



SERVICE BULLETIN No.1163

Circulate to listed addressees

COACH MODEL	: C2045 & T2145
BULLETIN TYPE	: Service Information
MANUAL SECTION	: Chapter 11 Body and accessories
DATE	: December 1, 2005
SUBJECT	: New windshield wiper assembly
TERMS & CONDITIONS	: No claims will be accepted with reference to this Bulletin.

APPLICATION:

As from the units listed below, a new windshield wiper assembly has been cut into production:

Model	Engine	VIN
T2145	Cummins	44306 →
	Detroit Diesel	44617 →
C2045	Cummins	46008 →
	Detroit Diesel	46614 → 46633, 46641 →
	Caterpillar	47054, 47056 → 47065, 47087 →

DESCRIPTION:

The introduction of a two-section windshield as a replacement for the previous three-section version has necessitated a redesign of the windshield wiper assembly. Some of the major features of the new design have been listed below (see also Figures 1 through 3).

1. A centrally located electric motor drives, through a gearbox, and via a crank and adjustable tie rod assembly, two pantographs, each carrying a 39-3/8 inch (1000 mm) long wiper blade.
2. Heavy-duty springs pressing the wiper blades against the windshield and a powerful motor ensure excellent wiping action under the most unfavorable conditions.
3. The wiper blades each cover 1,395 square inch of windshield (see Figure 3).
4. As standard f, each wiper blade is provided with a dedicated washer installation, comprising a separate screen wash pump, tubing and jet drawing washer fluid from a common tank.

Parts information and specifications are provided further in this Bulletin.

Service personnel: please read, initial and circulate.

Service Manager	Parts Manager	Warranty Administrator	Workshop Foreman	Service Technician

PARTS AND PRODUCTS:

Parts – previous design:

- **T2100:** Refer to Spare Parts Manual # 1010 up to revision D.
- **C2045:** Refer to Spare Parts Manual # 1190 up to revision D.

Parts – new design:

- **T2100 enhanced:**
Refer to sections 753309-0116 through 753309-0117 of Spare Parts Manual # 1421, which have been attached to this Bulletin.
- **C2045 enhanced:**
Refer to sections 753309-0114 through 753309-0115 of Spare Parts Manual # 1405A, which have been attached to this Bulletin.

Parts – application and supply:

- Old and new specification parts are not interchangeable.
- Both old and new specification parts will be available as service replacements.
- New specification parts have been included in the updated Spare Parts Manuals.
- Parts may be purchased from your nearest ABC Customer Care & Parts Source service center.
- Parts and products disposition: discard according to applicable environmental regulations.

SPECIFICATIONS:

Wiper motor:

Wiper motor Model 259 24V - Performance					
Speed	Idle		Under load		
	Current	Rpm	Test load	Current	Rpm
n1	≤ 2.3 A	30 ± 3	5 ft.lbf (7 Nm)	≤ 3.6 A	27 ± 3
n2	≤ 3.5 A	43 ± 5	5 ft.lbf (7 Nm)	≤ 5.2 A	40 ± 5
Testing voltage: 26V					
Starting torque: 96 ft.lbf (130 Nm)					

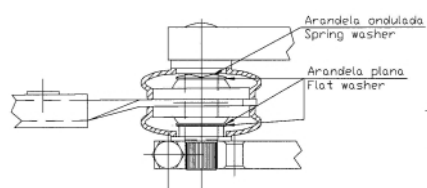
Wiper blade:

Blade length: 39- 3/8 inch (1000 mm)

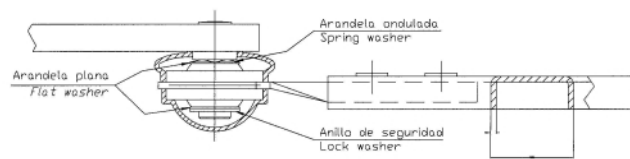
Blade to center post distance (park position): 5-5/64 inch (134.5 mm - see Figure 2)

Torque wrench settings:

Fastener	Location	Torque	
		ft.lbf	Nm
Motor mounting plate to chassis mounting bracket bolts	T1, Figure 1	16 → 18	22 → 25
Wiper arm nut	T2, Figure 1	26 → 33	35 → 45
Threaded pivot bushing nut	T3, Figure 1	40 → 44	55 → 60
Washer elbow fitting nut	T4, Figure 1	3 → 4	34 → 5
Gearbox to mounting plate bolts	T5, Figure 2	15 → 17	20 → 24
Crank to pivot tie rod bolts	T6, Figure 2	16 → 20	22 → 27

