

TRACTORS 6110
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North American market only

CALIFORNIA

PROPOSITION 65 WARNING

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.

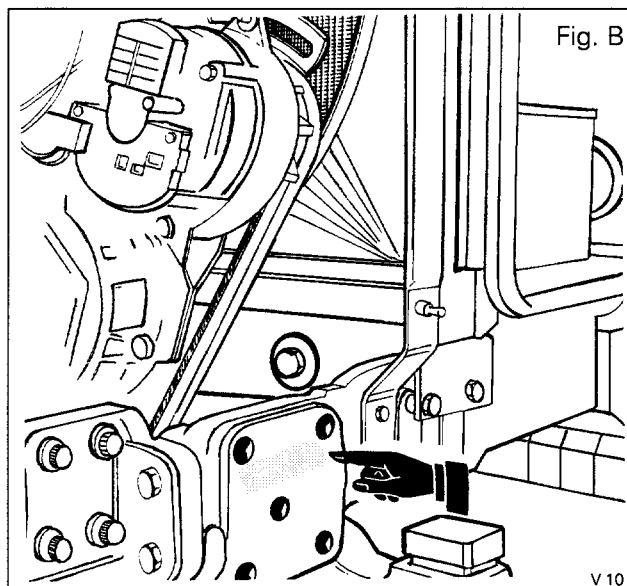
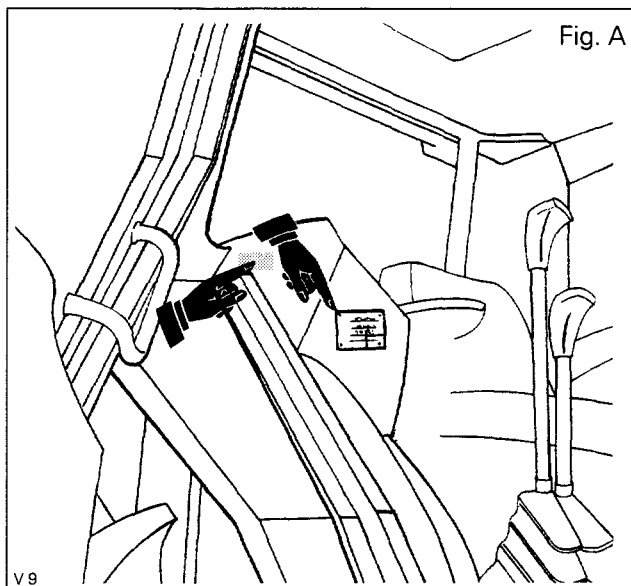
TRACTOR IDENTIFICATION

SERIAL NUMBER

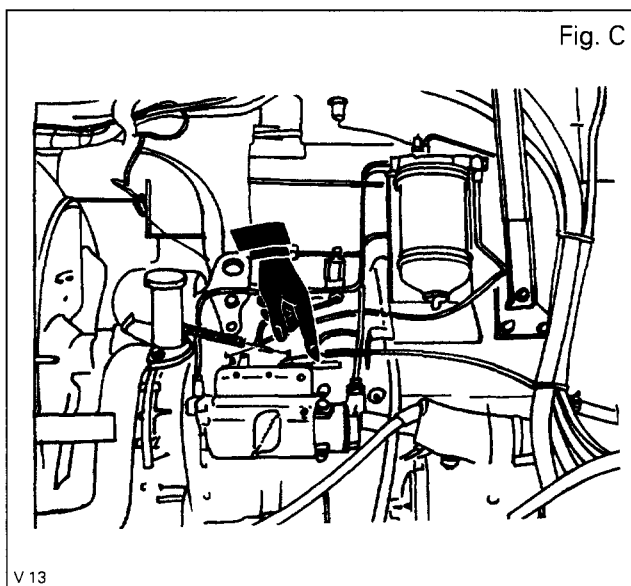
Important :

NOTE THE SERIAL NUMBER OF YOUR TRACTOR.
ALWAYS QUOTE THE SERIAL NUMBER IN ANY
COMMUNICATION TO YOUR MASSEY FERGUSON
DEALER.

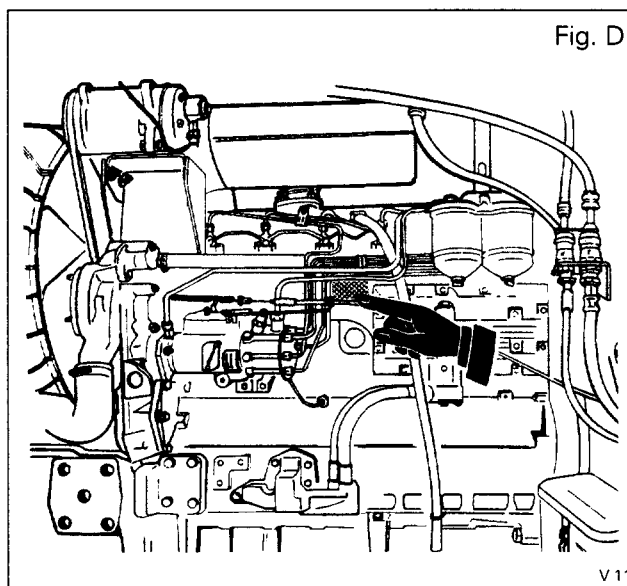
Tractor serial number



Engine serial number

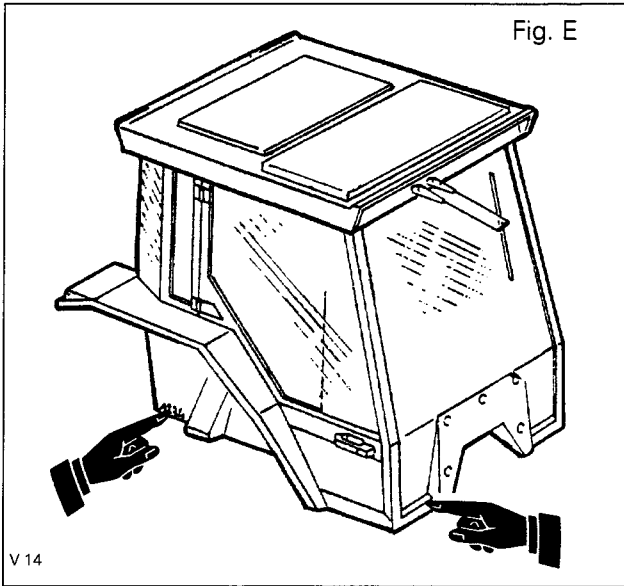


4 cyl. Engine

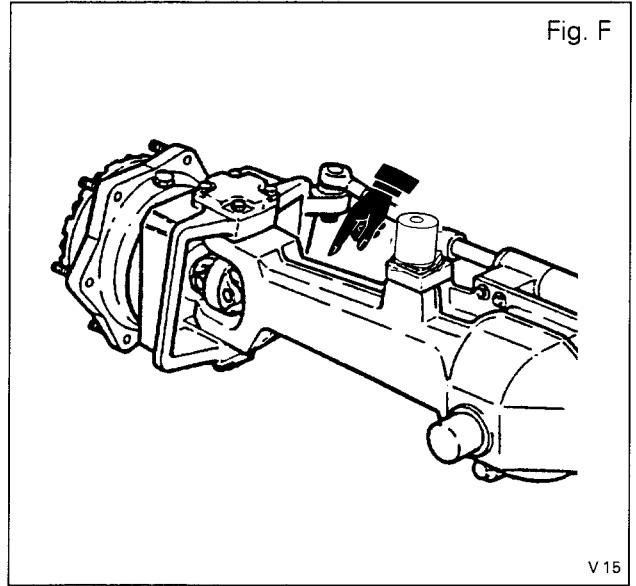


6 cyl. Engine

Cab serial number



Front axle serial number



Model

Owner or operator

Nearest Massey Ferguson Dealer

Date of installation

Expiration of warranty

KEEP THIS BOOK IN A SAFE LOCATION FOR REGULAR REFERENCE



INTRODUCTION - SAFETY PRECAUTIONS AND WARRANTY

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INTRODUCTION - SAFETY PRECAUTIONS AND WARRANTY

INTRODUCTION

NOTE : *This book is published for world-wide distribution, and the availability of equipment shown either as basic or accessory may vary according to the territory in which the tractor is to be used. Full details of equipment available in your area can be obtained from your Massey Ferguson Dealer.*



