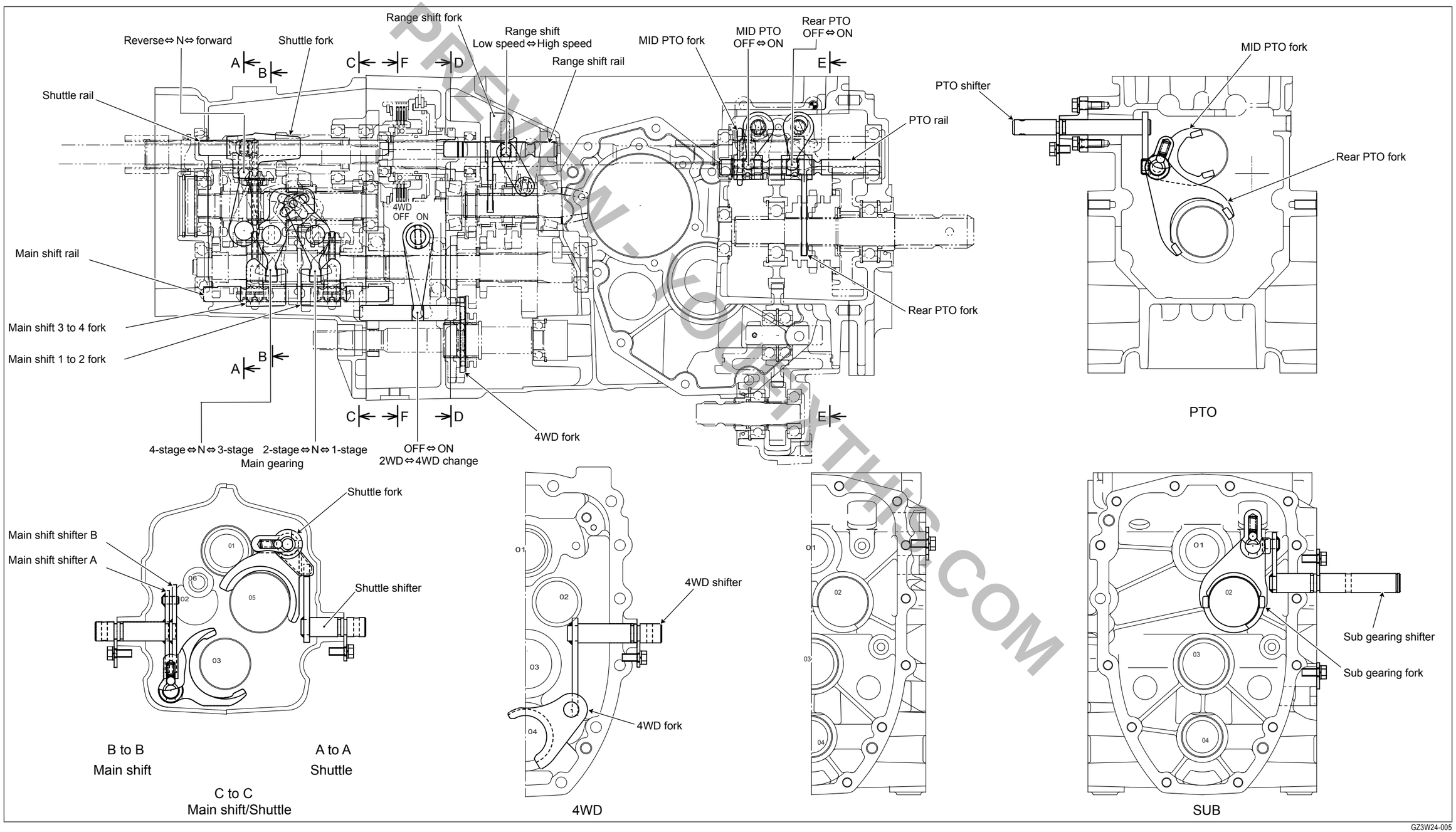
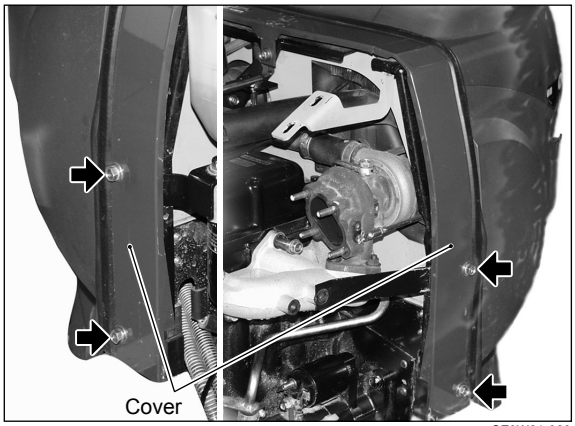
5.2.2 7530

- Main shift
- Range shift
- 2WD ⇔ 4WD change
- PTO ON/OFF



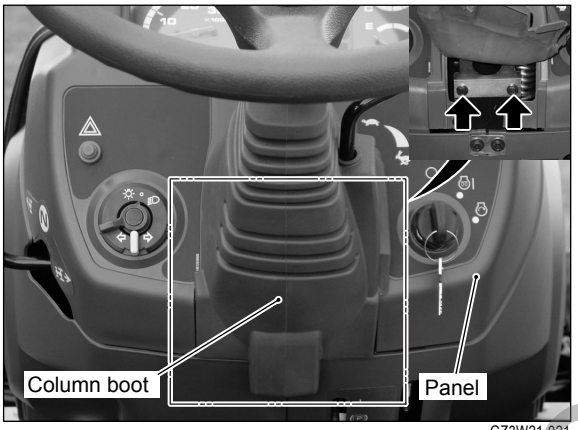
GZ3W24-005

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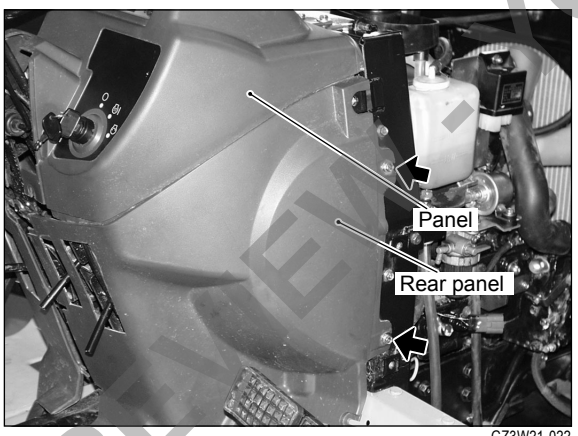
GZ3W21-020

