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WORK SAFELY—FOLLOW THESE RULES

Instructions given with this symbol are for personal safety. Be sure you and your workers follow them.

A CAREFUL OPERATOR IS THE BEST INSURANCE AGAINST AN ACCIDENT



MM-1006

Before handling ANY equipment, READ the OPERATORS MANUAL.

SERVICING AND BEFORE STARTING

Make sure that everyone is clear of machinery before starting the engine or operation.

Misuse or modification of this machine can cause:

— mechanical breakdown,
— property damage,
— injury or death.

Always use proper safety precautions. Tell your workers how to work safely.

Shut off the engine before working on equipment.

Turn the radiator cap slowly counter-clockwise to the pressure release point to allow the pressure or any steam to escape; then press down on the cap and continue to turn until the cap is free to be removed.

Check brake and clutch pedals for correct operation.

Reduce tipping hazards by spreading wheels as far as your work permits.

Be sure muffler and exhaust pipe are in place so exhaust gases are discharged above the operator.

Use only metric tools on metric fastners.

Always keep the operator's compartment clean. Keep dirt, trash, and grease from the pedals, mounting handles, steering wheel, and controls.

Always carry a "Charged" fire extinguisher and a first aid kit.

Avoid loose-fitting clothing, which would catch on moving parts.

Mounting assist handles and steps are provided for your safety. Use them when getting on or off the tractor.

STARTING

Always sit in the tractor seat to start the engine. Never try to do it from the ground. Know the controls and what they do. Place the range transmission lever in the "N" (neutral) position and the PTO lever in "OFF" position.

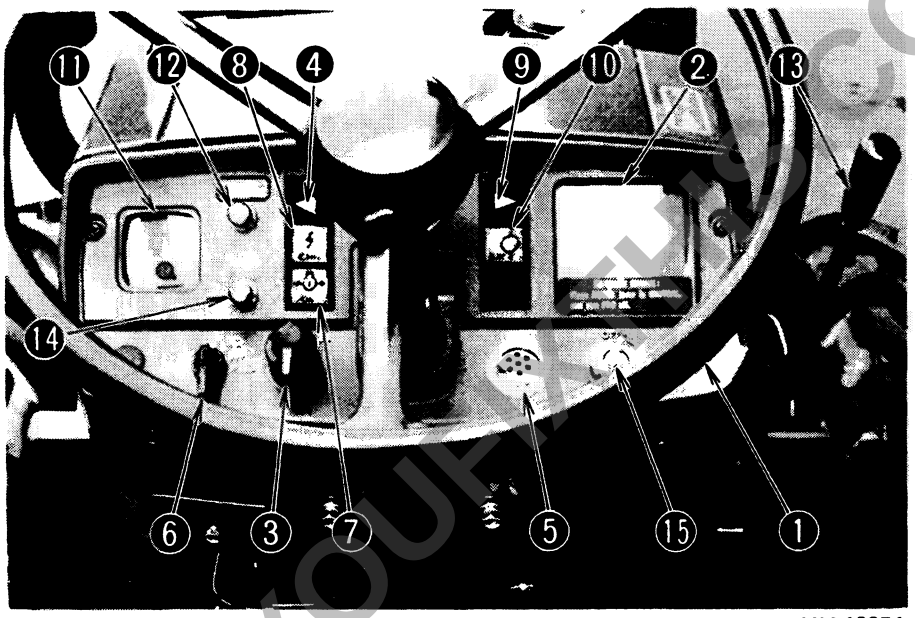
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INSTRUMENTS AND CONTROLS

Before attempting to start or operate the tractor, be sure to review all the instructions for your new tractor and thoroughly familiarize yourself with the tractor instruments and controls.

INSTRUMENT PANEL AND CONTROLS



MM-1095A

1 - Steering wheel
2 - Tachometer
3 - Combination flash and turn signal switch
4 - Left turn signal indicator
5 - Glow signal
6 - Lighting switch
7 - Engine oil pressure tellite
8 - Charge indicator tellite
9 - Right turn signal indicator
10 - Coolant temperature tellite
11 - Fuel gauge
12 - Tellite test button
13 - Engine speed control lever
14 - Horn button switch
15 - Key start switch

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OPERATING THE TRACTOR



MM-1037

CAUTION! No riders.

NEUTRAL STARTING SWITCH

The tractor engine maybe started only when the transmission range lever is in "NEUTRAL" and the PTO control is in the "OFF" position.

STARTING THE ENGINE

When Temperatures Are Above Freezing

Proceed as follows:

Open the fuel shut-off valve. The valve is on the bottom right side of the fuel tank.