This symbol is used throughout the book as a signal to indicate areas where care is required to ensure safe operation and maintenance.

The purpose of this book is to enable the owner and driver to operate and maintain the tractor efficiently in a safe manner. Provided that the instructions are followed carefully the tractor will give years of service in the Massey Ferguson tradition.

The installation of the product by the Dealer gives the opportunity to ensure that these operating and maintenance instructions are understood. Always consult your Dealer if you do not understand any part of this book. It is important that these instructions are understood and observed. Daily maintenance should become a routine and a record of hours in service should be kept.

When replacement parts are needed, only genuine Massey Ferguson service parts should be used. Massey Ferguson Dealers supply genuine parts and can give advice regarding their fitment and use. Extensive damage may occur as a result of the fitment of parts of inferior quality ; customers are advised to buy their service parts only from an authorized Massey Ferguson Dealer.



WARNING : *In some of the illustrations used in this book, panels or guards may have been removed for clarity. Never operate the tractor without these panels and guards fitted.*

Due to wide variations in operating conditions the Company cannot make comprehensive or definitive statements in its publications regarding performance or methods or use of its machines or accept liability for any loss or damage which may result from these statements or from any errors or omissions. If the tractor is to be used for abnormal conditions which may be detrimental (e.g. deep water or paddy fields), consult your Dealer for special instructions, or the warranty may be invalidated.

Customers are strongly advised to use an official Massey Ferguson Dealer in connection with any service Problems and adjustments that may occur. The Massey Ferguson Dealer Network is specially trained & equipped for all service work and to advise customers on the application of the tractor in local conditions.

MASSEY FERGUSON ADDRESSES

The names and addresses of Massey Ferguson Dealers World-Wide can be obtained by writing to one of the following addresses.

AGCO Corporation

Massey Ferguson
4830 River Green Parkway
DULUTH
GA 30136-2574
USA

Massey Ferguson (UK) Ltd.

PO Box 62
Banner Lane
Coventry CV 49 GF
England

Massey Ferguson S.A.

Avenue Blaise Pascal
B.P. 307
60026 BEAUVAIS Cedex
France

Massey Ferguson GMBH

Industriehof Postfach 5 20
3440 ESCHWEGE
Federal Republic of Germany

Massey Ferguson (Australia) Ltd

2 Devonshire Road
Sunshine
VICTORIA 3020
Australia

Massey Ferguson Iberia S.A.

Avenida via de las Dos Castillas, 31
Atica 7 - Edificio 5 - Bajo
28023 Pozuelo de Alarcon
MADRID
Espagne

WARRANTY, PRE-DELIVERY & INSTALLATION

The Company, when selling new goods to its Dealers gives a warranty which, subject to certain conditions, guarantees that the goods are free from defects in material and workmanship. Since this book is published for worldwide circulation, it is impossible to detail the exact terms and conditions of warranty that apply to a retail customer in any particular country. Purchasers of new Massey Ferguson equipment should request full details from their supplying Dealer.

In accordance with the Company's policy of continuous improvement to its machines, alterations in the specifications of machines may be made at any time without notice. The Company accepts no responsibility for discrepancies which may occur between the specifications of its machines and the descriptions there of contained in its publications.

A Dealer is required to carry out certain activities when supplying a new Massey Ferguson tractor. These consist of a full pre-delivery inspection to ensure that the tractor supplied is ready for immediate use and full instruction in the basic principles of operations will cover instruments and controls, routine maintenance and safety precautions. All persons who will be concerned with the operation and maintenance of the machine should be present for these instructions.

NOTE : *Massey Ferguson will not accept responsibility for any claim resulting from the fitting of non approved parts or attachments.*

The safety of the operator is a major factor in designing and developing a new Tractor. Designers build in as many safety features as possible. However, every year many accidents occur which could have been avoided by a few seconds thought and a more careful approach to handling farm machinery and implements. You, the operator, can avoid many accidents by observing the following instructions.

In order to provide a better view, certain illustrations shown in this Operator Instruction Book may show an assembly with the safety shield removed. A tractor must never be operated in this condition. Keep all shields in place. If the removal of a shield is necessary to make a repair, it MUST be replaced before operation.

USING THE TRACTOR ON A PUBLIC HIGHWAY

USA and Canada only.

When driving the tractor and implement on the road or highway (under 25 mph), whether at night or during the day, use accessory lights and a Slow Moving Vehicle (SMV) identification Emblem. The use of flashing amber lights is acceptable in most localities. However some localities prohibit their use. Local laws should be checked for all highway lighting and marking requirements. Use the safety chain. Refer to the implement Operator Instruction Book.

All other Territories

Operators should familiarise themselves with the provisions of the Road Traffic Acts and of the regulations made thereunder in order to ensure that when taking the tractor and attachments upon the highway, they comply with the statutory requirements. Always remember to observe the restrictions on the use of vehicles carrying projecting loads or implements.

INTRODUCTION - SAFETY PRECAUTIONS AND WARRANTY

SAFETY - ALERT SYMBOL AND TERMS

This Safety Alert Symbol means ATTENTION ! BECOME ALERT ! YOUR SAFETY IS INVOLVED !



The safety alert symbol identifies important safety messages on machines, safety signs, in manuals, or elsewhere. When you see this symbol, be alert to the possibility of personal injury or death. Follow the instructions in the safety message.

Why is SAFETY important to you ?

- ★ ACCIDENTS DISABLE AND KILL
- ★ ACCIDENTS ARE COSTLY
- ★ ACCIDENTS CAN BE AVOIDED

SAFETY - TRACTOR AND IMPLEMENT

The tractor is a source of power - Mechanical
- Hydraulic

- On its own, the tractor is of little practical value. Only when used in conjunction with an implement or other attachment does it become a working unit.
- This instruction book is compiled to cover those safe working practices that are associated with the base tractor operation.
- It does not cover all operation and safety instructions relevant to all known implements and attachments that may be fitted at the time of tractor delivery or at some future date.
- It is essential that operators use and understand the relevant instruction manual of such implements and attachments.

SAFETY - INTRODUCTION

This safety section of your Operator Instruction Book is intended to point out some of the basic safety situations which may be encountered during the normal operation and maintenance of your tractor, and to suggest possible ways of dealing with these situations. This section is NOT a replacement for other safety practices featured in other sections of this book.

