



Service Bulletin No.1013

MODEL	: T 2100 Series
TYPE	: Service information
MANUAL & SECTION	: Parts Manual: Section 002 - Introduction
DATE	: January 5 th , 1998
SUBJECT	: Parts Manual: Directions for Use
CONDITIONS	: Service information only

DESCRIPTION : This Service Bulletin is intended for service personnel and counter clerks. It explains the structure and use of the Van Hool Parts Manual with the aim to improve accuracy and speed when looking for parts and/or information.

Service Bulletins are issued to supplement or supersede information in the Van Hool manuals. Note Service Bulletin number, date and subject on the register at the end of the relevant chapter(s). File Service Bulletin separately for future reference.

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STRUCTURE AND USE OF THE VAN HOOL PARTS MANUAL

1. SECTIONS AND SUBSECTIONS

This manual contains three major parts. Every part is divided into sections and subsections, that each represent a specific group of spare parts or information.

Part 1: General information: Section 002: Table of contents
003: Alternative versions
004: Parts numerical cross-reference
005: Abbreviations

Part 2: Mechanical components: Section 61...: Engine/alternator
62...: Engine: accessories, fuel supply, cooling
63...: Clutch, transmission, tachometer, transmission shaft
64...: Suspension, axles
65...: Steering
67...: Air system

Part 3: Chassis/body parts: Section 71...: Chassis
72...: Body panels
73...: Doors, glass, bumpers
74...: Interior, sanitary installation
75...: Wiper and accessories
76...: Exterior: trim and accessories
77...: Heating, ventilation, air conditioning, roof hatches
78...: Electrical system

The section reference number is followed by one or more digits referring to subsections.

2. PAGE NUMBERS

The subdivision of the different sections leads to reference numbers with up to ten digits. These numbers are used as page numbers.


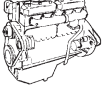



The page numbers are located on the right hand side at the bottom of the page.

The page numbers are numerically ordered, but some may not be used.

Some page numbers may be used several times, because a sub system contains more parts than can be listed on one page.

3. PAGE LAY-OUT

3a. Table of contents (Section 002)

	1	2	3	4			
	↓	↓	↓	↓			
	Spec			Benaming	Description	Denominación	
	003.010A 004.010A 005.010A			INLEIDING NUMERIEKE VERWIJZING AFKORTINGEN	INTRODUCTION NUMERICAL CROSS-REFERENCE ABBREVIATIONS	INTRODUCCION REENVIO NUMÉRICO ABREVIACIONES	
	6110 611009-0311 B 611009-0312 B 611009-0313 B 611009-0507 C			Motor Motor Motor Motor	Engine Engine Engine Engine	Motor Motor Motor Motor	
	6111 611109-2030 C			Motorblok Motorblok: toebehoren	Engine block Engine block: accessories	Bloque motor Bloque motor: accesorios	
	6117 611709-6045 B 611709-6046 C			Inlaat, uitlaat, drukvulling Drukvulling Drukvulling	Air intake, exhaust, turbo charging Turbo charging Turbo charging	Admisión, escape, sobrealimentación Sobrealimentación Sobrealimentación	
	INHOUDSTAFEL		INDICE				
	TABLE OF CONTENTS					002.010A	← 5

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Figure 1: Table of contents (sample)

1. Main section / parts group illustration
2. Main section and subsection reference numbers
3. Alternative versions
4. Description in different languages
5. Page number
6. Subject


Finding the Van Hool Part number through the table of contents

To find Van Hool part number:

- Go to table of contents (Section 002)
- Find parts group illustration in column ①
- Read main section number (four digits) in column ②
- Read description in column ④
- Find alternative versions code letter in column ③ if applicable (refer to Section 003 for code letter description)
- Find matching page number in column ②
- Go to page (drawing and information sheet)
- Read page subject and remarks in column "Spec" (refer to Section 005 and cross-reference list USA for description)
- Go to drawing and find part position number
- Go to part position number on accompanying information sheet
- Read quantity (see note in this Bulletin), Van Hool part number and description

3b. Alternative versions (Section 003)