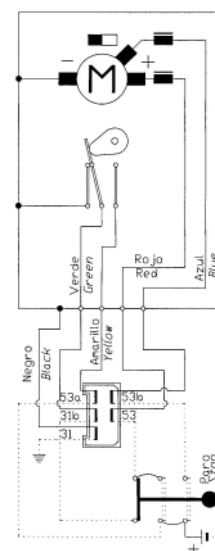
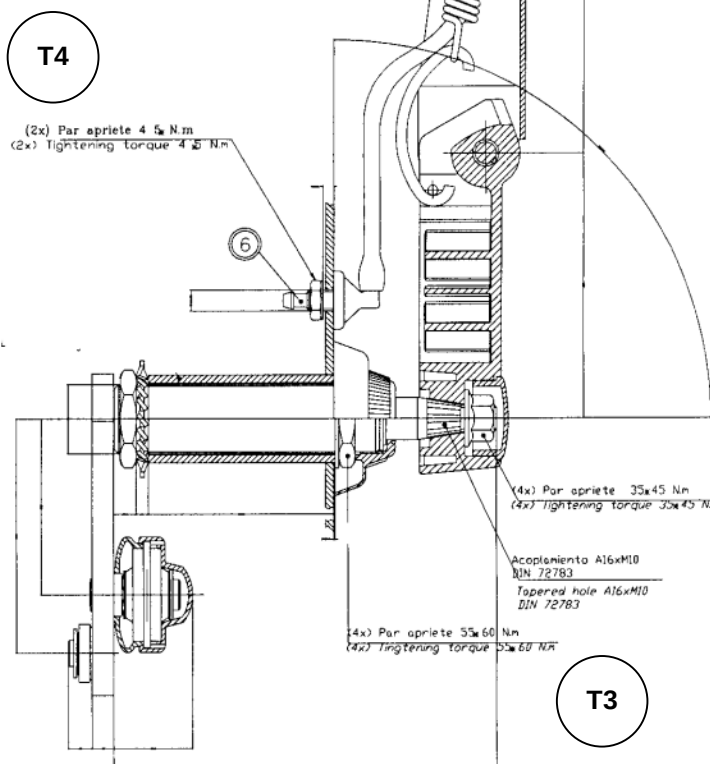
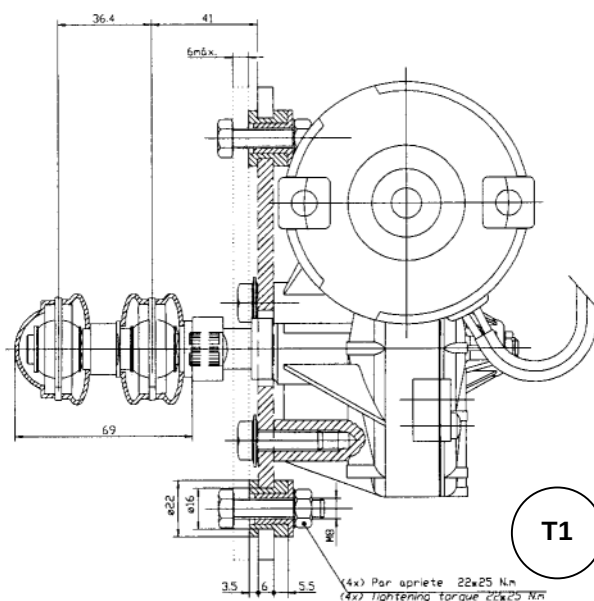