Additional precautions may be necessary, depending on attachments used and conditions at the work site or in the service area. Massey Ferguson has no direct control over tractor application, operation, inspection, lubrication, or maintenance. Therefore it is YOUR responsibility to use good safety practices in these areas.

SAFETY - A WORD TO THE OPERATOR

It is YOUR responsibility to read and understand the safety section in this manual before operating your tractor. You must follow these safety instructions that take you step by step through your working day.

In reading this section, you will note that illustrations have been used to highlight certain situations. Each illustration is numbered and the same number appears in the text in parenthesis. This number is placed at the end of the written text that refers to the illustration.


Remember that YOU are the key to safety. Good safety practices not only protect you, but also the people around you. Study the features in this manual and make them a working part of your safety program.


INTRODUCTION - SAFETY PRECAUTIONS AND WARRANTY


Keep in mind that this safety section is written only for this type of machine. Practice all other usual and customary safe working precautions, and above all - **REMEMBER - SAFETY IS YOUR RESPONSIBILITY. YOU CAN PREVENT SERIOUS INJURY OR DEATH.**

SAFETY - DANGER, WARNING and CAUTION

Whenever you see the words and symbols shown below, used in this book and on decals, you **MUST** take note of their instructions.

 **DANGER** : The symbol and the word **DANGER** indicates an imminently hazardous situation which, if not avoided, will result in **DEATH OR SERIOUS INJURY**.


 **WARNING** : The symbol and the word **WARNING** indicates a potentially hazardous situation. If the instructions or procedures are not correctly followed it could result in **PERSONAL INJURY, OR LOSS OF LIFE**.

 **CAUTION** : The symbol and the word **CAUTION** identifies special instructions or procedures which if not strictly observed, could result in **PERSONAL INJURY**.

IMPORTANT: The word **IMPORTANT** identifies special instructions or procedures which, if not strictly observed could result in **DAMAGE OR DESTRUCTION OF EQUIPEMENT**

NOTE: The word **NOTE** indicates points of particular interest for more efficient and convenient repair or operation.

SAFETY - DECALS

 **WARNING : DO NOT remove or obscure Danger, Warning, Caution or Instruction Decals.** Replace any Danger, Warning, Caution or Instruction Decals that are not readable or are missing. Replacement decals are available from your Dealer in the event of loss or damage. The actual location of these Safety Decals is illustrated at the end of this section.

If a used tractor has been purchased, refer to the illustrations at the end of this section to ensure that all the safety warning decals are in the correct position and are readable.


SAFETY - FOLLOW A SAFETY PROGRAM

For safe operation

For safe operation of an agricultural tractor, you must be a qualified and authorized operator. To be qualified you must understand the written instructions supplied in this Operator Instruction Book, have training, and know the safety rules and regulations for the job.

Some regulations specify that no one under the age of 16 years, for example, may operate power machinery. This includes tractors. It is your responsibility to know what these regulations are, and obey them, in the operating area or situation.

These will include, but are not limited to, the following instructions for safe tractor operation.

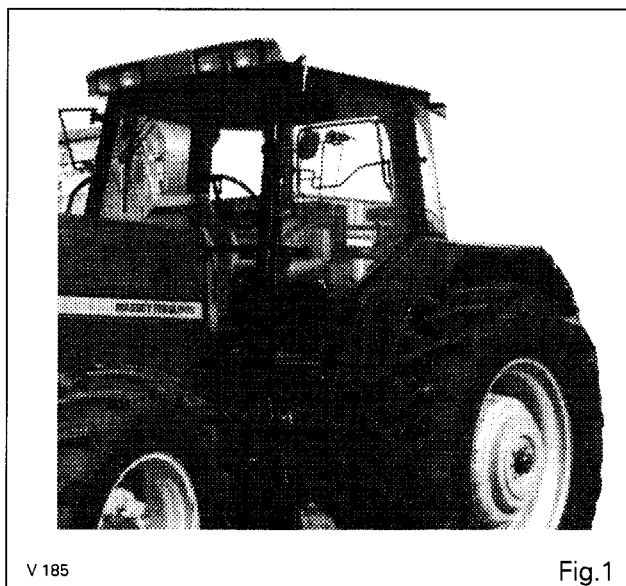
 **WARNING** : An operator should not use alcohol or drugs which can change his alertness or co-ordination. An operator on prescription or "over the counter" drugs needs medical advice on whether or not he or she can safely operate machines.

Observe the following

- Never allow children or unqualified persons to operate your tractor.
- Securely fasten your seat belt when the tractor has a ROPS (Roll Over Protective Structure frame or cab).
- Where possible, avoid operating the tractor near ditches, embankments and holes.
- Reduce speed when turning, crossing slopes, and on rough, slippery, or muddy surfaces.
- Stay off slopes too steep for safe operation.
- Watch where you are going, especially at row ends, on roads, and around trees.
- Do not permit others to ride on the tractor or the implement.
- Operate the tractor smoothly - no jerky turns, starts or stops.

INTRODUCTION - SAFETY PRECAUTIONS AND WARRANTY

- Hitch only to the drawbar and hitch points recommended, and never above the centre line of the rear axle.
- When the tractor is stopped, apply the parking brake securely.
- Never modify or remove any part of the equipment.
- Keep others away from your area of work.
- Never use attachments unless they are properly matched to your tractor.



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Fig.1

SAFETY - ROPS

Roll Over Protective Structures

A Roll Over Protective Structure (ROPS or Safety Cab) and seat belt is fitted as standard equipment to the tractor at the time of factory assembly. If the ROPS or Safety Cab was deleted by the original purchaser or has been removed, it is recommended that you equip your tractor with a Roll Over Protective Structure or Safety Cab and a seat belt. ROPS or Safety Cab are effective in reducing injuries during overturn accidents. Overturning a tractor without ROPS or Safety Cab can result in serious injury or death.

Operation

- Before using the tractor ensure that the ROPS frame or Safety Cab is not damaged, that it is securely fastened to the tractor.
- DO NOT attach chains, ropes, or cables to the ROPS or Safety Cab for pulling purposes; this will cause the tractor to tip backwards. Always pull from the tractor drawbar.
- Always wear your seat belt - adjusted snugly. Never wear the seat belt if the tractor is not equipped with upright ROPS or Safety Cab.
- Check the seat belt for damage. A damaged seat belt must be replaced.

Damage to the ROPS or Safety Cab

If the tractor has rolled over or the ROPS or Safety Cab has been damaged (such as striking an overhead object during transport), the ROPS or Safety Cab must be renewed to provide the original degree of protection.

After an accident, check for damage to the ROPS or Safety Cab, operator's seat, seat belt and seat belt mountings. Before you operate the tractor, replace all damaged parts.

DO NOT WELD, DRILL, BEND OR STRAIGHTEN THE ROPS OR SAFETY CAB. To do so reduces the protection it offers.

SAFETY - PREPARE FOR SAFE OPERATION

Protect yourself

Wear all the protective clothing and personal safety devices issued to you or called for by job conditions. Don't take chances (Fig. 2).

You may need :

- A hard hat.
- Safety glasses, goggles, or face shield.
- Hearing protection.
- Respirator or filter mask.
- Foul weather clothing.
- Reflective clothing.
- Heavy gloves (neoprene for chemicals, leather for rough work).
- Safety shoes.