①

NL	E	ES	
ALTERNATIEVE VERSIES: A: Geldig voor alle types B: Motor: CUMMINS C: Motor: DETROIT DIESEL D: Lengte: 40' E: Lengte: 45' F: SHELL G: Chassis MAT.ST. VIN 40000-40002 +VIN 43000-43002 H: Chassis MAT.IN. I: Versnellingsbak B500 J: Versnellingsbak B500R K: Aangedr. as EATON type 825950 L: Aangedr. as EATON type 825968 M: Aangedr. as EATON type 825973 N: Aangedr. as EATON type 825978	ALTERNATIVE VERSIONS: A: Valid for all vehicle types B: Engine: CUMMINS C: Engine: DETROIT DIESEL D: Length: 40' E: Length: 45' F: SHELL G: Chassis MAT.ST. VIN 40000-40002 +VIN 43000-43002 H: Chassis MAT.IN. I: Gear box type B500 J: Gear box type B500R K: Drive axle EATON type 825950 L: Drive axle EATON type 825968 M: Drive axle EATON type 825973 N: Drive axle EATON type 825978	VERSIONES ALTERNATIVAS: A: Válido para todos los modelos B: Motor: CUMMINS C: Motor: DETROIT DIESEL D: Longitud: 40' E: Longitud: 45' F: SHELL G: Chasis MAT.ST. VIN 40000-40002 +VIN 43000-43002 H: Chasis MAT.IN. I: Caja de cambios tipo B500 J: Caja de cambios tipo B500R K: Eje motor EATON tipo 825950 L: Eje motor EATON tipo 825968 M: Eje motor EATON tipo 825973 N: Eje motor EATON tipo 825978	
		INLEIDING	INTRODUCCION
		INTRODUCTION	003.1010

← ②

③

T04500

Figure 2: Introduction (sample)

1. Alternative vehicle specifications: code letter and description in different languages
2. Page number
3. Subject

3c. Parts numerical cross-reference list (Section 004)

