

SERVICE MANUAL

VN2080 Grape Harvesters

Print No. 84205118A



REPAIR MANUAL

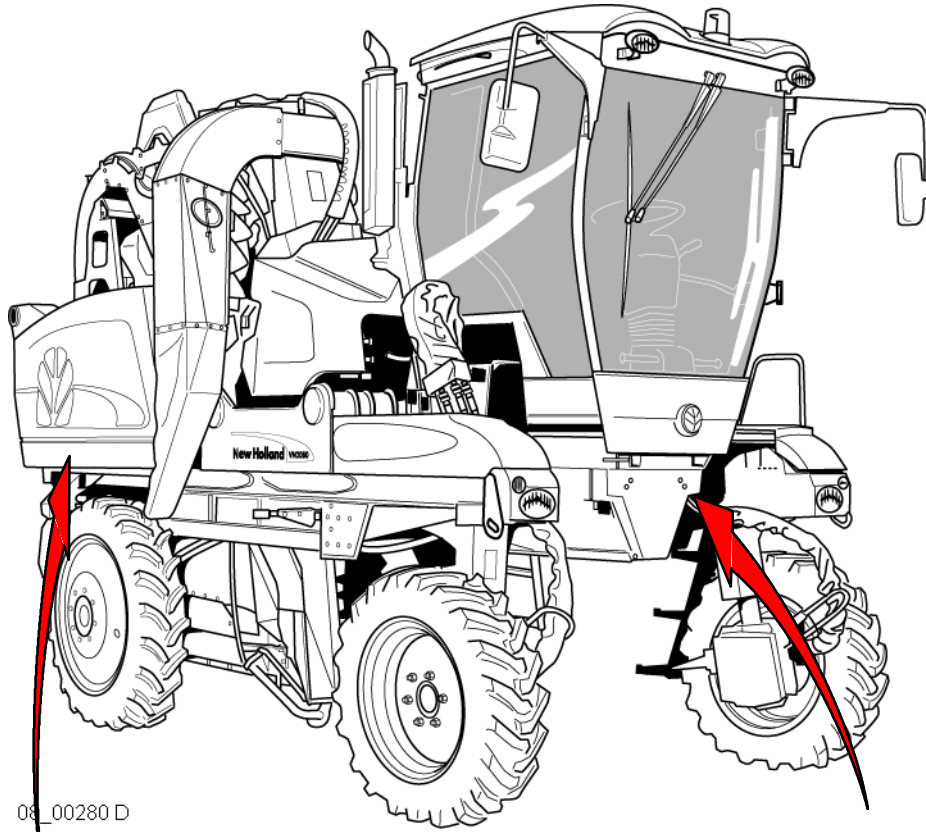
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SPECIFICATIONS

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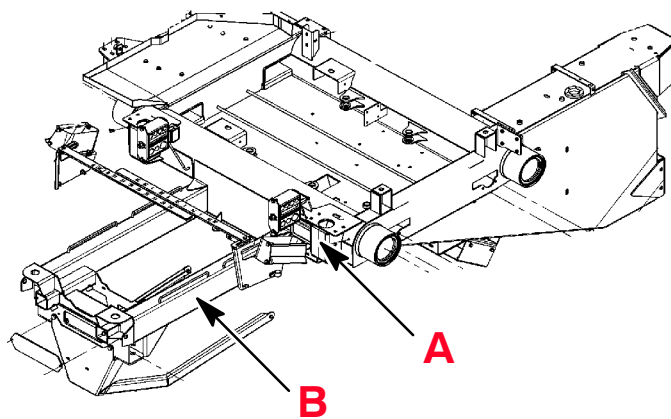
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CNH France S.A. Etablissement de COEX 85220 COEX (FRANCE)			
Type/Typo		Année/Anno	
Typ		Year/Jahr	
648		2008	
N° Série/N° Telaio		648 003 001	
Serial No/Fahrz			

		CNH France S.A. Etablissement de COEX 85220 COEX (FRANCE)			
Type/Typo	640	N° Homologat./N° Omologac.		129	
Approval No		N° Série/N° Telaio		640 003 001	
Serial No/Fahrz		P.T.A. / Masse Max. Approuvée		9300 kg	
Total Adm. Mass./Zul. Ges. ges.		Chgt. Boîtes / Zul. 1 ^{er} Ax. Co.		4200 kg	
AG. Front Load/Zul. Ach. Vorn		Chgt. Boîtes / Zul. 2 ^e Ax. Ar.		5100 kg	
P.T.R.A.		Chgt. Boîtes / Zul. Ach. Hint.		12800 kg	
RECEPTION DESINFORMAZIONE		Date		P.V. No	
PAVIA DE L'ORIGINE					
				m ³	



