ENGINE

PROBLEM	POSSIBLE CAUSE	SOLUTION
The engine will not start or is difficult to start.	Incorrect starting procedure.	See starting procedure.
	Fuel level low or empty.	Check fuel level.
	Air in fuel system.	Bleed fuel system.
	Engine oil viscosity not right.	Use oil of right viscosity.
	Fuel not suitable for ambient temperature.	Use correct type of fuel for temperature conditions.
	Fuel system contaminated.	Clean system.
	Fuel filter clogged.	Replace filter element.
	Fuel injector fault.	Contact your dealer.
The engine does not run properly and/or cuts out.	Fuel system contaminated.	Clean system.
	Fuel injector fault.	Contact your dealer.
Engine does not reach maximum power.	Engine overload.	Change to lower gear or reduce load.
	Air filter clogged.	Carry out maintenance on air filter.
	Incorrect fuel type.	Use the right fuel.
	Low engine operating temperature.	Check thermostat.
	Fuel injector fault.	Have your dealer check the injectors.
	Implement incorrectly set.	See equipment manual.

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ENGINE DATA

Model	**JX 95**
Engine make	**IVECO**
	8045.25L.939
BOSCH Injection pump	TC L952
	4–stroke diesel, direct injection
Naturally aspirated	NO
Turbocharged	MITSUBISHI–GARRET
Number of cylinders	4
Bore and stroke mm (in)	104 x 115 (4.1 x 4.5)
Total displacement cm^3 (cubic in)	3908 238.47
Compression ratio	18±0.5:1
Engine max. EEC 80/1269 kW/rev/min HP/rev/min	 68.0/2500 92.0/2500
Engine max. ISO 14936 kW/rev/min HP/rev/min	 69.0/2500 94.0/2500
Engine max. ECE R 24 Power kW/rev/min HP/rev/min	 66.5/2500 90.0/2500
Maximum torque Nm / rev/min	346 / 1500
Dynamic equalizer with counter–rotating weights	YES
High Idle Speed (rpm)	2730 +/– 50
Low Idle Speed (rpm)	650 +/– 50

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LUBRICATION AND MAINTENANCE TABLE

The numbers in the second column are with reference to the operations and illustrations in the following pages of this section.

Hours of work	number Operation	Maintenance operation	Functional check	Top up	Clean	Grease	Adjust	Replace	Page
Flexible maintenance	1	Main clutch					●		4-9
	2	Brake pedals					●		4-9
	3	Fan belt					●		4-10
	4	Air filter Valve			●				4-10
With warning light ON	5	Dry air filter external cartridge			●				4-11
	6	Fuel sedimenter			●				4-12
Every 10 hours	7	Engine oil	●	●					4-13
	8	Battery	●	●					4-14
	9	Hydrostatic steering reservoir	●	●					4-14
	10	Radiator expansion tank	●	●					4-15
Every 50 hours	11	Hydraulic lift and linkage				●			4-16
	12	Steering cylinders (MFD Models)				●			4-16
	13	Front axle rear pivots (MFD Models)				●			4-17
	14	Front axle front pivot (MFD Models)				●			4-17
	15	Steering cylinder (2WD Models)				●			4-17
	16	Right hand stub axle (2WD Models)				●			4-18
	17	Left-hand stub axle (2WD Models)				●			4-18
	18	Front axle pivot (2WD Models)				●			4-18
	19	Fuel filter			●				4-19

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⚠ CAUTION ⚠

Before starting the engine and moving the tractor, follow the instructions written below.

- **Do not start or operate the tractor in an enclosed area.**
- **Before starting the engine, check that all controls are in neutral.**
- **All controls must be actuated only from the driver's seat.**
- **Stop the engine before carrying out any service or maintenance operations on the tractor.**
- **Use the steps provided for entering and leaving the tractor.**
- **Keep the guards properly fitted.**
- **When moving on the roads, signal your intention to stop, turn or slow down.**
- **Use the appropriate warning devices to indicate a slow-moving vehicle.**

STARTING THE ENGINE

1. If the tractor has not been used for some time, or if started up for the first time at a low surrounding temperature, actuate the fuel pump starting lever around twenty times.
2. Ensure that both gear levers are in neutral position.
3. Move the throttle lever to around the half way position.
4. Turn the ignition key to the ON position. Release the key as soon as the engine starts.

