



Mitsubishi
Operator's Manual
**MT180H
& MT180HD**

Operator's Manual

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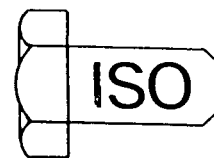
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MANUAL PREVIEW

MITSUBISHI
MT180H
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INSTRUCTION BOOK

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⚠ CAUTION

1. Avoid widening front tread of the 2 and 4-wheel drive tractor by switching the right and left front tires as this may cause serious troubles on the steering linkage.
2. Check at frequent intervals to make sure that the rear and front wheel are tightened securely to specified torque and that the axle housing and gear case are secured each other to specified torque.

REAR WHEEL INSTALLATION

Make sure that rear tires are mounted so that the lugs on the tire form the staggered V's in series as viewed from the front of the tractor.

BALLAST WEIGHT

The slipping not only damages the tire but also results in working inefficiency and greater fuel consumption. Slipping, therefore, must be minimized as much as possible. For that purpose, ballast weights are available as optional equipment. It is recommended that the tractor be provided with ballast weights when working in the place where slipping is likely to occur. The ballast weights can be attached on rear wheel discs and the front of the chassis. Ballast can also be applied by putting water into the tires instead of using the ballast weights. For this operation, pay particular attention to the temperature and air pressure. In cold weather where the temperature drops below 0°C (32°F), use water with antifreeze and never fill the tire with only water. It is of course possible for you to employ a combination of water in the tire and ballast weights. Consult your dealer concerning the water injector and method of injection.

Rear wheel weight: 2-WD and 4-WD AG & ES

33 kg (72.8 lb) x 2 = 66 kg (145.5 lb)

Chassis weight: 2-WD and 4-WD

20 kg (44.1 lb) x 1 = 20 kg (44.1 lb)

TIRE PRESSURE

Tire pressure should be checked frequency. Either too high or too low pressure results in deterioration of the tire. To properly maintain the tires, make sure that the tire pressure is checked at least once a week.

		Tire size	Ply	Std. pressure	Valve type
AG	Front 2-WD	4.50-10	4	2.0 kg/cm ² (28.4 psi)	TR-13
	Front 4-WD	5-12	4	2.0 kg/cm ² (28.4 psi)	TR-13
	Rear 2 & 4-WD	8-18	4	1.0 kg/cm ² (14.2 psi)	TR-218A
ES	Front 2-WD	20x8.00-10	4	1.5 kg/cm ² (21.3 psi)	TR-413
	Front 4-WD	6-12	4	1.5 kg/cm ² (21.3 psi)	TR-13
	Rear 2 & 4-WD	9.5-18	4	1.0 kg/cm ² (14.2 psi)	TR-218A

NOTE

Air pressure of the tires must be changed according to the loading weight on the tires. For more details, please call and talk with local dealer.

DRAWBAR



The fixed type drawbar is provided as standard. To tow an attachment or trailer, be sure to use the drawbar.

3-POINT LINKAGE



This tractor is provided with a 3-point linkage of category 1. The implement which is to be mounted, must match the 3-point linkage.

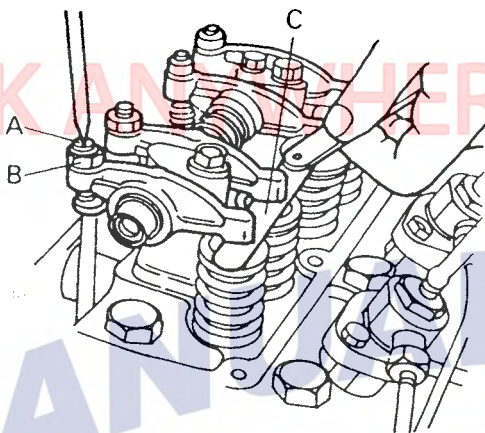
NOTE

When an implement is towed with the linkage drawbar installed on lower links, the lower links should always be kept horizontal.

HYDRAULIC SYSTEM (Position control)

Your tractor is provided with the live hydraulic system in which a hydraulic pump is driven directly by the engine camshaft and always makes the oil circulate to exert the hydraulic pressure while the engine is running.