MM-1111

Put range shift lever and PTO lever in "Neutral".

Place the engine speed control lever at the middle position for starting. During cold weather, or when required, improved starting can be obtained by placing the engine speed control lever in high idle position.

Turn the start key switch to the heat position and pre-heat the glow plugs until the glow plug indicator turns bright red (approximately 10 seconds).



This symbol shows high idle position.



This symbol shows low idle position.

NOTE: If high idle position is used for starting, as soon as the engine starts, reset the engine speed control lever to obtain about 1200 RPM.

Push down on the clutch pedal.

Turn the key switch to the start position to crank the engine.

NOTE: Do not operate the cranking motor for more than 10 seconds at any one time. If the engine does not start within this time, wait 10 seconds and then crank again.

When the engine starts, check the oil pressure tellite. If the tellite stays on, stop the engine and find out what is wrong.

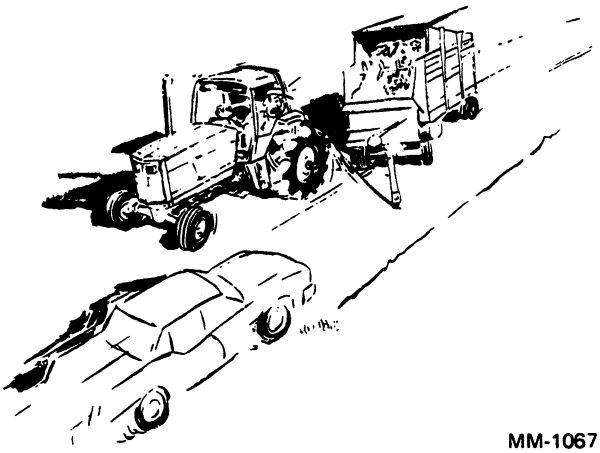
If the engine fails to start after following the above procedure, see your International Harvester dealer.

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HITCHING TRAILING EQUIPMENT TO THE TRACTOR

Do not attempt to tow when the drawbar is removed
Drawbar bolts must be kept tight.



MM-1067

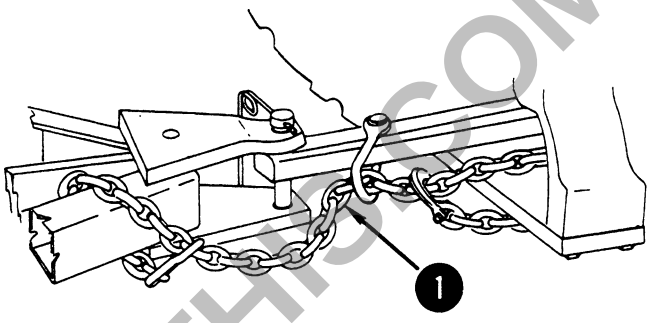
CAUTION! When road transporting, lock brakes together, use lighting and marking devices consistent with local law enforcement agencies. Use SAFETY CHAINS on towed equipment.

CAUTION! All trailing type equipment must be attached to the drawbar as outlined in the following instructions. Do not attach the equipment to any other location on the rear of the tractor.

SAFETY CHAIN

When transporting equipment on the highway, it is recommended that a safety chain with a rating greater than the gross load of the towed equipment, be used.

Install the safety chain as shown, leaving some slack at the tractor drawbar support.

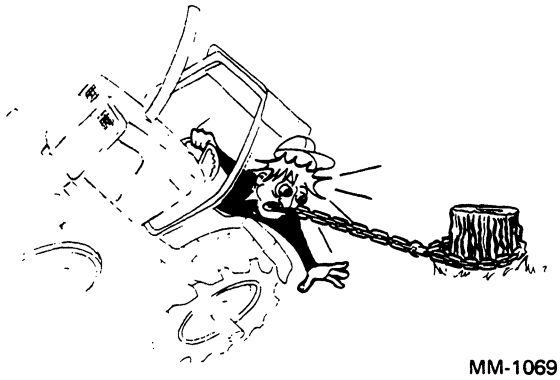


MM-1068

1 - Safety chain

After attaching the safety chain, make a trial run by diriving the tractor to the right and to the left for a short distance to check the safety chain adjustment. If necessary, readjust to eliminate a tight or loose chain.

When using a long chain or cable to hitch the tractor to the load, drive the tractor forward slowly until all slack is taken out.



