

Product: New Holland SB36/SB56/SB58/SB60/SB62/SB64 Grape Harvester Service Repair Manual

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SERVICE MANUAL

SB36 / SB56 / SB58 SB60 / SB62 / SB64 Grape Harvester

Part number 6048223100

English

May 2000



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HARVESTERS **BRAUD**

A	BASIC SUPPLY
B	CONTROLS AND INSTRUMENTS
C	SHAKING
D	RECEIVING - TRANSPORTATION
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I	HYDRAULIC SYSTEM
J	TRANSMISSION
K	ELECTRICAL SYSTEM
L	MULTI-PURPOSE
M	MAINTENANCE
N	TOOLING

BASIC SUPPLY

TECHNICAL SPECIFICATIONS**Harvesting machines****Self-propelled machines****SB 64 - SB 62 - SB 60 - SB 58 - SB 56 and SB 36****HARVESTER****Disassembling the machine**

- The harvester assembly, including the buckets, is mounted on a special frame and fixed in only three points, thus making disassembly operations very easy.
- All hydraulic lines and electric connections between the self-propelled machine and the harvesting group are equipped with fast-couplings.
- Norias motor can be disassembled without touching the flexible lines.

Shaking header

- Operation principle: S.D.C. (Controlled Dynamic System = C.D.S.)
- Shaking header placed on 4 vibration damping supports.

The frame is made up of the following welded parts:

- Front
2 shaker carriers of thick plate, mounted on tight bearings
- Rear
The shaker rods are fixed to the thick tube channel and allow the shakers to be deformed separately without mutual interference.

Real height: 1.25 m with 26 holes to fix the shakers at any level.

- The shakers are made of very flexible nylon material which has been developed with the help of the Bureau d'Etudes BRAUD (BRAUD Research Department). They have two front holding holes and a rear articulation joint.
 - front fixing: two half flanges
 - rear fixing: mix with a rod and a connection
 - shaker diameter: 32 mm
- The two front shaker carriers are controlled by two small rods and two side cams with two inertial flywheels.
 - Impossible offset
 - Easy-to-adjust width (three positions)
 - Quick adjustable convergence
- Shaking frequency control and adjusting from the driver's seat.
- Permanent displaying of shaking frequency on the dashboard panel

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Noria collectors

This system is made up of two chains, each with 62 flexible buckets, with speed depending on the machine inching speed.

- two fast couplings to detach the noria-chain assembly and remove the first bucket easily.
- Inchng by a hydraulic motor and reduction gearbox (without chain and mechanic limiting devices). Max. torque (300 daNm on noria shaft) is controlled by hydraulic pressure (150 bar).
- operation set through a button from the driver's seat.
- gathering height: 15 cm.
- side guard: stainless plates and plasticized plates.
- rear guard: PVC fenders.
- bucket operating function with standing machine to have them washed and maintained.
- harvesting assembly suspended on two points in the front and in the rear for self-levelling.
- side tilting:
- stalk-guide = from 165 with elastic amplitude up to 250 mm.
= 195 mm with elastic amplitude, up to 265 mm with long edge buckets.

Conveying

- 2 stainless steel side conveyors, with PVC belts, each powered by an hydraulic motor. Width: 600 mm.
- Belt centering kept by another central guide belt.
- Belt rotation reverser.
- Rotation speed displaying on the board computer.

Cleaning

- Lower extractors: Standard SB 64 and SB 58
Optional SB 62, SB 56 and SB 60

The 430 mm diameter rotor sucks the leaves through a duct in the front gathering channel before they fall into the buckets.

A sarment-chopper is mounted on the entry of each duct.

- Upper extractors: standard on all models.

The rotor has a 460 mm diameter and is equipped with a detachable sarment-chopper.

- rotor speed electrically controlled from the driver's seat (upper and lower extractors are controlled separately).
- speed controlled by the board computer: data relevant to upper or lower or conveyor cleaning operation are displayed alternatively through a selection switch.

Technical specifications**Containers**

- Two side containers with independent rear discharge controlled separately by electric push buttons.
- The container can return simultaneously.
- Harvest distribution by means of a large stainless steel auger (180 mm), with low speed and controlled directly by a motor.
- They can be set into operation separately from the harvesting assembly.
- Capacity:
 - 2 x1050 l
 - 2 x1300 l
 - 2 x1600 l excluding SB 36
- Clearance under the container articulation, with lowered machine: 2070 mm.

SELF-PROPELLED MACHINE**Frame**

- Square-sized tubular frame with two supporting beams and a front channel.
- Rear channel to stiffen the frame can be easily disassembled with the harvesting assembly.
- Two arms supporting the rear wheels, with articulation on the frame and orientation by means of cylinders, which ensure the possibility to lift the machine on the right or on the left side up to 600 mm. This makes it possible to adjust the machine leaning up to a 30%.
- Height adjusting stops to keep and restore the same operating height.
- Two front legs bearing sliding and rotating wheels, to fix an hydraulic bar with 80 mm tilting.
- A 600-mm machine lifting, synchronised with the corresponding rear side, makes it possible to adjust the leaning up to a 30%.
- The bar is fixed by a lock through a solenoid valve which controls:
 - each leaning position
 - leaning 3rd LED lighting up starting from 20% in slopes
 - electric power cut off.
- Speed ahead, 90° steering angle.

BASIC SUPPLY

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Tyres

EQUIPM.	TYPE OF TYRES	PRESSURE (bar)
	SB 64 - 62 - 60 - 58 - 56	
Standard	Front 13.6 R 24 - 129 A 8 "Tubeless" Rear 16.9 R 28 - 136 A 8 "Tubeless"	2.4 1.6
Option 1	Front 420/70 R 24 130 A 8 "Tubeless" Rear 480/70 R 28 140 A 8 "Tubeless"	1.6 1.6
Option 2	Front 420/70 R 24 130 A 8 "Tubeless" Rear 540/65 R 28	1.6 1.6
Option 3	Front 420/70 R 24 130 A 8 "Tubeless" Rear 580/70 R 28 142 A 8	1.6 1.4
Option 4	Front 420/70 R 24 130 A 8 "Tubeless" Rear 580/70 R 26	1.6 1
Option 5	Front 420/70 R 24 130 A 8 "Tubeless" Rear 600/55 - 30.5 - PR 8 Tbl Trelleborg T 414 TL	1.6 1.1
	SB 36	
Standard	Front 13.6 R 24 129 A 8 Rear 14.9 R 30 filled with 75% of Chrysogel Max. speed limited at 18 km/h	2.4 207 litres of Chrysogel 1.9
Option 1	Front 420/70 R 24 130 A 8 "Tubeless" Rear 480/70 R 28 140 A 8 "Tubeless"	1.6 1.6
Option 2	Front 13.6 R 24 129 A 8 "Tubeless" Rear 16.9 R 28 136 A 8 "Tubeless"	2.4 1.6
Option 3	Front 13.6 R 24 129 A 8 "Tubeless" Rear 9.5 R 36****	2.4 4.0

Wheel tightening torque:

front 31 daNm, thus 42 daNm +10% -20% with non-rotating base nut

Rear 55 daNm, thus 70 daNm +10% -20% with non-rotating base nut

Ratio between rear and front circumferences: it must be between 1.12 and 1.20.