①
↓

②
↓

③
↓

Ref.N°	E#	Pos.	Ref.N°	E#	Pos.	Ref.N°	E#	Pos.	Ref.N°	E#	Pos.	Ref.N°	E#	Pos.
10544973	783009-0136	15	10549368	645309-0068	5	10550842	747109-2015	30	10554842	760009-7008	2	10558101	642107-0113	6
10544982	783009-0136	35	10549529	645309-0053	4	10550843	747109-2015	29	10554868	747109-2015	19	10558101	642107-0113	6
10544997	783009-0136	4	10549529	645309-0068	4	10550871	747109-2015	15.1	10555593	642208-0051	13	10558105	642107-0123	6
10545514	645009-0113	1	10549535	645309-0053	3	10550874	747109-2015	15.2	10555593	642208-0009	6	10558107	642107-0123	14
10545514	645009-0113	4	10549839	731009-0090	7	10551041	622009-0211	17	10555598	642208-0051	13	10558108	642107-0123	5
10545595	732709-0146	38	10549922	740009-8013	4	10551393	747109-3002	2.2	10555598	642209-0009	7	10558109	642107-0123	5
10545739	631109-0138	1	10549922	740009-8014	5	10551393	747109-3003	2.2	10555616	641206-0185	8	10558110	642107-0123	5
10546390	790709-2017	1	10549924	740009-8013	6	10551394	747109-3002	2.1	10555618	641206-0185	7	10558111	642107-0123	5
10546552	641206-0185	10	10549924	740009-8014	7	10551394	747109-3003	2.1	10556104	671409-0063	13	10558112	642107-0123	5
10546672	651009-0266	6	10549925	740009-8013	5	10551437	642109-0031	1	10556276	634209-0221	9	10558114	642107-0113	14
10546672	651009-0269	6	10549925	740009-8014	6	10551437	642109-0035	1	10556276	634209-0224	9	10558114	642107-0113	14
10546678	651209-0213	1	10549942	747109-2015	31	10551437	642109-0036	1	10556276	782009-0507	5	10558119	642107-0123	3
10546678	651209-0214	1	10549971	641206-0185	1	10551439	642109-0031	2	10556474	671409-0063	13	10558121	642107-0123	13
10546678	651209-0215	1	10550039	741609-0004	16	10551439	642109-0035	2	10556541	641205-0213	1	10558124	642107-0123	9
10546678	651209-0216	1	10550038	741609-0005	16	10551439	642109-0036	2	10556541	641205-0221	1	10558128	642107-0123	1
10546678	651309-9992	1	10550128	627409-0101	23	10551622	747109-3002	1.2	10556543	641205-0213	2	10558129	642106-0034	6
10546800	753709-0007	17	10550133	627409-0101	10	10551622	747109-3003	1.2	10556543	641205-0221	2	10558131	642107-0123	4
10546803	782009-0506	8	10550166	671409-0058	13	10551625	747109-3002	1.1	10557028	782009-0602	7	10558132	642106-0086	4
10546942	782009-0506	4	10550456	782009-0506	4	10551625	747109-3003	1.1	10557065	753709-0007	18	10558132	642106-0089	4
10546945	782009-0506	4	10550457	651009-0256	1	10551643	611709-6045	1	10557155	785509-0194	1	10558132	642106-0090	4
10546949	782009-0602	6	10550457	651009-0256	1	10551643	611709-6046	1	10557158	785509-0194	2	10558132	642106-0091	4
10547136	785509-0194	5	10550458	782009-0506	4	10551655	747109-2015	3	10557159	785409-0009	10	10558133	642106-0034	8
10547269	741409-0019	25	10550459	782009-0506	4	10551659	747109-2015	2	10557176	747109-2015	25	10558135	642107-0113	4
10547284	782009-0602	8	10550462	782009-0506	4	10552010	622109-9865	1	10557397	611009-0312	1	10558137	642107-0113	8
10547327	753709-0007	14	10550463	782009-0506	4	10552683	733409-5057	17	10557398	611009-0313	1	10558137	642107-0113	8
10548031	651009-0266	23	10550502	747109-8004	8	10552713	642008-0105	13	10557791	782009-0505	14	10558138	642106-0034	1
10548045	621010-0190	15	10550503	747109-6004	8	10552804	673809-0002	4	10557873	715109-0045	15	10558142	642106-0089	6
10548927	772309-7002	22	10550508	747109-2015	17	10553368	732709-0146	39	10557874	715109-0045	16	10558142	642106-0090	6
10548930	772309-7002	18	10550542	747109-2015	18	10553653	733409-0019	5	10557875	715109-0045	14	10558142	642106-0091	6
10548932	772309-7002	14	10550555	627409-0101	13	10553815	733409-2031	3	10558092	642107-0113	1	10558146	642106-0104	1
10548933	772309-7002	16	10550571	627409-0101	12	10554186	760009-1010	12	10558093	642107-0113	2	10558153	642106-0089	7
10549136	747109-2016	2	10550572	627409-0101	12	10554274	747109-4006	5	10558094	642107-0113	12	10558153	642106-0090	7
10549160	747109-2016	3	10550607	747109-2015	13	10554278	747109-4006	3	10558095	642107-0113	11	10558153	642106-0091	7
10549314	645309-0053	2	10550735	747109-5003	2	10554450	785409-0009	8	10558096	642107-0113	3	10558341	733409-2031	6
10549316	645309-0053	1	10550770	713309-3015	1	10554612	733409-0968	3	10558096	642107-0113	3	10558303	747109-4006	9
10549316	645309-0053	1	10550771	713309-3015	2	10554841	732209-1006	27	10558097	642107-0123	11	10558913	760008-8001	3
10549316	645309-0088	1	10550779	627409-0101	8	10554842	732209-1007	33	10558095	642107-0113	7	10558916	651209-0213	7
10549368	645309-0053	5	10550780	627409-0101	11	10554842	760009-1010	13	10558099	642107-0113	7	10558916	651209-0214	7

NUMERIEKE VERWIJZING	REENVIO NUMÉRICO
NUMERICAL CROSS-REFERENCE	004.1010A

03/11/97 ← ④

004.1010A ← ⑤

T04501

⑥

Figure 3: Numerical cross-reference (sample)


1. Van Hool part number
2. Refer to page number...
3. Part position number on drawing
4. Edition date
5. Page number
6. Subject

