

**20.01**

**OPERATOR'S  
MANUAL**

**PPM**

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## CONTROL PANEL

(ON LEFT-HAND SIDE OF CARRIER)

- 39 – Battery charge warning light
- 40 – Hydraulic tank filter clogging warning light
- 41 – Hydraulic tank oil level warning light
- 42 – Engine head assembly temperature warning light
- 43 – Engine turbine belt failure warning light
- 44 – Engine oil pressure warning light
- 45 – Hourmeter
- 46 – Converter oil temperature gauge
- 47 – Powershift box clutch oil pressure gauge
- 48 – Fuel gauge

## FUSES ON CARRIER CONTROL PANEL

- F10 3A Not used
- F11 40A Not used
- F12 40A Turret power-supply fuse
- F13 10A Undercarriage dashboard warning light fuse
- F14 10A Left-hand headlight fuse
- F15 10A Right-hand headlight fuse
- F16 10A Left-hand low-beam light fuse
- F17 10A Right-hand low-beam light fuse
- F18 10A Side light and tail light fuse
- F19 10A Stop light fuse
- F20 10A Not used

**54 – FRONT LEFT-HAND SHOE CONTROL LEVER**

- push to lower the front left-hand shoe.
- pull to raise the shoe.

**55 – REAR RIGHT-HAND SHOE CONTROL LEVER**

- push to lower the rear right-hand shoe.
- pull to raise the shoe.

**56 – REAR LEFT-HAND SHOE CONTROL LEVER**

- push to lower the rear left-hand shoe.
- pull to raise the shoe.

**57 – STEERING SELECTION : TWO STEERING WHEELS – FOUR STEERING WHEELS**

- push selector to have two steering wheels at front.
- pull selector to have four wheel steering.

**SELECTION CAN ONLY BE MADE IN BOTTOM GEAR (contactor ref. 25 tilted downwards)**

## SUMMARY OF MAINTENANCE OPERATIONS

Every 500 hours

Paragraph	Components concerned	Operations required	Ingredients
D1 D5 D6	Injectors Powershift + converter transmission Transfer box	Checking Drain and fill up Drain and fill up	ELF MATIC G 2 TRANSELF EP SAE 80W/90

Every 1000 hours

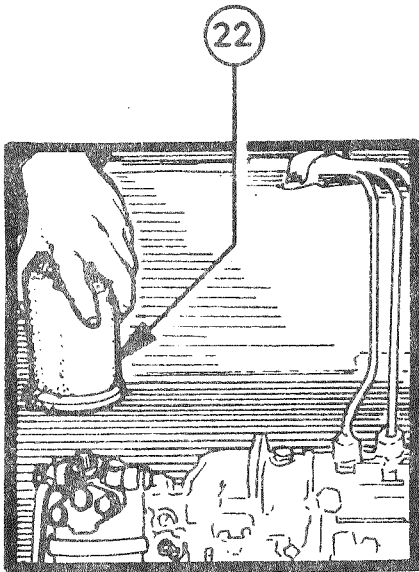
Paragraph	Components concerned	Operations required	Ingredients
D1	Engine electric components	Check alternator - regulator starter	

Every 2000 hours

Paragraph	Components concerned	Operations required	Ingredients
D1 D2 D8	Fuel injection pump Hydraulic reservoir Front and rear axles	Drain Drain and refill Drain and refill differentials and reduction gear	Engine oil POCLAIN hydraulic fluid Tranself EP SAE 80W/90

- Tighten the cartridge an extra half-turn
- Start the engine and check for leaks

### REPLACING FUEL FILTER CARTRIDGE



Interval : 200 - 240 hours

### REPLACING CARTRIDGE

- Carefully unscrew cartridge (22) , to prevent the fuel it contains from spilling
- Wipe surface of seal before screwing the new cartridge

### AFTER SERVICING

- Bleed and reprime fuel circuit
- Check to see that there are no leaks with engine running

### CHECKING VALVE PLAY

Interval : 200 - 240 hours

### CHECKING PLAY

Adjustment of play as described below can be carried out by any skilled operator. Otherwise, apply to a competent mechanic.