Wheel ballasting

Usually wheel ballasting isn't required. Anyway, in some particular cases, the wheels can be ballasted with liquid.

For ballasting with liquid the wheels equipped with "**Tubeless**" tyres calcium chloride cannot be used.

Mono-ethylene glycol liquids are recommended, with corrosion-preventers such as nitrites (NaNO₂).

For example: Ambra Agriflu diluted in water.

Freezing temperature - C	- 16	- 18	- 25	- 37
% Agriflu	30	33	40	50

Technical features

Inching - Driving

- **SB 64** - Diesel engine with 6 cylinders FIAT 8061 SI 11, water cooling system, turbocharger feeding, 140 CV.
 - **SB 62** - Diesel engine with 6 cylinders FIAT 8061 SI 11, water cooling system, turbocharger feeding, 125 CV.
 - **SB 60** - Diesel engine with 6 cylinders FIAT 8061 SI 11, water cooling system, turbocharger feeding, 117 CV.
 - **SB 58 - SB 56** - starting from chassis numbers 628018001, 6-cylinder engine Fiat 8061 I 25.05 with water cooling system, atmospheric feeding by 102 CV.
 - **SB 58 - SB 56 - SB 36** - Diesel engine with 4 cylinders Fiat 8041 SI 25 water cooling system, turbocharger feeding, 108 CV.
 - Dry air filter with double cartridge. Filter clogging electric warning signal.
 - Electric circuit 12 V, 124 Ah battery and 65 Ah standard alternator, 120 A from series 629072 and 628070.

- Optional: 140 Ah battery with 85 Ah alternator.

Starting from series 629-74, 628

- SB 64, 62 and 60 are equipped with engine 8065SE by 150 CV for SB 64 and 130 CV for SB 62

and 60.

- Starting from the series 628050:
SR 52 and 53 shall be equipped with 2001 LF engine by 112 CV net

- SB 56 and 58 shall be equipped starting from the series 207000.

- Starting from the series 627008:

 - SB 36 shall be equipped with 8045 SE engine by 100 CV.
 - The 140 Ah battery and the 80 A alternator are included in the standard supply starting from series 629A41, 628044, 627008.
 - Fuel tank, 210 l capacity.
 - Hydrostatic driving by variable displacement pump with servo-control and relief valve;

Hydrostatic air SAUER pump 90R 100

Max HP valve setting = see sketch of section J.

- 4 "POCLAIN" wheel fixed-displacement motors
 - Speed

Field: 4WD =	11 km/h
Road: 2WD =	24.5 km/h max. in France and Italy. 22 km/h in Germany

Nevertheless, with tyres 14.9 R 30 the max. speed shall be 20 km/h for models SB 56, 58, 60, 62, 64 and 18 km/h for models SB 36.

- In road position, this kind of transmission is equipped with an integral antiskid system between the front and the rear axle.
 - Reverse speed is automatically set in 4RM, disregarding the machine driving mode, field or road.

Braking

- 2 emergency brakes, hydraulically controlled, integral with the rear motors.
 - Locking in case of booster pressure lacking.
 - Separate or simultaneous control by pedals from the driver's seat.
 - Manual stopping locking (parking).
 - Front, 2 fixed-displacement "POCLAIN" MS 08 motors on wheels.
 - Rear, 2 double-displacement "POCLAIN" MSE 18 motors on wheels.

Hydraulic system

All lines are flexible, thus reducing the number of connections.

- All lines are flexible, thus reducing the number of connections.
 - Connections type ORFS (O-ring Face Seal) to reduce the possibility of leakage, apart from the low pressure lines.
 - All connections of the harvesting assembly are protected.

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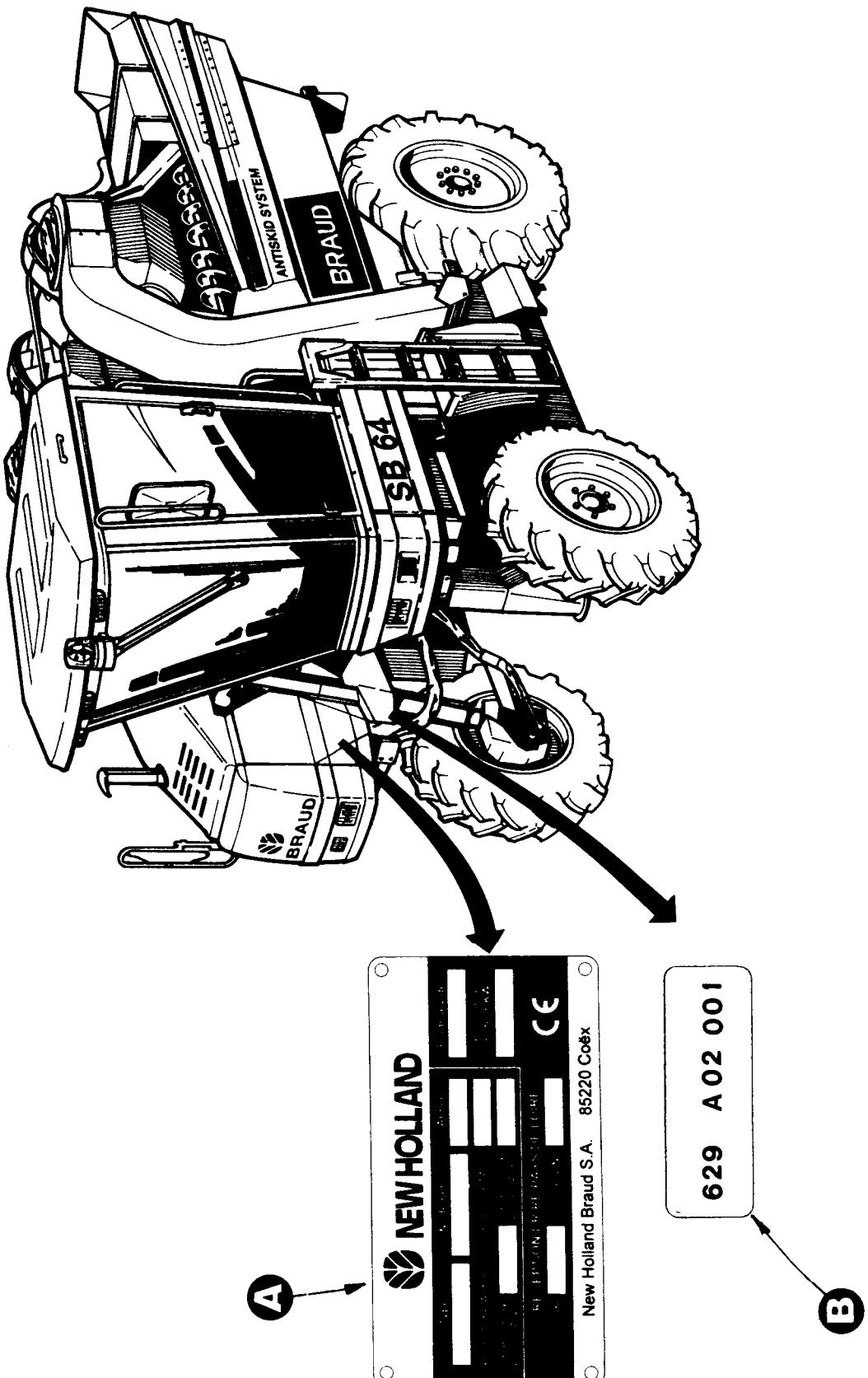
Driving platform

- Driver's seat placed on the front left of the machine, to give an overall view on the vineyard and the headland.
- Standard cab conditioning for SB 64 and SB 58.
- Steering wheel position adjusting.
- No hydraulic element inside the cab (to prevent accidents and noise).
- All tools to operate during the harvesting are controlled by buttons on the inching lever (leaning, shaking, cleaning).
- Electric safety leaning control.
- Compulsory simultaneous stopping of the whole machine assembly.
- Retractable ladder to facilitate getting on the harvesting header.

