

SERVICE MANUAL

T4.75N / T4.85N / T4.95N
T4.105N / T4.65V / T4.75V
T4.85V / T4.95V / T4.105V
Tractor

Part number 47888373

English
July 2016





SERVICE MANUAL

T4.105N With cab [ZDJE16586 -], T4.105N Without cab [ZDJE18360 -], T4.105V With cab [ZDJE17896 -], T4.105V Without cab [ZDJE13827 -], T4.65V With cab [ZDJE10473 -], T4.65V Without cab [ZDJE11549 -], T4.75N With cab [ZDJE10131 -], T4.75N Without cab [ZDJE11495 -], T4.75V With cab [ZDJE10095 -], T4.75V Without cab [ZDJE11310 -], T4.85N With cab [ZDJE09941 -], T4.85N Without cab [ZDJE12418 -], T4.85V With cab [ZDJE11669 -], T4.85V Without cab [ZDJE10317 -], T4.95N With cab [ZDJE10238 -], T4.95N Without cab [ZDJE12231 -], T4.95V With cab [ZDJE11682 -], T4.95V Without cab [ZDJE11554 -]

Link Product / Engine

Product	Market Product	Engine
T4.105N With cab [ZDJE16586 -]	Australia New Zealand	F4CE9484
T4.105N With cab [ZDJE16586 -]	Europe	F4CE9484
T4.105N With cab [ZDJE16586 -]	Middle East Africa	F4CE9484
T4.105N With cab [ZDJE16586 -]	Asia Pacific	F4CE9484
T4.105N Without cab [ZDJE18360 -]	Australia New Zealand	F4CE9484
T4.105N Without cab [ZDJE18360 -]	Asia Pacific	F4CE9484
T4.105N Without cab [ZDJE18360 -]	Middle East Africa	F4CE9484
T4.105N Without cab [ZDJE18360 -]	Europe	F4CE9484
T4.75N With cab [ZDJE10131 -]	Australia New Zealand	F5AE9484B
T4.75N With cab [ZDJE10131 -]	Asia Pacific	F5AE9484B
T4.75N With cab [ZDJE10131 -]	Middle East Africa	F5AE9484B
T4.75N With cab [ZDJE10131 -]	Europe	F5AE9484B
T4.75N Without cab [ZDJE11495 -]	Australia New Zealand	F5AE9484B
T4.75N Without cab [ZDJE11495 -]	Middle East Africa	F5AE9484B
T4.75N Without cab [ZDJE11495 -]	Europe	F5AE9484B
T4.75N Without cab [ZDJE11495 -]	Asia Pacific	F5AE9484B
T4.85N With cab [ZDJE09941 -]	Europe	F5AE9484G
T4.85N With cab [ZDJE09941 -]	Middle East Africa	F5AE9484G
T4.85N With cab [ZDJE09941 -]	Asia Pacific	F5AE9484G
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T4.95N With cab [ZDJE10238 -]	Middle East Africa	F4CE9484
T4.95N With cab [ZDJE10238 -]	Asia Pacific	F4CE9484
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T4.105V With cab [ZDJE17896 -]	Europe	F4CE9484
T4.105V Without cab [ZDJE13827 -]	Middle East Africa	F4CE9484
T4.105V Without cab [ZDJE13827 -]	Australia New Zealand	F4CE9484
T4.105V Without cab [ZDJE13827 -]	Europe	F4CE9484
T4.105V Without cab [ZDJE13827 -]	Asia Pacific	F4CE9484
T4.65V With cab [ZDJE10473 -]	Australia New Zealand	F5AE9484A
T4.65V With cab [ZDJE10473 -]	Middle East Africa	F5AE9484A
T4.65V With cab [ZDJE10473 -]	Asia Pacific	F5AE9484A
T4.65V With cab [ZDJE10473 -]	Europe	F5AE9484A
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T4.85V With cab [ZDJE11669 -]	Middle East Africa	F5AE9484G
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T4.85V With cab [ZDJE11669 -]	Europe	F5AE9484G
T4.85V With cab [ZDJE11669 -]	Asia Pacific	F5AE9484G
T4.85V Without cab [ZDJE10317 -]	Middle East Africa	F5AE9484G
T4.85V Without cab [ZDJE10317 -]	Europe	F5AE9484G
T4.85V Without cab [ZDJE10317 -]	Asia Pacific	F5AE9484G
T4.85V Without cab [ZDJE10317 -]	Australia New Zealand	F5AE9484G
T4.95V With cab [ZDJE11682 -]	Australia New Zealand	F4CE9484
T4.95V With cab [ZDJE11682 -]	Europe	F4CE9484
T4.95V With cab [ZDJE11682 -]	Middle East Africa	F4CE9484
T4.95V With cab [ZDJE11682 -]	Asia Pacific	F4CE9484

