SERVICE MANUAL

Backhoe Loaders
B90B / B90BLR / B100BTC
B110B / B110BTC / B115B

Print No. 84581918

NEW HOLLAND CONSTRUCTION

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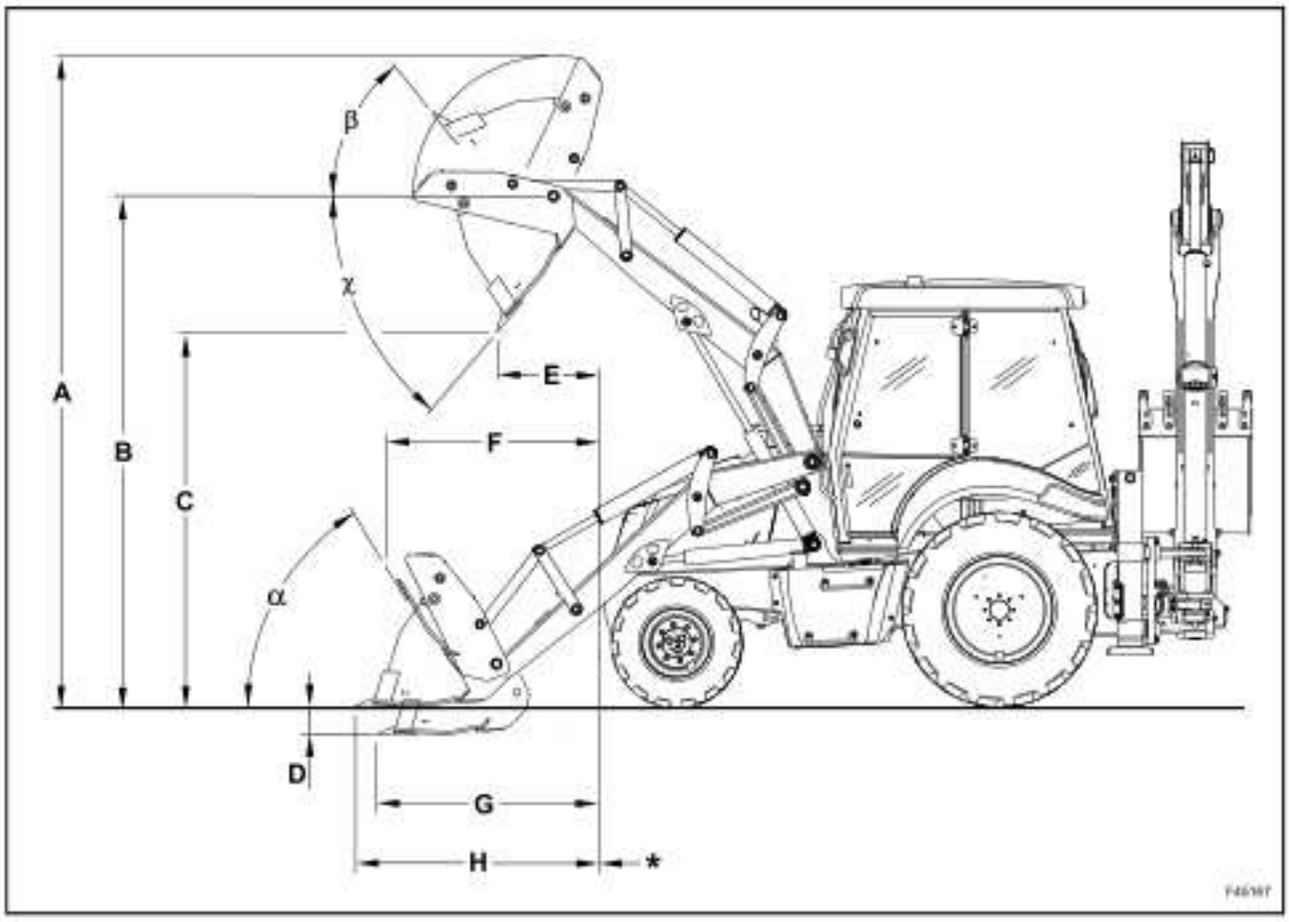
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B100BTC AND B110BTC [WITH STANDARD BUCKET 4x1 1 m^3 (35.3 ft^3)]