DETALLE "Z"
Escala 1:1
DETAIL "Z"
Scale 1:1

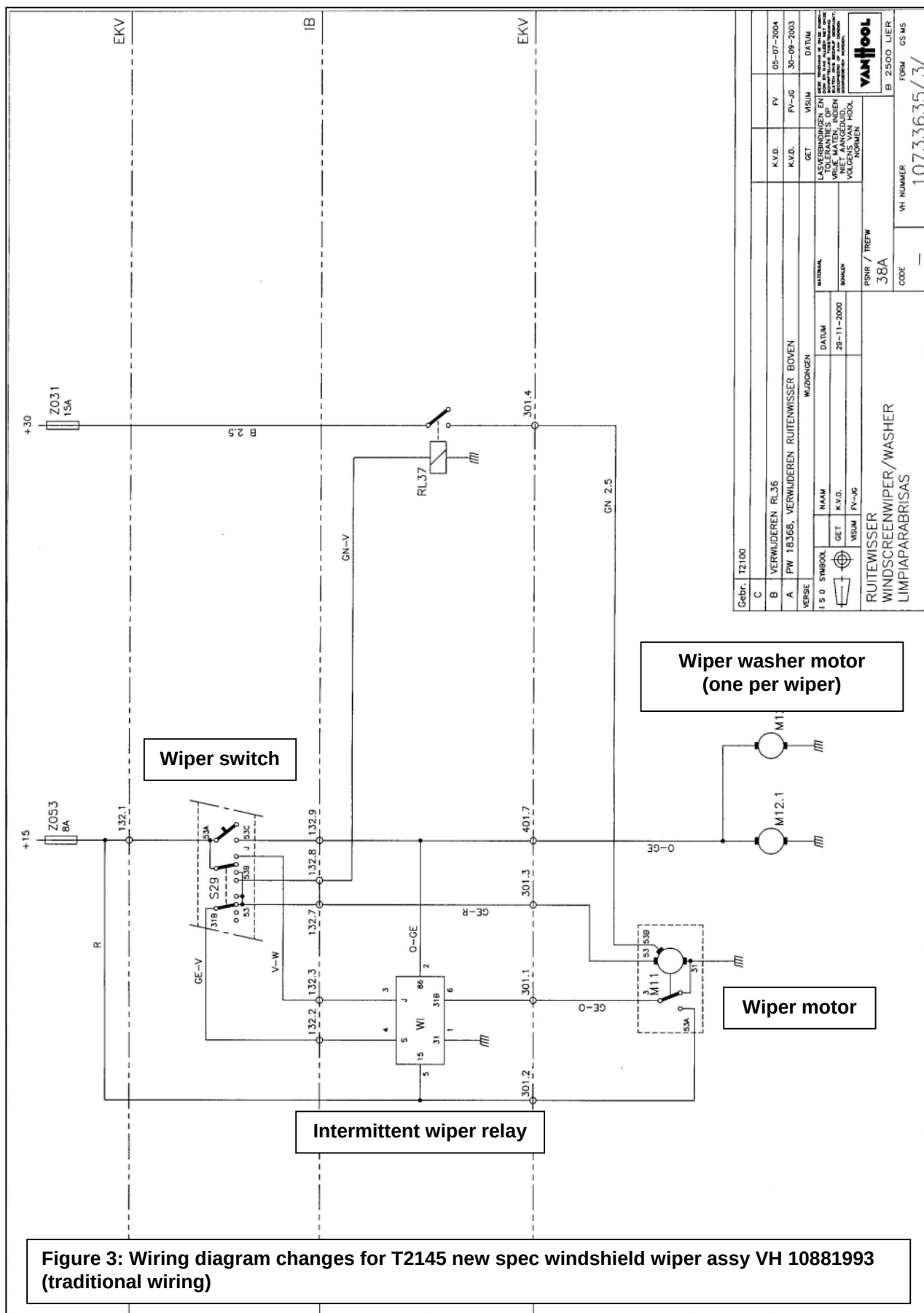


DETALLE "Y"
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Figure 1:
VH 10881993
new spec windshield wiper assy -
mechanical/electrical -
detailing







Gebr. T2100		K.V.D.		PV		95-07-2004	
C		K.V.D.		PV-JG		30-09-2003	
B		VERVULLEN RIJ36		GET		VSUM	
A		PW 18368, VERVULLEN RUITENWISSE BOVEN		LASVERBINDINGEN EN TOLERANTIES OP VERBODEN EN NIET AANGEGEVEN VOLGENS VAN HOOL NORMEN		DATUM	
VERSE		WJIDJONGEN		MATERIAAL		38A	
I S O SYMBOOL		NAAM		DATUM		PSNR / TREFW	
GET		K.V.D.		29-11-2000		38A	
VSUM		PV-JG		38A		FORM	
RUITENWISSE WINDSCREENWIPER/WASHER		LIMPIAPARABRISAS		38A		CS MS	
—		—		—		10733635/3/	