Model	Type	Serial no.	Machine number
VN 2080	640	001	001
Harvesting equipment VN2080	648	001	001

A = manufacturer's label

B = stamped frame number

REPAIR MANUAL

VN 2080: (F) 84205119A

VN 2080: (I) 84205117A

VN 2080: (Eng) 84205118A

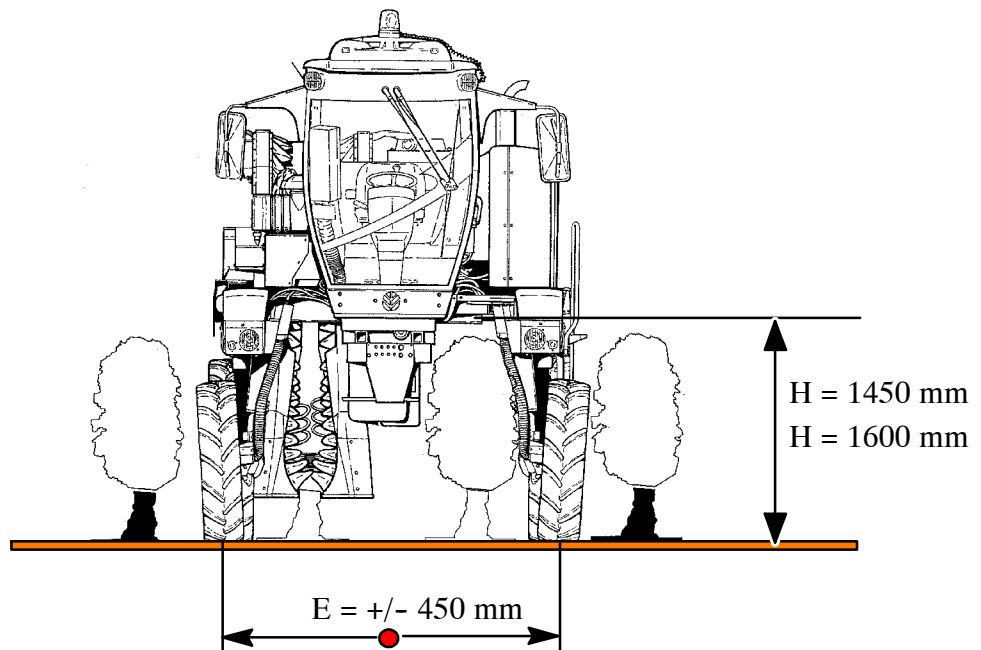
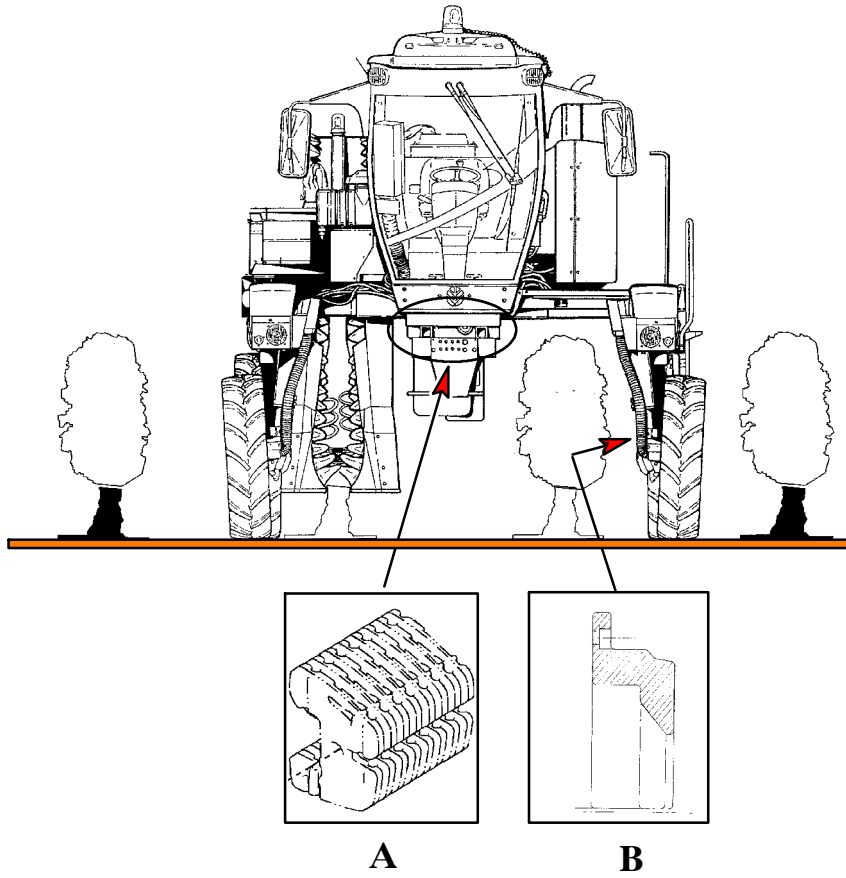
OPERATOR'S MANUAL