19. Remove the cover.



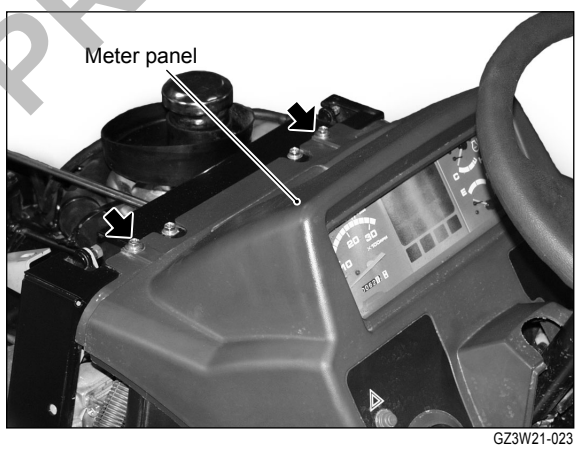
GZ3W21-021

20. Remove the column boot.



GZ3W21-022

21. Remove the rear panels PH and LH.



GZ3W21-023

22. Remove the meter panel.
    - Disconnect the connectors for harness E and harness B.
    - Remove the tachometer.

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1.2 List of Standard Torque

Hexagon Head Bolt and Nut

Unit : (N•m {kgf•cm, lbf•ft})

Strength Classification / Designation	4T	7T	8T	9T	11T
M3	0.3 to 0.5 {3 to 5, 0.22 to 0.36}	-	-	-	-
M4	0.8 to 1.0 {8 to 10, 0.58 to 0.72}	-	-	-	-
M5	2.5 to 3.4 {25 to 35, 1.81 to 2.53}	5.4 to 6.4 {55 to 65, 3.98 to 4.7}	6.4 to 7.4 {65 to 75, 4.7 to 5.42}	6.4 to 7.4 {65 to 75, 4.7 to 5.42}	8.8 to 9.81 {90 to 100, 6.51 to 7.23}
M6	5.0 to 6.9 {50 to 70, 3.62 to 5.06}	9.8 to 11.8 {100 to 120, 7.23 to 8.7}	11.8 to 13.7 {120 to 140, 8.68 to 10.1}	11.8 to 13.7 {120 to 140, 8.68 to 10.1}	14.7 to 16.7 {150 to 170, 10.85 to 12.3}
M8	11.8 to 16.7 {120 to 170, 8.68 to 12.3}	24.5 to 29.4 {250 to 300, 18.1 to 21.7}	29.4 to 34.3 {300 to 350, 21.7 to 25.3}	29.4 to 34.3 {300 to 350, 21.7 to 25.3}	36.3 to 41.2 {370 to 420, 26.8 to 30.4}
M10	20.6 to 29.4 {210 to 300, 15.19 to 21.7}	39.2 to 44.1 {400 to 450, 28.9 to 32.5}	49 to 53.9 {500 to 550, 36.2 to 39.8}	49 to 53.9 {500 to 550, 36.2 to 39.8}	72.6 to 82.4 {740 to 840, 53.5 to 60.7}
M12	44.1 to 53.9 {450 to 550, 32.5 to 39.8}	83.4 to 93.2 {850 to 950, 61.5 to 68.7}	93.2 to 108 {950 to 1100, 68.7 to 79.6}	93.2 to 108 {950 to 1100, 68.7 to 79.6}	123 to 137 {1250 to 1400, 90.4 to 101.2}
M14	63.7 to 78.5 {650 to 800, 47 to 57.9}	118 to 132 {1200 to 1350, 86.8 to 97.6}	132 to 147 {1350 to 1500, 97.6 to 108.5}	147 to 167 {1500 to 1700, 108 to 123}	206 to 226 {2100 to 2300, 152 to 166}
M16	88.3 to 107.9 {900 to 1100, 65.1 to 79.6}	152 to 172 {1550 to 1750, 112 to 127}	177 to 196 {1800 to 2000, 130 to 145}	216 to 245 {2200 to 2500, 159 to 181}	314 to 343 {3200 to 3500, 231 to 253}
M18	118 to 137 {1200 to 1400, 86.8 to 101.2}	206 to 235 {2100 to 2400, 152 to 174}	245 to 275 {2500 to 2800, 181 to 202}	314 to 343 {3200 to 3500, 231 to 253}	441 to 471 {4500 to 4800, 325 to 347}
M20	147 to 167 {1500 to 1700, 108 to 123}	235 to 275 {2400 to 2800, 174 to 202}	314 to 353 {3200 to 3600, 231 to 260}	441 to 481 {4500 to 4900, 325 to 354}	618 to 657 {6300 to 6700, 456 to 485}
M22	177 to 206 {1800 to 2100, 130 to 152}	422 to 451 {4300 to 4600, 311 to 333}	539 to 579 {5500 to 5900, 398 to 427}	608 to 647 {6200 to 6600, 448 to 477}	843 to 883 {8600 to 9000, 622 to 651}
M24	235 to 265 {2400 to 2700, 174 to 195}	539 to 569 {5500 to 5800, 398 to 419}	706 to 745 {7200 to 7600, 521 to 550}	785 to 824 {8000 to 8400, 579 to 607}	1098 to 1138 {11200 to 11600, 810 to 839}