DO NOT wear loose clothing, jewellery or other items and tie up long hair which could catch on controls or other parts of the tractor.

Learn where fire extinguishers and first-aid or emergency equipment is kept and where to get help in a hurry. Make sure you know how to use this equipment (Fig. 3).

Know your equipment

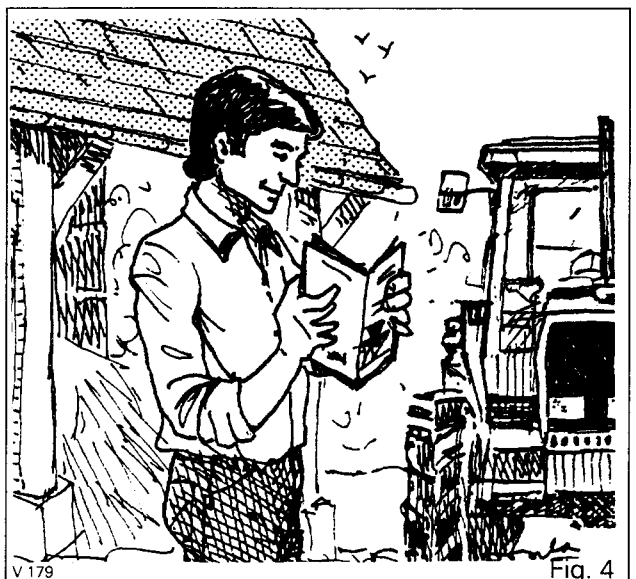
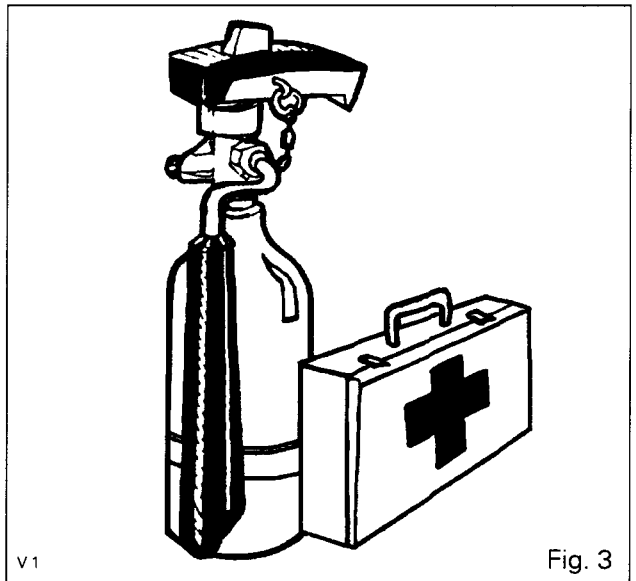
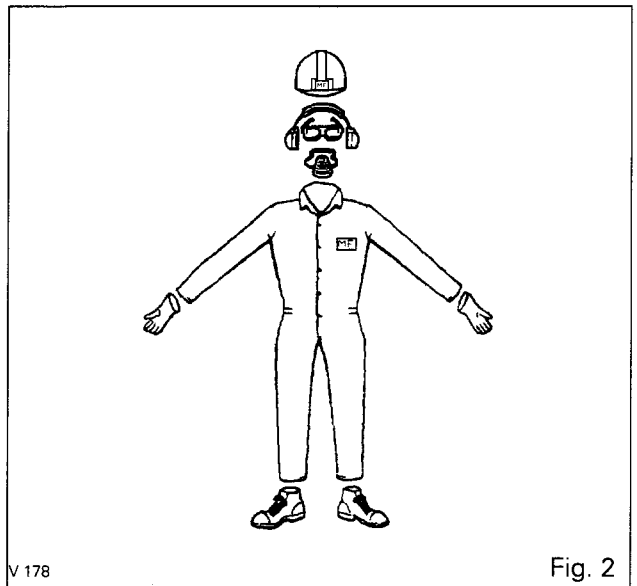
Know your tractor. Know how to operate all equipment on your machine and the implements and attachments used with it. Know the purpose of all the controls, gauges and dials. Know the rated load capacity, speed range, braking and steering characteristics, turning radius, and operating clearances.

Keep in mind that rain, snow, ice, loose gravel, soft ground, etc. can change the way your tractor operates. **Under poor conditions, slow down and be extra careful, engage four-wheel drive, if fitted.**

Study the **DANGER, WARNING, or CAUTION** safety signs on your tractor and the information signs also.

READ THIS OPERATOR INSTRUCTION BOOK BEFORE STARTING THE ENGINE.

STUDY IT BEFORE YOU START WORK (Fig. 4)



INTRODUCTION - SAFETY PRECAUTIONS AND WARRANTY

IF THERE IS SOMETHING IN THE MANUAL YOU DON'T UNDERSTAND, ASK SOMEONE (such as your equipment Dealer) TO EXPLAIN IT TO YOU.

IMPORTANT : This manual covers general safe practices for agricultural tractors. It must always be kept with the tractor. For further copies contact your Massey Ferguson Dealer.

Use all available protective and safety devices

Keep all protective devices in place and securely fastened. Make certain all guards, shields and safety signs are properly installed, as specified, and are in good condition.

To help keep you and others around you safe, your tractor should be equipped with :

- Roll Over Protective Structure (ROPS) with safety belt/restraint or a cab. A seat belt and ROPS is recommended in North America.

- Tractor PTO shield.

Your tractor may also need :

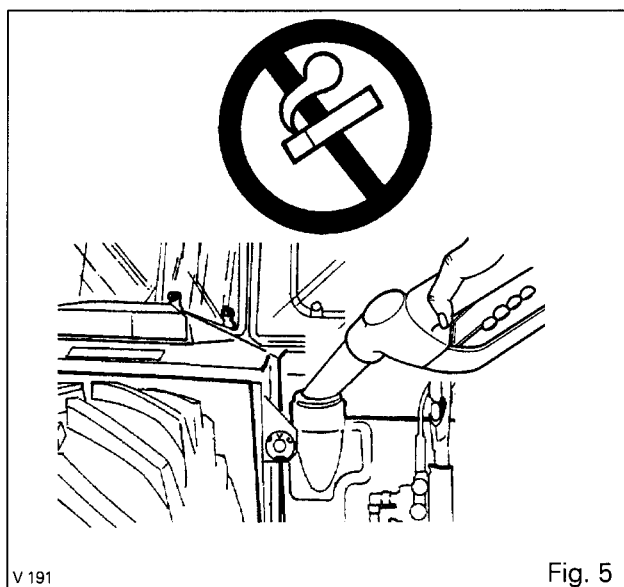
- A fire extinguisher.
- Rear view mirror.
- SMV (slow moving vehicle) emblem.
- Additional safety guards, lights or decals.
- A back-up alarm.

Know which devices are required for safe operation of your tractor. Use them. Make sure they are in place and in good condition. Never remove or disconnect any safety device.

Check the equipment

Before you begin your working day, take time to check your tractor and ensure that all systems are in good operational condition.

- Check for loose, broken, missing, or damaged parts. Have everything put into good repair.
- Make certain all safety devices are in place.
- Check ROPS and seat belt for damage. (A damaged ROPS or safety belt MUST be replaced).
- Ensure that implements and attachments are properly installed and that the tractor and implement PTO rev/min ratings match.
- Check the tyres for cuts, bulges and correct pressure. Replace worn or damaged tyres.