VN 2080: (F) 84189493

VN 2080: (I) 84189490

VN 2080: (Eng) 84189492

VN 2080: (Spa) 84189494



SELF-PROPELLED MACHINE

FRAME:

VN 2080 – for vineyard gauge ranging between 0.90 and 1.50 m

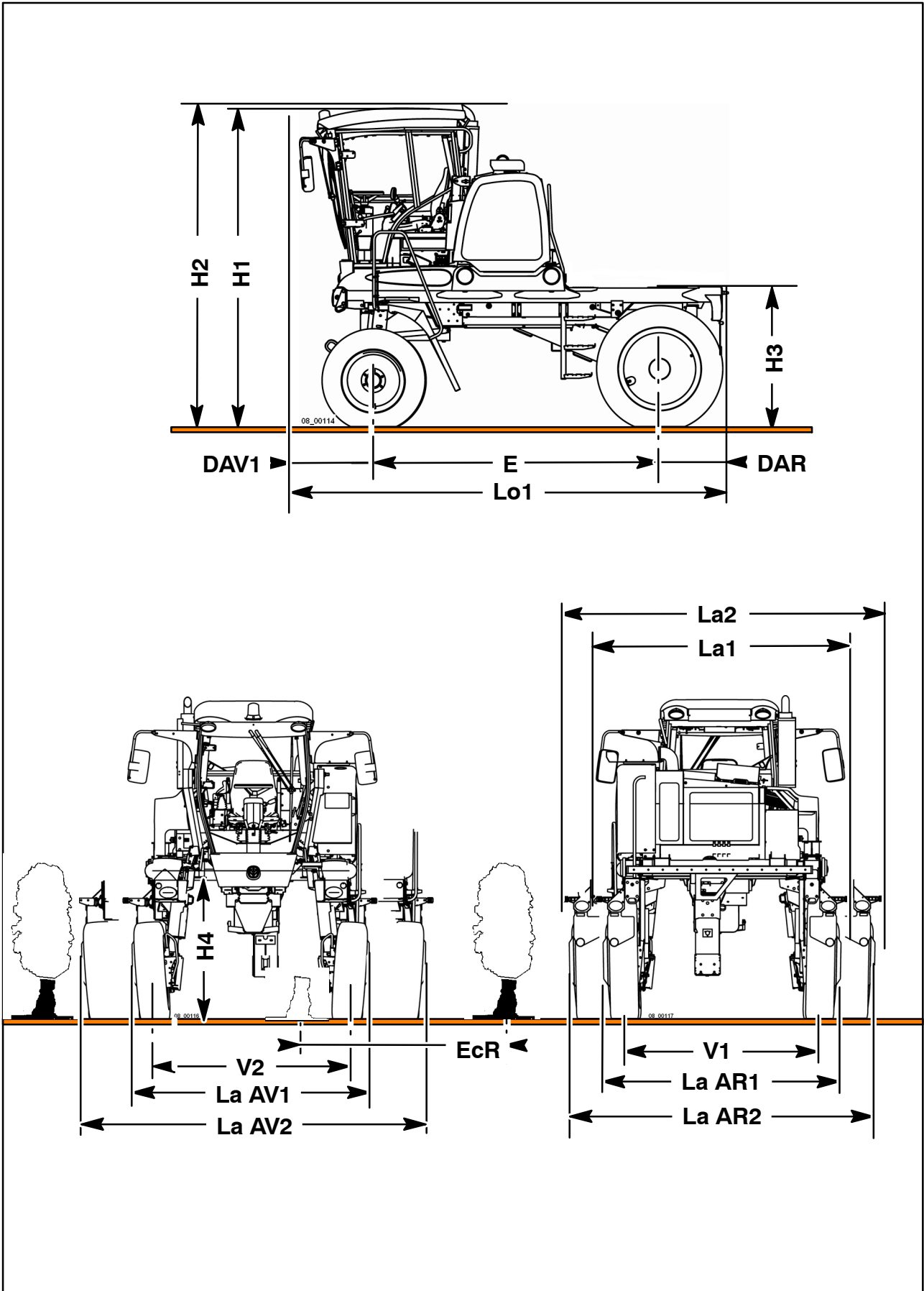
- Square tubular frame, open at the back, for a fast disassembly of the harvesting header.
 - (E) Gauge, 450 mm per side, adjustable from the operator's seat
 - (H) Frame clearance: 1.45 m or 1.60 m
- No sloping correction possibility
- Max. allowed sloping: 20%
- The two front legs for wheel support are sliding and pivoting. They ensure:
 - steering in forward range, with steering angle of 80/90°
 - the hydraulic bar, with a 150-mm swinging.
- Installation of ballasts to be used on sloped grounds (see following table)
 - (A) Front support that can hold 8 ballasts, (Re.: 713185005)
 - (B) kit of 2 half-ballasts in the rear left wheel (Re.: 713022055)