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STARTING THE ENGINE

STARTING IN A LOW EXTERNAL TEMPERATURE

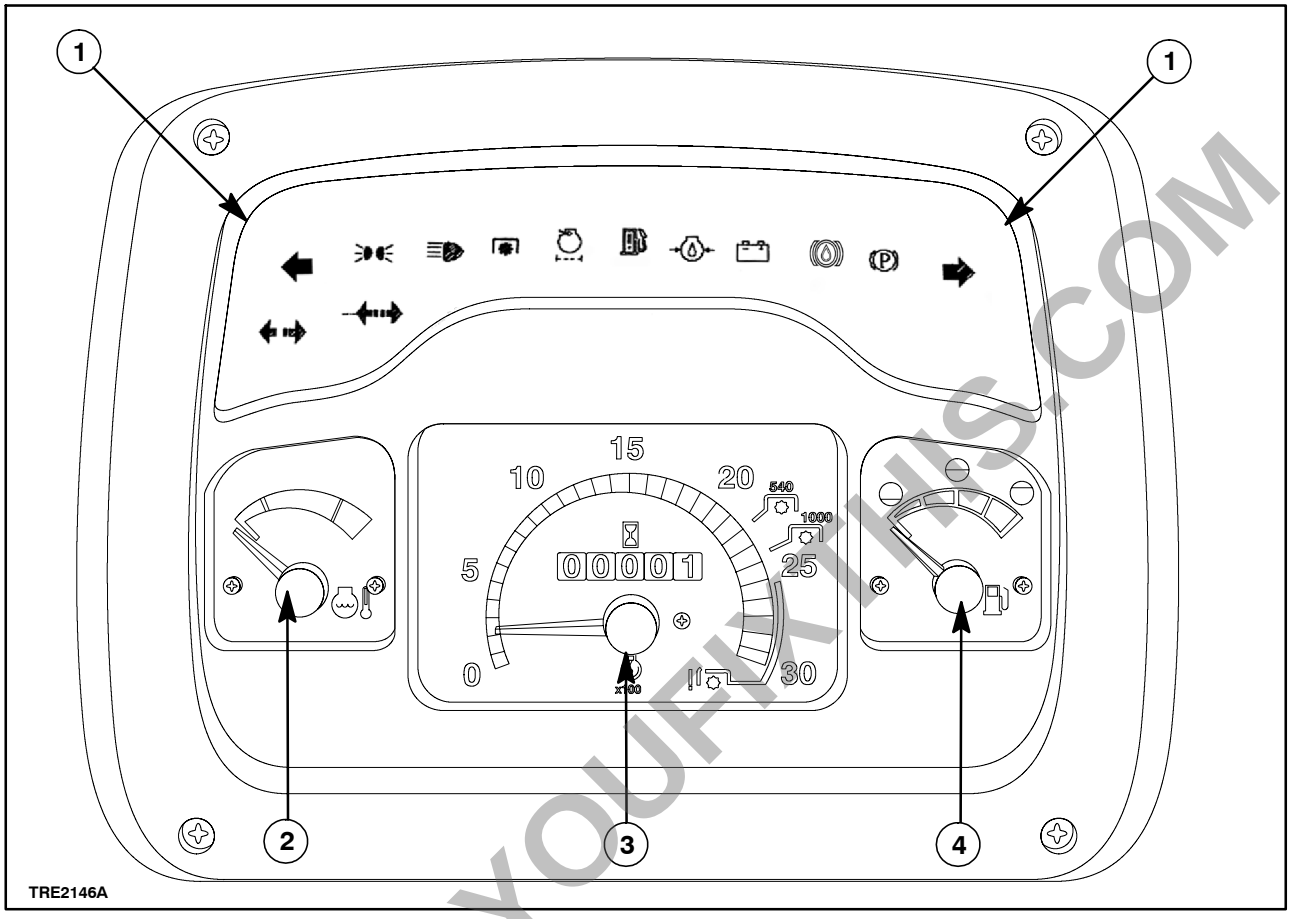
IMPORTANT: *Any single engine starting attempt should not last longer than 15 seconds; if, however, the engine fires but does not start, repeat up to a maximum time of 30 seconds.*

