

MARINE BROCHURE

Durable and high quality wipers



**CLEARLY
THE BEST**

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Exalto Wiper Technologies

Exalto produces the world’s best professional marine wiper systems for all kind of vessels in the commercial and leisure sectors. Our wipers are designed for use in all marine environments.

We offer a wide range of high performance motors, innovative arms, durable blades, controls and washing systems. In this way Exalto can compile a complete wiper system that fulfils the specific demands and wishes of the customer. Exalto wipers have stainless steel shafts and fixings. The drive shafts run in selflubricating brass bearings to ensure many hours of trouble-free performance. The wipers feature two speeds, self parking and offer in combination with one of our many control systems intermittent speeds, smart wipe/wash function and on certain system synchronized wiping. All MD and HD wiper arms and blades are manufactured from 316SS (unless stated otherwise). Exalto Wiper Systems are made of high quality materials to assure many years of reliable work. The wiper systems are designed in our own Research and Development Centre and have undergone intensive testing.

Exalto offers complete systems. A typical wiper systems contains the following components:

- Wiper motors
- Wiper arms
- Wiper blades
- Wiper controls
- Washing systems

The size and shape of the glass that has to be wiped determine which motor, arm and blade are needed.

The larger the wiping area, the larger the arms and blades have to be to cover that area. The larger the arms and blades are, the stronger the motor has to be. Therefore we divided our products in sections: large windows (1100-2500 mm in height), medium and small sized windows (till 1100 mm in height).

Exalto Window wiper Systems

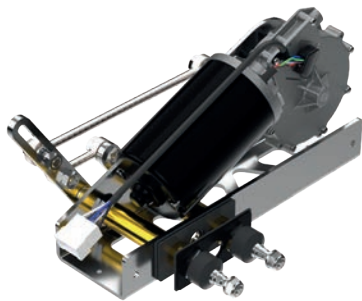
					
Window height	Between 1100-2500 mm		Up to 1600 mm	Up to 1100 mm	
	HD2	HD1	MD2	MD1	LD
Nm range	85-120	55	40	23-32	15
Motor series	2120 285	255	240	223 230 232	215
Arms series	P12	P10	PF	PU	LD

HD2 Wiper motors 2120BS

Self-parking wiper motor for bulkhead mounting. This wiper is only available in 24V. The 2120BS is our most powerful wiper. With a torque of 120 Nm and dual driven shafts this wiper motor can power arms up to 1500 mm and blades up to 1500 mm. This means windows of maximum 2500 mm in height can be cleared.

Max. arm length	1500 mm	Centre distance	60 mm
Max. blade length	1500 mm	Driven shafts	2
Ø drive shaft	27 mm	Arm type	P12
Ø Idler spindle	27 mm		

Voltage	Bulkhead thickness	Torque	Item no.	NEW no.
24 V	25 mm	120 Nm	2124120.25	11246

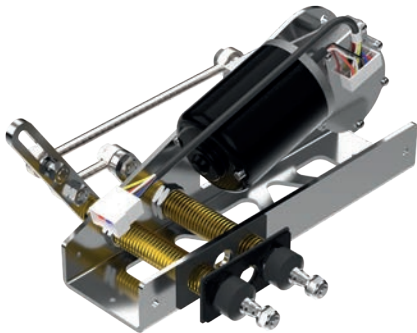


HD2 Wiper motors 285BS

Self-parking wiper motor for bulkhead mounting. This wiper is only available in 24V. The 285BS compact is a powerful wiper. With a torque of 85 Nm and dual driven shafts this wiper motor can power arms up to 1200 mm and blades up to 1500 mm. This means windows of maximum 2100 mm in height can be cleared. The motor is insulated earth as standard, The wiping arc of this wiper is stepless variable from 40° to 90°.

Max. armlength	1200 mm	Centre distance	60 mm
Max. bladlength	1500 mm	Driven shafts	2
Ø driveshaft	27 mm	Arm type	P12
Ø Idler spindle	27 mm		

Voltage	Bulkhead thickness	Torque	Power	Item no.	NEW no.
24 V	25 mm	80 Nm	77 W	2178.085	11609
	non std.			2181.02	11625



HD2 Wiper arms P12

The P12 arms are specially designed for the powerful 285BS and 2120BS wiper. The Exalto P12 arm will be manufactured to the required length. Please, note that therefore they have a longer delivery time. The P12 is not adjustable in length. The P12 arm is made of stainless steel 316 and has seawater resistant brass heads. A black coating is applied as a standard to prevent reflection. The P12 arms have two adjustable springs, to adjust the pressure on the glass steplessly. By means of the swivelling blade clip, you can park your blades parallel to the window. We advise you to use the Exalto Heavy Duty (HD) blades in combination with this arm.

Centre distance	60 mm
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Descrip-tion	Nr. of springs	Blade length	Arm length	Item no.	NEW no.
Exalto wiper arm P12 with 2 adjustable springs	2	900-1500 mm	1500 mm	2144.B	11399



HD1 Wiper motors 255BS

This new model is the replacement for the 250BS. The motor is stronger and has an assembled plug. Self-parking wiper motor for bulkhead mounting. The 255BS is a powerful wiper with dual driven shafts. It can clean windows up to a height of 1600 mm. With a torque of 55 Nm, this wiper can drive arms upto 1 meter in length and blades upto 1.2 metres. This motor has insulated earth return as a standard. The wiping angle of this wiper motor is stepless variable from 40° till 90°.

Max. armlength	1000 mm	Centre distance	60 mm
Max. bladlength	1200 mm	Driven shafts	2
Ø driveshaft	20 mm	Arm type	P10
Ø Idler spindle	20 mm		

Voltage	Bulkhead thickness	Torque	Power	Item no.	NEW no.
12 V	35 mm	55 Nm	84 W	211255.35	11215
12 V	65 mm	55 Nm	84 W	211255.65	11218
24 V	35 mm	55 Nm	96 W	212455.35	11254
24 V	65 mm	55 Nm	96 W	212455.65	11263
	non std.			2181.03	11626



HD1 Wiper motor cover 255BS

Cover for the wiper motor 255BS series.

Description	Color	Item no.	NEW no.
Cover for HD1 255BS Black	Black	2115.255	11225

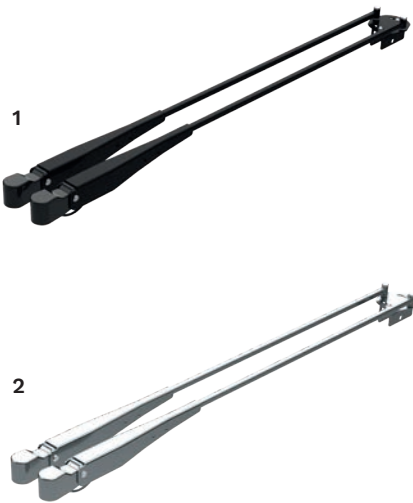


HD1 Wiper arms P10

The P10 arms are specially designed for wiper motor 255BS. Exalto P10 arms are available for standard and H.D. blades till 800 mm in length, or for H.D. blades from 850 till 1200 mm in length. The arm is manufactured from stainless steel 316 and has brass, seawater resistant heads. The P10 arms have two fixed springs as a standard. If you want to adjust the pressure on the glass yourself, P10 arms with two steplessly adjustable springs are also available. The P10 arms have a swivelling blade clip, to adjust the position of the blade in relation to the window configuration easily. The arm has a black coating to prevent reflection as a standard. However, these arms with fixed springs are also available in high polished stainless steel.