Engine cold :

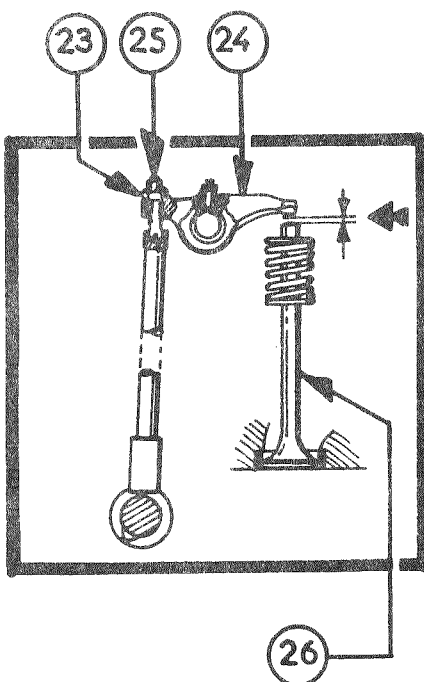
Remove cylinder head covers

- Crank the engine to bring the two valves of the cylinder involved in closed position, that is, with the valve pushrods in fully lifted position

- Insert a 0.15 mm feeler gauge between the valve pushrod (26) and rocker arm end (24)


- To increase or decrease play, loosen locknut (23) one turn and, using a screwdriver, turn adjusting screw (25) ; a light frictional drag should be felt when passing the feeler blade

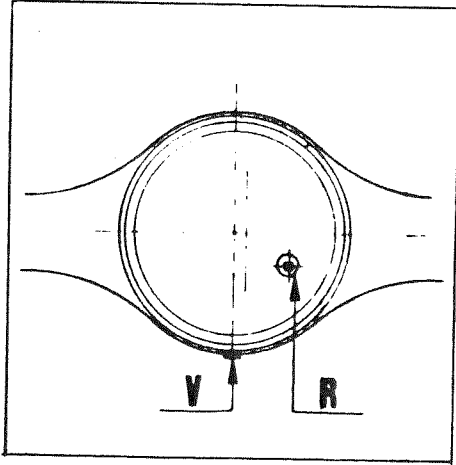
- Retighten the locknut.



## D8 – FRONT AND REAR AXLES

### 1 – Front and rear differential

Oil  SAE 90 EP Tranself



Capacity : 9 litres

Level check : every 100 hours

Carry out initial draining after 250 hours operation.


Subsequently : drain at 2000 hour intervals

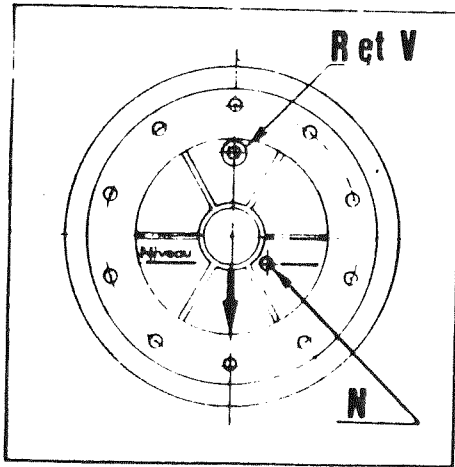
1 plug R for refill and level check

1 plug V for draining.

Clean breather located at top of housing.

### 2 – Front and rear axle reduction gears

Oil  SAE 90 EP Tranself



Capacity : 1.5 litres

Level check : every 100 hours

Carry out initial draining after 250 hours operation


Subsequently :

Drain at 2000 hour intervals

Refill (at top) and drain (at bottom) through plug R and V.

Check level when refilling through plug N (vertical arrow).

## D9 – SUSPENSION LOCKING AND DRAG LINK

Grease : 

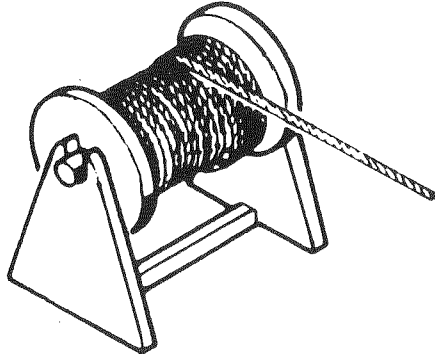
Interval : every 200 hours

There is a grease nipple on each suspension locking cylinder bearing and 2 grease nipples on each steering link rod.

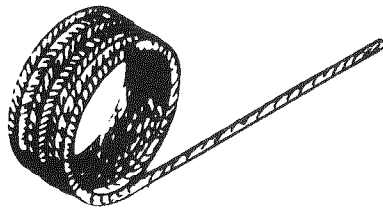
# LOCATION OF CABLES

## CORRECT UNWINDING

Cable on drum.

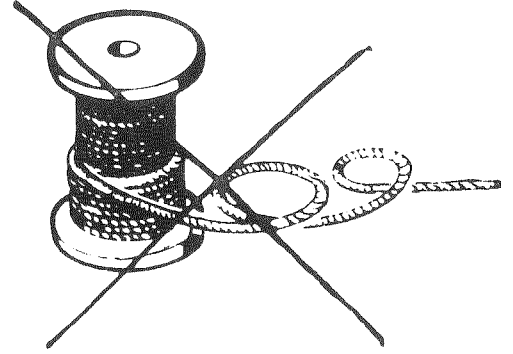


Cable coils.