Product	Market Product	Engine
T4.95V Without cab [ZDJE11554 -]	Asia Pacific	F4CE9484
T4.95V Without cab [ZDJE11554 -]	Europe	F4CE9484
T4.95V Without cab [ZDJE11554 -]	Middle East Africa	F4CE9484
T4.95V Without cab [ZDJE11554 -]	Australia New Zealand	F4CE9484

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(*) See content for specific models

Safety rules SAFETY REGULATIONS

TO PREVENT ACCIDENTS

Most accidents or injuries that occur in workshops are the result of non-observance of simple and fundamental safety regulations.

For this reason, IN MOST CASES THESE ACCIDENTS CAN BE AVOIDED: by foreseeing possible causes and consequently acting with the necessary caution and care.

Accidents may occur with all types of vehicle, regardless of how well it was designed and built.

A careful and judicious service technician is the best guarantee against accidents.

Precise observance of the most basic safety rule is normally sufficient to avoid many serious accidents.

DANGER: Never carry out any cleaning, lubrication or maintenance operations when the engine is running.

GENERAL

- Carefully follow specified repair and maintenance procedures.
- Do not wear rings, wristwatches, jewellery, unbuttoned or loose articles of clothing such as: ties, torn clothing, scarves, open jackets or shirts with open zips that may remain entangled in moving parts.
It is advised to wear approved safety clothing, e.g: non-slip footwear, gloves, safety goggles, helmets, etc.
- Do not carry out repair operations with someone sitting in the driver's seat, unless the person is a trained technician who is assisting with the operation in question.
- Operate the vehicle and use the implements exclusively from the driver's seat.
- Do not carry out operations on the vehicle with the engine running, unless specifically indicated.
- Stop the engine and ensure that all pressure is relieved from hydraulic circuits before removing caps, covers, valves, etc.
- All repair and maintenance operations must be carried out using extreme care and attention.
- Service steps and platforms used in a workshop or in the field should be built in compliance with the safety rules in force.
- Disconnect the batteries and label all controls to indicate that the vehicle is being serviced. Block the machine and all equipment which should be raised.
- Do not check or fill fuel tanks, accumulator batteries, nor use starting liquid when smoking or near naked flames, as these fluids are inflammable.
- Brakes are inoperative if manually released for repair or maintenance purposes.
In such cases, the machine should be kept constantly under control using blocks or similar devices.
- The fuel nozzle should always be in contact with the filling aperture. Maintain this position until filling operations are completed in order to avoid possible sparks caused by the accumulation of static electricity.
- Only use specified towing points for towing the tractor, connect parts carefully. Make sure that all pins and/or locks are secured in position before applying traction.
Never remain near the towing bars, cables or chains that are operating under load
- Transport vehicles that cannot be driven using a trailer or a low-loading platform trolley, if available.
- When loading or unloading the vehicle from the trailer (or other means of transport), select a flat area capable of sustaining the trailer or truck wheels, firmly secure the tractor to the truck or trailer and lock the wheels in the position.
- Electric heaters, battery-chargers and similar equipment must only be powered by auxiliary power supplies with efficient ground insulation to avoid electrical shock hazards.
- Always use suitable hoisting or lifting devices when raising or moving heavy parts.
- Take extra care if bystanders are present.
- Never pour gasoline or diesel oil into open, wide and low containers.
- Never use gasoline, diesel oil or other inflammable liquids as cleaning agents. Use non-flammable non-toxic proprietary solvents.
- Wear safety goggles with side guards when cleaning parts with compressed air.
- Limit the air pressure to a maximum of **2.1 bar (30.5 psi)**, according to local regulations.