* Front counterweight

A. Maximum height/dimensions

B. Maximum height of loader bucket pin/pivot

C. Maximum dumping height

D. Digging depth

E. Loader attachment reach when raised in dumping position

F. Loader attachment reach when lowered with retracted bucket

G. Attachment reach in digging position

H. Attachment reach when lowered

α. Angle of lowered closed bucket

β. Angle of closed bucket at maximum height

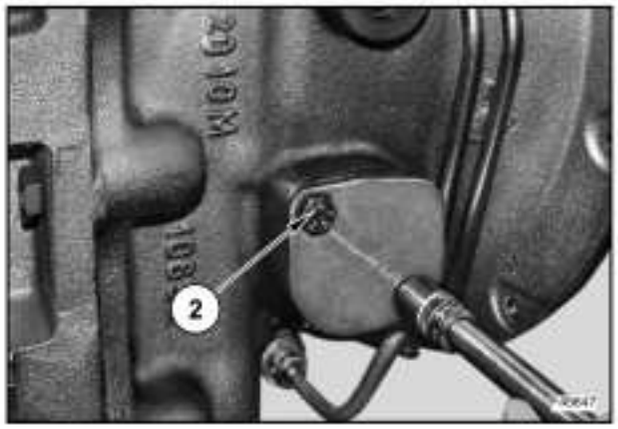
χ. Dumping angle

Front tyres	12.5-18 SLR4
Rear tyres	18.4-28 SLR4
A	4405 (173.42)
B	3458 (136.14)
C	2693 (106.02)
D	125 (4.92)
E	813 (32.01)
F	-
G	-
H	-
α	43.4°
β	-
χ	45°

mm (in)

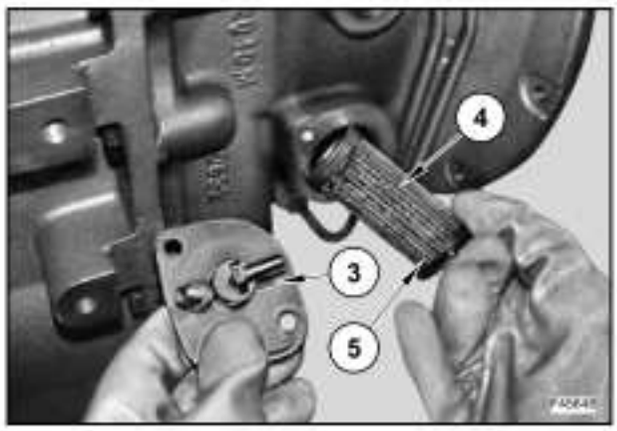
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Loosen and remove the 2 screws (1).



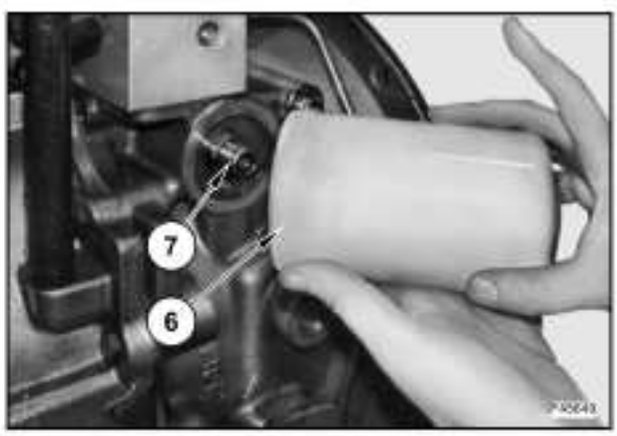
Remove cover (3).

Remove the oil filter (4) and the O-ring (5).

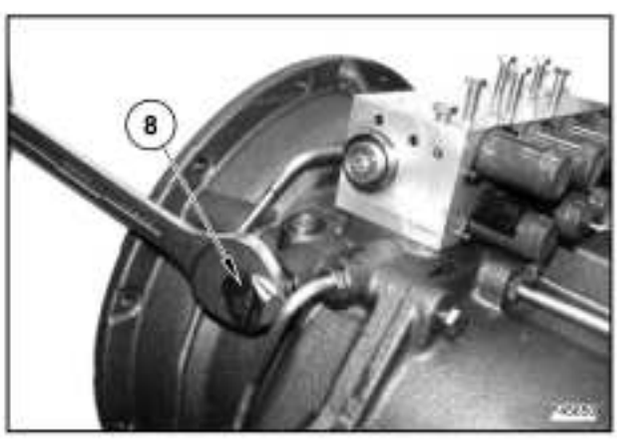


Unscrew and remove the oil filter (6).

If necessary, remove the fitting (7).



Loosen and remove the valve (8).



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CONDENSER

The condenser (1), located at the front of the machine in front of the engine radiator consists of a number of turns of continuous coil mounted in a series of thin cooling fins to provide a maximum of heat transfer in a minimum amount of space.

The condenser receives the hot, high pressure coolant vapour from the compressor.