Centre distance 60 mm

Pos	Description	Nr. of springs	Blade length	Arm length	Item no.	NEW no.
1	Black coated arm with fixed springs	2	850-1200 mm	750-1000 mm	2142.B	11363
2	Polished arm with fixed springs	2	850-1200 mm	750-1000 mm	2142.BP	11374
	Black coated arm with adj. springs	2	850-1200 mm	750-1000 mm	2142.BAS	11369
1	Black coated arm with fixed springs	2	300-800 mm	750-1000 mm	2142.S	11376
2	Polished arm with fixed springs	2	300-800 mm	750-1000 mm	2142.SP	11380
	Black coated arm with adj. springs	2	300-800 mm	750-1000 mm	2142.SAS	11379

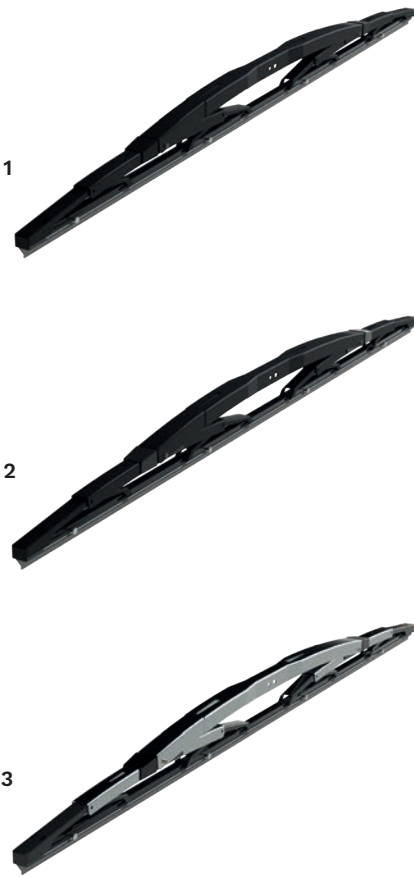


HD Wiper blades SS316

Exalto HD Wiper blades are manufactured of stainless steel 316. To prevent reflection, a black coating is applied on all metal parts. The Heavy Duty (HD) blades have a special profile that reduces lift. This makes them perfect for applications where a little more pressure is required. The HD blades are also more screen friendly due to the use of plastic lower bridges. In case of damaged rubber, these plastic bridges will not damage the screen. Keep in mind that every motor has a maximum blade length when choosing your wiperblade.

HD1 max 1200mm blade, 1000mm arm. HD2 max 1500mm blade, 1500mm arm.

Pos	Description	Length	Item no.	NEW no.
1	Exalto Wiper blade	250 mm	2170.HP	11575
1	Exalto Wiper blade	300 mm	2171.HP	11576
1	Exalto Wiper blade	350 mm	2172.HP	11577
1	Exalto Wiper blade	400 mm	2173.HP	11578
1	Exalto Wiper blade	450 mm	2174.HP	11579
1	Exalto Wiper blade	500 mm	2175.HP	11583
1	Exalto Wiper blade	550 mm	2176.HP	11596
1	Exalto Wiper blade	600 mm	2177.HP	11600
1	Exalto Wiper blade	650 mm	2178.HP	11616
1	Exalto Wiper blade	700 mm	2179.HP	11618
1	Exalto Wiper blade	750 mm	2195.HP	11656
1	Exalto Wiper blade	800 mm	2196.HP	11659
2	Exalto Wiper blade HD	610 mm	216120	11515
2	Exalto Wiper blade HD	650 mm	216121	11522
2	Exalto Wiper blade HD	700 mm	216122	11524
2	Exalto Wiper blade HD	750 mm	216123	11527
2	Exalto Wiper blade HD	800 mm	216124	11529
2	Exalto Wiper blade HD	850 mm	216125	11533
2	Exalto Wiper blade HD	900 mm	216126	11535
2	Exalto Wiper blade HD	950 mm	216127	11538
2	Exalto Wiper blade HD	1000 mm	216128	11540
2	Exalto Wiper blade HD	1100 mm	216129	11543
2	Exalto Wiper blade HD	1200 mm	216130	11549
3	Exalto Wiper blade HD polished	610 mm	216120P	11521
3	Exalto Wiper blade HD polished	650 mm	216121P	11523
3	Exalto Wiper blade HD polished	700 mm	216122P	11526
3	Exalto Wiper blade HD polished	750 mm	216123P	11528
3	Exalto Wiper blade HD polished	800 mm	216124P	11532
3	Exalto Wiper blade HD polished	850 mm	216125P	11534
3	Exalto Wiper blade HD polished	900 mm	216126P	11537
3	Exalto Wiper blade HD polished	950 mm	216127P	11539
3	Exalto Wiper blade HD polished	1000 mm	216128P	11542
3	Exalto Wiper blade HD polished	1200 mm	216130P	11553



HEAVY DUTY WIPER SYSTEMS

HD Wiper blades

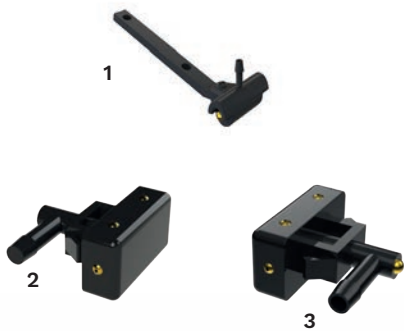
These conventional style wipers are strong and durable for use in lengths 1000-1500 mm. Using carbon steel and an automotive surface finish makes the design more durable with longer performance.

Description	Blade length	Item no.	NEW no.
Exalto Wiper blade CN	1000 mm	2161000	11514
Exalto Wiper blade CN	1200 mm	2161200	11516
Exalto Wiper blade CN	1300 mm	2161300	11552
Exalto Wiper blade CN	1500 mm	2161500	11554

HD Washing jets P10 & P12

These washing jets can be fitted on Exalto pantograph arms PF, P10 and P12. With most washing jets the angle under which the water is sprayed on the window, can be adjusted.