CAUTION : Access to fuel filler by means of climbing onto non-rigid linkage elements is not permissible.

- Check foot and parking brakes for proper operation. Adjust if necessary.
- Stop the engine and wait for it to cool before refuelling.
- DO NOT smoke while refuelling the tractor (Fig. 5). Keep any type of open flame away.
- Check the engine oil level and add oil if required.
- Perform all maintenance procedures outlined in the maintenance and adjustment section of this manual.

INTRODUCTION - SAFETY PRECAUTIONS AND WARRANTY

- Check that the PTO drive locking devices are latched.
- Check that the tractor PTO shield and driveline guards are in place and operating properly.
- Check the tractor and implement hydraulic system. Have any leaks or damaged parts repaired or renewed.

! WARNING : Diesel fuel or hydraulic fluid under pressure can penetrate the skin or eyes and cause serious personal injury, blindness or death. Fluid leaks, under pressure, may not be visible. Use a piece of cardboard or wood to find leaks. Never use your bare hand. Wear safety goggles for eye protection. If any fluid is injected into the skin, it **MUST** be surgically removed within a few hours by a doctor familiar with this type of injury (Fig. 6).

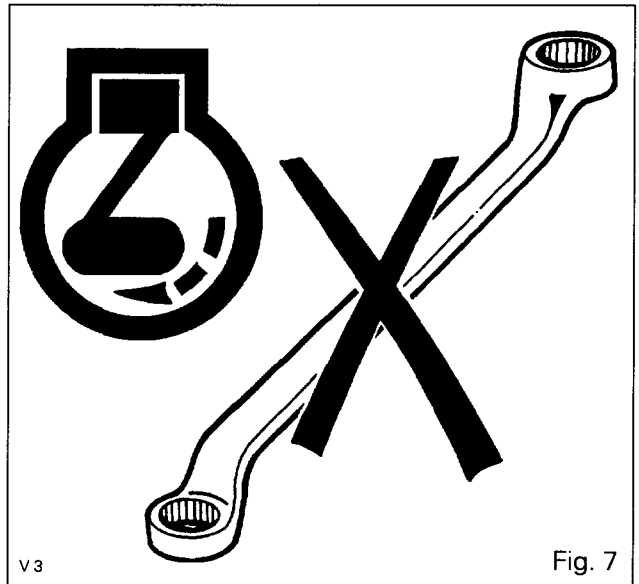
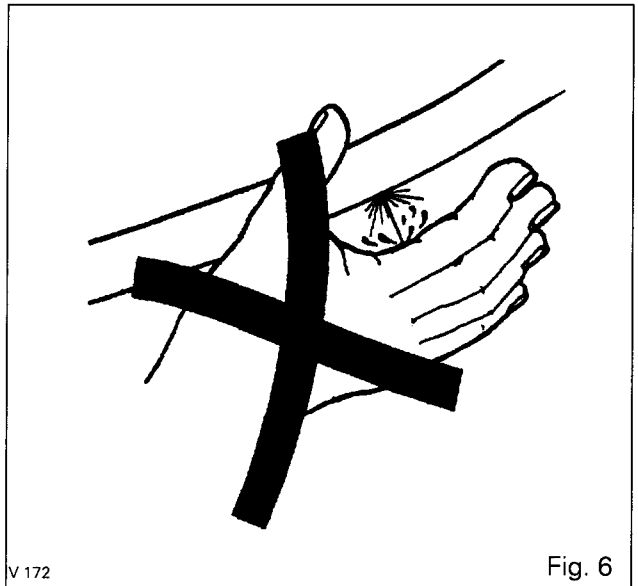
Before applying pressure to the fuel or hydraulic system, be sure all connections are tight and that lines, pipes, and hoses are not damaged. Before disconnecting fuel or hydraulic lines, be sure to relieve all pressure.

- Check the engine cooling system and add coolant as required.

! WARNING : Liquid cooling systems build up pressure as the engine gets hot. Before removing the radiator cap, stop the engine and let the system cool.

Clean up

- Keep work surfaces and engine compartments clean.
- Before cleaning the machine, always lower implements to the ground, place transmission in neutral, engage the parking brake, shut off the engine and remove the key.
- Clean steps, pedals and floor. Remove grease or oil. Brush away dust or mud. In winter, scrape away snow and ice. Remember - slippery surfaces are dangerous.
- Remove or put away tools, buckets, chains and hooks.



SAFETY - SERVICING THE TRACTOR

- DO NOT service the tractor while the engine is running or hot, or if the tractor is in motion (Fig. 7).
- Before making adjustments to or servicing the electrical system, disconnect the battery cables, negative (-) cable first.

INTRODUCTION - SAFETY PRECAUTIONS AND WARRANTY

- To prevent fires or explosions keep open flame away from the battery or cold weather starting aids. To prevent sparks which could cause explosions use jump cables according to instructions.
- When making repairs or adjustments it is recommended that you consult your Massey Ferguson Dealer, and have the work carried out by trained personnel.
- The implement and/or tractor must be supported on suitable blocks or stands, NOT a hydraulic jack.
- Check all nuts and bolts periodically for tightness, especially wheel hub and rim nuts. Tighten to the prescribed torque values.
- Check the brakes regularly, adjust if necessary. Make sure that the brakes are evenly adjusted, especially when using a trailer.

Protect the environment

- It is illegal to pollute drains, water courses or soil. Use authorised waste disposal facilities, including civic amenity sites and garages providing facilities for disposal of used oil. If in doubt, contact your local authority for advice.

SAFETY - STARTING

Warn personnel before starting

Before starting, walk completely around the tractor and any attached equipment. Make sure that no one is under it, on it, or close to it. Let other workers and bystanders know you are starting up and don't start until everyone is clear of the tractor, implements and towed equipment.

Ensure that all bystanders, **particularly children**, are in a safe position before starting the engine.

Mount and dismount safely

Always use "three point contact" with the machine, and face the machine when you mount it. (Three point contact means both hands and one foot or one hand both feet are in contact with the machine at all times during mounting and dismounting).

Clean your shoes and wipe your hands before climbing on. Use handrails, grab handles, ladders or steps (as provided) when mounting or dismounting.

Never use control levers as a hand hold and never step on foot controls when mounting or dismounting.

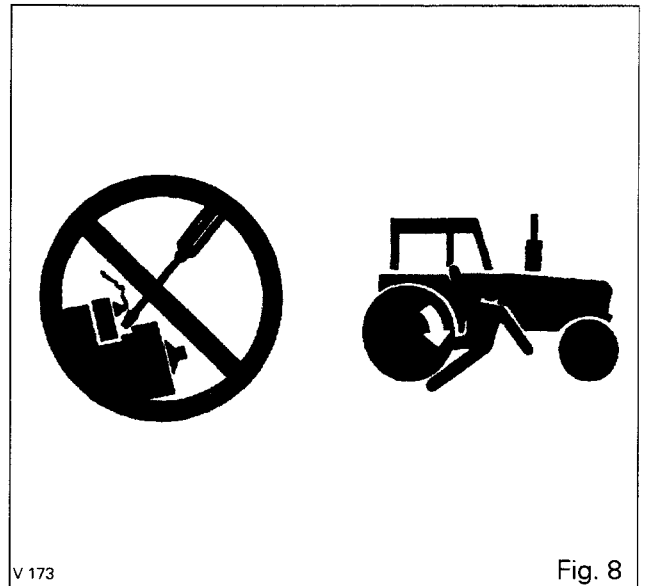


Fig. 8

Never attempt to mount or dismount from a moving tractor. Never jump off a tractor in any circumstances.