MULTI-PURPOSE

- These machines are partially multi-functioning, with a harvesting header which can be easily detached.
 - Three fast coupling connections on the hydraulic system.
 - Three fast coupling connection in the electric system.
 - Noria motor disassembling without taking the hoses off.
 - Removable lower fastening of left and right conveyor bearing channels.
 - Removable articulation of the anti-backing bars.
-
- Possibility to adapt tools of series 2000 with a distribution kit.
 - Hydraulic power take off by 30 or 45 CV.

BASIC SUPPLY



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MACHINE IDENTIFICATION

Model	Type	Serial number	Machine number of the series
SB 64	629	A02	001
SB 62	629	B03	001
SB 60	629	C12	001
SB 58	628	002	001
SB 56	628	002	001
SB 36	627	002	001
Starting from the following series, the letter of the serial number changes			
Model	Type	Serial number	Machine number of the series
SB 64	629	D54	001
SB 60	629	E53	001
SB 58	628	B50	001
SB 56	628	B51	001
SB 36	627	A08	001

A = Manufacturer's label**B = Stamped frame number**

Note: the machine number on the manufacturer's data plate can be different depending on type of tyres installed and thus on the max. speed on road.

Example: in model SB 36 with rear wheels 16.9 R28, the number shall be 627 A10 001
in model SB 36 with rear wheels 14.9 R30, the number shall be 627 A10 101

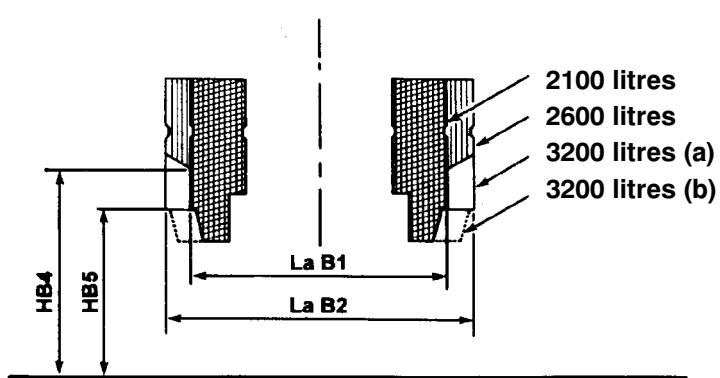
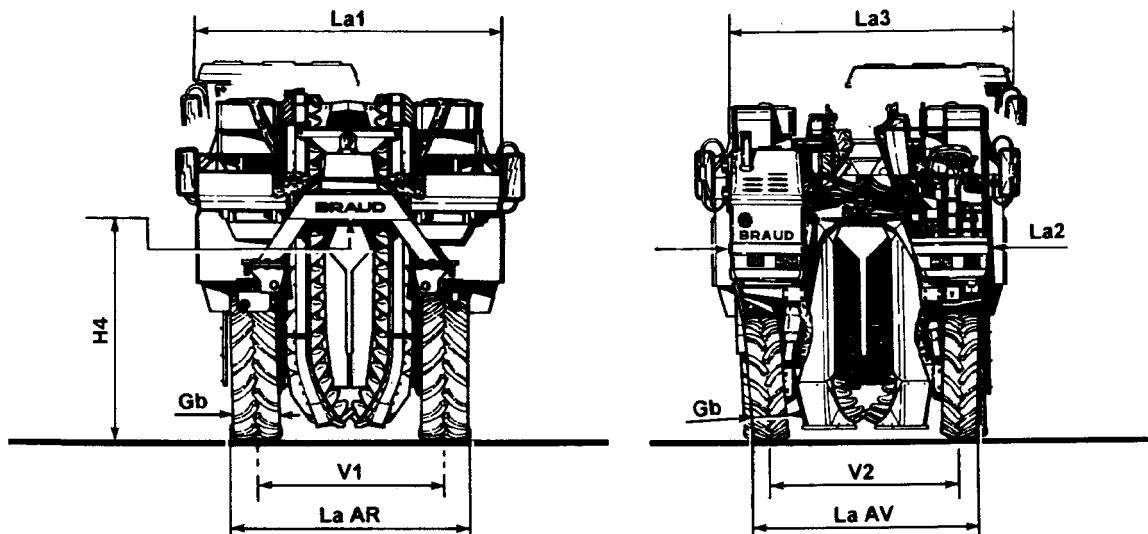
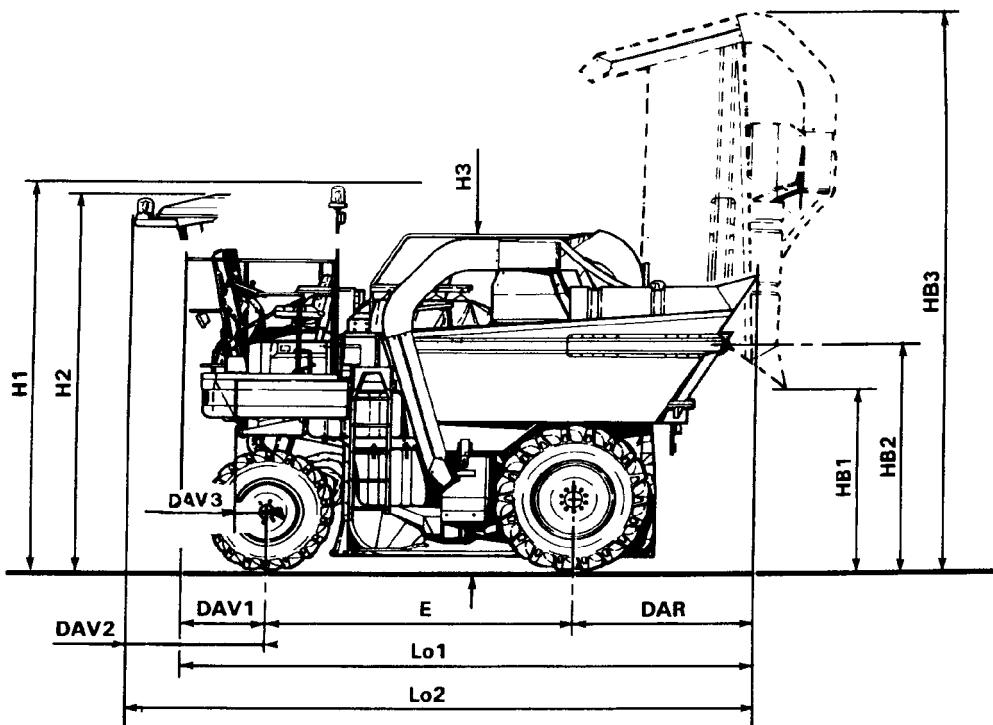
OPERATOR'S MANUAL