Finding a Part using the Van Hool part number

To find part, drawing, location, quantity, description and specifications:

- Go to parts numerical cross-reference list (Section 004)
- Find Van Hool part number in column ①
- Read page number in column ②
- Read part position number on drawing in column ③
- Go to indicated page (drawing and information sheet)
- Find part position number on drawing
- Find part position number on accompanying information sheet
- Read quantity (see note in this Bulletin), description and specifications

3d. Abbreviations (Section 005)

Pos.	Q.	Ref. N°	Benaming	Description	Denominación	Spec.
		#...	Naar behoefte	As needed	Según necesidad	
		(B)	Blauw	Blue	Azul	
		(BR)	Bruin	Brown	Marrón	
		(GE)	Geel	Yellow	Amarillo	
		(GN)	Groen	Green	Verde	
		(GS)	Grijs	Grey	Gris	
		(O)	Oranje	Orange	Naranja	
		(R)	Rood	Red	Rojo	
		(RAL XX)	RAL kleur ref. XX	Color RAL ref. XX	Color RAL ref. XX	
		(RO)	Roze	Pink	Rosa	
		(T)	Transparant	Transparent	Transparente	
		(V)	Violet	Violet	Violeta	
		(W)	Wit	White	Blanco	
		(XX-YY)	Kleurcombinatie XX-YY	Combination of colours XX-YY	Combinación de colores XX-YY	
		(Z)	Zwart	Black	Negro	
		A	Ampère	Ampère	Amperio	
		ABS	Anti blokkeer systeem	Anti brake lock system	Sistema antibloqueo de ruedas	
		AC	Klimaatregeling	Interior climate control	Climatización	
		ASR	Anti doorslip systeem	Antiskid system	Sistema antipatinaje de ruedas	
		b.	Breedte	Width	Ancho	
		CH-XX→	Vanaf chassis nr. XX	With effect from chassis n° XX	Desde n° bastidor XX (incluido)	
		d.	Dikte	Thickness	Espesor	
		DAT-XX→	Vanaf konstruktiedatum XX	With effect from construction date XX	Desde fecha de construcción XX	
		DIN	Duitse Industrie Norm	German Industrial Standard	Norma Industrial Alemana	
		EV	Elektrisch verwarmd	Electrically heated	Calentado electricamente	
		g	Gram	Gram	Gramo	
		h.	Hoogte	Height	Altura	
		kg	Kilogram	Kilogram	Kilogramo	
		km/h	Kilometer per uur	Kilometer hour	Kilómetro hora	
		kW	Kilowatt	Kilowatt	Kilovatio	
		l.	Liter	Liter	Litro	
		l.	Lengte	Length	Longitud	
		LHD	Voertuig stuur links	Left hand drive	Dirección a la izquierda	
			AFKORTINGEN		ABREVIACIONES	
			ABBREVIATIONS			005-1 ← 3

T04502

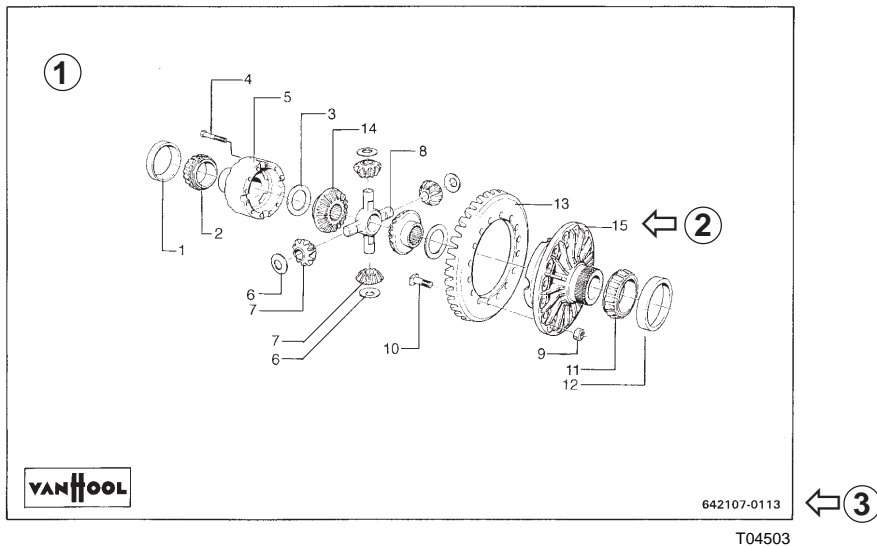
Figure 4: Abbreviations (sample)

