

- Apply liquid gasket (Three Bond 1206D or equivalent) to joint face of the transmission case to mid case and mid case to differential case.
- When reassembling the transmission case, remove the mid case from the differential case. Attach the transmission case, mid case and differential case after spreading the liquid gasket over their surfaces.

Tightening torque	Transmission case and differential case mounting nut	40 to 44 N-m 4.0 to 4.5 kgf-m 29 to 32 lbf-ft
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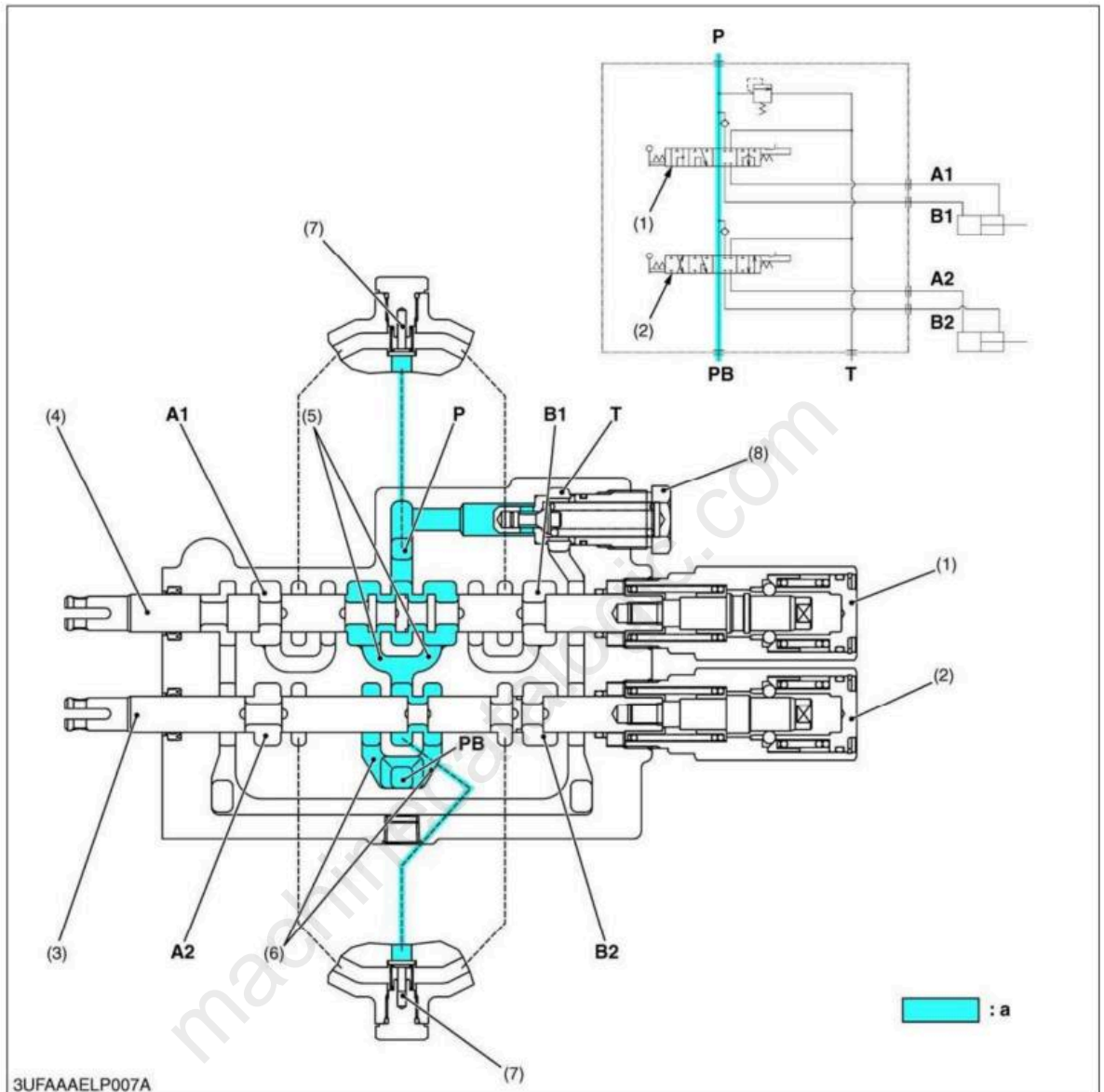
- | | |
|-----------------------|-----------------------|
| (1) Transmission Case | (3) Differential Case |
| (2) Mid Case | |

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(2) Operation

Neutral



- (1) Boom Control Section
- (2) Bucket Control Section
- (3) Spool
- (4) Spool

- (5) PB Passage 1
- (6) PB Passage 2
- (7) Load Check Valve
- (8) Relief Valve

- T: T Port
- P: P Port
- A1: A1 Port
- A2: A2 Port

- B1: B1 Port
- B2: B2 Port
- PB: PB Port

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Full Version Available

Kubota B3300SU-AUS Tractor Workshop Manual

This is a short preview. The complete manual contains all chapters, wiring diagrams, torque specifications and full service procedures.

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