Print no.: 604 80 101 00 (GB) 97

SPARE PART CATALOGUE

Print no.: 604 81 055 00

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COMMERCIAL DESCRIPTION		SB 64	SB 60	SB 58	SB 56	SB36		
SELF-PROPELLED MACHINE								
Code	DIMENSIONS (mm)							
H1	Height: w/out cab		3650			3650		
H2	(low harvesting header) with cab	3530	3530	3530		3530		
H3	Harvesting header at railings height			3240				
H4	Clearance under harvesting header			from 2000 to 2600				
HB1	Clearance under tilted up containers			1640				
HB2	Tilting axle height			2040				
HB3	Lifted container max. height			5040				
HB4	Height under 2600 l container clearance			1750				
HB5	Height under 3200 l container clearance			1370				
E	Pitch / c/c			2860				
La1	Total width	Containers 2100 l w/out cab 2100 l + cab 2600l or 3200 l		2650		2510		
				2770		2570		
				3000		2800		
La2	Total width	Only self-propelled w/out cab		2560		2360		
La3	Total width	Only self-propelled with cab		2790		2590		
LaB1	Container width	2100 l		2530		2330		
LaB2		2600 l or 3200 l		3000		2800		
La AR	Outer width at rear wheels level: (V1 + Gb = La AR)	Tyres 14.9 R 30 Standard (Kléber) (misalign. = 130 mm) Narrow (Kleber) (misal. = 145 mm) Super-Narrow 9.5 R 36 (misal. = 129 mm) Tyres 16.9 R 28 Tyres 480 / 70 R 28 Tyres 540 / 65 R 28 Tyres 580 / 70 R 26 Tyres 600x55x30.5					1800+370 = 2170 1750+370 = 2120 2230 1800+250 =2050	
La AV	Outer width at front wheels level: (V2 + Gb = La AV) (V2 at ground level)	Tyres 13.6 R 24 Standard (Goodyear) Narrow (Goodyear) Tyres 420 / 70 R 24		1870+350 = 2220 1870+420 = 2290		1670+350 = 2020 1630+350 = 1980		
Lo1	Total length:	w/out cab	5270			5270		
Lo2		with cab	5710	5710				
DAV1	Front misalignment:	w/out cab	840			840		
DAV2			1280	1280				
DAV3	Front multi-purpose support misalignment			300				
DAR	Rear misalignment			1570				

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	THERMAL ENGINE		SB 64 - SB 62	SB 58 - SB 56 - SB 36	
Type			8061 SI 11.05	8040 SI 25.55	
Manufacturer			IVECO AIFO		
Version			Diesel		
Cycle			Alternate		
Stroke number			4		
Number of cylinder and alignment	6 in line		4 in line		
Bore (mm)			104		
Stroke (mm)			115		
Volume (cm ³)	5861		3908		
Compression volume ratio			17.7/1		
Max. net power (CV / kW EEC)	140/103	125/92	108/79.5		
Max. speed (rpm)	2250		2300		
Max. torque (daNm EEC)	61.2		33.9		
Max. torque speed (rpm)	1300		1900		
Max. rotation speed (rpm)	2450		1995=2570		
			1996=2470		

	THERMAL ENGINE WITH 6 CYLINDERS	SB 60	SB 56 - SB 58
Starting from the series		629A40	from 628018 to 628049
Type		8061 SI 11.05	8061 I 25
Manufacturer	IVECO FIAT		
Version	Diesel		
Cycle	Alternate		
Stroke number	4		
Number of cylinder and alignment	6 in line		
Bore (mm)	104		
Stroke (mm)	115		
Volume (cm ³)	5861		
Compression volume ratio	17.7/1		
Max. net power (CV / kW EEC)	117/86	102/75	
Max. speed (rpm)	2250		
Max. torque (daNm EEC)	55		
Max. torque speed (rpm)	1250		
Max. rotation speed (rpm)	2450	2580	

	THERMAL ENGINE with 6 cylinders	SB 36	SB 60/62	- SB 64	SB56/58
Starting from the series		627008	629A41	268050	
Type		8045SE	8065 SE		
Manufacturer	IVECO FIAT				
Version	Diesel				
Cycle	Alternate				
Stroke number	4				
Number of cylinder and alignment	4	6 in line			
Bore (mm)	104				
Stroke (mm)	115				
Volume (cm ³)	3900	5861			
Compression volume ratio			17.7/1		
Max. net power (CV / kW EEC)	100/73.6	130/95.7		150/110.4	118/86.8
Max. torque speed (rpm)	2300				
Max. rotation speed (rpm)	2475		2450		

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Section A

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COMMERCIAL DESCRIPTION		SB64	SB60 SB62	SB58	SB56	SB36		
WEIGHT								
Max. acceptable weight under load (kg)		8000		7900				
Max. acceptable weight on: Front axle (kg)		3500		3900				
Rear axle (kg)		4900		4900				
Weight w/out load on: Total		7670	7180	7580	7090	7600		
Front axle		3290	2970	3140	2820	2900		
Rear axle		4380	4210	4440	4300	4700		
Weight of one wheel (kg)		105			105			
420/70 R 24		120			120			
14.9 R 30		NO			360*			
16.9 R 28		170			170			
480/70 R 28		175			175			
580/70 R 26		230			NO			
Weight of self-propelled machine (kg) with only wheel equipment 420/70 R 24 and 580/70 R 26		4740	4560	4600	4420	4600		
13.6 R 24 and 14.9 R 30								
Thermal engine weight (kg)		510		400				
FEEDING / EXHAUST								
Fuel tank		Used fuel			Diesel oil			
		Capacity (litres)			225			
Engine feeding system		direct injection						
Air cleaner		Manufacturer		DONALDSON	DONALDSON			
		Type		ELB 10-0057	ELB 08-0010			
Noise level in the cab (dBA)		77		81.5				
Engine cooling		Water capacity (l)		20				
		Fan		sucking				
Cooling fan		ø (mm)		610	590 then 610 (1)			

- * with 75% of Chrysogel, that is 207 l. (1) with 6-cylinder engine.