Start safely

WARNING: Before starting the engine make sure there is plenty of ventilation. Never operate the engine in a closed building. The exhaust fumes may cause asphyxiation.

Always start the engine from the operator's seat **with the gear lever (1-2-3-4) in neutral position and the reverse/forward lever in forward position or reverse position*** and the PTO lever in neutral.

** Tractors equipped with creeper gearbox and mechanical forward / reverse:
Place the gear lever (1-2-3-4) and the forward / reverse lever in neutral position.*

Make sure that the tractor dual brake pedals are locked together at all times unless you are making turns in the field which require independent use of the brakes. Make sure the brakes are properly adjusted so that both brakes engage at the same time.



Adjust the seat, fasten the seat belt, apply the parking brake and put all controls in neutral before starting up.

DANGER: Start the engine, with the starter key, from the operator's seat only. Never attempt to start the engine by shorting across the starter terminals. The machine will start in gear if the neutral start circuit is bypassed. This could cause serious injury or death to anyone in the vicinity of the tractor (Fig. 8).

INTRODUCTION - SAFETY PRECAUTIONS AND WARRANTY

Follow recommended starting procedures

Follow the starting procedures recommended in the Operation section of this Operator Instruction Book. This includes normal starting, cold starting, and the use of starting fluids.

Test the controls

After starting, re-check all gauges and lights. Make sure everything is functioning correctly. If the tractor does not respond correctly when each control is operated, do not use the machine until the fault is rectified.

Ensure that the starter solenoid cover is always in position.

SAFETY - WORK SAFELY



WARNING : An unbalanced tractor could overturn and cause injury or death. Make sure front frame counterweights, wheel weights and wheel ballast are used as recommended by the manufacturer. NEVER add extra counterweights to compensate for an overload, better to reduce the load.



WARNING : Keep all parts of your body inside the operator's compartment while operating the tractor.

Make the right moves

Make sure your tractor is ready for the job it must do. Know the rated load capacities of your tractor and never exceed them. Be certain that any equipment or implements you intend to use do not exceed the load rating of your tractor. Be sure the tractor and implement PTO rev/min match.

Keep in mind that tractors normally operate on uneven, unpaved, and often bumpy or sloping surfaces. Operating conditions can reduce the amount of weight you should carry or pull.

Follow safe operating practices

- Operate the controls smoothly - don't jerk the steering wheel or other controls.
- DO NOT get on or off a moving tractor. Keep a firm grip on the steering wheel at all times, with the thumbs clear of the spokes when driving the tractor.
- Make sure you have adequate clearance in all directions for tractor, cab, safety frame and implement.
- Never play games with a tractor or equipment.
- Never attempt to work the controls except from the operator's seat.
- Before dismounting, always disengage the PTO, lower all attachments and implements to the ground, place the tractor in neutral, engage parking brake, shut off the engine and remove the key.

Do not touch, lean on, or reach through any implement mechanism or permit others to do so.

Stay alert. Should something break, come loose, or fail to operate in your equipment, stop work, shut off the engine, inspect the machine and have repairs or adjustments made before resuming operation.

INTRODUCTION - SAFETY PRECAUTIONS AND WARRANTY

Watch out for others

- Be aware of what is going on.
- Never allow an untrained or unqualified person to operate your tractor. They could injure themselves or someone else.

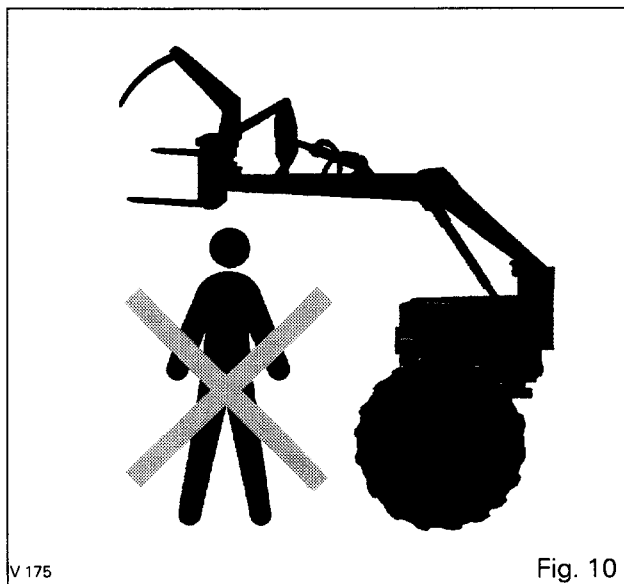
WARNING : *Your tractor is a one-person machine. Do not permit others to ride on the tractor or the implement except on certain implements, such as planting or harvesting equipment specifically designed for riders, and only during field operation.*

WARNING : *Never allow children on the tractor.*

WARNING : *Be certain you can control both speed and direction before moving. Move slowly until you are sure that everything is operating properly. After starting, recheck the steering, right and left. Be certain you have full steering and brake control. If differential is locked, do NOT operate at high speed or turn the tractor until the differential lock is disengaged.*

WARNING : *Never lift a load over anyone.*

- Keep others away from your operation. Never allow anyone to stand or pass under a raised implement (Fig. 10).
- DO NOT lift objects that can not be contained safely in the bucket, get the appropriate attachment.
- When using a loader, avoid sudden stops, starts, turns, or change of direction. Keep loads close to the ground when transporting.
- Never drive a tractor up to someone standing in front of a fixed object.
- Never stand (or allow anyone else to stand) in front of, under, or behind loaded or loading equipment.
- Never allow anyone to stand on the ROPS or fenders.
- Keep others away from articulation joints, hitches, drawbar, lift arms, PTO drives, cylinders, belts, pulleys, and other moving parts. Keep all shields and guards in place.



WARNING : *Never stand, or allow anyone else to stand, between the tractor and implement unless the engine is turned off and the parking brake is engaged, the transmission is in neutral, and all attachments or implements are lowered to the ground.*

Risk of overturning

For your safety, it is recommended that all footstep tractors are fitted with Roll Over Protective Structures (ROPS) and seat belts.

In the event of an overturn with a tractor fitted with a cab or ROPS, hold the steering wheel firmly and DO NOT attempt to leave the seat until the tractor has come to rest (Fig. 11).

If the doors of the cab are obstructed, leave through the rear window or roof hatch.

To avoid side overturns

- Set the wheel track at the widest setting suitable for the job being done.
- Lock the brake pedals together before driving at transport speeds.
- Reduce speed to match operating conditions.
- If the tractor is equipped with a front-end loader, carry the bucket and load as low as possible.
- Make wide slow turns at reduced speed.
- Don't let your tractor bounce. You may lose steering control.
- Don't pull a load too heavy for your tractor. It could run away on the down slope or the tractor could jackknife around a towed load.
- Don't brake suddenly. Apply brakes smoothly and gradually.
- When going down a slope, use the throttle to slow the tractor engine and use the same gear range you would use to go up the slope. Shift into gear before you start downhill.
- Engage four-wheel drive (if fitted), this will give four-wheel braking.