**UTILISATION LIMIT IN CASE OF TILTING AND ON SLOPES
TRACTOR + HARVESTING EQUIPMENT**

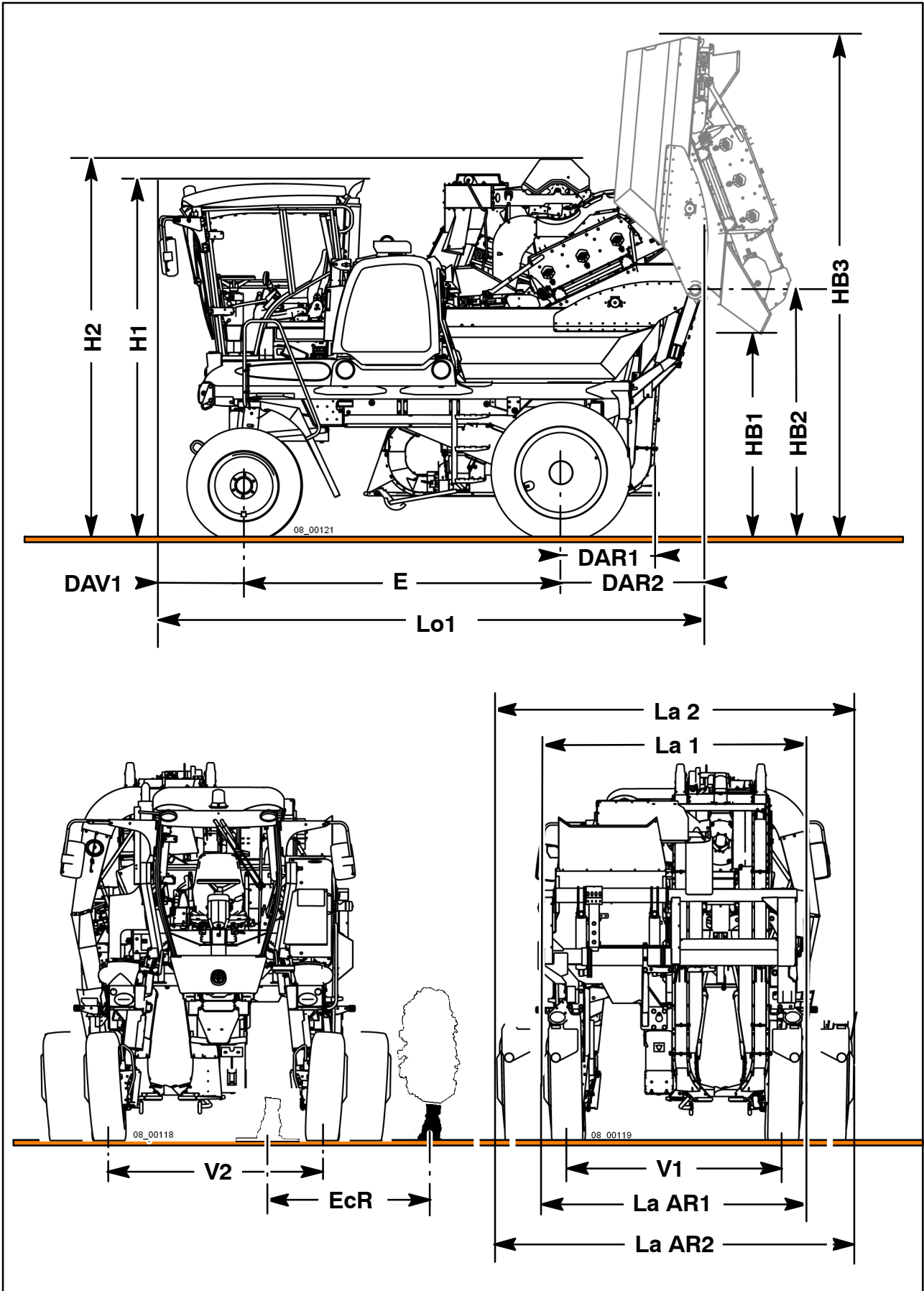
Sloping	Machine gauge	Options	Front wheel liquid ballasting	Kit of 8 ballasts - 713186005	Rear left ballast 713022055	
					Sloping from 0 to 9%	Sloping from 10 to 20%
from 0 to 9%	lower than 1.30 m	Without destemmers	○	○	○	●
		With destemmers	○	○	○	●
	higher than 1.30 m	Without destemmers	○	○	○	●
		With destemmers	○	○	○	●
from 10 to 19%	lower than 1.30 m	Without destemmers	○	○	○	●
		With destemmers	●	○	○	●
	higher than 1.30 m	Without destemmers	○	○	○	●
		With destemmers	●	●	○	●
from 20 to 39%	lower than 1.30 m	Without destemmers	●	○	○	●
		With destemmers	●	●	○	●
	higher than 1.30 m	Without destemmers	●	○	●	●
		With destemmers	●	●	●	●
from 40 to 43%	lower than 1.30 m	Without destemmers	●	●	●	●
		With destemmers	Exceeding the machine capacity			
	higher than 1.30 m	Without destemmers	●	●	●	●
		With destemmers	Exceeding the machine capacity			

Key:

- Useless ○
- Compulsory ●



COMMERCIAL DESCRIPTION		VN2080(1)	VN2080(2)
Only self-propelled machine - axle clearance: (1) = 1450; (2) = 1600			
Code	DIMENSIONS (mm)		
H1	Height at the revolving beacon	3310	3460
H2	Height at the cab roof	3350	3500