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COMMERCIAL DESCRIPTION		SB64	SB60 SB62	SB58	SB56	SB36
MOTION TRANSMISSION						
Engine fan pump	Manufacturer Displacement (cm ³ /rev.) Speed (rpm) empty Capacity (l/min.) output 0.9		SAUER 14/17* 2325 (93% of engine speed) 29/35*			
Fan motor	Manufacturer Displacement (cm ³ /rev.)		SAUER (11) o 12.2			
Variable displacement hydraulic pump (set for an inching speed max. 24.5 km/h)	Manufacturer Type Displacement (cm ³ /rev.) Wheels 13.6 R 24 Wheels 420 / 70 R 24	SAUER 90R100	SAUER from 0 to 94.4 (1) from 0 to 89.2	from 0 to 90 (1) from 0 to 85		
Boosting pump	Displacement (cm ³ /rev.) Capacity (l/min.) output 0.9	26 57.3		26 (60) 57.8		
Front wheel motor	Manufacturer Type Displacement (cm ³ /rev.)		POCLAIN MS 08 934			
Rear wheel motor	Manufacturer Type Displacement (cm ³ /rev.)		POCLAIN MSE 18 2500 (1406/1084)			
Max. speed (km/h) on road			(18 km/h) 24.5 km/h (1)			
Max. speed (km/h) on field			11			
Hydraulic oil	Total capacity Tank		180 65			
Type			OLIO FIAT Hydraulcar HVI 46 or (2) NEW HOLLAND: Hydrosystem 46HV Idraulicar BS 46 Biosynthetic			
Extractor and conveyor pump	Manufacturer Displacement (cm ³ /rev.) Speed rpm empty Capacity (l/min) output 0.9	VICKERS "Load sensing" from 0 to 41/45* 2500 (see engine rpm) 92.2/101.2*				
Shaker/hopper * pump	Manufacturer Displacement (cm ³ /rev.) Speed rpm empty Capacity (l/min) output 0.9	SAUER ou BARNES* 22/19* 2500 (see engine rpm) 49.5/42.75 *				
Steering/lifting * pump	Manufacturer Displacement (cm ³ /rev.) Speed rpm empty Capacity (l/min) output 0.9	SAUER 14/10.8 /14 * 2325 (93% of engine speed) 32/22/32 *				
STEERING		HYDROSTATIC				
Type	production 95 production 96 ↳	DANFOSS OSPC 125 EATON QAMP 145 cm ³ /rev.				

(1) depending on tyres and countries

(2) see SB no. 191.201 as for the standard

* see application number at the "Hydraulic System" chapter

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Section A

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COMMERCIAL DESCRIPTION		SB64	SB60 SB62	SB58	SB56	SB36
BRAKING						
Service brake		by hydrostatic transmission				
Parking brake (on both rear wheels)		by two pedals linked with a lever				
SLOPE ADJUSTMENT		30%				
PLATFORM CAB						
Conditioned and heated cab		*	Option	*	Option	
Activated charcoal filter		Option				
Board computer		*	*	*	*	*
De luxe seat		*	*	*	*	*
Pneumatic seat		*	Option			
Multi-purpose lever		*	*	*	*	*
Climatization compressor	Manufacturer/Model Gas R 134 a (g) Oil SP 20 or SK 20 (cm ³)	Sanden U 4643 1900 FIAT LUBRIFICANTI LBAR 134 Add 125 g				
	Manufacturer Gas R 134a (g) Oil SP 20 or SK 20 g Speed (rpm)	Seiko 121 DS 3 1900 (2) 125 (3) 2500 (1)				
LIGHTING AND WARNING LIGHTS						
High/low beams		2				
Front position lights		2				
Rear position lights		2				
Direction indicators	Front Rear Side	2 2 2				
Brake light		2				
Number plate light		1				
Reflector	Rear	2				
Revolving beacon	w/cab	2				
	w/out cab	1				
Supply voltage		12 V				

* = standard

** = without locking starting from series – 628040 – 627007

(1) Instead of 3300 rpm starting from 629051, 628050.

(2) Instead of 2100 rpm

(3) To be added without emptying the compressor

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COMMERCIAL DESCRIPTION	SB64	SB 60 SB62	SB58	SB56	SB36				
HARVESTING EQUIPMENT									
HARVESTING HEADER									
Type	Tilting, self-aligning								
System	Shaking S.D.C.								
Shaker number	14 supplied								
Straight/bent control lever	13/1								
Inching	Engine manufacturer	EATON							
	Volume (cm ³ /rev.)	46							
Width position	3								
Clearance under frame (mm)	from 2000 to 2600								
Grape harvesting total height (mm)	1250								
HARVESTING/TRANSPORT									
Noria system:	Buckets per chain	62							
	Synchronised	in field speed							
Elastic stock guide width: (mm) (1)		from 195 to 265			from 165 to 235				
Tightness length (mm)	2100								
Harvesting min. height (mm)	150								
Inching	Engine manufacturer	EATON							
	Displacement (cm ³ /rev.)	243.9/500 (2)							
Conveyors	Width (mm)	600							
	Speed (rpm) max.	about 750							
	Reverse	*							
Only inching	Engine manufacturer	EATON							
	Displacement (cm ³ /rev.)	31.6							
CLEANING									
2 upper extractors with removable stalk-choppers	Diameter (mm) Inching Engine manufacturer Displacement (cm ³ /rev.)	460 hydraulic SAUER 11							
2 lower extractors with 2 independent stalk-choppers	Diameter (mm) Inching Engine manufacturer Displacement (cm ³ /rev.) Inching Engine manufacturer Displacement (cm ³ /rev.) Rotation direction	430 Hydr. SAUER 6/ (8.4) Hydr. EATON 8.2 reverse to the wheels	Option	430 Hydr. SAUER 6/ (8.4) Hydr. EATON 8.2 reverse to the wheels	Option Option NO NO				
HOPPERS									
Capacity	Standard Other version	2600 3200		2100 2600 3200	2100 2600				
Electrically controlled distribution auger	Control independent from the harvesting equipment								

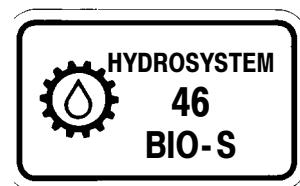
(1)According to the bujet type

(2)See application nmber in the chapter of the Hydraulic system

CAPACITIES

LUBRICANTS AND LIQUIDS

Part to be filled	Quantity dm³ (litres)	Suggested product	Corresponding International Classification
Self-propelled greasing points		Grease AMBRA GR 9	Lithium-calcium grease con consistency NLGI 2
Harvester greasing points		GREASE	
Noria control housing		Food Type	re. 62777339 24 cartidges
Slope indication pendulum greasing	spraying	ELECTROLUBE 2Gx	1 spray bottle Re. 920 018 957
Engine sump and filter (I) 6-cylinder engine 4-cylinder engine	17 11	Oil AMBRA SUPER GLOD 15 W - 40	SAE 15W40 CCMC-D4 API CF- 4/SG MIL-L-2104 E
Tank	65	Oil HYDROSYSTEM 46 HV	ISO VG 46
Tank *	65	Oil HYDROSYSTEM 46 BIO-S	ISO VG 46 DIN 51524 - part 2 HV 46
Cooling system	2	AMBRA AGRIFLU (50%)+ Clean water (50%)	



* machines with sign
HYDROSYSTEM
46 BIO-S
on the tank.