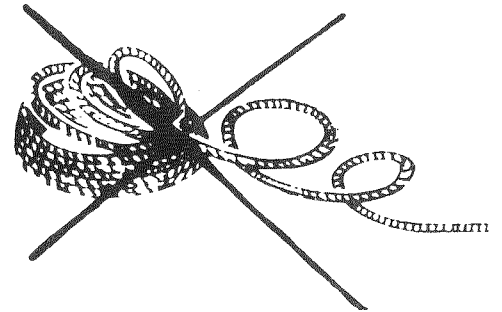


## INCORRECT UNWINDING

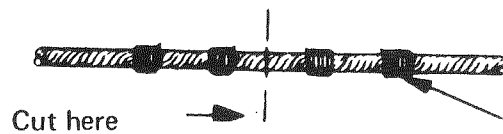
Cable on drum.



Cable coils

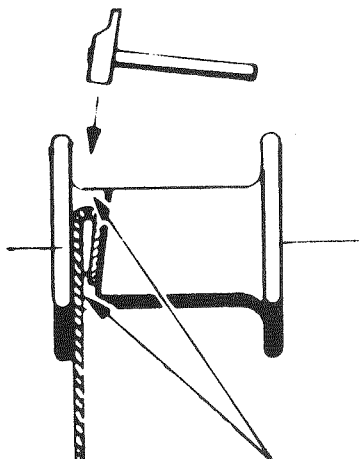


## Cutting anti-spin cable.

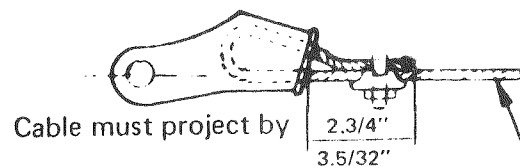


Cut here

Bind ends of cable to be cut.  
Cut afterwards.



The cable must remain on the drum.