H3	Height at the longitudinal members	1440	1440
H4	Axle clearance	1450	1600
EcR	For vineyard gauge	from 0.90 to 1.50 m	
La1	Max. width (min. position) Only self-propelled machine	2560	
La2	Max. width (max. position) Only self-propelled machine	3460	
V1	Extensible track 270 / 95 R32 tyres 420 / 85 R24 tyres	from 1990 to 2890 from 2140 to 3040	
V2	Extensible track front	from 2000 to 2900	
La AR1	Outside width at the rear wheels La AR Tyres 270 / 95 R32 (V1 + Gb) La AR Tyres 270 / 95 R32 (V1 + Gb + guards) La AR Tyres 420 / 85 R24 (V1 + Gb)	1990 + 293 = 2283 1990 + 293 + 127 = 2410 2140 + 440 = 2580	
La AR2	Outside width at the rear wheels La AR Tyres 270 / 95 R32 (V1 + Gb) La AR Tyres 270 / 95 R32 (V1 + Gb + guards) La AR Tyres 420 / 85 R24 (V1 + Gb)	2890 + 293 = 3183 2890 + 293 + 127 = 3310 3040 + 440 = 3480	
La AV1	Outside width at the front wheels, min. position (V2 + Gb = La AV) (V2 at ground level)	Tyres 11.2-24 T35 12PR TT	1950 + 305 = 2255
La AV2	Outside width at the front wheels, max. position (V2 + Gb = La AV) (V2 at ground level)	Tyres 11.2-24 T35 12PR TT	2850 + 305 = 3155
Lo 1	Overall length	4390	
E	Pitch	2960	
DAV1	Front offset	780	
DAR	Rear offset	270 / 95 R32 tyres 420 / 85 R24 tyres	650 650