WARNING : NEVER disengage the clutch or attempt to shift gear after you have started downhill.

- It is always preferable to travel straight up or down a steep slope rather than across it.
- Avoid crossing steep slopes if possible. If you must do so, avoid any holes or depressions on the downhill side. Avoid any stumps, rocks, bumps or raised areas on the uphill side (Fig. 12).

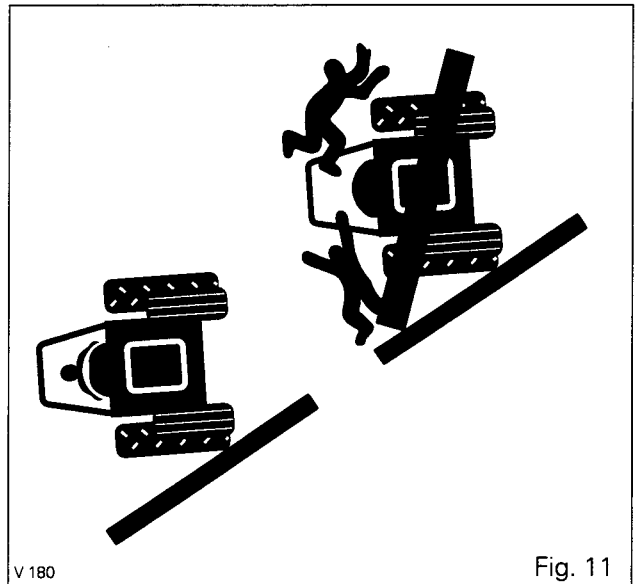


Fig. 11

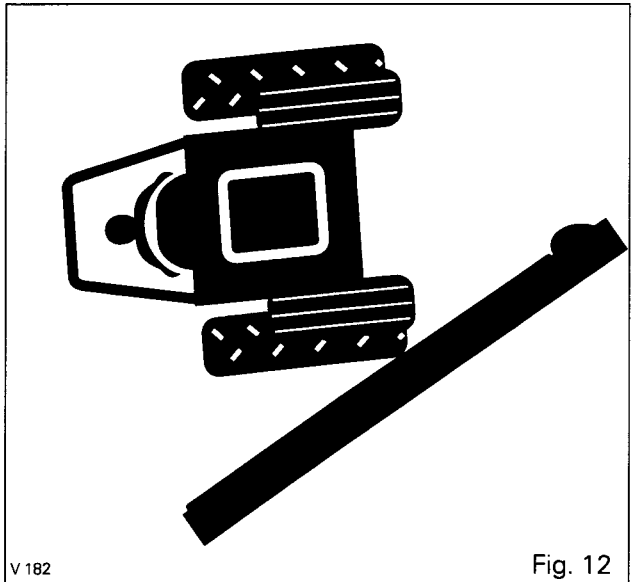


Fig. 12

- If it is necessary to cross a steep slope, avoid turning uphill, slow down and make a wide turn.
- When travelling across a slope with side mounted implements, keep the implement on the uphill side.
- Don't raise the implements. Keep them as low to the ground as possible when crossing a slope.
- Avoid ditches, embankments and river-banks. Stay away from edges which might cave in.
- When towing a load at transport speed, lock the drawbar in the centre position and use a safety chain.
- NEVER use your tractor to round up farm animals.

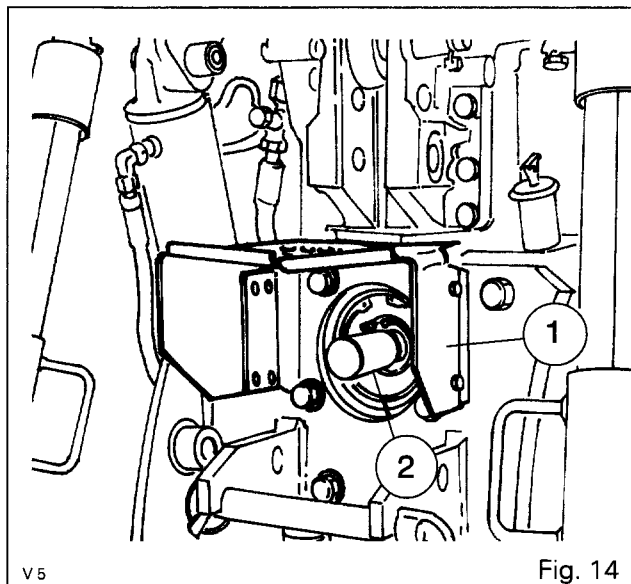
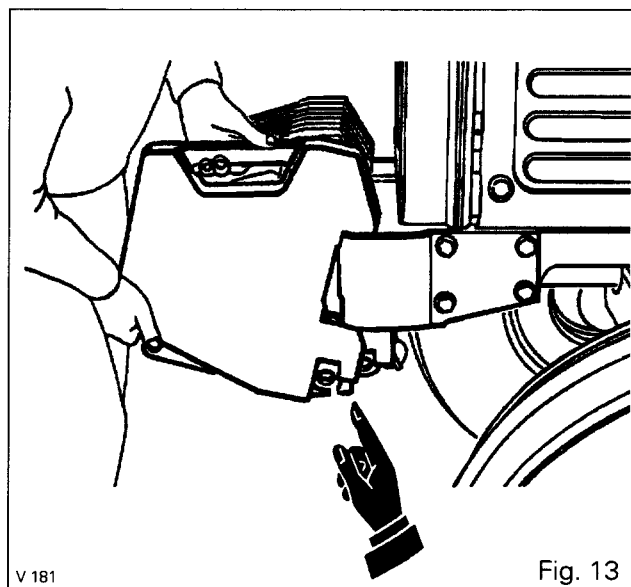
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To avoid rear overturns

- Hitch loads to the drawbar only.

WARNING: *Hitching to the rear axle, or any other point above the swinging drawbar, can cause a rear overturn.*

- High hitching can cause rear overturn, which may cause serious injury or death.
- When using a three-point linkage drawbar the stays must be fitted, keep it in the down position.
- Use front counterweights to increase tractor stability when towing a heavy load or to counter balance a heavy rear mounted implement (Fig. 13).
- Start forward slowly and gradually increase your speed. Do not rev the engine or drop the clutch. If the tractor is attached to a heavy load, or immovable object, improper clutching may cause overturn.
- If the front end of the tractor starts to lift, reduce your speed and, if necessary, disengage the clutch.
- If your tractor is bogged down in mud or frozen to the ground, do not attempt to drive forwards. The tractor can rotate around its rear wheels and overturn. Lift any attached implement and attempt to BACK OUT. If this is not possible, tow it out with another vehicle.
- If you get stuck in a ditch, BACK OUT, if possible. If you must go forward, do it slowly and carefully.
- Travel directly up or down the slope, never across it. When travelling up or down a slope, keep the heavy end of the tractor pointed uphill.
- A bare tractor or tractor with rear mounted attachments should be backed up the slope in reverse and travel forward downhill.
- A tractor with a loaded front-end bucket should be backed down the slope and travel forward uphill. Keep the loader bucket as low as possible.
- Always keep the tractor in gear when going downhill. Never permit the tractor to coast with clutch disengaged or transmission in neutral.
- DO NOT pull anything using the top link connection, or from any point above the centre line of the rear axle. Always use an approved Massey Ferguson drawbar, and only use a drawbar pin that locks in place.