- Do not run the engine in confined spaces without suitable ventilation.
- Do not smoke, use naked flames, or cause sparks in the area when fuel filling or handling highly inflammable liquids.
- Never use naked flames for lighting when working on the machine or checking for leaks.
- All movements must be carried out carefully when working under, on or near the vehicle and wear protective equipment: helmets, goggles and special footwear.
- When carrying out checks with the engine running, request the assistance of an operator in the driver's seat. The operator must maintain visual contact with the service technician at all times.
- If operating outside the workshop, position the vehicle on a flat surface and lock in position. If working on a slope, lock the vehicle in position and move to a flat area as soon as is safely possible.
- Damaged or bent chains or cables are unreliable. Do not use them for lifting or towing.
Always use suitable protective gloves when handling chains or cables.
- Chains should always be safely secured. Ensure that fastening device is strong enough to hold the load foreseen. No persons should stop near the fastening point, trailing chains or cables.
- Maintenance and repair operations must be carried out in a CLEAN and DRY area, eliminate any water or oil spillage immediately.
- Do not create piles of oil or grease--soaked rags as they represent a serious fire hazard; store them in a closed metal container.
Before starting the vehicle or implements, make sure that the driver's seat is locked in position and always check that the area is free of persons or obstacles.
- Empty pockets of all objects that may fall unobserved into the vehicle parts when disassembled.
- In the presence of protruding metal parts, use protective goggles or goggles with side guards, helmets, special footwear and gloves.
- Handle all parts carefully, do not put your hands or fingers between moving parts, wear suitable safety clothing -- safety goggles, gloves and shoes.

WELDING OPERATIONS

- When welding, use protective safety devices: tinted safety goggles, helmets, special overalls, gloves and footwear. All persons present in the area where welding is taking place must wear tinted goggles.
NEVER LOOK AT THE WELDING ARC IF YOUR EYES ARE NOT SUITABLY PROTECTED.
- Where possible, remove the part or tool that requires arc welding from the tractor.
- Disconnect both battery leads. Isolate the cable ends to avoid contact with each other and the tractor.
- Position the welder ground clamp as near as possible to the area where welding is taking place.
- Remove the electronic control units located on the tractor if welding is to be carried out near these control units.
- Never allow welding cables to lay on, near or across any electrical wiring or electronic component while welding is in progress.
- Metal cables tend to fray with repeated use. Always use suitable protective devices (gloves, goggles, etc.) when handling cables.

START UP

- Never start the engine in confined spaces that are not equipped with adequate ventilation for exhaust gas extraction.
- Never place the head, body, limbs, feet, hands or fingers near fans or rotating belts.

ENGINE

- Always loosen the radiator cap slowly before removing it to allow any remaining pressure in the system to be discharged. Coolant should be topped up only when the engine is stopped or idle if hot.
- Never fill up with fuel when the engine is running, especially if hot, in order to prevent the outbreak of fire as a result of fuel spillage
- Never check or adjust fan belt tension when the engine is running.
Never adjust the fuel injection pump when the vehicle is moving.