IMPORTANT: *Wait at least one minute between attempts to start the engine.*

IMPORTANT: *It is advisable not to make more than six attempts to start the engine to avoid excessive battery run-down.*

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INSTRUMENT PANEL



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1. **Warning and Indicator Lights.**

These lights illuminate to indicate a particular operation or to attract your attention.

2. **Engine coolant temperature gauge**

3. **Proofmeter / tachometer**

Hour meter, engine speed counter, tachometer.

4. **Fuel gauge**

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ELECTRICAL SYSTEM

PROBLEM	POSSIBLE CAUSE	SOLUTION
The electrical system does not work.	Battery terminals loose or corroded.	Clean and tighten terminals.
	Sulfated batteries.	Check that battery charge is at least 12.6 volts; check electrolyte level and specific gravity.
Low starter motor speed and difficulty in starting engine.	Connections loose or corroded.	Clean and tighten loose connections.
	Battery	Check that battery charge is at least 12.6 volts; check electrolyte level and specific gravity.
	Engine oil viscosity wrong.	Use oil of viscosity specified for temperature conditions.
Starter motor does not work.	Gear lever engaged.	Move gear lever to neutral.
	Connections loose or corroded.	Clean and tighten loose connections.
	Battery totally flat.	Charge or replace batteries.
Battery charge light stays on when engine is running.	Engine idling speed is low.	Increase idling speed.
	Alternator belt loose.	Check belt tensioning device.
	Battery fault.	Check that battery charge is at least 12.6 volts; check electrolyte level and specific gravity.
	Alternator fault.	Have the alternator checked by your dealer.
Batteries not charging.	Terminals loose or corroded.	Clean and tighten terminals.
	Battery.	Check that battery charge is at least 12.6 volts; check electrolyte level and specific gravity.
	Belt loose or worn.	Check belt tensioning device. If necessary, replace the belt.
The battery charge light flashes to indicate excessive charge voltage.	Alternator fault.	Have the alternator checked by your dealer.

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TIMING

With overhead valves	Timing data
Intake:	
– start before TDC	12°
– end after BDC	31°
Exhaust:	
– start before TDC	50°
– end after BDC	16°
Valve clearance: . . . . . mm (in)	0.45 (0.018)
Valve clearance, engine cold:	
– intake and exhaust . . . . . mm (in)	0.35 ± 0.05 (0.012 ± 0.002)

FUEL SYSTEM

Double–diaphragm fuel pump on injection pump supply line.

Rotary injection pump with centrifugal speed governor operating at all speeds and incorporating automatic advance BOSCH VE–type

Fuel filtration:

- mesh filter in the fuel pump;
- replaceable cartridge filter in the injection pump feed line with water separator.

Fuel sediment filter (optional).

Double cartridge dry air filter, with centrifugal pre–filter and automatic dust extractor.
Optional: air filter with self–cleaning device (Donaspin).

MODELS	**JX 95**
Engine injection pump, number of orifices:	4
Before TDC of cylinder No. 1 on compression stroke (°) :	0±0.5

Injectors:	4 cyl.
– firing order	1–3–4–2
– number of injection nozzles:	5
– calibration: bar . . . . . (Psi) . . . . . kg/cm^2	 260 – 272 (3770 – 3945) 265 – 277