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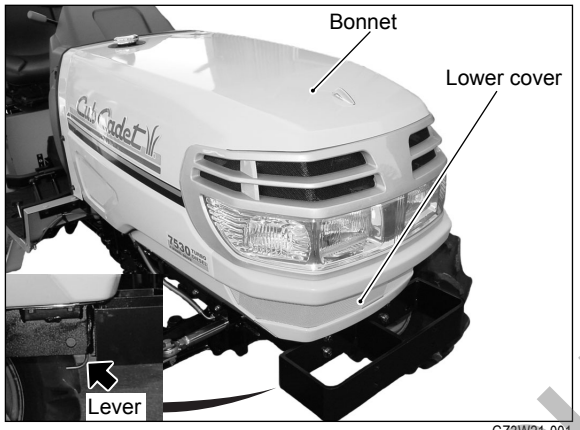
2 Installation and Removal of Engine Parts

2.1 Removal and Disassembly of Engine Assembly

Follow the below procedure for removal and disassembly of engine parts. (This procedure is based on the HST specification.)

⚠ CAUTION

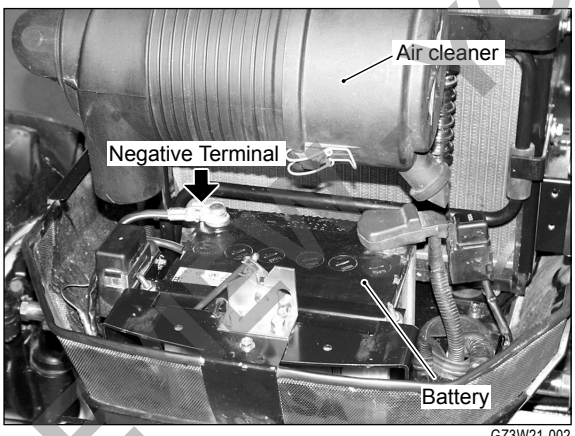
Remove and disassemble the engine parts while engine is cool. Otherwise, it may cause a burn.



GZ3W21-001

1 Removal of Engine Assembly

1. Open the bonnet.

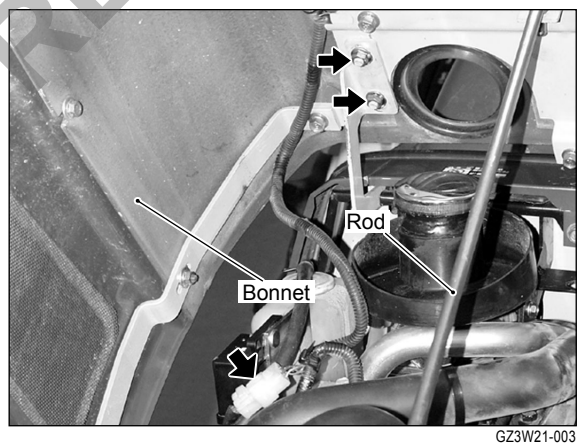


GZ3W21-002

2. Disconnect negative terminal of the battery cable.

⚠ CAUTION

When checking or connecting the wiring, make sure to disconnect the negative terminal of the battery cable.



GZ3W21-003

3. Disconnect the head lamp harness from harness E and remove the bonnet.

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1.4 List of Sealing Compound

Item	Sealing Compound	Mating Parts	Applicable Parts
Clutch			
Clutch housing assembly	Threebond #1208D	Engine rear plate	Clutch housing
	Lithium grease	-	Inside diameter of release hub
			Release lever
			Rotating part of release shaft
Grip	Threebond #1782	Accelerator lever	Lever
Accelerator lever	Lithium grease	-	Lever
Clutch assembly	Non-luster	Flywheel	Mounting face of clutch
HST			
HST case	Threebond #1208D	Clutch housing	Mating face
HST pedal	Lithium grease	-	Pedal
Speed control lever	Lithium grease	-	Lever
Speed control device	Lithium grease	Clutch housing	Brake arm
			Lock arm
Transmission			
Transmission	Threebond #1208D	Clutch housing, center case, mission case, and 4WD case, etc.	Mating face
	Lithium grease	Shuttle shaft	Oil seal
		Rear PTO shaft	Oil seal
		MID PTO shaft	Oil seal
		4WD shaft	Oil seal
4WD shaft	Lithium grease	-	Spline
Rear axle case	Threebond #1208D	Transmission case	Mating face
Rear axle cover	Threebond #1208D	Rear axle case	Mating face
	Lithium grease	Axle shaft	Oil seal
Shuttle lever	Lithium grease	Lever holder	Lever
Lock pedal	Lithium grease	-	Bush
Brake pedal	Lithium grease	Link, arm	Bush
PTO lever	Lithium grease	Link, arm	Bush
Sub gearing lever	Lithium grease	Link, arm	Bush
Main gearing lever	Lithium grease	Link, arm	Bush
Front Axle			
Front axle assembly	Lithium grease	Front and rear bracket	Bush
Breather pipe	Alteco CN4	Center case	Mating face
Wheel shaft cover	Lithium grease	Wheel shaft	Oil seal
	Threebond #1208D	Final case	Mating face
Kingpin case	Threebond #1208D	Holder	Mating face
Final case	Threebond #1208D	Holder	Mating face
	Lithium grease	Kingpin case	Oil seal
	Threebond #1782	-	Oil seal
Axle housing	Lithium grease	Center case	O-ring
Knuckle arm	Lithium grease	-	Bush