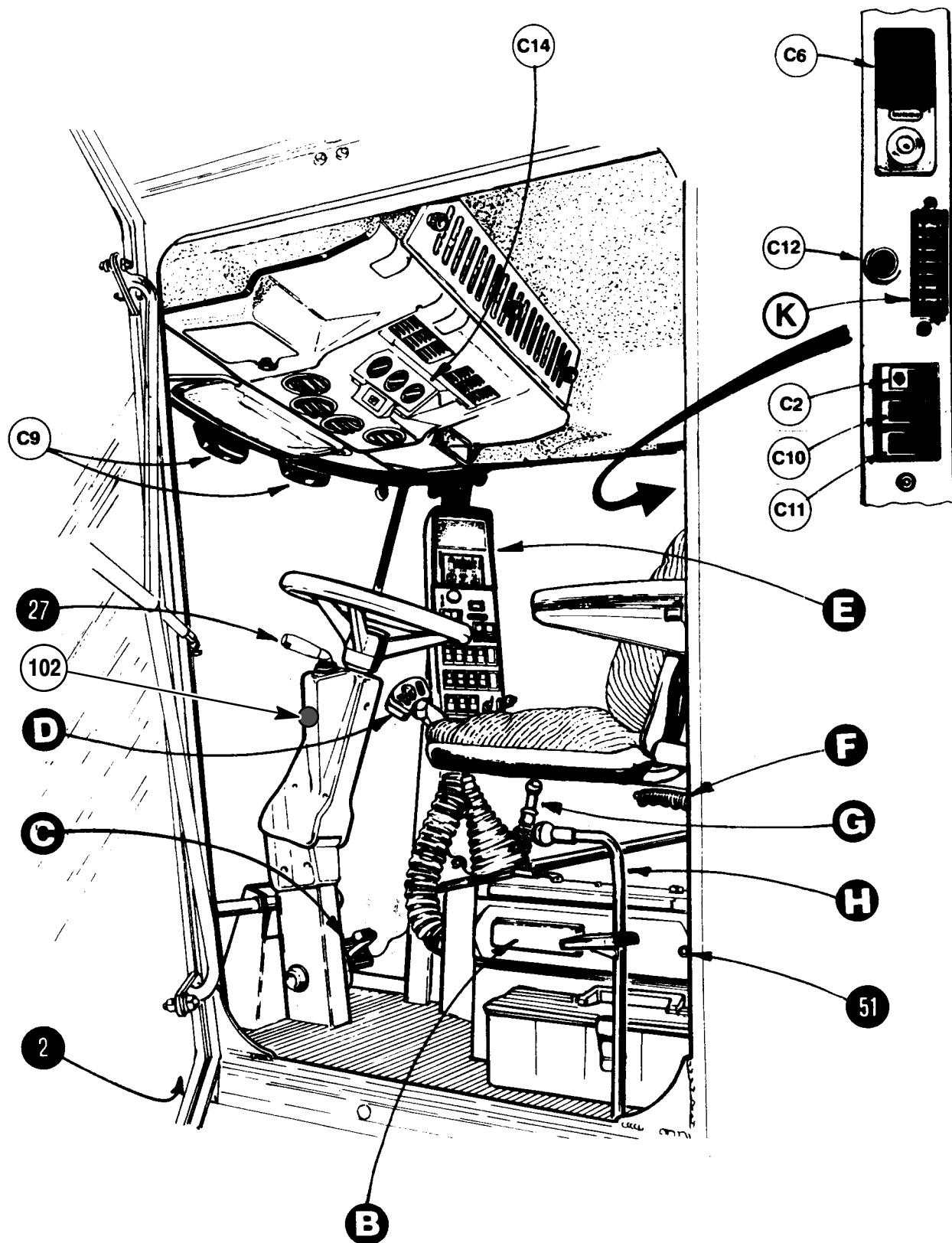
BASIC SUPPLY

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CONTROLS AND INSTRUMENTS

CONTROLS AND INSTRUMENTS

R4-01/01



CONTROLS AND INSTRUMENTS

Section B

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DRIVER'S PLATFORM

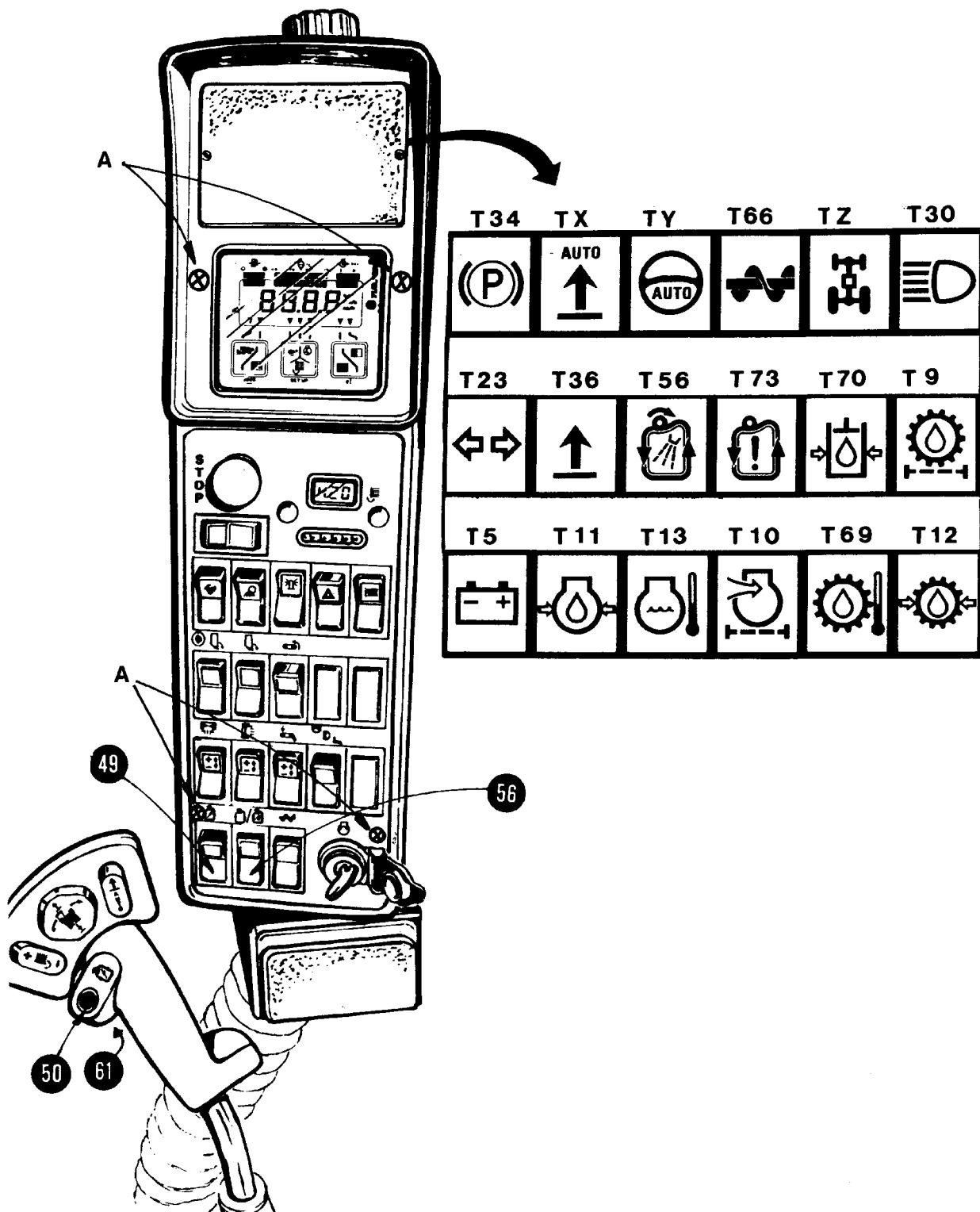
- B** Fuse box (w/ 14 fuses from **B1** to **B14**) for warning signals, lighting, container augers and pneumatic seat
- C** Parking brake pedals (independent or linked together)
- D** Multi-purpose control inching lever
- E** Control cluster
- F**
 - Parking brake pedal locking lever: lower both pedals and lock them means of the lever
 - Parking brake lever from the series 629A41-628040-627007.
- G** Thermal engine accelerator lever
- H** Ladder and foot board folding and unfolding control lever
- 2** Battery cut-off device
- 27**
 - Control button for:
 - low beams
 - direction indicators
 - horn
- 51** Container auger disjunctor restore buttons
- 102** Simultaneous electrical control of rear brakes