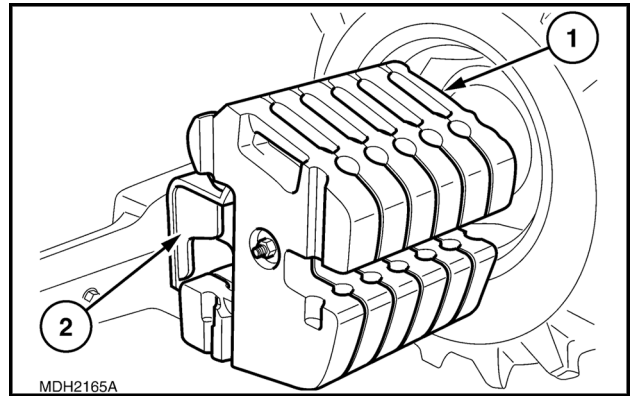
SERVICE MANUAL

Engine

T4.105N With cab [ZDJE16586 -], T4.105N Without cab [ZDJE18360 -], T4.105V With cab [ZDJE17896 -], T4.105V Without cab [ZDJE13827 -], T4.65V With cab [ZDJE10473 -], T4.65V Without cab [ZDJE11549 -], T4.75N With cab [ZDJE10131 -], T4.75N Without cab [ZDJE11495 -], T4.75V With cab [ZDJE10095 -], T4.75V Without cab [ZDJE11310 -], T4.85N With cab [ZDJE09941 -], T4.85N Without cab [ZDJE12418 -], T4.85V With cab [ZDJE11669 -], T4.85V Without cab [ZDJE10317 -], T4.95N With cab [ZDJE10238 -], T4.95N Without cab [ZDJE12231 -], T4.95V With cab [ZDJE11682 -], T4.95V Without cab [ZDJE11554 -]

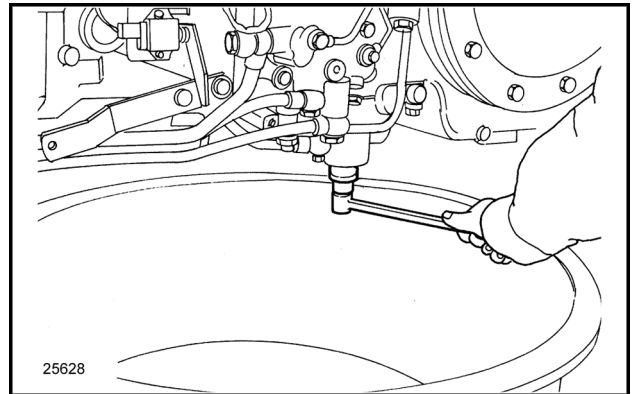
Engine - Remove

1. Remove the cab as described in operation "**Cab - Remove (90.150)**".
2. Extract the fixing pin and remove the ballast **(1)** ; unscrew the retaining screws and retrieve the ballast support **(2)** .



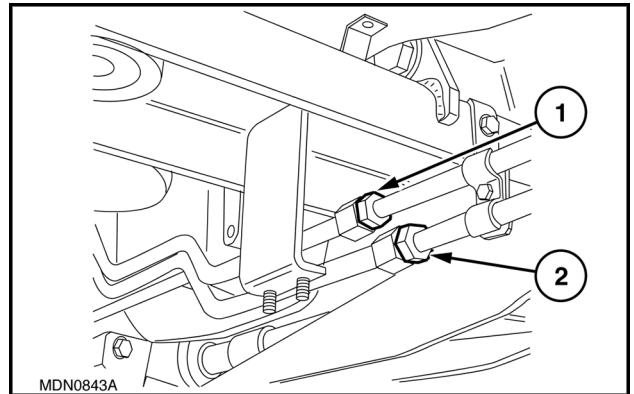
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3. Carry out operation in: **Drive shaft - Disassemble (21.145)**, propeller shafts and guard, only removal.
4. Unscrew the plug and drain the front transmission casing (prescribed quantity: **44 l (11.62 US gal)**).



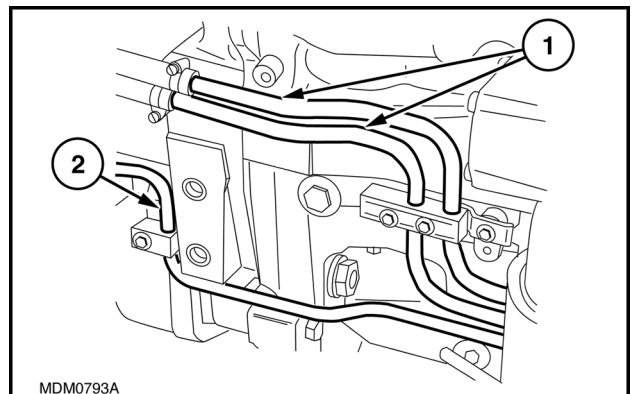
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5. Disconnect the pipes (**(1)** and **(2)**) of the transmission oil cooler and of the front axle differential lock.