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6 Specification

Model				30hp GEAR	32hp HST
Engine	Model			K3M - DT	
	Type			Water Cooling 4-Cycle Diesel	
	Type of Injection			Direct Injection Type	
	Rated Output (Gross Value)		KW {HP}	22.4 {30}	23.9 {32}
	Rated Output (Net Value)		KW {HP}	-	
	PTO Output Gear Specification		KW {HP}	19.1 {26}	-
	PTO Output HST Specification		KW {HP}	-	19.1 {26}
	Rated Engine Speed		rpm	2500	
	Number of Cylinder			3	
	Gross Displacement		cc {in^3}	1496 {91.3}	
	Boa × Stroke		mm {in}	84 × 90{3.31 × 3.54 }	
	Oil Filter			Cartridge Type	
	Air Filter			Double Dry Type	
	Fuel Tank Capacity		L {USgal}	27 {7.1}	
	Reserve Tank			Standard	
	Generation Capacity		A	40	
Body Dimension				With AG Tire	With AG Tire
	Full Length 3 - PH		mm {in}	3070 {120.9}	
	Full Width (Min. Tread)		mm {in}	1270 {50}	1330 {52.4}
	Full Height (2-column Frame)		mm {in}	2105 {82.9}	2130 {83.9}
	Wheel Base		mm {in}	1710 {67.3}	
	Min. Under Clearance		mm {in}	337 {13.3}	364 {14.3}
	Wheel Base	Front Wheel	mm {in}	1070 {42.1}	
		Rear Wheel	mm {in}	1080 {42.5}	
	Turning Radius (with Brake)		m {in}	2.4 {94.5}	
	Vehicle Gross Weight		kg {lbs}	1050 {2315}	1110 {2447}
	Shared Load	Front Wheel	kg {lbs}	460 {1014}	-
		Rear Wheel	kg {lbs}	535 {1180}	-
Power Transmission Drive	Main Change Gear			Constant-Mesh (Main)	-
	Number of Gearing Stage			Drive: 8, Rev-drive: 8	-
	Shuttle (Drive & Reverse Drive)			Synchro	-
	HST	No. of Gearing Stage		-	3 Stages
		Driving Control		-	Standard
	Rated of March		km/h	1.4 to 18.1 (9.5 to 24)	0 to 20.6(355/80D20)
	Creep Rate (Gear)			-	-
	Final Drive			Spur	
	Brake	Brake		Wet Disc	
		Parking Brake		Ratchet	
	Clutch (Disc Diameter)		mm {in}	Dry Type Single Plate (ø 215{8.464})	
	Four-Wheel Drive			Standard	
	Gear Ratio (Front Wheel/Rear Wheel)			1.527	1.532

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8 Periodical Inspection and Maintenance List

- Refer to "Periodical Inspection and Maintenance List" and perform the inspection and maintenance in order to maintain the proper function and safety of the machine.
- "Periodical Inspection and Maintenance List" is a reference. Perform the inspection and maintenance as required.

Classification	Inspecting and Maintenance Item	Inspecting Details	Inspecting/Maintenance Period					Remarks
			Pre-Op	50hrs	100hrs	200hrs	300hrs	
Engine Related	Fuel tank	Inspection, refilling, and cleaning of tank	○				◎	Gas oil 27L{7.1gal}
	Fuel filter	Inspection, cleaning, and change		◎		●		Element
	Deterioration and leakage of fuel hose	Inspection and change	○			●		Change every 2 years
	Engine oil	Inspection, refilling, and change	○	● (1st time)	●			4.2L{1.1gal} of multi STOU oil or diesel oil over class CD
	Engine oil filter	Change		● (1st time)	●			Filter
	Radiator (Cooling water)	Inspection, refilling, cleaning, and change	○					Change once a year 5.5L{1.5gal} of spring water or antifreeze solution (long life coolant).
	Radiator screen	Inspection and cleaning		◎				Before operation in dusty area
	Air cleaner element	Inspection and cleaning		◎				Before operation in dusty area
	Fan belt	Inspection and adjustment		◎				Press belt center 10 to 13mm. {0.39 to 0.51in}
Elec. Equipment	Battery	Inspection and refilling	○					
	Electric wiring (Wiring, looseness of junction, and damage)	Inspection and correction	○					Change if damaged.
	Meters	Inspection	○					
Engine Related	Hydraulic oil filter	Change			● (1st time))		●	
	HST oil filter	Change			● (1st time)		●	