5/3/

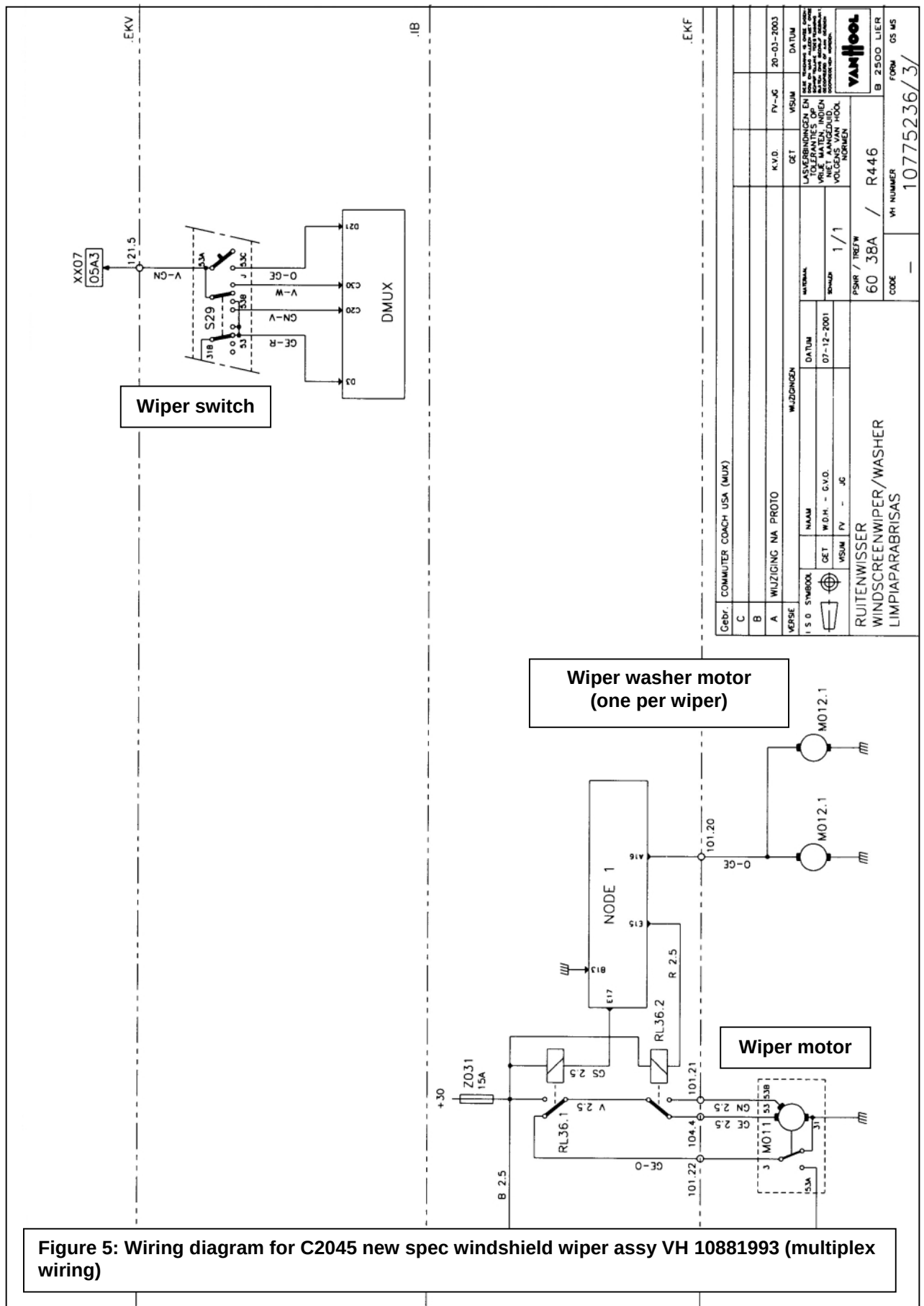