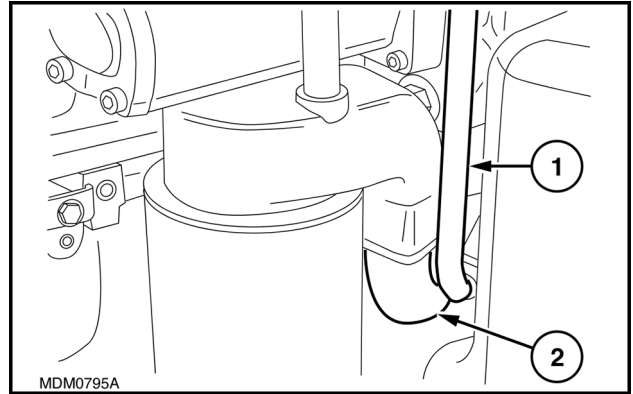
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6. Disconnect: the transmission oil cooler pipes **(1)** and the front axle differential lock pipe **(2)** .



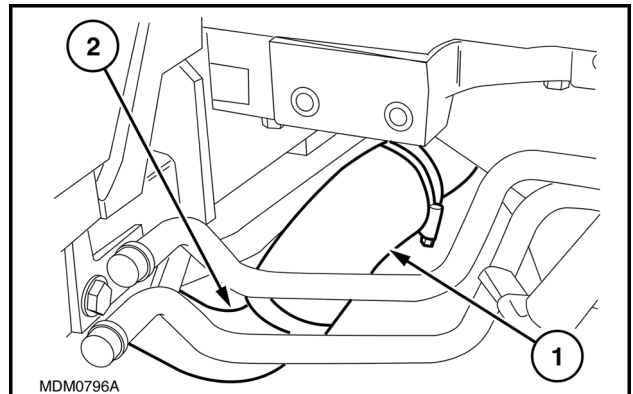
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7. Unscrew: the retaining bolts of the pipe **(1)** delivering oil to the pump and the bolts retaining the pipe **(2)** to the filter support.



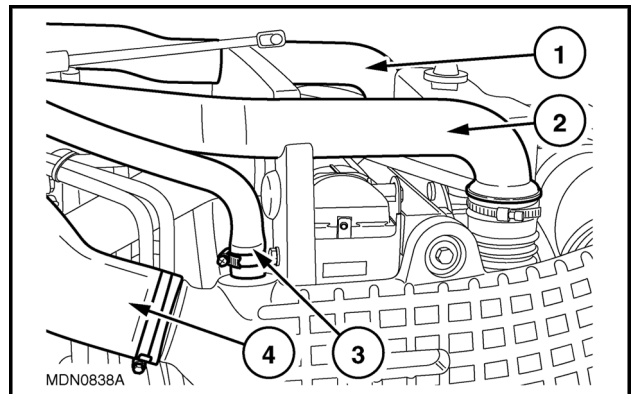
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8. Loosen the related clamps and remove the sleeve **(2)** from the pipe **(1)** and remove the transmission oil inlet pipe together with the above-mentioned sleeve.



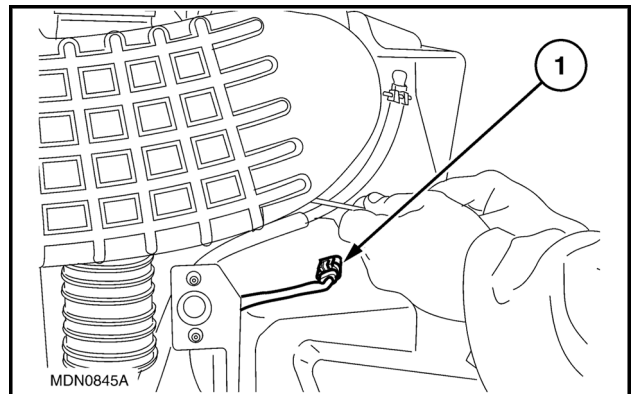
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9. Unscrew the fixing clamps and disconnect the pipes **(1)** and **(2)** from the cooler, the sleeve **(4)** between the air filter and the turbocharger and the oil vapour recirculation pipe **(3)**.