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Hours of work	number Operation	Maintenance operation	Functional check	Top up	Clean	Grease	Adjust	Replace	Page
Every 300 hours	20	Engine oil						●	4-19
	21	Fuel filter						●	4-20
	22	Fuel pump filter			●				4-20
	23	Hydraulic lift oil filter						●	4-20
	24	Engine oil filter						●	4-21
	25	Hydrostatic steering filter						●	4-21
	26	Final reduction gears		●					4-21
	27	Dry air filter (external cartridge)			●				4-22
	28	Transmission and hydraulic lift	●	●					4-22
	29	Front axle housing (MFD Models)	●	●					4-22
	30	Hand brake	●				●		4-23
	31	Front axle reduction hubs (MFD Models)	●	●					4-24
	32	Front wheels (2WD Models)				●			4-24
	33	Front axle swivel bearings (MFD Models)				●			4-24
Every 600 hours	34	Fuel sedimenter						●	4-25
Every 900 hours	35	Engine valves	●				●		4-25
Every 1200 hours or annually	36	Dry air filter (internal and external cartridges)						●	4-26
	37	Fuel tank			●				4-27
	38	Hydrostatic steering oil						●	4-27
	39	Drive shaft sleeve for MFD front axle connection	●					●	4-28
Every 1200 hours or every 2 years	40	Fuel Injectors	●				●		4-28
	41	Front axle housing (MFD Models)						●	4-29
	42	Front axle final drives (MFD Models)						●	4-29
	43	Engine cooling system			●			●	4-30
	44	Rear transmission and hydraulic lift oil						●	4-32
	45	Final reduction oil						●	4-32
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12X12 SYNCHRONIZED MECHANICAL SHUTTLE - 30 KM/H (18.6 MPH)

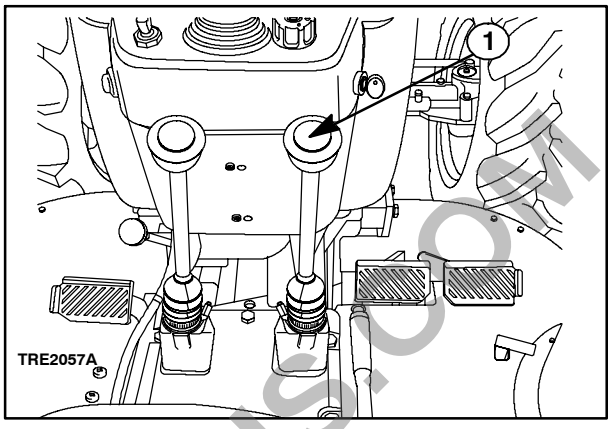
(12 FORWARD GEARS + 12 REVERSE GEARS - SYNCHRO SHUTTLE)

⚠ DANGER ⚠

With the engine running and with just one gear lever in neutral, the tractor could be started accidentally if the lever is knocked, with consequent accident risk. To prevent this happening, move both levers to neutral, lower any attached equipment and stop the engine before leaving the tractor.

The transmission, range gear and shuttle are independently controlled by three levers.

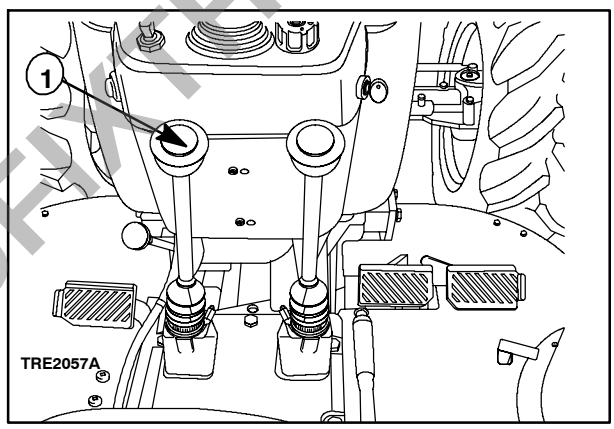
The main shift lever (1) selects four speed ratios (1, 2, 3, 4).



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The range lever (**1**) provides three forward ranges:

- I = low
- II = medium
- III = high



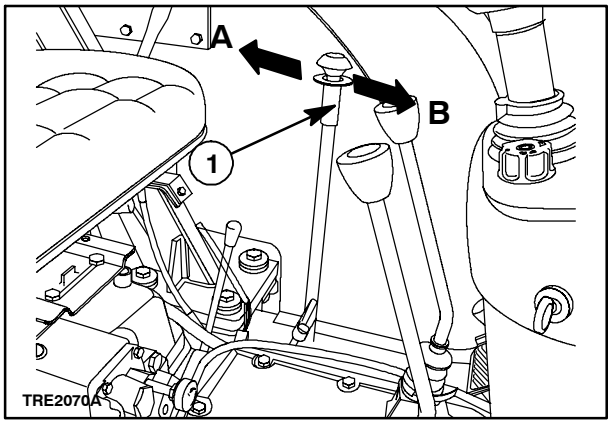
30

There are twelve forward and twelve reverse gears.