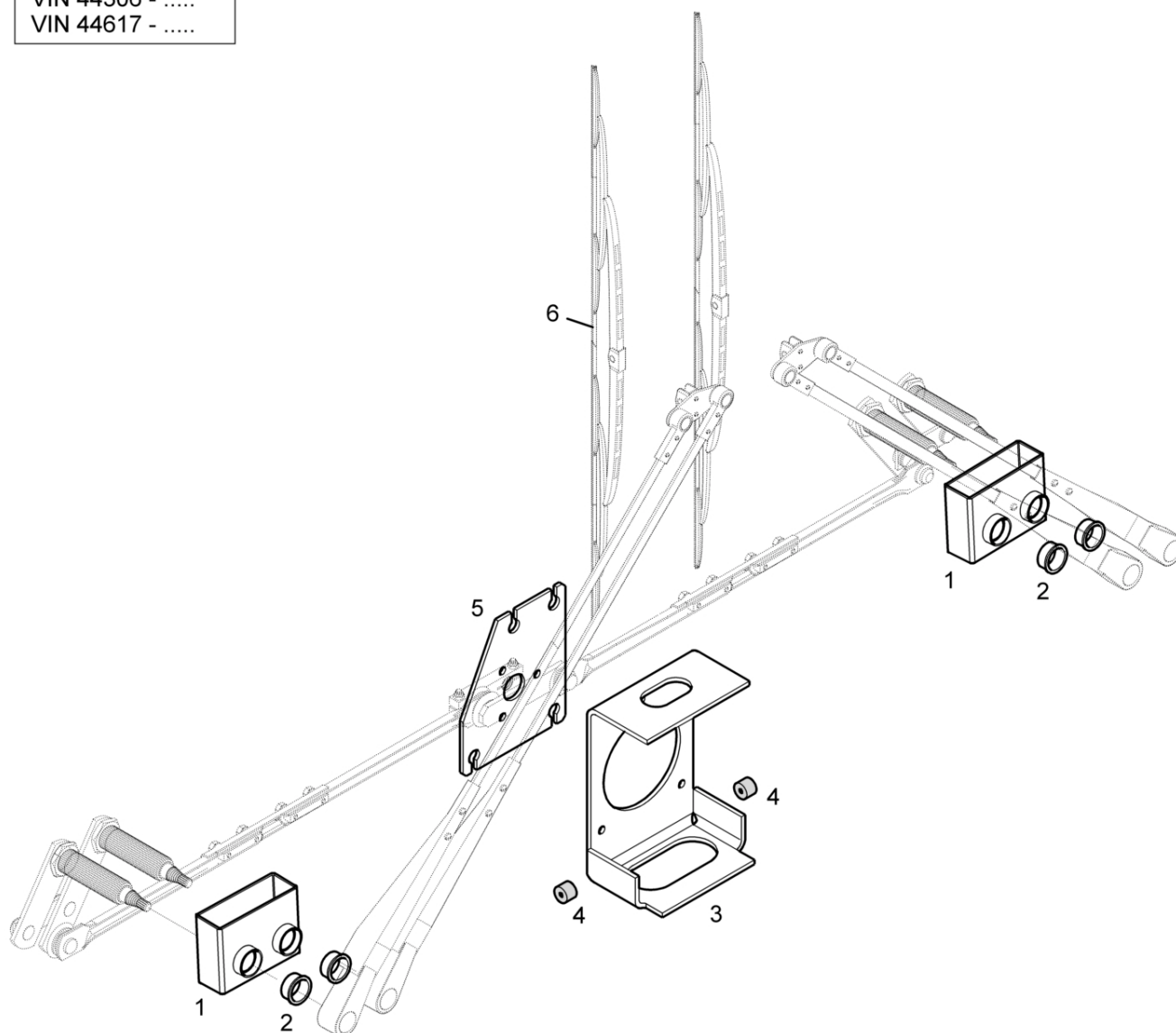