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10. Disconnect the secondary tank fuel level connection **(1)** and the clogged air filter pressure switch connection.



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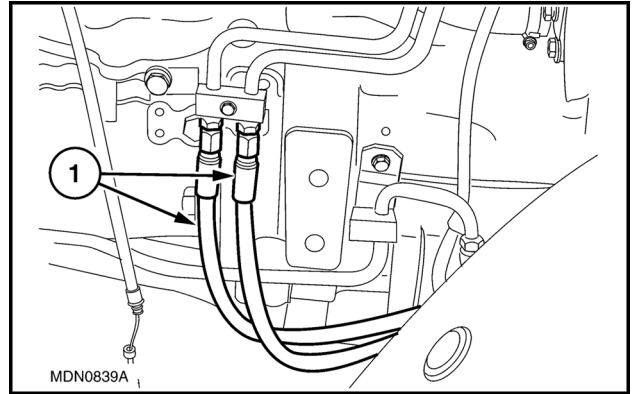
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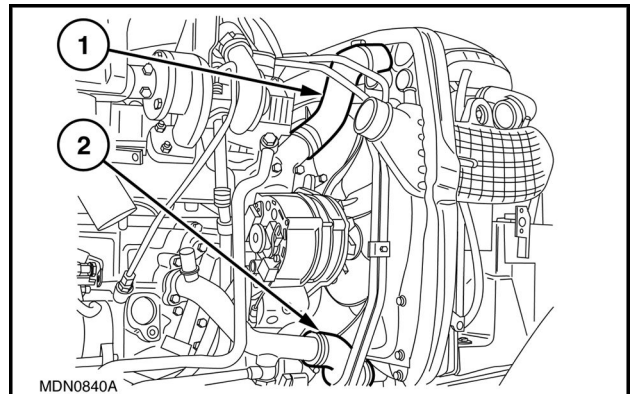
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11. Disconnect the steering hydraulic cylinder control pipes **(1)** .



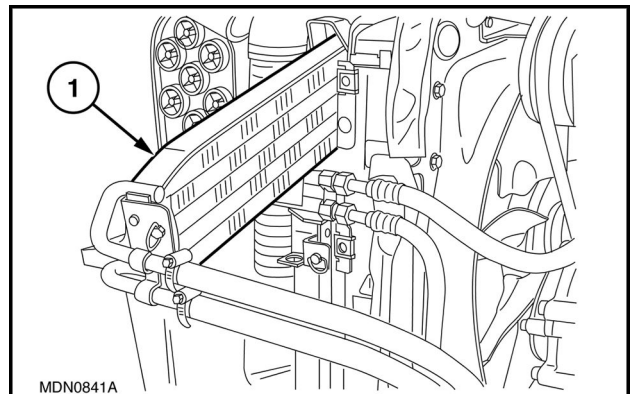
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12. Unscrew the fixing clamps and detach the upper **(1)** and lower **(2)** sleeves from the engine radiator.



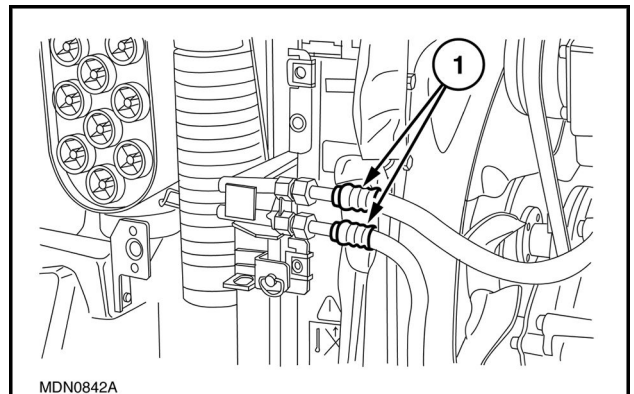
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13. Unhook the catch and extract the transmission oil radiator **(1)** .



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14. Disconnect the pipes **(1)** of the air-conditioning system from the related condenser.



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