The hot vapour passes through the condenser coils and outside air is drawn through the condenser by the engine cooling fan.

Heat moves from the hot coolant vapour into the cooler outside air flowing across the condenser coils and fins.

When the coolant vapour reaches the pressure and temperature that will induce a change of state, a large quantity of heat is transferred to the outside air and the coolant changes to a high pressure warm liquid.

The warm liquid coolant continues onto the receiver/drier where it is filtered and desiccated, to remove any moisture, before passing through an outlet line to the thermostatic expansion valve.



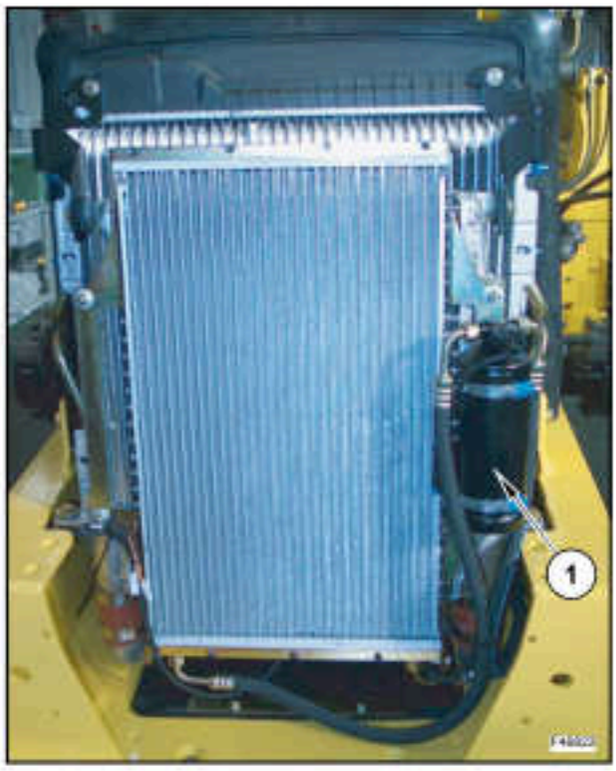
RECEIVER DRYER

The receiver/dryer (1) stores the liquid coolant to make sure that a steady flow to the expansion valve is maintained also under extremely different operating conditions.

The drier contains a desiccant (molecular sieve) which absorbs any moisture within the system, and a filter which prevents the entry of foreign particles.

NOTE: *any moisture in the air conditioning system is extremely harmful. Moisture not absorbed by the dehydrator will circulate with the coolant and droplets may collect and freeze in the thermostatic expansion valve orifice. This action will block the coolant flow and stop the cooling action. Moisture will also react with coolant HFC 134a and the lubricant to form a corrosive acid.*

The desiccant can only absorb a limited amount of moisture before reaching saturation point. Because of this, after any system component replacement or repairs requiring entry into the system, the receiver/dryer should be replaced.



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LOADER BUCKET CYLINDER REMOVAL (B100BTC - B110BTC - B115B)

Move the machine to a level and firm ground.

Place the bucket firmly on the ground.

Relieve the residual pressure in the system by moving the loader control lever through all operating positions.

Support the cylinder using a sling and a suitable support.

Disconnect the hoses.

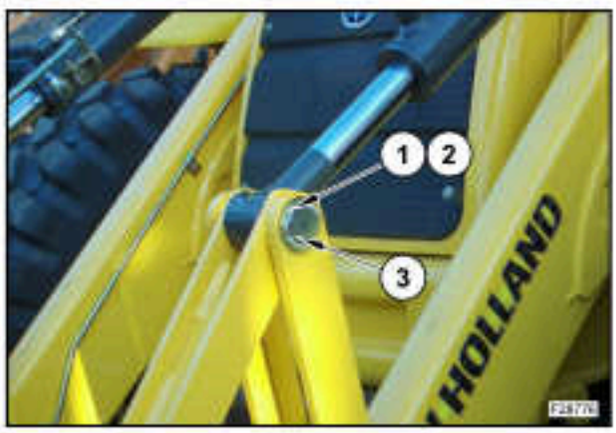
Cap or plug all exposed openings.



Support the bucket linkage and rods.