Figure 5: Wiring diagram for C2045 new spec windshield wiper assy VH 10881993 (multiplex wiring)

SERVICE 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..

VIN 44306 -
VIN 44617 -



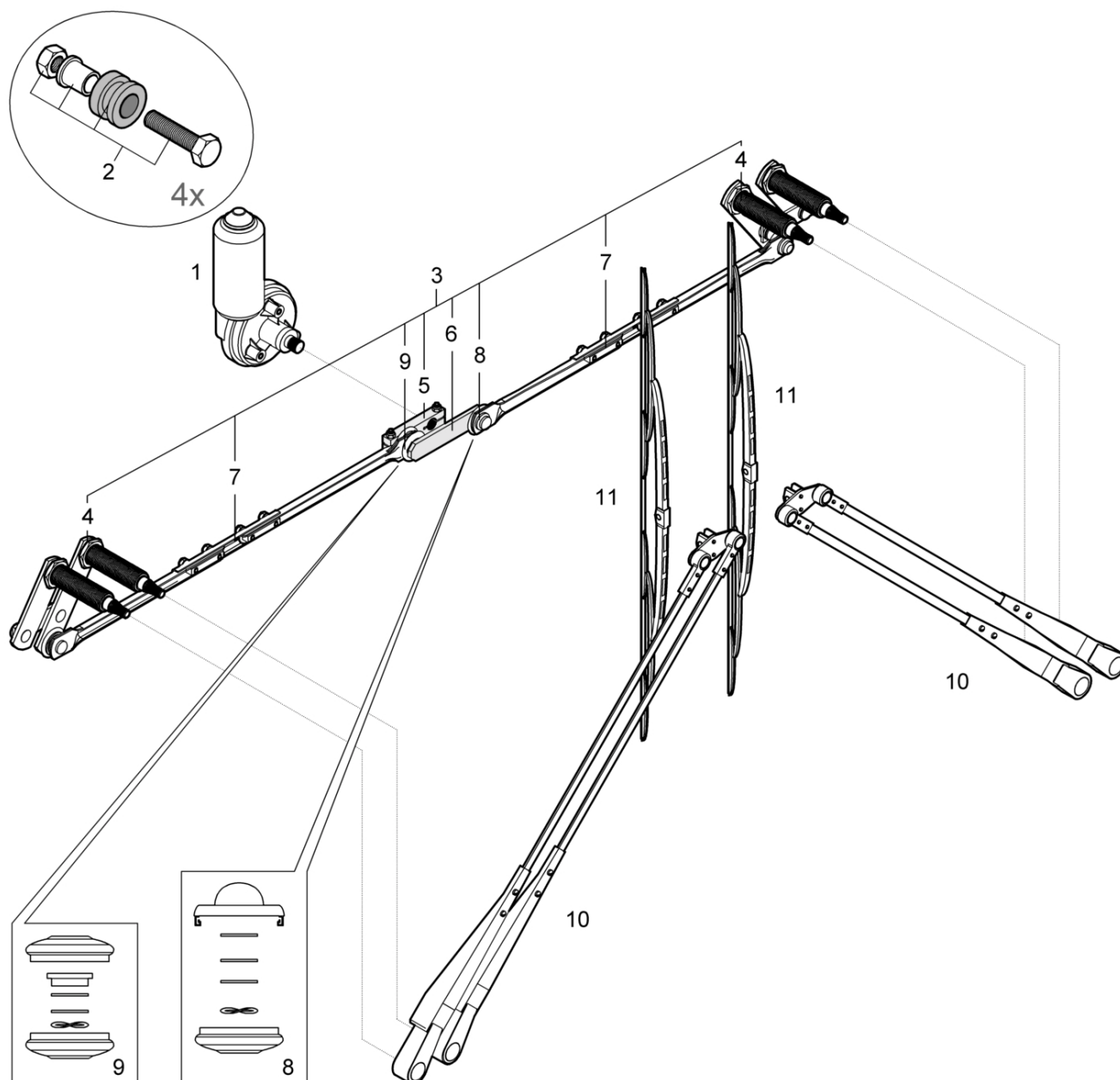
Pos.	Q.	Ref.N°	Description	Denominación	Spec.
1	2	91400234	Bracket	Soporte	
(i)			Welded to body	Soldado al chasis	
2	4	645801190	Bush	Casquillo	
3	1	91400231	Mounting bracket	Soporte de fijación	
(i)			Welded to body	Soldado al chasis	
4	2	10603602	Threaded ring	Anillo roscado	
(i)			Welded to body	Soldado al chasis	
5	1	91400232	Mounting plate	Plancha de montaje	
6	1	»753309-0117 »753309-0117	Windshield wiper & washer	Limpiaparabrisas + accesorios	