COMMERCIAL DESCRIPTION		VN2080(1)	VN2080(2)
Self-propelled machine and harvesting equipment axle clearance: (1) = 1450; (2) = 1600			
Code	DIMENSIONS (mm)		
H1	Height at the revolving beacon	3350	3500
H2	Height at the cab roof	3540	3540
H4	Clearance under harvesting tunnel (on the ground)	1450	1600
La1	Max. width (min. position) Only self-propelled machine	2620	
La2	Max. width (max. position) Only self-propelled machine	3460	
ER	For vineyard gauge	from 0.90 to 1.50 m	
V1	Extensible track 270 / 95 R32 tyres 420 / 85 R24 tyres	from 2050 to 2890 from 2200 to 3040	
V2	Extensible track front	from 2060 to 2900	
La AR1	Outside width at the rear wheels La AR Tyres 270 / 95 R32 (V1 + Gb) La AR Tyres 270 / 95 R32 (V1 + Gb + guards) La AR Tyres 420 / 85 R24 (V1 + Gb)	2050 + 293 = 2343 2050 + 293 + 127 = 2470 2200 + 440 = 2640	
La AR2	Outside width at the rear wheels La AR Tyres 270 / 95 R32 (V1 + Gb) La AR Tyres 270 / 95 R32 (V1 + Gb + guards) La AR Tyres 420 / 85 R24 (V1 + Gb)	2890 + 293 = 3183 2890 + 293 + 127 = 3310 3040 + 440 = 3480	
La AV1	Outside width at the front wheels, min. position (V2 + Gb = La AV) (V2 at ground level)	Tyres 11.2 R24 Tyres 11.2-24 T35 12PR TT	22150 + 284 = 2404 2120 + 305 = 2425
La AV2	Outside width at the front wheels, max. position (V2 + Gb = La AV) (V2 at ground level)	Tyres 11.2 R24 Tyres 11.2-24 T35 12PR TT	2900 + 284 = 3184 2900 + 305 = 3205
Lo 1	Overall length	5390	
E	Pitch	2960	
DAV1	Front offset	810	
DAR1	Offset behind the harvesting equipment	920	
DAR2	Offset behind the hoppers	1620	
HB1	Clearance under tilted up hopper	1925	
HB2	Hopper tilting axle height	2310	
HB3	Max. height with lifted hopper	4687	

COMMERCIAL DESCRIPTION		VN2080(1)	VN2080(2)
Self-propelled machine axle clearance: (1) = 1450; (2) = 1600			
WEIGHTS			
Total authorised loaded weight on roads (kg)		9000	
Max. total allowed load on front axle (kg)		4218	
Max. total allowed load on rear axle (kg)		5106	
Unladen weight, self-propelled machine only: xxxx kg	Total	5380	5440
	Front axle	2920	2920
	Rear axle	2460	2520
Unladen weight, self-propelled machine + harvesting equipment without destemer: xxxx kg	Total	7500	7560
	Front axle	2900	2900
	Rear axle	4600	4660
Unladen weight, self-propelled machine + harvesting equipment + destemer: xxxx kg	Total	7960	8020
	Front axle	3000	3000
	Rear axle	4960	5020

THERMAL ENGINE	
Model	F4GE9684B*J601
Make	CNH
Type	Diesel
Cycle	alternated
Intake system	
- boost	Turbo
- cooler	air/air
Stroke number	4
Cylinder number and position	6, in line
Piston diameter/stroke (mm)	104/132
Total displacement (cm ³)	6728
Gross power (ISO TR 14396) kW (CV)	129 (175)
Maximum rated speed (rpm)	2300

FEEDING / EXHAUST		
Fuel tank	Used fuel Capacity (litres)	Diesel oil 240
Engine feeding system		electric gas oil pump serie 004→
Dry-type air cleaner		two-stage filtration
Engine cooling	Water capacity (l) Fan	blowing