Pos	Description	Item no.	NEW no.
1	Washing jet, 6 nozzles for P10 & P12	2111.cpl	11207
2	Washing jet, 4 nozzles for P10 & P12 right	2185	11631
3	Washing jet 4 nozzles for P10 & P12 left	2185L	11634



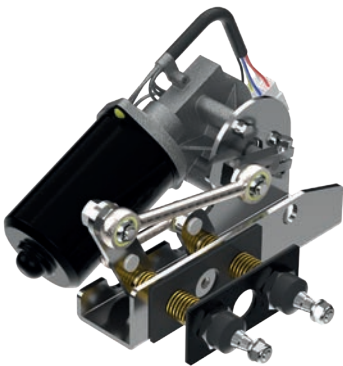
MEDIUM DUTY WIPER SYSTEMS

MD2 Wiper motors 240BS

Self-parking wiper motor for bulkhead mounting. The 240BS is a powerful wiper with dual driven shafts. It can clean windows up to a height of 1600 mm. With a torque of 40 Nm, this wiper motor powers arms and blades of 900 mm in length. This motor is insulated earth return as a standard. The wiping angle of this wiper motor is stepless variable from 40° to 90°.

Max. armlength	900 mm	Centre distance	60 mm
Max. bladlength	900 mm	Driven shafts	2
Ø driveshaft	20 mm	Arm type	P10; PF
Ø Idler spindle	20 mm		

Voltage	Bulkhead thickness	Torque	Power	Item no.	NEW no.
12 V	30 mm	40 Nm	36 W	211240.30	11212
24 V	30 mm	40 Nm	48 W	212440.30	11250
	non std.			2181.05	11627



MD2 Wiper arms PF

The PF arms are specially designed for wiper motor 240BS. Exalto PF arms are available for standard blades to 800 mm in length, or for H.D blades to 900 mm in length. The arm is manufactured from stainless steel 316 and has brass, seawater resistant heads. The PF arms are fixed length and fixed spring pressure as a standard. The PF arm as standard has a swiveling blade clip to allow easy adjustment of the position of the blade in relation to the window configuration. The arm has a black coating to prevent reflection as a standard. However, these arms with fixed springs are also available in high polished stainless steel. The PF arms with fixed springs can be folded back, which allows it easier to mount the arms, change the blades or clean the window. Alternatively P10 arms can be used.

Centre distance 60 mm

Description	Nr. of springs	Blade length	Arm length	Item no.	NEW no.
Black coated wiper arm with fixed springs	2	300-800 mm	700 mm	2140.700.S	13326
Black coated wiper arm with fixed springs	2	850-900 mm	700 mm	2140.700.B	12851
Black coated wiper arm with fixed springs	2	300-800 mm	750 mm	2140.750.S	on request
Black coated wiper arm with fixed springs	2	850-900 mm	750 mm	2140.750.B	11330
Black coated arm with fixed springs	2	300-800 mm	800 mm	2140.800.S	11332
Polished arm with fixed springs	2	300-800 mm	800 mm	2140.800.SP	11333
Black coated arm with fixed springs	2	850-900 mm	800 mm	2140.800.B	11331
Polished arm with fixed springs	2	850-900 mm	800 mm	2140.800.BP	on request
Black coated arm with fixed springs	2	300-800 mm	850 mm	2140.850.S	11335
Polished arm with fixed springs	2	300-800 mm	850 mm	2140.850.SP	11336
Black coated arm with fixed springs	2	850-900 mm	850 mm	2140.850.B	11334
Polished arm with fixed springs	2	850-900 mm	850 mm	2140.850.BP	on request
Black coated arm with fixed springs	2	300-800 mm	900 mm	2140.900.S	11339
Polished arm with fixed springs	2	300-800 mm	900 mm	2140.900.SP	on request
Black coated arm with fixed springs	2	850-900 mm	900 mm	2140.900.B	11337
Polished arm with fixed springs	2	850-900 mm	900 mm	2140.900.BP	11338



MD2 Wiper blades SS 316

Exalto HD Wiper blades are manufactured of stainless steel 316. To prevent reflection, a black coating is applied on all metal parts. The Heavy Duty (HD) blades have a special profile that reduces lift. This makes them perfect for applications where a little more pressure is required. The HD blades are also more screen friendly due to the use of plastic lower bridges. In case of damaged rubber, these plastic bridges will not damage the screen. Keep in mind that every motor has a maximum blade length when choosing your wiperblade.

HD1 max 1200mm blade, 1000mm arm. HD2 max 1500mm blade, 1500mm arm.

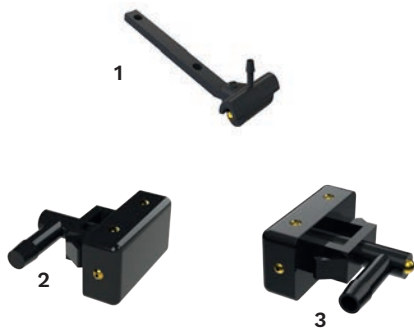
Pos	Description	Blade length	Item no.	NEW no.
1	Exalto Wiper blade	250 mm	2170.HP	11575
1	Exalto Wiper blade	300 mm	2171.HP	11576
1	Exalto Wiper blade	350 mm	2172.HP	11577
1	Exalto Wiper blade	400 mm	2173.HP	11578
1	Exalto Wiper blade	450 mm	2174.HP	11579
1	Exalto Wiper blade	500 mm	2175.HP	11583
1	Exalto Wiper blade	550 mm	2176.HP	11596
1	Exalto Wiper blade	600 mm	2177.HP	11600
1	Exalto Wiper blade	650 mm	2178.HP	11616
1	Exalto Wiper blade	700 mm	2179.HP	11618
1	Exalto Wiper blade	750 mm	2195.HP	11656
1	Exalto Wiper blade	800 mm	2196.HP	11659
2	Exalto Wiper blade HD	610 mm	216120	11515
2	Exalto Wiper blade HD	650 mm	216121	11522
2	Exalto Wiper blade HD	700 mm	216122	11524
2	Exalto Wiper blade HD	750 mm	216123	11527
2	Exalto Wiper blade HD	800 mm	216124	11529
2	Exalto Wiper blade HD	850 mm	216125	11533
2	Exalto Wiper blade HD	900 mm	216126	11535
3	Exalto Wiper blade HD polished	610 mm	216120P	11521
3	Exalto Wiper blade HD polished	650 mm	216121P	11523
3	Exalto Wiper blade HD polished	700 mm	216122P	11526
3	Exalto Wiper blade HD polished	750 mm	216123P	11528
3	Exalto Wiper blade HD polished	800 mm	216124P	11532
3	Exalto Wiper blade HD polished	850 mm	216125P	11534
3	Exalto Wiper blade HD polished	900 mm	216126P	11537



MD2 Washing jets PF & 2142-series

These washing jets can be fitted on Exalto pantograph arms PF, P10 and P12. With most washing jets the angle under which the water is sprayed on the window, can be adjusted.