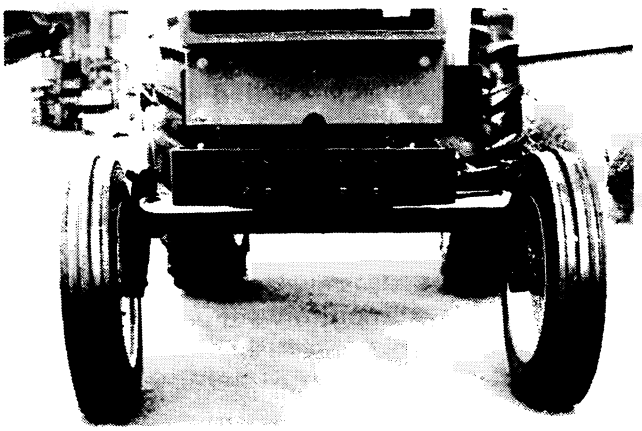
MM-1069

CAUTION! Reduce rear tipping by hitching only to the drawbar – NEVER HIGHER. USE SEAT BELTS with ROPS and safety enclosures.

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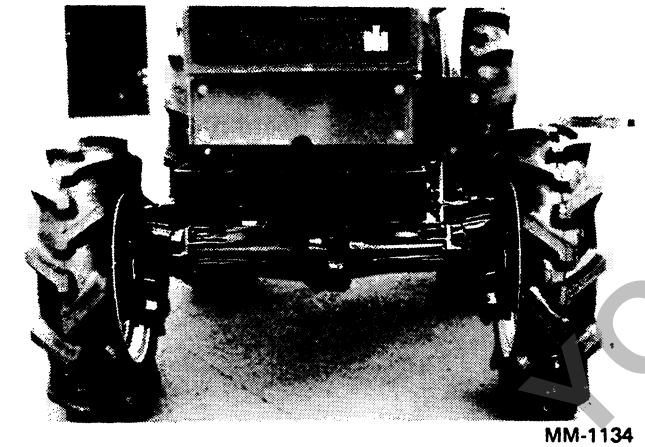
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FRONT WHEELS



MM-1133

2WD



MM-1134

4WD

244 commonly equipped with 4.00-15 tires for 2WD and 6.00-14 tires for 4WD, 254 commonly equipped with 5.00-15 tires for 2WD and 7.00-14 tires for 4WD.

The front wheels are tightend with four bolts for 2WD and six bolts for 4WD to the hubs.

Torque for wheel bolts and tie rod end nuts

2WD
Tightening torque;
Tie rod end nuts (M17) 55 to 65 ft-lbs (74 ~ 88 N-m)
Wheel bolts (M14) 87 to 97 ft-lbs (118 ~ 131 N·m)

4WD
Tightening torque;
Tie rod end nuts (M12) 51 to 58 ft-lbs (68 ~ 78N-m)
Wheel bolts (M14) 87 to 97 ft-lbs (118 ~ 131 N·m)

Check the bolt to keep them tight at the intervals recommended in the "PREVENTIVE MAINTENANCE GUIDE".

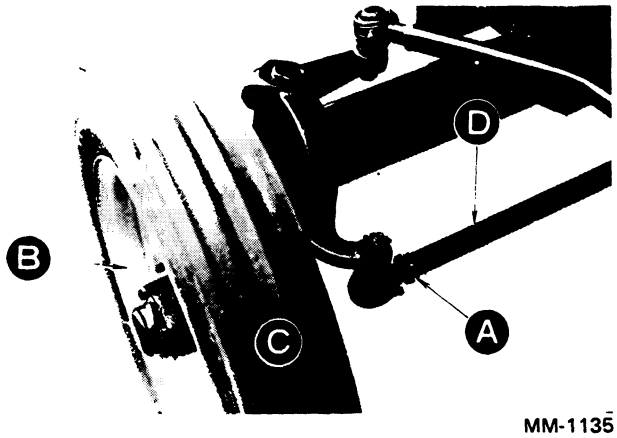
NOTE: The front wheels must always be assembled with the concave side in.

ADJUSTING THE TOE-IN

The front wheels should have 1/4-inch (6.4 mm) ±1/16-inch (1.5 mm) toe-in, that is, 1/4-inch (6.4 mm) closer together in the front than in the rear. To check the toe-in, with the tractor on level ground and the wheels in the straight-ahead position, place chalk marks on the rims at points "B" at the same height as the centerline of the hub caps or axle extensions and measure the distance between them. Move the tractor forward a distance equal to one-half revolution of the front wheels. The chalk marks will now be at point "C". The measurement at points "C" should be 1/4-inch (6.4 mm) ±1/16-inch (1.5 mm) greater than at points "B".

To adjust the toe-in, loosen the lock nuts "A" at both ends of the tie rods.

Screw the tie rods "D" in or out to make an necessary adjustments.