1. Abbreviation/symbol
2. Description in different languages
3. Page number
4. Subject

The abbreviations in this section are used in the column "Spec" of the drawing information sheet to provide additional information on spare parts. A separate list of cross-references applicable to the US is provided on page 10 of this Service Bulletin

3e. Mechanical, chassis and body sections (Sections 61 through 78)

The drawing and the drawing information sheet supplement each other.



Pos.	Q.	Ref. N°	Benaming	Description	Denominación	Spec.	
1	1	10558092	Lagerkap	Bearing cap	Tapa de soporte	Ri	
2	1	10558093	Lager	Bearing	Rodamiento	Ra	
3	2	10558096	Borgring	Circclip	Anillo elástico de retención		
4	12	10558135	Bout	Screw	Tornillo		
5	1	10593650	Huis	Housing	Caja		
6	4	10558101	Borgring	Circclip	Anillo elástico de retención		
7	4	10558099	Tandwiel	Pinion	Piñón		
8	1	10558137	Planeetwieldrager	Planet wheel carrier	Caja de satélites		
9	16	10593652	Moer	Nut	Tuerca		
10	16	10593654	Bout	Screw	Tornillo		
11	1	10558095	Lager	Bearing	Rodamiento	Li	
12	1	10558094	Lagerkap	Bearing cap	Tapa de soporte	Li	
13	1	10624332	Conisch koppel	Ring gear and drive pinion set	Par cónico		
14	2	10558114	Tandwiel	Pinion	Piñón		
15	1	10593658	Flens	Flange	Brida	4.33	
	1	10593670	Set tandwielen	Set of gears	Juego de piñones	4.33	
	1	10593674	Set onderdelen differentieel	Parts kit differential	Juego de piezas del diferencial		
3	*2	10558096	Borgring	Circclip	Anillo elástico de retención		
6	*4	10558101	Borgring	Circclip	Anillo elástico de retención		
7	*4	10558099	Tandwiel	Pinion	Piñón		
8	*1	10558137	Planeetwieldrager	Planet wheel carrier	Caja de satélites		
14	*2	10558114	Tandwiel	Pinion	Piñón		
	1	10593678	Set onderdelen differentieel	Parts kit differential	Juego de piezas del diferencial	4.33	
VANHOOL					AANGEDREVEN AS: DIFFERENTIEEL		05/01/98
VANHOOL					DRIVE AXLE: DIFFERENTIAL		642107-0113

Figure 5: Drawing and accompanying information sheet (sample)

1. Drawing of part or assembly
2. Part location number on drawing. Refer to column marked "Pos." on accompanying drawing information sheet
3. Page number
4. Drawing information sheet
5. Part location number on drawing. Refer to drawing
6. Quantity needed
7. Van Hool part number
8. Description of part
9. Part specifications using the abbreviations of section 005
10. Specifications or edition date
11. Page number
12. Subject

NOTE ON QUANTITIES:

1. Quantities in column with heading Q (6, Figure 5) always refer to a single assembly and may be recorded as:

number of units

length in meters (1m = approx. 1 yard)

weight in kilograms (1kg = approx. 2 pounds)

contents in liters (1l = 1 quart)

2. When, in the column quantity, the number of units is preceded by a star, the part concerned is a minor component of the aforementioned larger part, and can be ordered separately.
3. When, in the column quantity, the number of units is preceded by two stars, the part concerned is a minor component of the aforementioned part marked with one star.

4. LIST OF CROSS-REFERENCES USA

When consulting the Van Hool Parts Manual, following information, typical for the USA, may be encountered.