Pos	Description	Item no.	NEW no.
1	Washing jet, 6 nozzles for P10 & P12	2111.cpl	11207
2	Washing jet, 4 nozzles for P10 & P12 right	2185	11631
3	Washing jet 4 nozzles for P10 & P12 left	2185L	11634

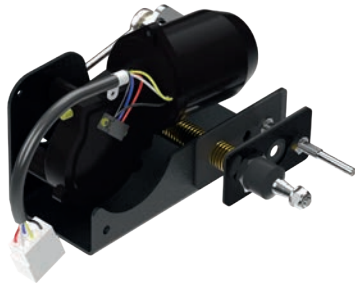


MD1 Wiper motors 230XP

This self parking Exalto MD wiper is suitable for bulkhead mounting. This wiper is available in bulkhead thickness 25 and 50 mm. With a torque of 30 Nm, this wiper can handle arms up to 750 mm and blades up to 800 mm. The motor is insulated earth return as standard. The wiping arc is adjustable from 45° up to 90°.

Max. arm length	750 mm	Centre distance	50 mm
Max. blade length	800 mm	Driven shafts	1
Ø drive shaft	20 mm	Arm type	PU
Ø Idler spindle	8 mm		

Voltage	Bulkhead thickness	Torque	Power	Item no.	NEW no.
12 V	25 mm	30 Nm	36 W	211230.25	11210
12 V	50 mm	30 Nm	36 W	211230.50	11211
24 V	25 mm	30 Nm	36 W	212430.25	11248
24 V	50 mm	30 Nm	36 W	212430.50	11249

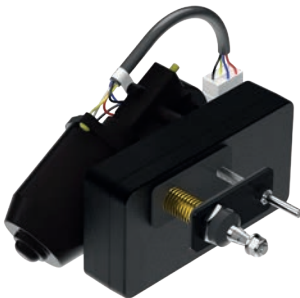


MD1 Wiper motors 232BD

Self-parking Exalto HD wiper for bulkhead mounting. This wiper is available in 12V and 24V and for several bulkhead thicknesses. All moving parts are protected by an aluminium housing. With a torque of 32 Nm, this wiper can handle arms up to 750 mm in length and blades up to 800 mm. The motor is insulated earth return as a standard. The wiping angle is adjustable from 40° to 90°, in steps of 5°. This wiper is the correct replacement for the 235KK-HD.

Max. arm length	750 mm	Centre distance	50 mm
Max. blade length	800 mm	Driven shafts	1
Ø drive shaft	20 mm	Arm type	PU
Ø Idler spindle	8 mm		

Voltage	Bulkhead thickness	Torque	Power	Item no.	NEW no.
12 V	20 mm	32 Nm	40 W	2157.30	11452
12 V	35 mm	32 Nm	40 W	2157.32	11453
12 V	55 mm	32 Nm	40 W	2157.35	11454
12 V	75 mm	32 Nm	40 W	2157.40	13296
12 V	100 mm	32 Nm	40 W	2157.45	12887
12 V	125 mm	32 Nm	40 W	2157.50	12888
24 V	20 mm	32 Nm	40 W	2158.30	11460
24 V	35 mm	32 Nm	40 W	2158.32	11462
24 V	55 mm	32 Nm	40 W	2158.35	11468
24 V	75 mm	32 Nm	40 W	2158.40	11469
24 V	100 mm	32 Nm	40 W	2158.45	11471
24 V	125 mm	32 Nm	40 W	2158.50	11472
	non std.			2109.01	11197



MD1 Wiper motors 223BDC

This self-parking Exalto MD1 wiper is suitable for bulkhead mounting. This wiper is available in 12V and 24V. All moving parts are protected by an aluminium housing. With a torque of 23 Nm, this wiper can handle arms up to 750 mm in length and blades up to 750 mm. The motor is insulated earth standard. The wiping angle is adjustable from 40° to 90°, in steps of 5°.

Max. arm length	750 mm	Centre distance	50 mm
Max. blade length	750 mm	Driven shafts	1
Ø drive shaft	20 mm	Arm type	PU
Ø Idler spindle	8 mm		

Voltage	Bulkhead thickness	Torque	Power	Item no.	NEW no.
12 V	20 mm	23 Nm	36 W	XA2151.30	12388
12 V	35 mm	23 Nm	36 W	XA2151.32	12389
12 V	55 mm	23 Nm	36 W	XA2151.35	12390
12 V	75 mm	23 Nm	36 W	XA2151.40	12391
12 V	100 mm	23 Nm	36 W	XA2151.45	12392
12 V	125 mm	23 Nm	36 W	XA2151.50	12393
24 V	20 mm	25 Nm	36 W	XA2152.30	12394
24 V	35 mm	25 Nm	36 W	XA2152.32	12395
24 V	55 mm	25 Nm	36 W	XA2152.35	12396
24 V	75 mm	25 Nm	36 W	XA2152.40	12397
24 V	100 mm	25 Nm	36 W	XA2152.45	12398
24 V	125 mm	25 Nm	36 W	XA2152.50	12399
non std.				2109.01	11197



MD1 Wiper motors 223KGC

This self-parking Exalto MD1 wiper is suitable for glass mounting. All moving parts of the 223KGC are protected by an aluminium housing. These motors can handle arms up to 450 mm in length and blades up to 500 mm. As this wiper is to be fitted in the glass and has a different drive system from the other wipers, larger arms and blades are not recommended. The wipers have a standard insulated earth return. The wiping angle is adjustable from 40° to 90°, in steps of 5°. The motors is insulated earth return standard as well. The 223KGC and 223KGO are only available for a glass thickness of 17 mm maximum.

Max. arm length	450 mm	Centre distance	50 mm
Max. blade length	500 mm	Driven shafts	1
Ø drive shaft	11 mm	Arm type	PU
Ø Idler spindle	8 mm		

Voltage	Bulkhead thickness	Torque	Power	Item no.	NEW no.
12 V	17 mm	23 Nm	36 W	XA2123	12370
24 V	17 mm	25 Nm	36 W	XA2124	12384



MD1 Wiper motors 223KGO

This self-parking Exalto MD1 wiper is suitable for glass mounting. All moving parts of the 223KGC are protected by an aluminium housing. For the 223KGO a white or black cover is available. These motors can handle arms up to 450 mm in length and blades up to 500 mm. As this wiper is to be fitted in the glass and has a different drive system from the other wipers, larger arms and blades are not recommended. The wipers have a standard insulated earth return. The wiping angle is adjustable from 40° to 90°, in steps of 5°. The motors is insulated earth return standard as well. The 223KGC and 223KGO are only available for a glass thickness of 17 mm maximum.