General operating hazards

- Ensure that the PTO shield (1) is in place and that the PTO cap (2) is fitted when the PTO driveline is not in use (Fig. 14).
- Before attaching, detaching, cleaning or adjusting PTO driven implements, disengage the PTO, stop the engine, remove the key, and make sure that the PTO driveline has stopped.
- Ensure that all the PTO driveline safety guards are in place and observe all safety decals (Fig. 15).

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- Be sure everyone is clear of your machine before engaging the PTO. For stationary PTO operation, always place transmission in neutral, engage parking brake, and chock both tractor and implement wheels.
- When operating mobile PTO driven equipment, never leave the tractor seat until the PTO drive is disengaged, the transmission is in neutral, the parking brake is engaged, the engine shut off and the key removed.
- DO NOT use PTO adaptors, reducers or extensions as they extend the PTO coupler and universal joint out beyond the protection offered by the PTO shield.
- The top link and lift rods must not be extended beyond the point where threads begin to show.

⚠ WARNING : *Never attempt to unplug the hydraulic connections, or adjust an implement with the engine running or the PTO drive in operation. To do so may result in serious injury or death.*

- When using chemicals, carefully follow the chemical manufacturer's instructions for use, storage and disposal. Also follow the chemical application equipment manufacturer's instructions.
- When operating under poor visibility conditions, or in the dark, use your tractor field lights and reduce your ground speed (do not use your field lights when travelling on a roadway because rear pointed white lights are illegal except when reversing and may confuse following drivers).
- Operate your tractor with the wheels set at the widest setting possible, consistent with the particular task you are performing. To adjust wheel settings refer to Section 4 - Maintenance and Adjustment.
- Reduce your speed when operating over rough or slippery ground and when foliage restricts your view of hazards.
- Do not make sharp turns at high speed.



⚠ WARNING : *A front-end loader (bucket or forks) must be equipped with a suitable restraining device to prevent the load (bales, fence posts, rolls of fence, wire etc.) from rolling down the lift arms into the operator's compartment and crushing the driver when the loader is raised.*

- Three-point hitch and side mounted implements make a much larger arc when turning than towed equipment. Make certain to maintain sufficient clearance for safe turning.
- When using attachments or implements with the tractor, be sure to thoroughly read the Operator Instruction Book for that attachment or implement and follow its safety instructions.
- Do not overload an attachment or towed equipment. Use proper counter weights to maintain tractor stability. Hitch loads to the drawbar only.

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- A safety chain will help control drawn equipment should it be accidentally separated from the drawbar while transporting. Using the appropriate adaptor parts, attach the chain to the tractor drawbar support or other specified anchor location. Provide only enough slack in the chain to permit turning. See your Massey Ferguson Dealer for a chain with a strength rating equal to, or greater than the gross weight of the towed machine (Fig. 16).

Road transport

BEFORE operating your tractor on a public road, a number of precautions must be taken.

- Familiarize yourself with - and obey - all local by-laws, and national laws appropriate to your tractor.
- Lock your brake pedals together.
- Raise all implements to their transport position and lock them in place.
- Place all implements into their narrowest transport configuration.
- Disengage the PTO and differential lock.
- Make sure tractor and equipment are equipped with slow moving vehicle (SMV) signs unless prohibited by law (Fig. 17).
- Make sure any required clearance flags or hazard lights are in place and in working order.
- Make sure you use a proper safety hitch pin with a safety clip retainer.
- Make sure any towed implements are equipped with a safety chain linking tractor and implement (Fig. 16).
- Clean off all reflectors and road lights, front and rear, and be certain they are in working order.

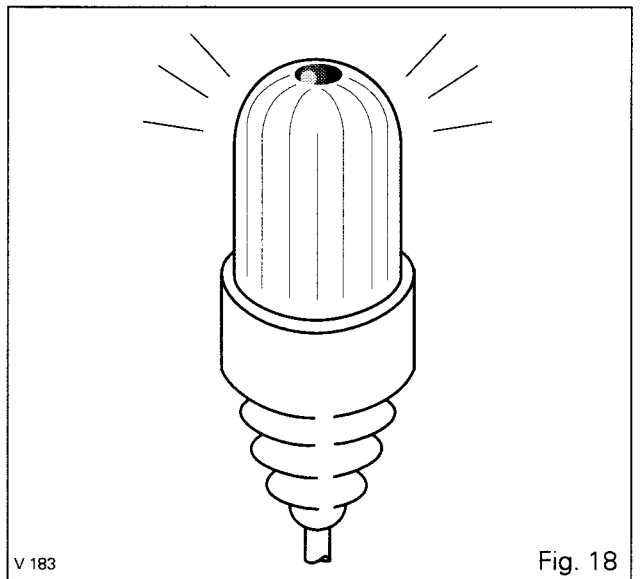
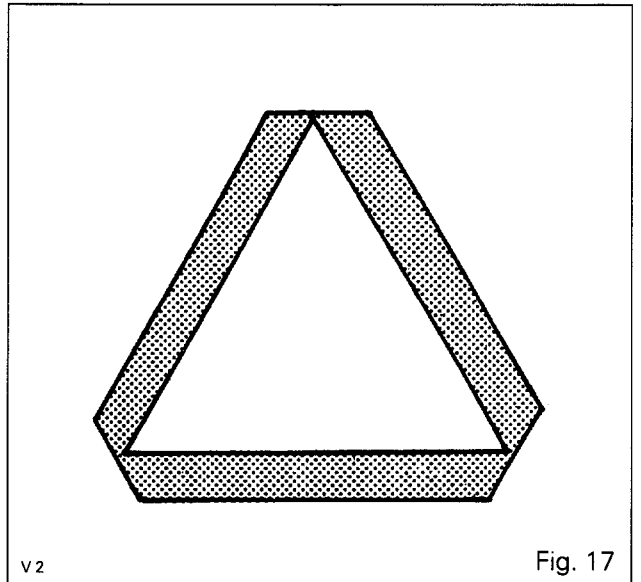
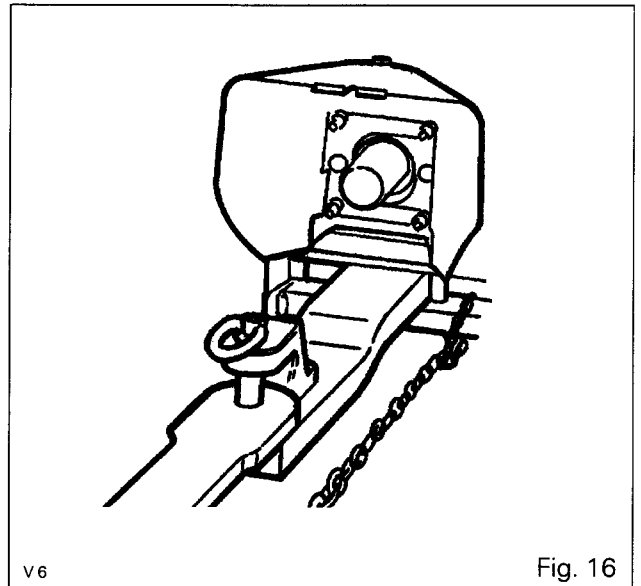
Rules of the road

WHEN operating your tractor on a public road a number of precautions must be taken.



WARNING: Do not allow any passengers on the tractor or towed equipment.

- Know the route you are going to travel.



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