MM-1135

Tighten the lock nuts "A". Tie rods on the left and right sides must be approximately the same length so that full wheel turn in either direction may be obtained.

NOTE: Never operate front wheel drive tractor with front wheels reversed to the outer position, steering linkage problem may result.

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SPECIFICATIONS

	TRACTOR MODEL	
	244	**254**
CAPACITIES, Approx. Cooling system	6.1 qts. (5.8L)	
Crankcase pan with filter	4. 2 qts. (4 0L)	
Differential housing (all-wheel drive)	3.7 qts (3.5L)	
Fuel tank	5 5 gals. (21L)	
Transmission, differential case & rear axle carrier	22.2 qts (21L)	
ENGINE Make and model	MITSUBISHI K3D	MITSUBISHI K3E
Cylinders	3	
Bore	2.874 in (73 mm)	2.992 in (76 mm)
Stroke	3.071 in (78 mm)	3.071 in (78 mm)
Displacement	59.77 cu.in (979 cc)	64 78 cu in (1061 cc)
Engine speeds, R.P M Rated full load	2700	2800
High idle	2900 $^{0}_{-75}$	3000 $^{0}_{-75}$
Low idle	925 ±25	
Standard PTO (540 RPM)	2478	
POWER TAKE-OFF SHAFT SPEEDS **540 RPM PTO:** At rated engine speed	588	610
At high idle	632	654
At low idle	202	
1250 R.P.M. PTO: At rated engine speed	1241	1287
At high idle	1333	1379
At low idle	425	

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SPECIFICATIONS

GROUND SPEEDS

MPH (km/h)

No allowance for tire slippage

Tractor Model		244				254			
Engine Speed RPM		2,700				2,800			
Tire Size		AG STD	AG	TURF	EXTRA TURF	AG STD	AG	TURF	EXTRA TURF
Range	Gear	8.3–24	9.50–24	13.6–16	11.2/10-24	9.5–24	11.2–24	13.6–16	11.2/10-24
LOW	1st	0.8 (1.2)	0.8 (1.3)	0.8 (1.2)	0.8 (1.3)	0.8 (1.3)	0.8 (1.4)	0.8 (1.2)	0.8 (1.4)
	2nd	1 1 (1.8)	1.2 (1.9)	1 1 (1.7)	1.2 (1 9)	1.2 (1.9)	1.2 (2.0)	1.1 (1.8)	1.2 (2.0)
	3rd	1.6 (2.6)	1 7 (2.7)	1.6 (2.5)	1.7 (2.8)	1.7 (2.8)	1.8 (2.9)	1.6 (2.6)	1.8 (2.9)
MEDIUM	1st	2.3 (3.6)	2 4 (3.8)	2.2 (3.6)	2.5 (4.0)	2.5 (4.0)	2.6 (4.1)	2.3 (3.7)	2.5 (4.1)
	2nd	3.3 (5.2)	3.4 (5.5)	3.2 (5.2)	3.5 (5.7)	3.5 (5 7)	3.7 (5.9)	3.3 (5.4)	3.7 (5.9)
	3rd	4 8 (7.6)	5.0 (8.1)	4.7 (7.6)	5.2 (8 4)	5.2 (8.4)	5.4 (8.7)	4.9 (7.6)	5.3 (8.6)
HIGH	1st	5.3 (8.5)	5.6 (8.9)	5.2 (8.4)	5.7 (9.3)	5.7 (9.3)	6.0 (9.6)	5.4 (8.7)	5.9 (9.5)
	2nd	7 6 (12 2)	8.0 (12.9)	7.5 (12.1)	8.3 (13.4)	8.3 (13 4)	8.6 (13.9)	7.8 (12.5)	8.5 (13.7)
	3rd	11 1 (17.9)	11.7 (18 9)	11 0 (17.7)	12.1 (19.5)	12.1 (19.5)	12.6 (20.3)	11.4 (18.3)	12.5 (20.1)
LOW	Rev.	1.1 (1 7)	1 1 (1.8)	1 1 (1.7)	1.2 (1.9)	1.2 (1.9)	1.2 (2.0)	1.1 (1.8)	1.2 (2.0)
MED		3.2 (5.1)	3.4 (5.4)	3.2 (5 1)	3.5 (5.6)	3.5 (5.6)	3.6 (5.8)	3.3 (5.3)	3.6 (5.8)
HIGH		7 5 (12.0)	7.9 (12.7)	7.4 (11.9)	8.2 (13.1)	8.2 (13.1)	8.5 (13.6)	7.6 (12.3)	8.4 (13.5)

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