Max. arm length	450 mm	Centre distance	50 mm
Max. blade length	500 mm	Driven shafts	1
Ø drive shaft	11 mm	Arm type	PU
Ø Idler spindle	8 mm		

Voltage	Bulkhead thickness	Torque	Power	Item no.	NEW no.
12 V	17 mm	23 Nm	36 W	XA2125	12385
24 V	17 mm	25 Nm	36 W	XA2126	12386

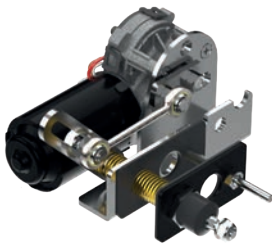


MD1 Wiper motors 223BS

Self-parking Exalto MD1 wiper for bulkhead mounting. This wiper is available in 12V and 24V and for several bulkhead thicknesses. With a torque of 23/25 Nm these wipers can drive arms up to 750 mm in length in combination with blades up to 750 mm in length. The motor is insulated earth as standard. The 223BS differs from the 223BD and 223BDS by means of the adjustability of the wiping arc. Where the 223BD and BDS can adjust the wiping angle in steps of with 5°, the 223BS is infinitely variable. **The black or white cover does NOT fit on this wiper.**

Max. arm length	750 mm	Centre distance	50 mm
Max. blade length	750 mm	Driven shafts	1
Ø drive shaft	20 mm	Arm type	PU
Ø Idler spindle	8 mm		

Voltage	Bulkhead thickness	Torque	Power	Item no.	NEW no.
12 V	20 mm	23 Nm	36 W	XA2167.30	12451
12 V	35 mm	23 Nm	36 W	XA2167.32	12454
12 V	55 mm	23 Nm	36 W	XA2167.35	12456
12 V	75 mm	23 Nm	36 W	XA2167.40	12458
12 V	100 mm	23 Nm	36 W	XA2167.45	13071
12 V	125 mm	23 Nm	36 W	XA2167.50	12459
24 V	20 mm	25 Nm	36 W	XA2168.30	12460
24 V	35 mm	25 Nm	36 W	XA2168.32	12464
24 V	55 mm	25 Nm	36 W	XA2168.35	12466
24 V	75 mm	25 Nm	36 W	XA2168.40	12468
24 V	100 mm	25 Nm	36 W	XA2168.45	12469
24 V	125 mm	25 Nm	36 W	XA2168.50	13073
non std.				2181.04	on request

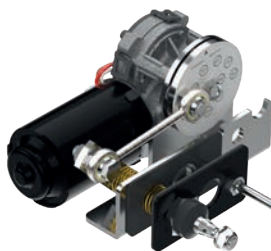


MD1 Wiper motors 223BD

Self-parking Exalto MD wiper for bulkhead mounting. This wiper is available in 12 and 24V and for several bulkhead thicknesses. With a torque of 23/25 Nm these wipers can handle arms up to 750 mm in length in combination with blades up to 750 mm in length. The 223BD is a pantograph wiper system. A black or white cover is available for protection. The motor is IER standard. The wiping arc is adjustable from 40° up to 90°, in steps of 5°.

Max. arm length	750 mm	Centre distance	50 mm
Max. blade length	750 mm	Driven shafts	1
Ø drive shaft	20 mm	Arm type	PU; MD1
Ø Idler spindle	8 mm		

Voltage	Bulkhead thickness	Torque	Power	Item no.	NEW no.
12 V	20 mm	23 Nm	36 W	XA2165.30	12403
12 V	35 mm	23 Nm	36 W	XA2165.32	12409
12 V	55 mm	23 Nm	36 W	XA2165.35	12413
12 V	75 mm	23 Nm	36 W	XA2165.40	12417
12 V	100 mm	23 Nm	36 W	XA2165.45	12419
12 V	125 mm	23 Nm	36 W	XA2165.50	13069
24 V	20 mm	25 Nm	36 W	XA2166.30	12421
24 V	35 mm	25 Nm	36 W	XA2166.32	12435
24 V	55 mm	25 Nm	36 W	XA2166.35	12439
24 V	75 mm	25 Nm	36 W	XA2166.40	12443
24 V	100 mm	25 Nm	36 W	XA2166.45	12446
24 V	125 mm	25 Nm	36 W	XA2166.50	12449
non std.				2109.01	11197



MD1 Wiper motors 223BDS

Self-parking Exalto MD1 wiper for bulkhead mounting. This wiper is available in 12V and 24V and for several bulkhead thicknesses. With a torque of 23/25 Nm these wipers can drive arms up to 750 mm in length in combination with blades up to 750 mm in length. The 223BDS has only one shaft which makes this a pendulum wiper system. For these wipers a cover in black or white is available to protect the motor and keep all moving parts out of reach.The motor is IER standard. The wiping arc is adjustable from 40° to 90° in steps of 5°.

Max. arm length	750 mm	Driven shafts	1
Max. blade length	750 mm	Arm type	KW; E
Ø drive shaft	20 mm		

Voltage	Bulkhead thickness	Torque	Power	Item no.	NEW no.
12 V	20 mm	23 Nm	36 W	XA2165.30S	12406
12 V	35 mm	23 Nm	36 W	XA2165.32S	12410
12 V	55 mm	23 Nm	36 W	XA2165.35S	12414
12 V	75 mm	23 Nm	36 W	XA2165.40S	12418
12 V	100 mm	23 Nm	36 W	XA2165.45S	12420
12 V	125 mm	23 Nm	36 W	XA2165.50S	13070
24 V	20 mm	25 Nm	36 W	XA2166.30S	12431
24 V	35 mm	25 Nm	36 W	XA2166.32S	12435
24 V	55 mm	25 Nm	36 W	XA2166.35S	12440
24 V	75 mm	25 Nm	36 W	XA2166.40S	12444
24 V	100 mm	25 Nm	36 W	XA2166.45S	12447
24 V	125 mm	25 Nm	36 W	XA2166.50S	12450
	non std.			2109.01	11197



MD1 Wiper motor covers 223KGO / BDO / BDS

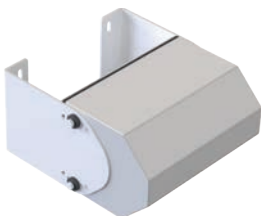
Cover for the wiper motor 223BDO / KGO / BDS series.

Description	Color	Item no.	NEW no.
Cover for MD1 223BDO/223KG White	White	2101	11020
Cover for MD1 223BDO/223KG Black	Black	2115	11223



MD1 External wiper housing 223BDO

The Exalto External Wiper Housing is ideally suited for installations where internally installation-space is not sufficient and offer unmatched mounting flexibility and installation ease. The systems easily adjustable sweep angles, wiper arm lengths and spring pressure make the Exalto External Wiper Housing easy to configure and install for a wide variety of window configurations. **Note:** that you will need the special designed arms 2133.R, 2136.R or 2139.R for this installation. Also the 2197.301 Connector Kit is neccessary to make a waterproof connection.