VALVE CLEARANCE ADJUSTMENT



Adjust the valve clearances when the sound of the tappets is loud or when the engine does not run smoothly without anything abnormal with the fuel system.

Adjust the valve clearances by loosening the lock nut (B), the adjusting screw (A) using a screwdriver and then applying a thickness gauge to (C). When locking the adjusting screw by means of the lock nut (B), support the adjusting screw firmly using a screwdriver so that both are not rotated together.

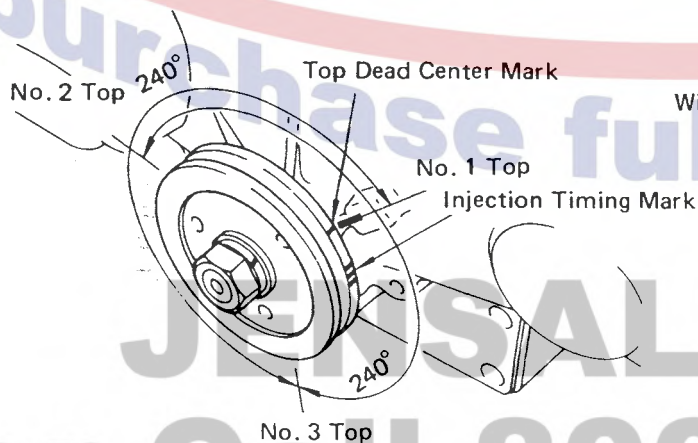
Valve clearance: Intake & Exhaust
0.25 mm (0.01 in.) in cold condition.

2. Position the piston in No. 1 cylinder at top dead center on compression stroke and adjust its intake and exhaust valve clearance.
3. Then rotate the crankshaft 240 deg. clockwise to move the piston of No. 3 cylinder to top dead center on compression stroke, and adjust its valve clearance.
4. Then rotate the crankshaft 240 deg. clockwise to move piston of No. 2 cylinder to top dead center on compression stroke, and adjust its valve clearance.

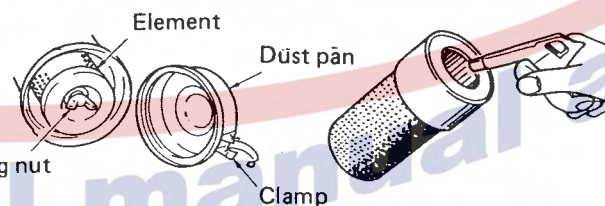
AIR CLEANER



VALVE CLEARANCE ADJUSTMENT PROCEDURE



1. The valve clearance should be checked with a cold engine and with the piston at top dead center on the compression stroke.
The top dead center on the compression stroke of No. 1 piston can be determined by the timing marks on the crank pulley and timing gear case.



The air cleaner element, when remarkably stained or clogged, may prevent smooth start of the engine or deteriorate its performance, preventing normal operation. Keep the element always clean to ensure full performance of engine.

Clean the element in the following procedure:

1. Remove the dust pan clamp and take out the dust pan. Clean the separator plate ass'y and dust pan.
2. Unscrew the wing bolt and take out the element. Blow the compressed air to remove dust completely. Blow out the dust from the inside of the rubber seal and tap hole.

SECTION 7. STORING

STORAGE

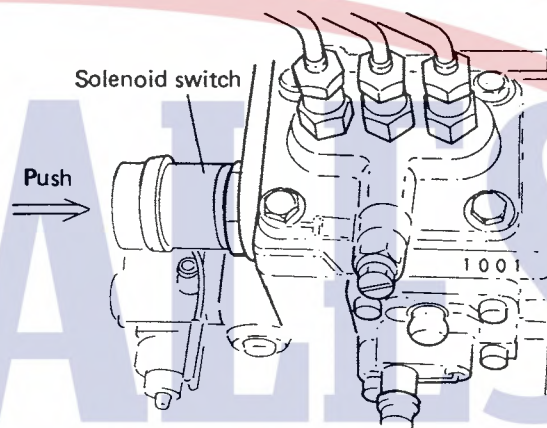
A tractor should be stored in a dry and protected place when it is left without use for some period. It should be noted that leaving a tractor outdoors will result in shortened life of the tractor.