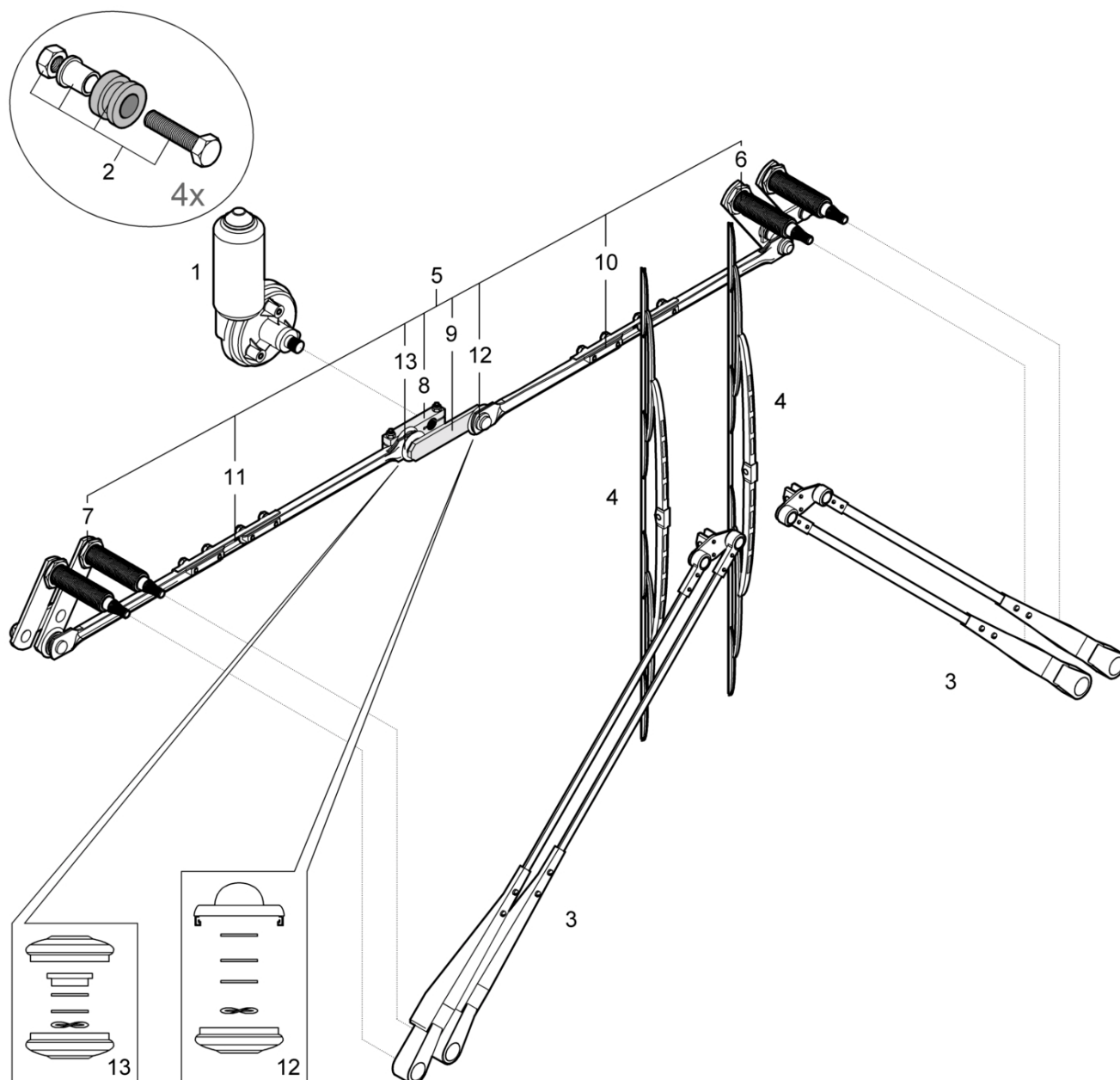
Windshield wiper & washer
Limpiaparabrisas + accesorios