Description	Item no.	NEW no.
External Housing IP66 for 223BDO wipersystem	2197.300	11730
Connector Kit for External Wiper Housing	2197.301	11731

MD1 Wiper arms PU

The Exalto PU arms are suitable for all MD wiper systems for small and medium sized windows up to 1100 mm in height. This means that they can be installed on all MD1 & MD2-series wiper motors. All PU arms have a fold back feature, so they can be placed in fixed position away from the windshield. This makes it easier to mount the arms, replace the blades or to clean the window. As a standard the PU arms also have adjustable spring pressure to regulate the pressure of the blade on the window steplessly. The .01 version allows double spring pressure on high-speed vessels or raked windows. The position of the blade in relation to the window configuration can be adjusted by the swivelling blade clip. All Exalto wiper arms are made of stainless steel 316 and have bronze heads. A black coating is applied on all metal parts as a standard to prevent reflection. The polished arms are new, so you can choose which arm suits the look of your vessel most. The wiper arms are adjustable in length.

Centre distance 50 mm

Pos	Description	Nr. of springs	Blade length	Arm length	Item no.	NEW no.
1	Exalto arm type PU	1	800 mm	380-510 mm	2133	11297
	Tubing retainer strip 190 mm				2133.03	11299
	Exalto wiper arm PU with 2 adjustable springs	2	800 mm	380-510 mm	2133.01	11298
2	Exalto polished arm type PU	1	800 mm	380-510 mm	2133.P	13262
1	Exalto arm type PU	1	800 mm	520-650 mm	2136	11304
	Tubing retainer strip 430 mm				2136.03	11306
	Exalto wiper arm PU with 2 adjustable springs	2	800 mm	520-650 mm	2136.01	11305
2	Exalto polished arm type PU	1	800 mm	520-650 mm	2136.P	11307
1	Exalto arm type PU	1	800 mm	660-790 mm	2139	11315
	Tubing retainer strip 480 mm				2139.03	11319
	Exalto wiper arm PU with 2 adjustable springs	2	800 mm	660-790 mm	2139.01	11318
2	Exalto polished arm type PU	1	800 mm	660-790 mm	2139.P	11323



MD1 Wiper arms PU Reversed

The Exalto wiper arms are specially designed to fit the Exalto External Wiperhousing (Part No 2197.300). The arms have a reversed head to fit the motor inside the External Wiperhousing. As a standard the PU arms also have adjustable spring pressure to regulate the pressure of the blade on the window steplessly. The position of the blade in relation to the window configuration can be adjusted by the swivelling blade clip. All Exalto wiper arms are made of stainless steel 316 and have bronze heads. A black coating is applied on all metal parts as a standard to prevent reflection. The wiper arms are adjustable in length.

Centre distance 50 mm

Description	Nr. of springs	Blade length	Arm length	Item no.	NEW no.
Exalto arm type PU reversed head	1	750 mm	380-510 mm	2133.R	11301
Exalto arm type PU reversed head	1	750 mm	520-650 mm	2136.R	11308
Exalto arm type PU reversed head	1	750 mm	660-790 mm	2139.R	11324



MD1 Pendulum wiper arms for 223BDS

The E-arms are specially designed for the Exalto KW linked and single shaft (e.g. 223BDS) wiper systems. They are made of stainless steel and have a black coating. The pendulum arms have a stepless swivelling blade clip to allow the blade to be positioned parallel to the edge of the glass and are adjustable in length.

Description	Nr. of springs	Blade length	Arm length	Item no.	NEW no.
Single adjustable arm, Type KW E	1	750 mm	380-510 mm	2103	11038
Single adjustable arm, Type KW E	1	750 mm	520-650 mm	2106	11179
Single adjustable arm, Type KW E	1	750 mm	660-790 mm	2109	11196



MEDIUM DUTY WIPER SYSTEMS

MD Wiper blades SS 316

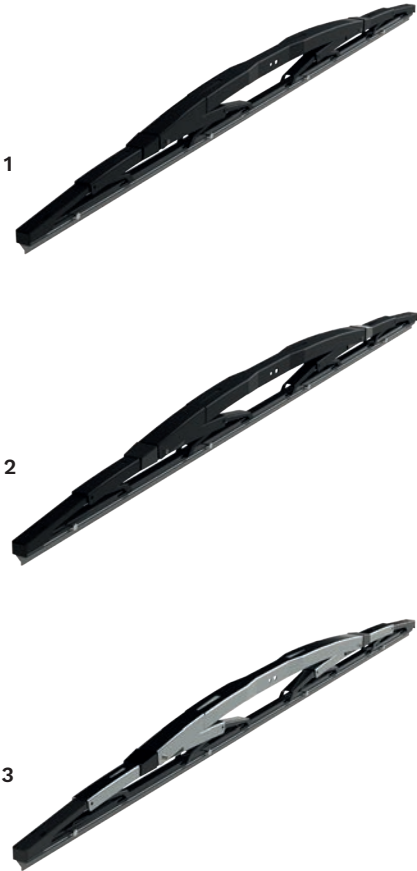
These Exalto wiper blades are manufactured of stainless steel 316. To prevent reflection, a black coating is applied on all metal parts. The MD Wiper blades have a special profile that reduces lift. This makes them perfect for applications where a little more pressure is required. The HD Wiper blades are also more screen friendly due to the use of plastic lower bridges. In case of damaged rubber, these plastic bridges will not damage the screen. Keep in mind that every motor has a maximum blade length when choosing your wiper blade.

Pos	Description	Blade length	Item no.	NEW no.
1	Exalto Wiper blade	250 mm	2170.HP	11575
1	Exalto Wiper blade	300 mm	2171.HP	11576
1	Exalto Wiper blade	350 mm	2172.HP	11577
1	Exalto Wiper blade	400 mm	2173.HP	11578
1	Exalto Wiper blade	450 mm	2174.HP	11579
1	Exalto Wiper blade	500 mm	2175.HP	11583
1	Exalto Wiper blade	550 mm	2176.HP	11596
1	Exalto Wiper blade	600 mm	2177.HP	11600
1	Exalto Wiper blade	650 mm	2178.HP	11616
1	Exalto Wiper blade	700 mm	2179.HP	11618
1	Exalto Wiper blade	750 mm	2195.HP	11656
1	Exalto Wiper blade	800 mm	2196.HP	11659
2	Exalto Wiper blade HD	610 mm	216120	11515
2	Exalto Wiper blade HD	650 mm	216121	11522
2	Exalto Wiper blade HD	700 mm	216122	11524
2	Exalto Wiper blade HD	750 mm	216123	11527
2	Exalto Wiper blade HD	800 mm	216124	11529
3	Exalto Wiper blade HD polished	610 mm	216120P	11521
3	Exalto Wiper blade HD polished	650 mm	216121P	11523
3	Exalto Wiper blade HD polished	700 mm	216122P	11526
3	Exalto Wiper blade HD polished	750 mm	216123P	11528
3	Exalto Wiper blade HD polished	800 mm	216124P	11532

MD Washing jets PU

This washing jets can be fitted on Exalto pantograph arms type PU and 2108 arm. With most washing jets the angle under which the water is sprayed on the window, can be adjusted.