1. Vehicle specifications

<u>Ref.</u>	<u>Benaming</u>	<u>Description</u>	<u>Denominación</u>
40'	40 voet autocar	40 feet coach	Autobús 40 pies
45'	45 voet autocar	45 feet coach	Autobús 45 pies
40001	Alleen op constructienummer 40001	Applicable to VIN 40001 only	Sólo para VIN 40001
VIN.....➔.....	Van constructienummer..... tot en met constructienummer.....	Applicable to vehicles with VIN..... up to and including VIN.....	Para vehículos de VIN..... hasta VIN..... inclusive
B500	Op voertuigen met Allison B500 versnellingsbak	On coach equipped with B500 Allison transmission	En autobús equipado con transmisión Allison B500
CUMMINS	Op voertuigen met Cummins motor	On vehicles with Cummins engine	En vehículos con motor Cummins
DETROIT (DIESEL)	Op voertuigen met Detroit Diesel motor	On vehicles with Detroit Diesel engine	En vehículos con motor Detroit Diesel
W/	Uitgerust met...	Equipped with....	Equipado de...
W/O	Niet uitgerust met...	Not equipped with...	No equipado de...

2. Parts specification

<u>Ref.</u>	<u>Benaming</u>	<u>Description</u>	<u>Denominación</u>
+1	Alleen verkrijgbaar als onderdeel van kit	Available as part of complete kit only	Sólo disponible como parte de juego completo
12	Remcilinder Type12	Type12 brake chamber	Cilindro de freno tipo12
22.5"	Diameter remschijf	Brake disc diameter	Diámetro disco de freno
24	Remcilinder Type24	Type24 brake chamber	Cilindro de freno tipo24
18 34.01.02.030	HVAC positie 18 Sütrak onderdeel nr.	HVAC position 18 Sütrak part no.	HVAC posición 18 No. parte Sütrak
6SP GEARBOX	Zesversnellingsbak	Six speed transmission	Caja de seis velocidades
8PF	8-pin stekker vrouw	Eight pin female terminal	Caja de bornes hembra (ocho bornes)
8PM	8-pin stekker man	Eight pin male terminal	Caja de bornes macha (ocho bornes)
ABS-ASR USA	Alleen voor ABS-systeem USA	For US ABS-ASR system only	Sólo para sistema ABS-ASR E.E.U.U.
FRAME MAT	Constructiemateriaal chassis	Frame material	Material de construcción bastidor
HYPOLIDE	Hypoide as	Drive axle with bevel gear	Eje de engranajes hipoidales
LOCTITE 574	Gebruik Loctite 574 bij montage	Use Loctite 574 during assembly	Emplee Loctite 574 para montaje
MAT: INOX	Roestvrij staal	Stainless steel	Acero inoxidable
TEXTAR 3010	Materiaal remvoering	Brake lining material	Material forro de freno

NOTE: 1. Lengths are in millimeters unless otherwise specified.
2. For explanation of DIN specifications, refer to standard.

3. Labels and charts

Label	Betekenis	Description	Denominación
number...	Bladzijdeverwijzing	Page reference	Referencia de página
text...	Naamplaatje	Identification label	Placa de identificación
[number]	Niet afgebeeld/ elders afgebeeld	Not shown/ shown elsewhere	No enseñado/ enseñado en otra parté




UNIONS Racores

Diameter
 Diameter
 Diámetro

Materiaal
 Material
 Material

Positie
 Position
 Posición

Keuze
 Choise
 Elección

A	P	15	8	10	12
B	P	18	9	11	13
C	ST	18	—	11	14
MAT:		Ø			

T04506

Leiding
 Tubing
 Tubería

Insert
 Insert
 Inserto

Wartel
 Nut
 Tuerca

Snijring
 Sleeve
 Manguito

4. HOW TO ORDER PARTS?

- State correct part number, description and quantity required.
- Include complete shipping instructions.
- Coach identification is extremely important when ordering parts; always state the following:
 - Type of coach
 - Construction number (VIN). The vehicle identification plate is located in the stepwell of the front passenger door.
 - Parts manual number
- Specify when necessary:
 - Length of coach
 - Type of engine
 - Type of transmission
 - Whether parts are left or right hand, front or rear, upper or lower. Left and right are determined by facing the direction of travel from the driver's seat. A part which is designated "FRONT" is that nearest the front of the vehicle.