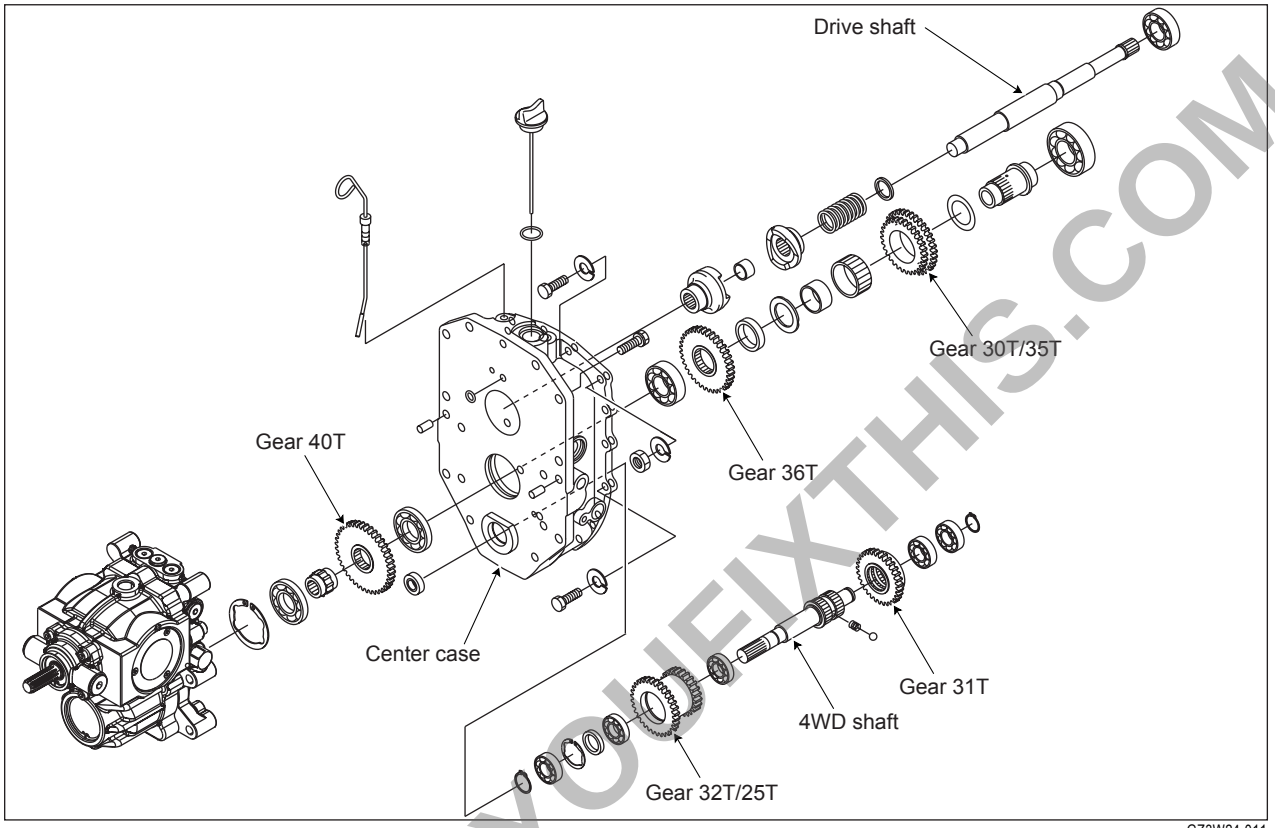
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5.3.1 Disassembly of Transmission Case Assembly (7532)

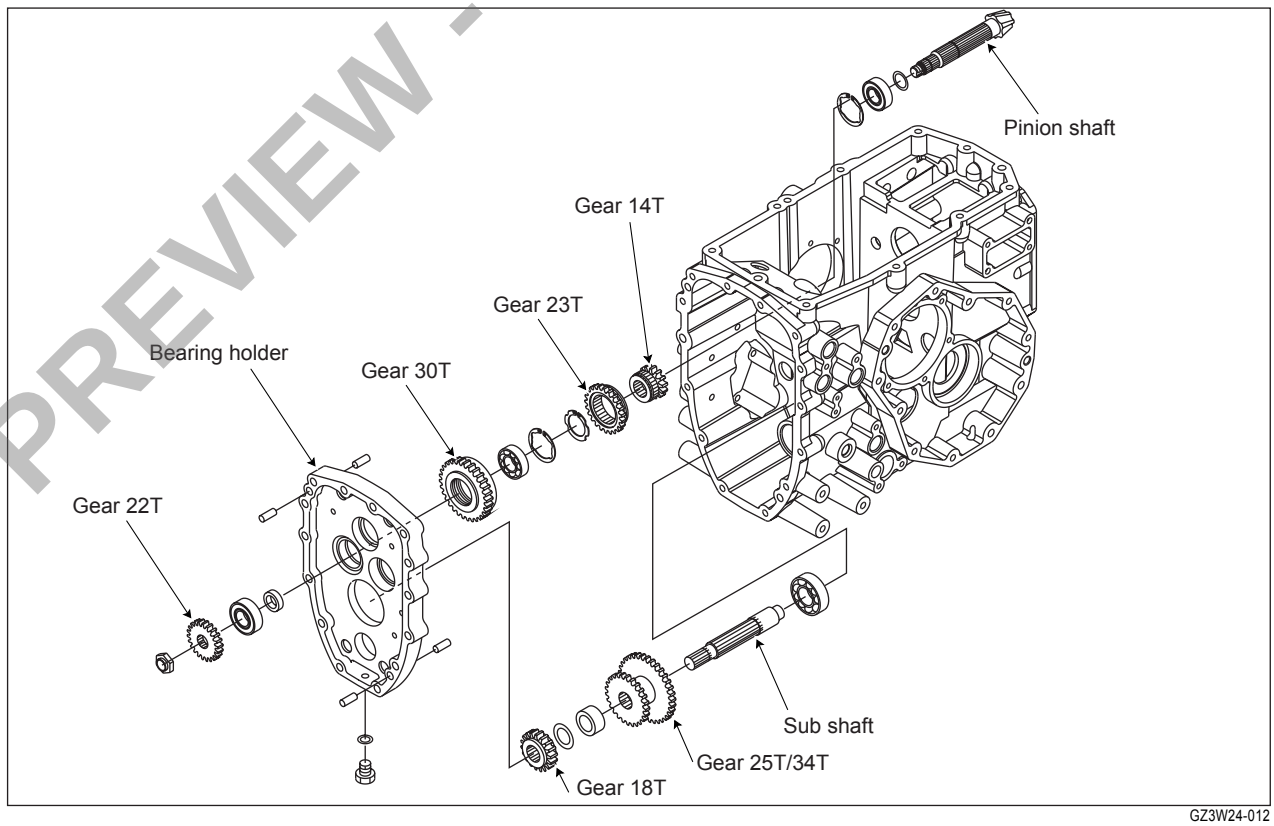
1 Follow the following procedure for disassembly of transmission case assembly (7532) after removing the link bracket.