Pos	Description	Item no.	NEW no.
1	Washing jet, 2 nozzles for PU arms	2184	11628
2	Washing jet, 6 nozzles for PU and E-arms	2110.cpl	11205



LIGHT DUTY WIPER SYSTEMS

LD Wiper motors 215BD

This self parking Light Duty wiper is suitable for either bulkhead or through glass mounting. The 215BD is a pendulum or single spindle unit. It can easily be converted to a pantograph system with the external pantograph plate that comes with the pantograph wiper arm. The wiper motor unit is fully enclosed in a waterproof housing (in white or black). The housing is rated at IP66, so the 215BD is suitable for both open and covered boats. Sweep angle is adjustable in 10° steps from to 40° to 110°.

Max. arm length	600 mm	Driven shafts	1
Max. blade length	600 mm	Arm type	LD (215BD)
Ø drive shaft	16 mm		
Ø Idler spindle	6 mm		

Voltage	Bulkhead thickness	Shaft length	Torque	Power	Item no. white	NEW no.
12 V	0-15 mm	25 mm	15 Nm	15 W	2151225IER	11427
12 V	15-40 mm	50 mm	15 Nm	15 W	2151250IER	11433
12 V	40-65 mm	75 mm	15 Nm	15 W	2151275IER	11435
24 V	0-15 mm	25 mm	15 Nm	15 W	2152425IER	11438
24 V	15-40 mm	50 mm	15 Nm	15 W	2152450IER	11440
24 V	40-65 mm	75 mm	15 Nm	15 W	2152475IER	11442

Voltage	Bulkhead thickness	Shaft length	Torque	Power	Item no. black	NEW no.
12 V	0-15 mm	25 mm	15 Nm	15 W	2151225IER.B	11428
12 V	15-40 mm	50 mm	15 Nm	15 W	2151250IER.B	11434
12 V	40-65 mm	75 mm	15 Nm	15 W	2151275IER.B	11436
24 V	0-15 mm	25 mm	15 Nm	15 W	2152425IER.B	11439
24 V	15-40 mm	50 mm	15 Nm	15 W	2152450IER.B	11441
24 V	40-65 mm	75 mm	15 Nm	15 W	2152475IER.B	11443



LD Wiper arms SS 304

The Exalto LD Wiper arms are special for the 215BD windscreen wiper. They are available in a black-coated version and a stainless steel polished version. The single arm is also available with an adjustable clip; This allows you to park the blade along the edge of the window. The parallel arms are available with 1 and 2 springs and the support shaft is supplied as standard.

Pos	Description	No. of springs	Blade length	Arm length	Item no.	NEW no.
1	Single arm adjustable	1	280-600 mm	330-450 mm	21581118	11473
1	Single arm adjustable	1	280-600 mm	450-600 mm	21581124	11475
2	Single arm adjustable + adjustable clip	1	280-600 mm	330-450 mm	21581218	11477
2	Single arm adjustable, polished + adjustable clip	1	280-600 mm	330-450 mm	21581218P	11478
2	Single arm adjustable + adjustable clip	1	280-600 mm	450-600 mm	21581224	11479
2	Single arm adjustable, polished + adjustable clip	1	280-600 mm	450-600 mm	21581224P	11480
3	Pantograph arm adjustable	1	280-600 mm	330-450 mm	21581318	11481
3	Pantograph arm adjustable, polished	1	280-600 mm	330-450 mm	21581318P	11482
3	Pantograph arm adjustable	1	280-600 mm	450-600 mm	21581324	11483
3	Pantograph arm adjustable, polished	1	280-600 mm	450-600 mm	21581324P	11484
	Pantograph arm adjustable, twin spring	2	280-600 mm	330-450 mm	21581618	11485
	Pantograph arm, twin spring, stainless steel Polished	2	280-600 mm	330-450 mm	21581618P	11486
	Pantograph arm, twin spring	2	280-600 mm	450-600 mm	21581624	11487
	Pantograph arm, twin spring, stainless steel Polished	2	280-600 mm	450-600 mm	21581624P	11488



LD Wiper blades

The Exalto LD Wiper blades are in SS304 steel with a high quality rubber profile. Available in length from 280mm till 600mm. Please check the maximum blade size of the wiper motor when you make a choice for your wiperblades.

Blade length	Material	Item no.	NEW no.
280 mm	SS 304	21582011-SS	11490
300 mm	SS 304	21582012-SS	11492
350 mm	SS 304	21582014-SS	11494
400 mm	SS 304	21582016-SS	11496
450 mm	SS 304	21582018-SS	11498
500 mm	SS 304	21582020-SS	11500
550 mm	SS 304	21582022-SS	11502
600 mm	SS 304	21582024-SS	11504



LD Wiper arms SS 316

The Exalto LD Wiper arms are special for the 215BD windscreen wiper. They are available in a black-coated version and a stainless steel polished version. The single arm is also available with an adjustable clip. This allows you to park the blade along the edge of the window. The parallel arms are available with 1 and 2 springs and the support shaft is supplied as standard.

Pos	Description	Nr. of springs	Blade length	Arm length	Item no.	NEW no.
1	Single arm black SS 316	1	280-600 mm	270-640 mm	2107	11186
2	Pantograph arm black SS 316	1	280-600 mm	270-640 mm	2108	11188
	Outside thu-hull cover plate for use with 2108				2112	11208
	Outside shaft cover plate for use with kit 2108				2113	11221



LD Wiper blades SS 316

These Exalto Wiper blades are manufactured of stainless steel 316. To prevent reflection, a black coating is applied on all metal parts. The LD Wiper blades have a special profile that reduces lift. This makes them perfect for applications where a little more pressure is required. Keep in mind that every motor has a maximum blade length when choosing your wiper blade.

Description	Blade length	Material	Item no.	NEW no.
Exalto Wiper blade	250 mm	SS 316	2170.HP	11575
Exalto Wiper blade	300 mm	SS 316	2171.HP	11576
Exalto Wiper blade	350 mm	SS 316	2172.HP	11577
Exalto Wiper blade	400 mm	SS 316	2173.HP	11578
Exalto Wiper blade	450 mm	SS 316	2174.HP	11579
Exalto Wiper blade	500 mm	SS 316	2175.HP	11583
Exalto Wiper blade	550 mm	SS 316	2176.HP	11596
Exalto Wiper blade	600 mm	SS 316	2177.HP	11600

LD Washing jets

Washing jet with 4 nozzles for LD Wiper motors 215BD. To install the washing jet on the arm you also need the clip (2154.clip). Suitable for all LD Wiper arms only.

Pos	Description	Item no.	NEW no.
1	Clip for tubing of 2108 and 215BD arms	2154.CLIP	11448
2	Nozzle for 215BD arms	21000.326	10997
3	Washing jet, 2 nozzles for MD1 PU arms	2184	11628



LD Wiper controls for 1 wiper

To complete your wiper system, we advise you to use our switch for LD Wiper motors which offers 2-speeds and self parking. The set includes a switch and frame.