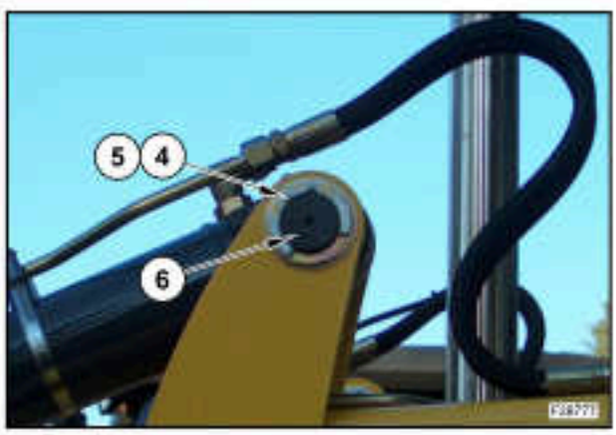
Remove the snap ring (1) and the spacer (2).

Hammer to slide out the pin (3).



Remove the stop ring (4) and the shim (5).

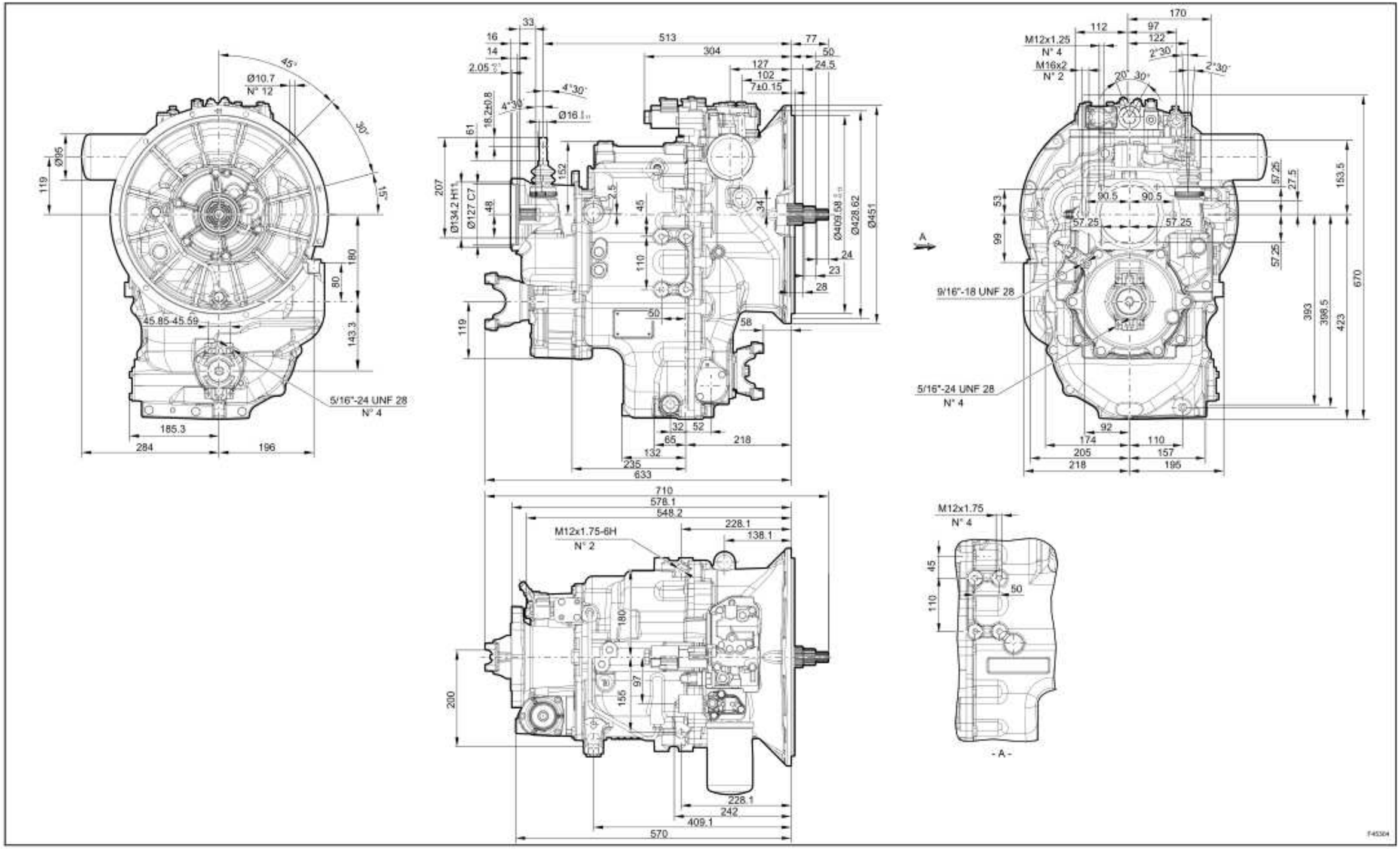
Hammer to slide out the pin (6).



Remove the loader bucket cylinder.

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4WD



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