For storing the tractor please follow the procedures shown below:

1. After washing and cleaning the tractor be sure to lubricate it. And if hydraulic implement is mounted apply rustinhibiting grease to all the exposed cylinder or piston rod surfaces.
2. Run the engine until oil in the crankcase gets warm enough, then drain the oil and replace the oil filter. Refill the crankcase with fresh oil specified in the "LUBRICATION TABLE" and run the engine for five minutes or so.
3. Store the tractor in the place where the tires may not be in the sun. Before storing wash and clean the tires. In case of long term storage jack up the tractor so that the tires may be under no load. When the tractor is not jacked up inflate the tires periodically.
4. After the engine gets cooled enough pour one table-spoonful of engine oil from the air breather pipe. To distribute the oil all over the cylinder walls crank the engine for five or ten seconds. Be sure to reinstall the breather hose on the pipe after pouring oil.
5. Drain the engine cooling system and fill it with a mixture of antifreeze and water as specified on the container for the lowest expected temperature.
6. Fill the fuel tank with fuel, and clean the fuel filter.
7. Plug up the end of the exhaust pipe.
8. Clean the air cleaner and then cover it so as to seal the air intake system.
9. Check the battery for proper electrolyte level and specific gravity at least once a month. In order to increase the durability as well as prevent freezing, the battery should be kept fully charged all the time.
10. Hold the clutch at the disengaged position in use of clutch lock, so that clutch facing will be prevented from sticking to the flywheel or clutch pressure plate.

REOPERATION AFTER STORAGE

1. Check to make sure that viscosity of the oil in the engine crankcase is as specified in "LUBRICATION TABLE".
2. Remove the plug from the exhaust pipe.
3. Remove the cover over the air cleaner.
4. Check to make sure that the battery is fully charged and the terminal is clamped tightly enough.
5. Fill the fuel tank.
6. Release the clutch pedal.
7. Just like the case of storing, pour a table spoonful of engine oil from the breather pipe and crank the engine while pushing the rubber part of solenoid switch for five or ten seconds to prevent from engine starting. (See the illustration.)



8. Start the engine as described in "STARTING AND STOPPING THE ENGINE" and let it run slowly. Do not accelerate the engine rapidly or operate it at high speed immediately after starting.

CHASSIS

DIMENSIONS

DIMENSIONS		MT180H	MT180HD
		2-wheel drive	4-wheel drive
Model	.....		
Overall length (To end of rear tire)	.....	2,225 mm (87.6 in.)	
Overall width (To end of tire)	.....	940 mm (37.0 in.)	970 mm (38.2 in.)
Overall height (To top of steering wheel)	.....	1,175 mm (46.3 in.)	1,185 mm (46.7 in.)
Wheel base	.....	1,422 mm (56.0 in.)	
Ground clearance	.....	280 mm (11.0 in.)	215 mm (8.46 in.)
Tread (w/AG tire)			
Front	.....	720 mm (28.3 in.)	785 mm (30.9 in.)
Rear	.....	740 and 890 mm (29.1 and 35.0 in.)	
Weight	.....	575 kg (1,268 lbs.)	625 kg (1,378 lbs.)
Turning radius (with brakes)	.....	1,850 mm (72.8 in.)	

CLUTCH

Clutch type Dry single disc plate

TRANSMISSION

Type	Hydrostatic transmission with differential lock
Number of shift levers and pedal	2 levers and 1 pedal (HST control lever, High-Low shift lever and HST control pedal)
Differential gear	Bevel gear type

POWER TAKE OFF

Power take off shaft	1-3/8" 6 spline SAE standard
PTO Shaft speed	606 rpm, 1,186 rpm/2,700 engine rpm
Standard PTO speed (Low)	540 rpm/2,405 engine rpm
(High)	1,000 rpm/2,278 engine rpm
Direction of rotation	Clockwise as viewed from the rear

BRAKE

Type	Foot operating internal expansion water-proof dry type
Parking brake	Locking main brake by hand operating lever

STEERING

Steering type	Ball screw type
Toe-in (2-WD).....	5 ~ 8 mm (0.20 ~ 0.31 in.)
(4-WD).....	0 ~ 6 mm (0 ~ 0.24 in.)

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