1. Disassemble the center case.



GZ3W24-011

2. Disassemble the range transmission and sub shaft.

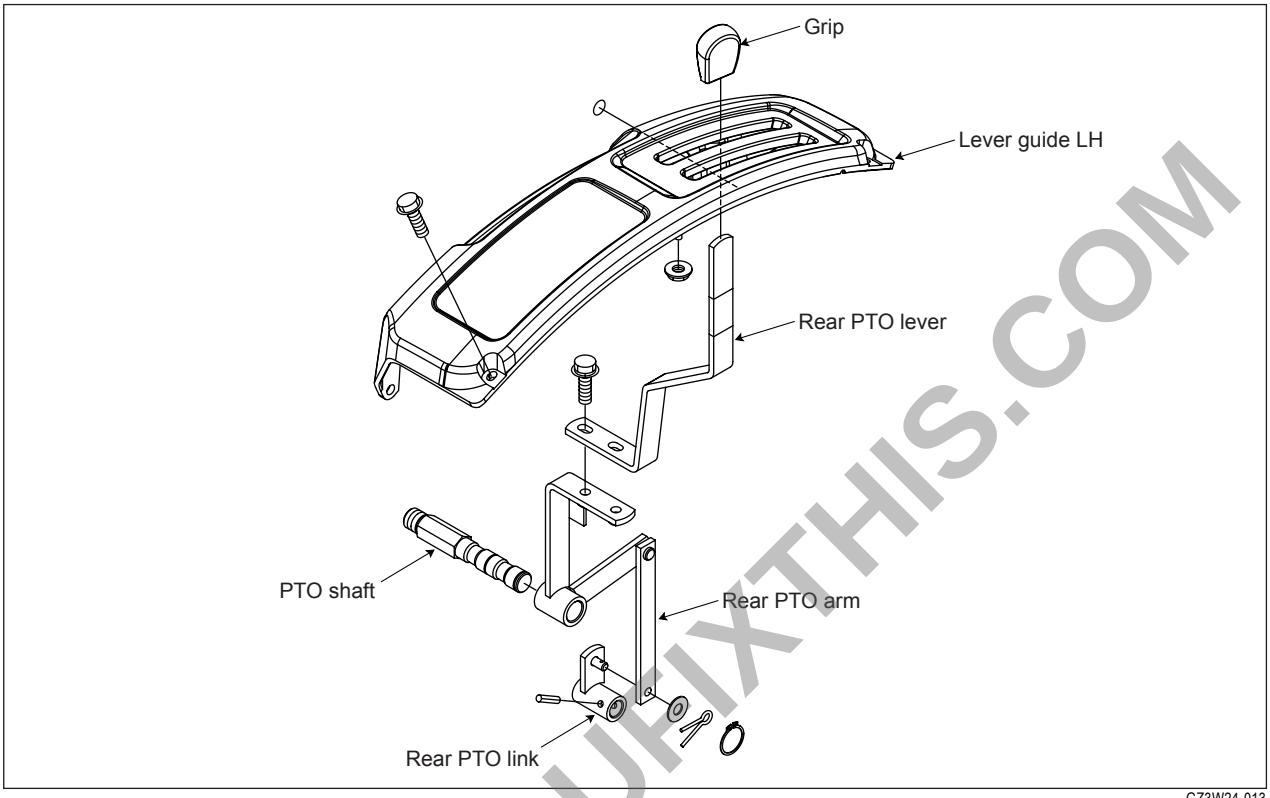


GZ3W24-012

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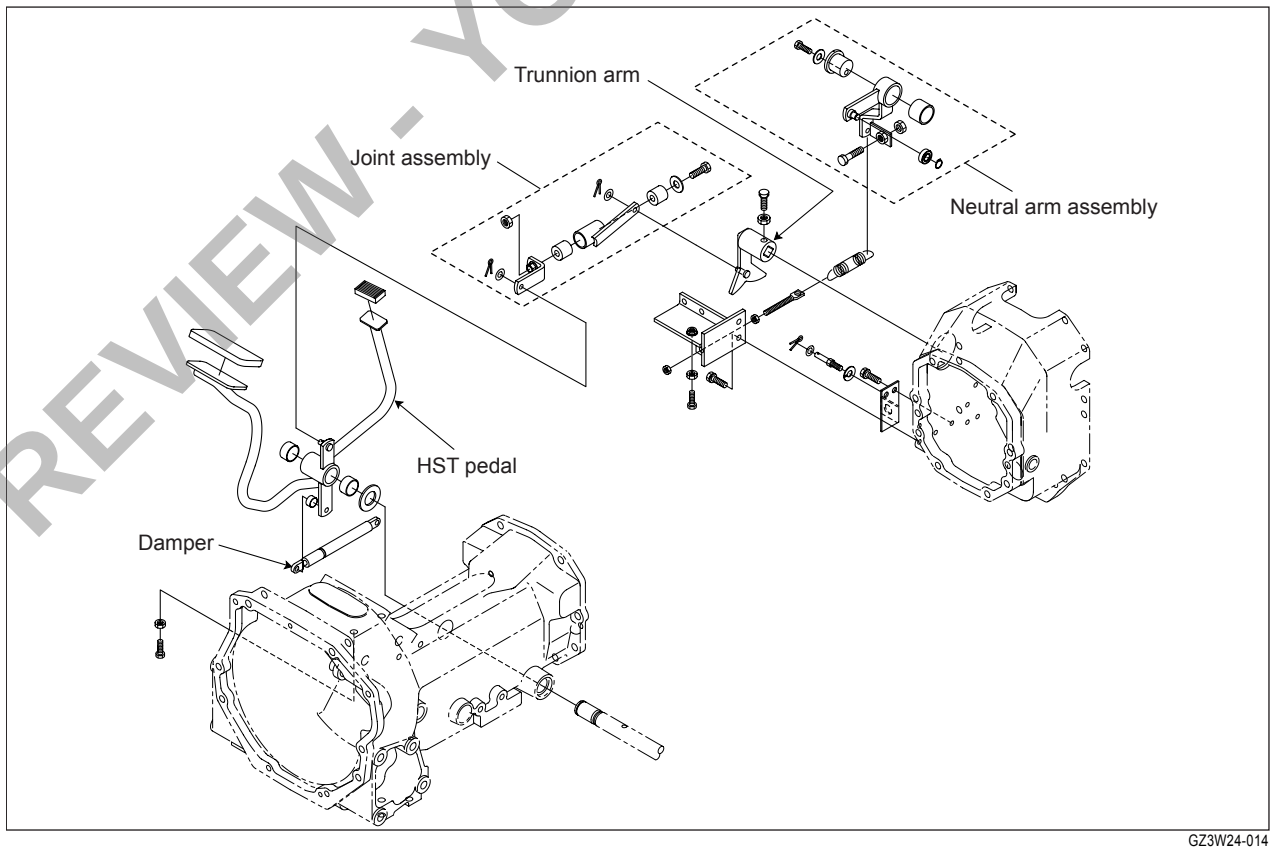
2 Disassembly of Transmission Control