CAB

- C2** Windscreen wiper and washer switch
- C6** Inner roof light
- C9** Cab front light
- C10-C11** Cab front light switch
- C12** Cigarette lighter
- C14** BORLETTI air conditioning assembly
- K** use box (8 fuses from **K1** a **K8**)

NOTE: *the marks on the fuses are the same as given on the electric schemes*

CONTROLS AND INSTRUMENTS



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WARNING LIGHT CONTROL BOX

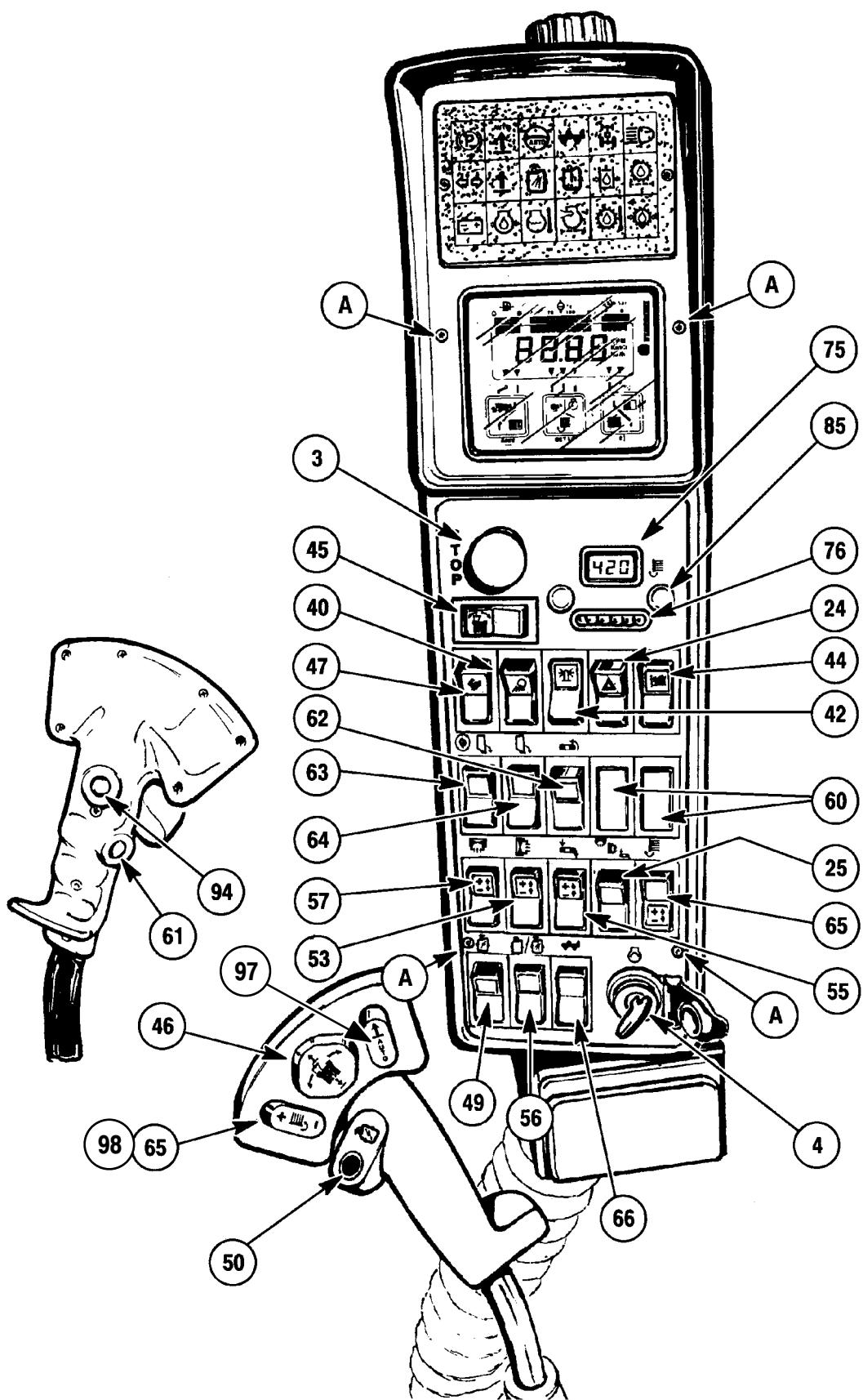
- T5** Battery charge red warning light controlled by terminal D+ of alternator **Re. 5**.
- T9** Booster take-in filter clogging yellow warning light, controlled by manocontact **Re.9** set at 0.35 bar.
(1) Yellow warning light for booster pressure filter clogging, controlled by the manocontact **Re.119** calibrated in the low point 17b.
- T10** Air filter clogging yellow warning light controlled by manocontact **Re. 10**.
Starting from series 627010, this warning light is not used anymore.
- T11** Thermal engine oil pressure red warning light controlled by manocontact **Re.11**.
- T12** Booster pressure red warning light by manocontact **Re. 12** set at 17 bar.
- T13** Thermal engine water temperature red warning light controlled by thermal contact **Re. 13**.
Starting from series 627010, this warning light is not used anymore.
- T23** Flashing light green warning light controlled by central unit **Re. 23**.
- T30** Law bean **Re. 30** blue warning light.
- T34** Parking braking red warning light controlled by 2 manocontacts on the braking action reduction hydraulic pressure – calibrated at 17 bat, it lights up when the brakes are engaged by the pedals, with or without locking lever.
(1) Pilot light for parking brake only, controlled by manocontact **Re. 34**.
(2) This pilot light switches on when the right rear wheel is braked by the manocontact **Re. 34**
- T36** Harvesting equipment height red warning light controlled by sensors **Re. 36**.
- T56** Noria operation in washing position yellow warning light controlled by switch **Re. 56**.
- T66** Container auger rotation signalising green warning light controlled by container auger switch **Re. 66**.
- T69** 90 degree hydraulic oil temperature red warning light controlled by manocontact **Re. 69**.
- T70** Free.
- T73** Operating noria red warning light, controlled by central unit **Re. 73**:
. it flashes when power is given to switch **Re. 49**
. it lights up when power is given to switch **Re. 56**
. it switches off when switches **Re. 50** and **Re. 61** start operating.

NOTE: *this warning light remains on every time a necessary function for harvesting is not performed properly*

- TX** Free
- TY** Free
- TZ** Free
- A** To open the control box, remove these four screws only.

NOTE:

1. When contact is given, warning lights **T5**, **T9**, **T11**, **T12** and **T34** must light up; **T36** must also light up when the harvesting equipment is lowered on the ground.
 2. **Reference number of the warning lights** are given on the electric scheme, except one special warning light is indicated on the scheme near the element it controls.
- (1) Starting from series 629A41 – 628040 and 627007
- (2) Starting from series 629062, 628058 and 627009



To open the panel, just loosen the 4 screws Re. A.

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CONTROL PANEL

The references are the same as given on electric scheme.