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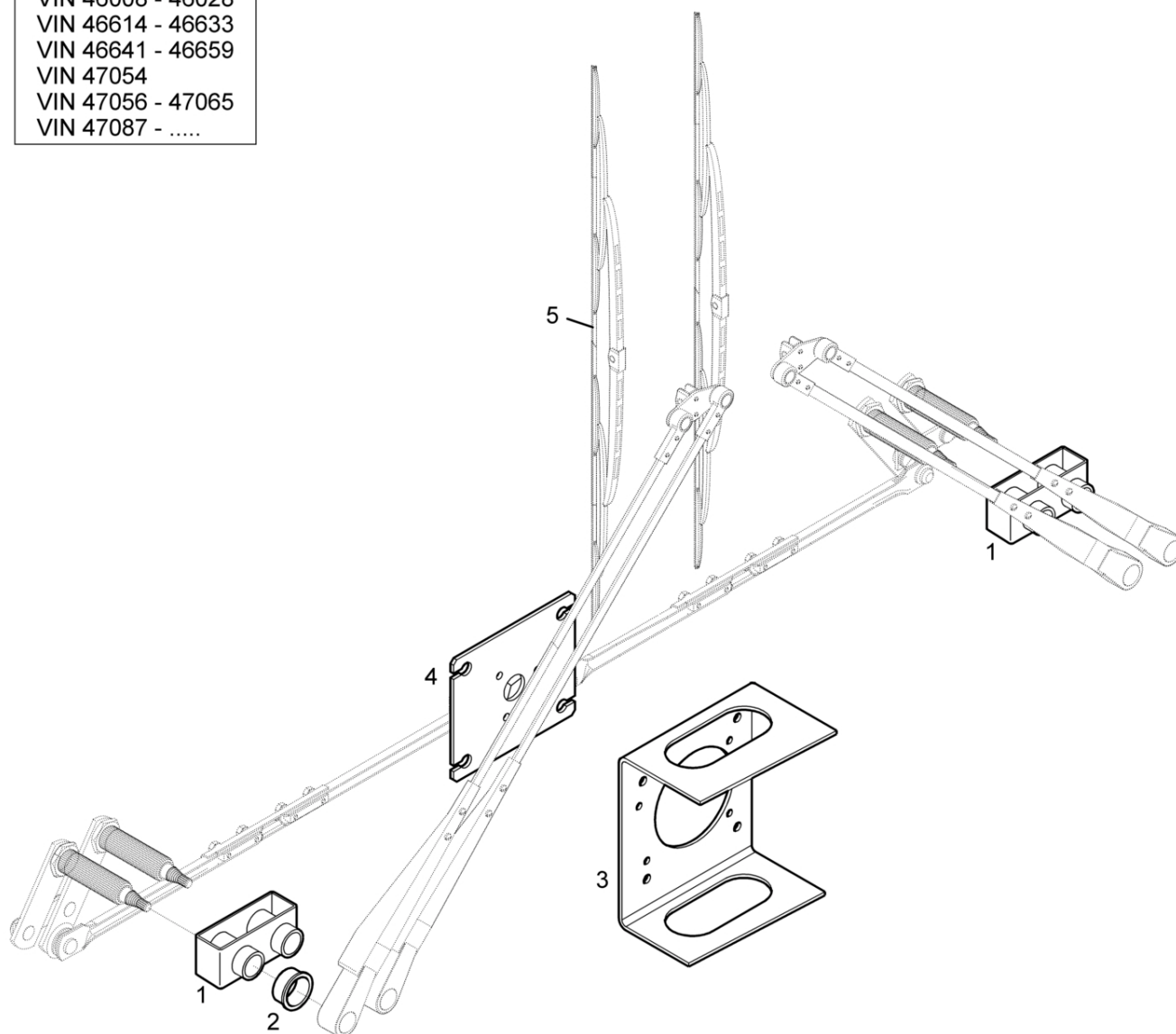


Pos.	Q.	Ref.N°	Description	Denominación	Spec.
1	1	10916796	Motor	Motor	
2	1	10916798	Set of assembly parts	Juego de piezas de fijación	
3	1	10916800	Actuating linkage	Varillaje de mando	
4	*2	10952737	Lever	Palanca	
5	*1	10957496	Lever	Palanca	
6	*1	10957497	Lever	Palanca	
7	*2	10957499	Bar	Barra	
8	*3	10952746	Set of assembly parts	Juego de piezas de fijación	
9	*1	10952747	Set of assembly parts	Juego de piezas de fijación	
10	2	10951137	Wiper arm	Brazo del limpiaparabrisas	
11	2	10916804	Wiper blade	Escobilla del limpiaparabrisas	



Pos.	Q.	Ref.N°	Description	Denominación	Spec.
1	1	10952723	Motor	Motor	24V
2	1	10916798	Set of assembly parts	Juego de piezas de fijación	
3	2	10952726	Wiper arm	Brazo del limpiaparabrisas	
4	2	10952728	Wiper blade	Escobilla del limpiaparabrisas	
5	1	10952731	Actuating linkage	Varillaje de mando	
6	*1	10952735	Lever	Palanca	
7	*1	10952737	Lever	Palanca	
8	*1	10952739	Lever	Palanca	
9	*1	10952741	Lever	Palanca	
10	*1	10952743	Bar	Barra	
11	*1	10952745	Bar	Barra	
12	*3	10952746	Set of assembly parts	Juego de piezas de fijación	
13	*1	10952747	Set of assembly parts	Juego de piezas de fijación	

VIN 46008 - 46028
 VIN 46614 - 46633
 VIN 46641 - 46659
 VIN 47054
 VIN 47056 - 47065
 VIN 47087 -



Pos.	Q.	Ref.N°	Description	Denominación	Spec.
1	2	10701181	Bracket	Soporte	
①			Welded to body	Soldado al chasis	
2	4	645802770	Bush	Casquillo	
3	1	10701180	Mounting bracket	Soporte de fijación	
①			Welded to body	Soldado al chasis	
4	1	91400272	Mounting plate	Plancha de montaje	
5	1	»753309-0114 »753309-0114	Windshield wiper & washer	Limpiaparabrisas + accesorios	



Windshield wiper & washer
Limpiaparabrisas + accesorios

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