1. Disassemble the PTO lever.



GZ3W24-013

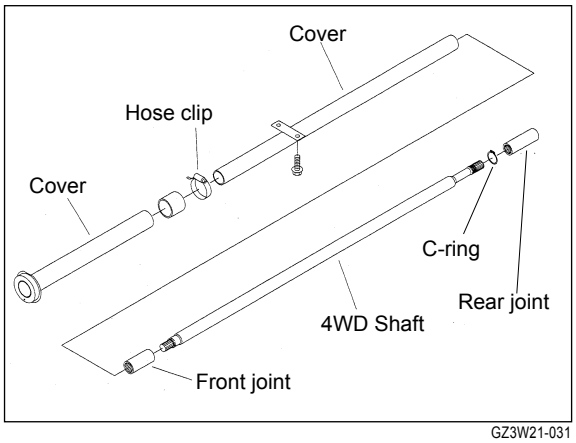
2. Disassemble the HST control.



GZ3W24-014

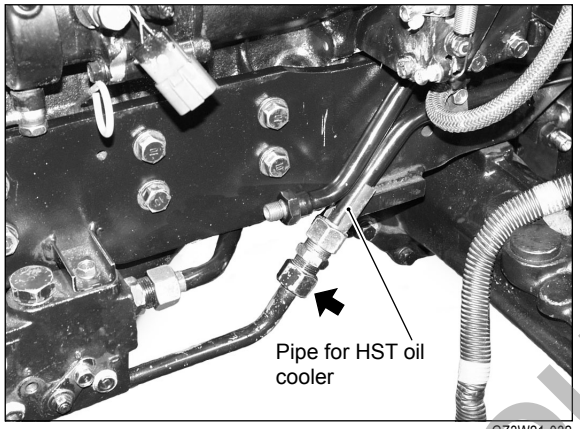
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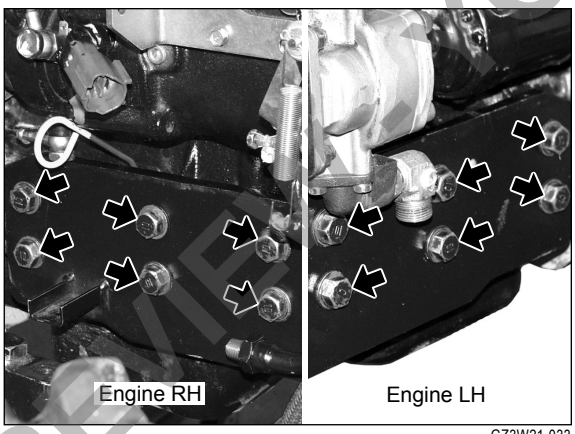
GZ3W21-031

30. Remove the 4WD shaft.



GZ3W21-032

31. Disconnect the pipe for HST oil cooler.

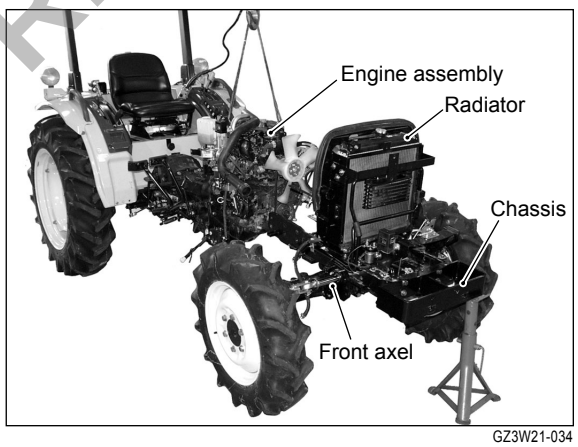


GZ3W21-033

32. Hang the engine assembly with chain block and remove the mounting bolts for chassis (engine RH and LH).

⚠ CAUTION

Hang the engine in balance.



GZ3W21-034

33. Remove the front axel, chassis and radiator together from the engine.

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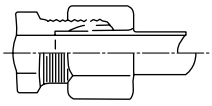
Flange Nut

Unit : (N•m {kgf•cm, lbf•ft})

Designation/Type \ Strength Classification for Bolt		4T	7T
M4	Without slotted	1.5 to 2.0 {15 to 20, 1.08 to 1.45}	-
M5	Without slotted	3.9 to 4.4 {40 to 45, 2.89 to 3.25}	6.9 to 7.9 {70 to 80, 5.06 to 5.79}
	With slotted	2.9 to 3.4 {30 to 35, 2.17 to 2.53}	5.4 to 6.4 {55 to 65, 3.98 to 4.7}
M6	Without slotted	6.4 to 8.4 {65 to 85, 4.7 to 6.15}	13.7 to 15.7 {140 to 160, 10.12 to 11.6}
	With slotted	4.9 to 6.9 {50 to 70, 3.62 to 5.06}	10.8 to 12.7 {110 to 130, 7.96 to 9.4}
M8	Without slotted	16.7 to 21.6 {170 to 220, 12.29 to 15.9 }	26.5 to 31.4 {270 to 320, 19.5 to 23.1}
	With slotted	12.3 to 17.2 {125 to 175, 9.04 to 12.7}	20.6 to 25.5 {210 to 260, 15.19 to 18.8 }
M10	Without slotted	34.3 to 39.2 {350 to 400, 25.3 to 28.9}	50 to 54.9 {510 to 560, 36.9 to 40.5}
	With slotted	33.3 to 38.2 {340 to 390, 24.6 to 28.2}	48.1 to 53 {490 to 540, 35.4 to 39.1}