3. "Consequent stop" button, it stops leaning and thermal engine (it resets all functions except the warning lights and the rotary light).
4. Starting contactor (possible only when the inching lever is on zero).
24. "Warning" switch (ON-OFF).
25. Display selection switch (ON-ON-ON) (Upper extractor, lower extractor, conveyor).
40. Operation light switch (OFF-ON-ON).
42. Rotary light switch (ON-OFF).
44. Front/rear level adjusting switch (MOM-OFF-MOM); it does not work if the "Caution" switch is not operating.
45. Shaking switch for leaning control (MOM-OFF-MOM)
This control resets the other input coming from the inching lever.
46. Lifting and leaning contactor.
47. Road/field speed switch (ON-OFF). Road speed can be selected only with forward gears.
49. Harvesting equipment setting under tension switch (ON-OFF).
50. Harvesting equipment Go/Stop impulse switch (MOM).
 - a) **Run:** (only if the battery charge indicator is off)
 - a) - Extractors up and down
 - b) - Conveyors and norias after 3 7 secs
 - Shaking starts only by means of switch **Re. 61**. It does not work if the charge warning light is on.

NOTE: *norias start operating only if switch **Re. 56** is in automatic position. Then, on the row end:*

- b) Stop:** Extractors up, down, conveyors, shaking and norias
53. Lower shaker speed adjusting switch (MOM-OFF-MOM).
55. Conveyor speed adjusting switch (MOM-OFF-MOM).
56. Noria 3-position (automatic/stop/washing) switch (ON-OFF-ON).
The washing position works only when the inching lever is in neutral.
57. Upper extractor speed adjusting switch (MOM-OFF-MOM).
60. Free for multipurpose switches. They are pre-wired starting from the machines SB 36 series 01, SB 56/58 series 06, SB 62/64 series 05.
61. Shaking Start/Stop impulse button.
62. Reverser switch for belt rotation, with two positions on the first series (ON-MOM), then with three positions (ON-OFF-MOM) and with three positions (MOM-ON-MOM). See use in D.19.
63. Left container tilting switch (MOM-OFF-MOM).
64. Right container tilting switch (MOM-OFF-MOM).
65. Shaking frequency adjusting contactor (MOM-OFF-MOM) on the inching lever.
(1) Shaking frequency adjusting contactor (MOM-OFF-MOM) placed on the board, that switches on if the shaking equipment is operating (the inching lever contactor becomes multipurpose).
66. Auger and container start switch (MOM-OFF-MOM)
Container augers cannot rotate if the harvesting equipment is not powered.
75. Shaking frequency display.
76. Level indication in slope through 3 LEDs each side. When the third LED **Re. EV18** lights up, the buzzer operates and the hydraulic bar of the front struts is locked if, at the same time, the machine has a slope corresponding at least to 20% forward.
85. Driving indication lights, installed starting from SB 62/64 629-20, SB 56/58 628021, SB 36 627004...
 - 94 (1) Braking enabling switch.
 - 97 Free for multipurpose.
 - 98 (1) switch free for multipurpose.

NOTE: (1) starting from series 629A41 – 628040 – 627007.

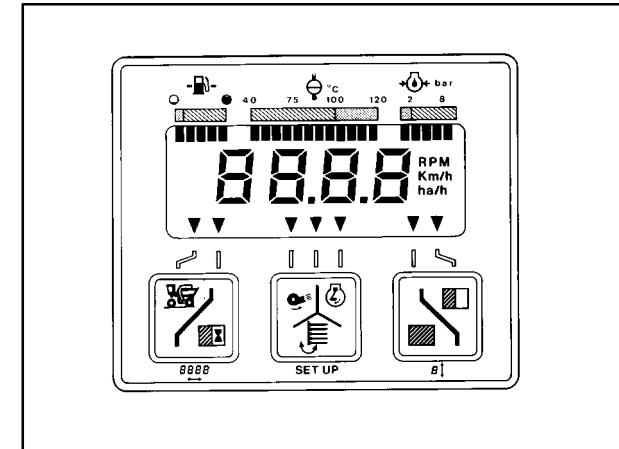
CONTROLS AND INSTRUMENTS

ONBOARD COMPUTER

When the computer is switched on, the following displays will appear in succession:

Self test

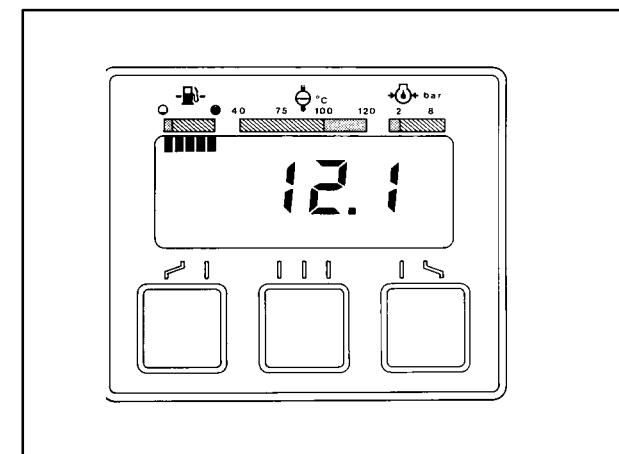
All grafic segments displayed for 6 seconds



1

Battery voltage

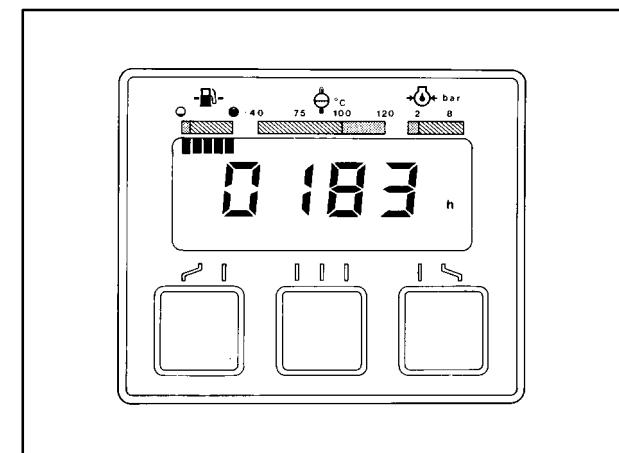
Displayed for 6 seconds.



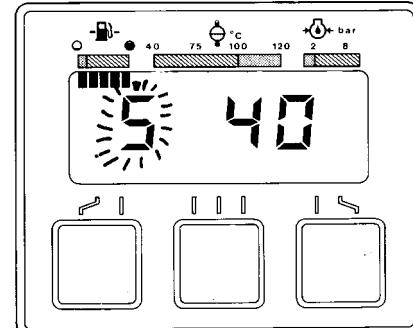
2

Engine operating hours

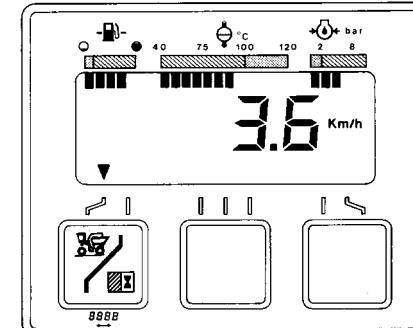
Displayed for 6 seconds.



3

Servicing reminders**S** = service**40** = number of operating hours since the start of this maintenance cycle.

4

Forward speed (km/h)

5