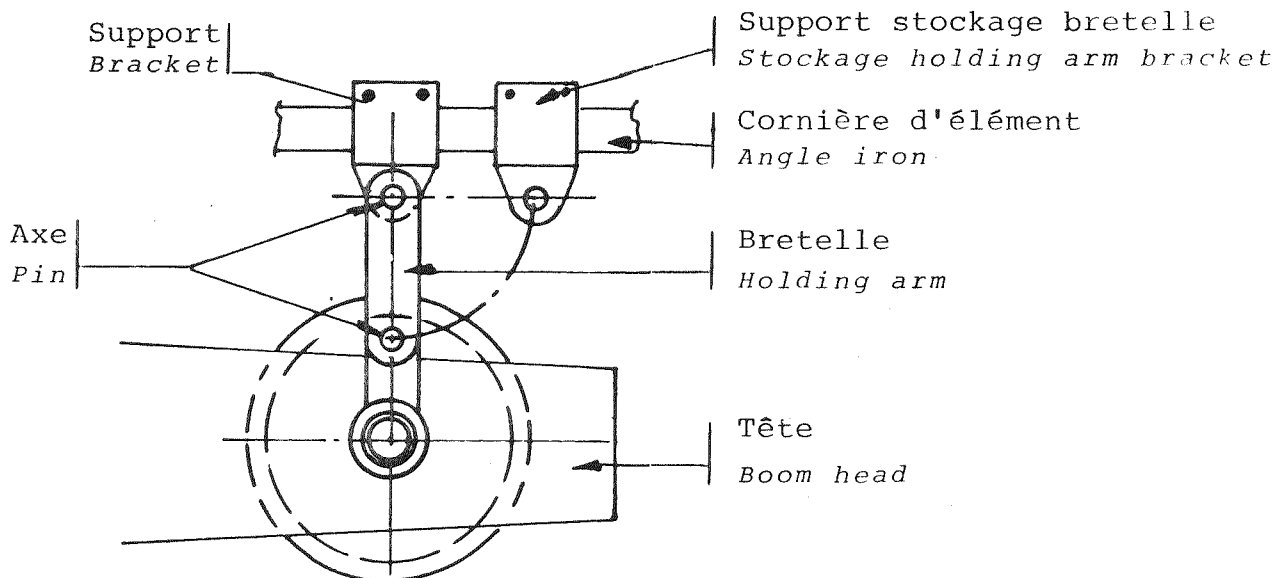


Cable must project by

$\frac{2.3}{4}''$   
 $\frac{3.5}{32}''$

Carefully maintain alignment of cable in relation to cable

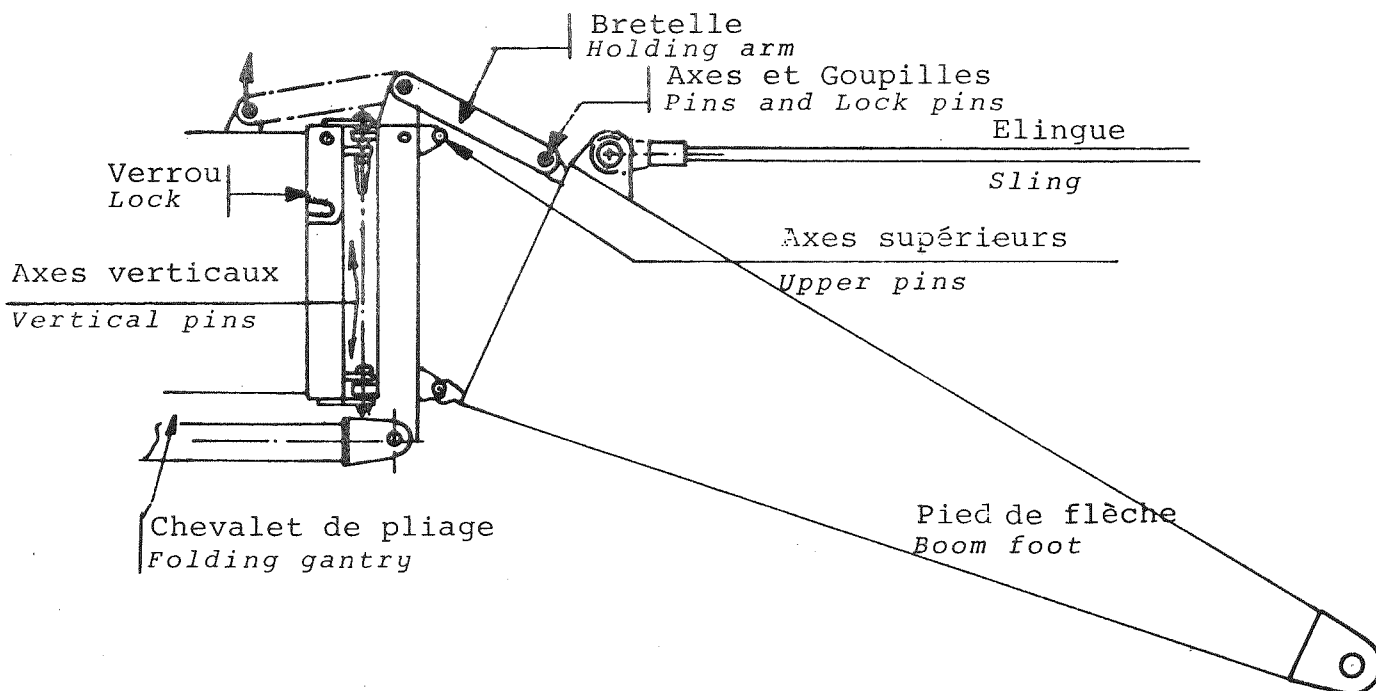
- Install the holding arm to immobilize the head.




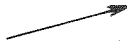





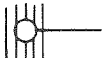











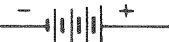

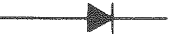






- Slacken the folding cable by about 1 m.  
If required, take up a little of the hoist cable slack **without tightening**.

### PREPARING SIDE FOLDING

- Lay the assembly on the ground.
- Undrift the upper pins between the boom foot and the folding adaptation section.
- Derrick, remove pins and fold the boom.
- Install the holding arm with its pins and cotter-pins.



## ELECTRICAL SYMBOLS

	ELECTRICAL WIRE		GENERAL SYMBOL FOR VARIABLE ELEMENT
	HEAVY SECTION ELECTRICAL WIRE		PRESSURE CONTROL
	CROSSING OF WIRES WITHOUT CONNECTION		TEMPERATURE CONTROL
	CROSSING OF WIRES WITH CONNECTION		FLOAT ( LEVEL INDICATOR CONTROL )
	FIXED ELECTRICAL CONNECTION		GROUND
	DETACHABLE ELECTRICAL CONNECTION		GROUND ( ON FRAME )
	SLIPRING CONTACT		CIRCUIT BREAKER
	ELECTRICAL ELEMENT		COIL ( ELECTRO VALVE COIL )
	SAME ELECTRICAL ELEMENT REF. U1		FUSE
	GENERAL SYMBOL MOTOR, GENERATOR, AMPMETER		ACCUMULATOR
	MECHANICAL CONNECTION BETWEEN 2 PARTS		DIODE
	MANUAL CONTROL		ZENER DIODE
	MECHANICAL CONTROL ( PUSH BUTTON )		THYRISTOR
	SPRING RETURN		TRANSISTOR

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