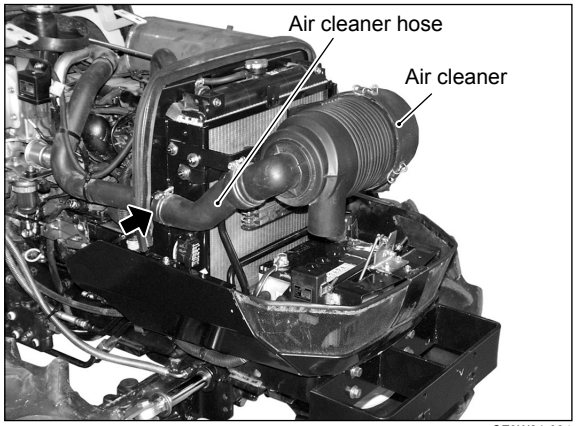
Bite Type Pipe Joint

Unit : (N•m {kgf•cm, lbf•ft})

Pipe Size (in {mm})		Temp. Tightening (1st)	Tightening (2nd)	Schematic Drawing
External Diameter	Thickness			
8 {0.315}	1 to 1.5 {0.039 to 0.059}	29 to 34 {3 to 3.5, 21.7 to 25.3}	29 to 34 {3 to 3.5, 21.7 to 25.3}	 GZ3W20-001
10 {0.394}	1 to 1.5{0.039 to 0.059}	29 to 39 {3 to 4, 21.7 to 28.9}	34 to 49 {3.5 to 5, 25.3 to 36.2}	
12 {0.472}	1 to 2.5{0.039 to 0.098}	44 to 59 {4.5 to 6, 32.5 to 43.4}	49 to 69 {5 to 7, 36.2 to 50.6}	
15 {0.591}	1 to 2.5 {0.039 to 0.098}	69 to 98 {7 to 10, 50.6 to 72.3}	88 to 118 {9 to 12, 65.1 to 86.8}	
18 {0.709}	1.5 to 2 {0.059 to 0.079}	118 to 147 {12 to 15, 86.8 to 108.5}	147 to 167 {15 to 17, 108.5 to 122.9}	
20 {0.787}	2 to 3 {0.079 to 0.118}	147 to 177 {15 to 18, 108.5 to 130.2}	167 to 206 {17 to 21, 122.9 to 151.9}	
22 {0.866}	2 {0.079}	177 to 206 {18 to 21, 130.2 to 151.9}	196 to 235 {20 to 24, 144.6 to 173.6}	
27.2 {1.071}	2.8 {0.11}	323 to 343 {33 to 35, 238.7 to 253.1}	343 to 373 {35 to 38, 253.1 to 274.8}	

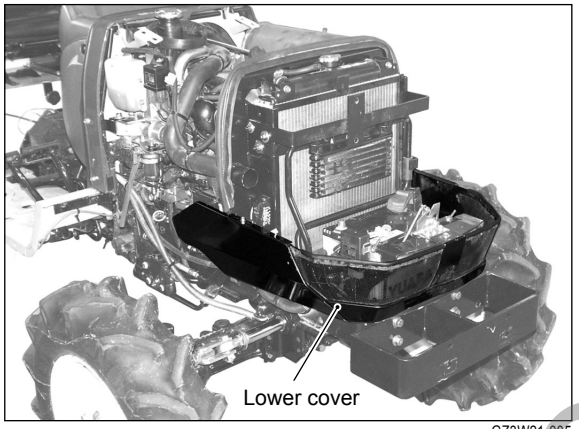
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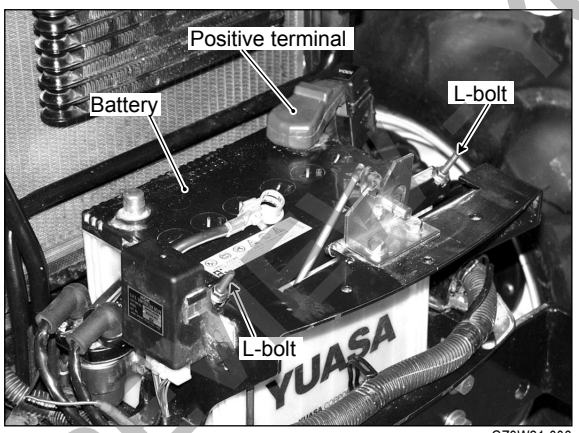
GZ3W21-004

4. Remove the air cleaner hose and air cleaner.



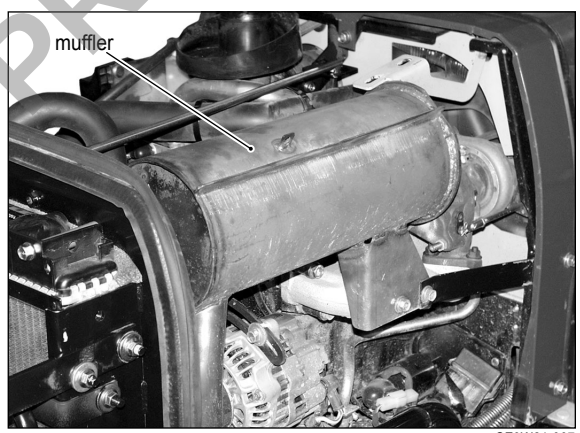
GZ3W21-005

5. Remove the lower cover.



GZ3W21-006

6. Remove the battery.
- Disconnect the positive terminal of the battery cable
- Remove the fixing L-bolt from battery



GZ3W21-007

7. Remove the muffler.

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