COMMERCIAL DESCRIPTION	VN2080(1)	VN2080(2)
Self-propelled machine axle clearance: (1) = 1450; (2) = 1600		
DRIVE		
Variable delivery hydraulic pump (cm ³ /rev.)	140	
Adjusted electric control	1 radar and 1 sensor	
Front wheel motor (cm ³ /rev.)	934	
Rear wheel motor (cm ³ /rev.)	1406 and 1170	
Max. speed (km/h) in road position (2WD)	25	
Driving in road speed	By front motors and Twin-Lock between 0 and 12 km/h	
Max. speed (km/h) in field position (4WD)	14	
Front/rear antiskid	Automatic (Twin-Lock)	
Right/left antiskid	Capacity divider operated by the left pedal in the operator's seat	
Front drive reduction	Operated by the left pedal and by a switch in the operator's seat	
Double hydraulic pump 'SAUER': speed	1,02 x speed	
- for steering and service (displacement cm ³ /rev.)	14.4	
- for shaking (displacement cm ³ /rev.)	19.2	
"Rexroth" hydraulic pump for extractors / conveyors (displacement cm ³ /rev.)	from 0 to 45	
Hydraulic oil - Type - Reservoir total capacity	AMBRA Hydrosystem 68 77 litres	

STEERING	
Type	hydrostatic
Steering diameter (m)	7.90

BRAKING SYSTEM	
Service brake (on the four wheels)	Ensured by the hydrostatic drive
Multidisk parking brake (acting on the two rear wheels)	Guaranteed by the lever on the operator's seat and series 004→ by the neutral return of the inching lever + switch of the steering column
Front brakes	Without
Right/left independent brakes (field speed)	Ensured by the right pedal, synchronized with: - the steering in max. steering position

COMMERCIAL DESCRIPTION	VN2080(1)	VN2080(2)
Self-propelled machine axle clearance: (1) = 1450; (2) = 1600		
SLOPING AND TILTING		
Max. allowed sloping during work with destemmer, up to:	40% *	
Max. allowed sloping during work without destemmer, up to:	43% *	
Sloping indicator	By warning lights on the operator's seat	
Max. allowed tilt during work	20%	
OPERATOR'S PLATFORM		
Heated and A/C cab	yes	
Pneumatic seat (with optional seat belt)	yes	
Multi Function Handle	yes	
Dashboard	yes	
Board computer	yes	
Sound level in the operator's seat (dB(A))		
Electrically-operated rear view mirrors	2	
Rear viewing: colour camera	2	
ELECTRIC CIRCUIT		
Supply voltage (battery)	12 V / 180 Ah	
Alternator	120 A	
Switch	on negative	
LIGHTING AND WARNING LIGHTS		
High/low beams	2	
Work lights	2	
at the front of the cab	2	
behind the cab	2	
in the front right tunnel	1	
at the back of the harvesting equipment	1	
Front parking lights	2	
Rear parking lights	2	
Direction indicators:	Front	2
	Rear	2
Stop lights	2	
License plate light	1	
Reflex reflector:	Rear	2
Revolving flash light	2	

- * = with ballasting depending on the gauge (see table)

MULTIPURPOSE	
Front auxiliary hydraulic block as standard outfit. It supplies, in the corresponding multipurpose mode:	
- single-acting cylinders	4
or	
- double-acting cylinder	1

COMMERCIAL DESCRIPTION	VN2080(1)	VN2080(2)
Self-propelled machine axle clearance: (1) = 1450; (2) = 1600		

Grape harvester	
HARVESTING HEADER	Swinging, self-aligning
Servo-steering	Warning lights on the operator's seat

SHAKING	
Number of shakers	12 supplied
Motor drive (displacement cm ³ /rev.)	10.8 and reducer
Amplitude settings	not adjustable
Tunnel minimum clearance	1500
Useful harvesting height	550

RECEIVING / TRANSPORTATION		
Noria system: (BRAUD patent)	Number of buckets per chain Synchronized	54 in field speed
Stake-guide gauge:		150
Sealing length		1700
Minimum harvesting height		150
Drive: motor (displacement cm ³ /rev.)		395
Central conveyor	Belt width	250
	Drive: motor (displacement cm ³ /rev.)	31,6
	Sliding direction reversal	yes
Cross conveyor	Belt width	225
	Drive: motor (displacement cm ³ /rev.)	36
	Sliding direction reversal	yes

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