To change from medium range to a lower or higher one, stop the tractor, move the range lever to the right and shift it forwards for lower gears or backwards for higher gears.

To change from one speed to another in the same range (including reverse), shift the main shift lever after disengaging the clutch (the tractor does not have to be halted as the gears are Synchro-engaged).

To reverse the direction of travel, slow the tractor almost to a halt, disengage the clutch and move the shuttle lever (**1**) rearwards, to position (A) to obtain reverse gears or forwards (B) to disengage the shuttle and obtain forward gears. (The tractor does not have to be halted as the gears are Synchro-engaged).



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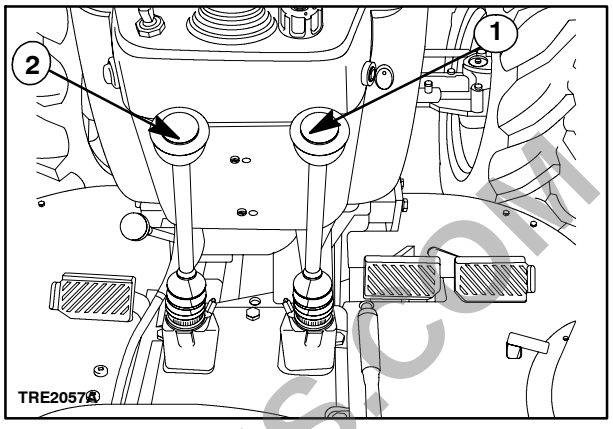
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OPERATING CONTROLS

RH SIDE CONTROLS

Transmission Levers

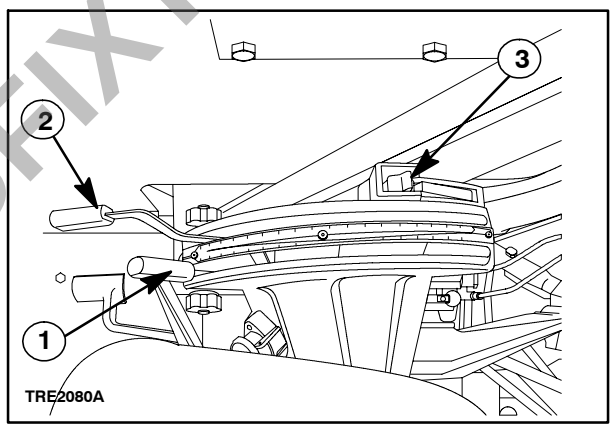
1. Main gear shift lever
2. Range lever



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Hydraulic Controls

1. Hydraulic lift operating lever (draft control)
2. Hydraulic lift operating lever (position control)
3. Hydraulic lift fast raise /lower control switch



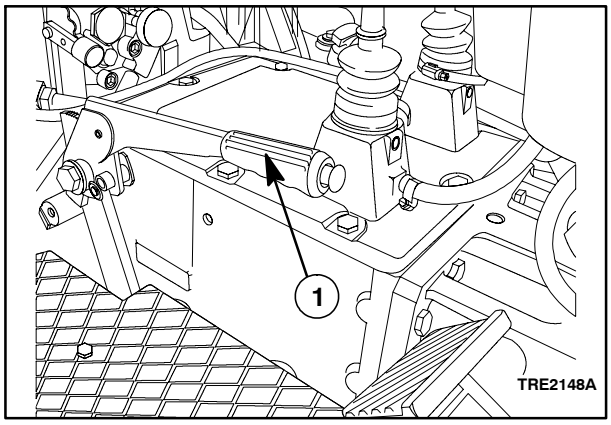
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Brake Control

1. Hand brake lever

– Lever up position (Brake ON)

– Lever down position(Brake OFF)



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