Installation dimensions 36,5 x 21 x 90 mm

Description	Suitable for	Voltage	Item no.	NEW no.
Exalto Wiper control switch LD 215BD	LD 215 BD	12/24 V	70906425.SET	12064



LD Wiper controls for max. 3 wipers

Exalto Electronic Wiper control suitable for upto 3 x LD Wiper motors. The control features 3 speed modes, intermittent, slow and fast speed, wash/wipe function and self park. The wipers can be switched in 2 groups = master motor or all motors. In operation the motors are synchronized. CE Approved.

L x W x H 115 x 115 x 30 mm

Description	Suitable for	Voltage	Item no.	NEW no.
Exalto Wiper control 12V (3)	215 BD	12 V	21591812	11509
Exalto Wiper control 24V (3)	215 BD	24 V	21591824	11510



LD Wiper controls for max. 4 wipers

Dual voltage electronic Wiper control for up to four LD wipers. Wipers can be switched in two groups: group I and group II. These groups can be controlled individually but also together. The Wiper control with flush mount panel offers one continuous speed, selfparking, three step intermittent wipe and a wipe / wash feature. In the intermittent modes, all wipers run synchronised.

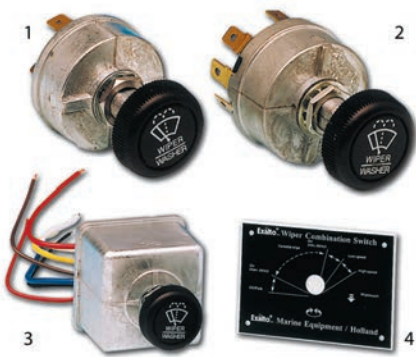
Description	Suitable for	Voltage	Item no.	NEW no.
Exalto Wiper control LD 215BD max. 4 wipers	LD 215BD	12/24 V	210604	11183



Wiper controls Retro

These switches offer two speeds, variable intermittent (2158/59 only) and self-parking controls with separate connections for pumps or solenoids giving wash/wipe facility.

Pos	Description	Suitable for	Voltage	Item no.	NEW no.
1	2-speed Wiper control for 1 wiper	Exalto Wipers	12/24 V	2134	11302
2	2-speed Wiper control for 2 wipers	Exalto Wipers	12/24 V	2135	11303
3	2-speed, intermittent Wiper control	Exalto Wipers	12 V	2158	11459
3	2-speed, intermittent Wiper control	Exalto Wipers	24 V	2159	11505
4	Panel for 2-speed intermittent switch	2158 2159		2159.01	11506



Wiper controls CT41 & CT42

These switches are micro-controller based “intelligent” switches for operating one or two Exalto Wiper motors. The switches consist of touch pads with a 45 cm connection cable. The switches offer two continuous speeds, three step intermittent, perfect self-parking due to dynamic break and a wipe/wash program. LEDs on the switch indicate the selected mode, speed and intermittent setting. The wiper switches operate with a power supply of 10 - 30V.

Installation dimensions 36,5 x 21 x 90 mm
Cable length 450 mm



Description	Suitable for	Voltage	Item no.	NEW no.
Wiper control for 1 wiper 3A	MD1, KW2	12/24 V	210341	11065
Wiper control for 2 wipers 3A	MD1 232, 233, 235	12/24 V	210342	11079
Wiper control for 2 wipers 4A (only synchronized mode)	MD1 232, 233, 235	12/24 V	210342S	11087
Wiper control for 1 wiper 6A	MD2	12/24 V	210341J	11077
Wiper control for 2 wipers 6A	MD2	12/24 V	210342J	11084
Wiper switch 12 Amp 1 wiper	HD1, HD2, KW3/ KW4	12/24 V	210341P	11078
Wiper switch 12 Amp 2 wipers	HD1, HD2	12/24 V	210342P	11085

Wiper control CT43

These switches are micro-controller based “intelligent” switches for operating three Exalto wiper motors 12/24 volt. The switches consist of 2 touch pads with a 45 cm connection cable to a control box. The first switch offers the speed functions two continuous speeds, three step intermittent, perfect self-parking due to dynamic break and a wipe/wash program. The second switch offers the function to control each wiper independently or in all movement LEDs on the switch indicate the selected mode, speed and intermittent setting. The wiper switches operate with a power supply of 10 - 30V and are rated for 12A motors.

Installation dimensions 36,5 x 21 x 90 mm per switch
Cable length 2 x 450 mm



Description	Suitable for	Voltage	Item no.	NEW no.
Wiper control for 3 wiper 12A	MD1, MD2, HD1, HD2	12/24 V	214303	11389

Wiper controls CT3N

Latest electronic multivolt wiper control for up to five Exalto Wipers. Now with a modern and sleek design and new extra features like:

- heater switch
- single sweep button
- back light dimmer (three level brightness)

Further you will find the basic features as CT2N series. Wipers can be switched individually or in any combination. The complete wiper control consists of one flush mount panel, one junction box and a 5 m connection cable to connect the panel to the junction box. The wiper control offers two continuous speeds, three step intermittent wipe and a wipe/wash feature. In all speed modes wipers run synchronized and are self-parking as standard. LED indicators on the panel indicate the selected speed setting. (Old style control panel is still available).

Description	Suitable for	Voltage	L x W	Item no.	NEW no.
Exalto Wiper control for max. 2 wipers	Exalto Wipers	12/24 V	100 x 100 mm	210321224	11051
Exalto Wiper control for max. 3 wipers	Exalto Wipers	12/24 V	100 x 100 mm	210331224	11057
Exalto Wiper control for max. 4 wipers	Exalto Wipers	12/24 V	100 x 100 mm	210341224	11070
Exalto Wiper control for max. 5 wipers	Exalto Wipers	12/24 V	100 x 100 mm	210351224	11092

Wiper controls CT3N extra panel

The Exalto Electronic Wiper control can easily turn into a dual control system by adding an extra panel. A 5 meter cable is included. (Old style control panel is still available).

Description	Suitable for	Voltage	L x W	Item no.	NEW no.
Extra Wiper control for 2 wipers	Exalto Wiper control CT3N	12/24 V	100 x 100 mm	210321224.P	on request
Extra Wiper control for 3 wipers	Exalto Wiper control CT3N	12/24 V	100 x 100 mm	210331224.P	on request
Extra Wiper control for 4 wipers	Exalto Wiper control CT3N	12/24 V	100 x 100 mm	210341224.P	on request
Extra Wiper control for 5 wipers	Exalto Wiper control CT3N	12/24 V	100 x 100 mm	210351224.P	on request



Wiper controls CT3N special

Exalto Wiper control for more than 5 wipers. For grouped system over a 5 wiper installation. This can also be programmed according to your project. All other features as per standard CT3N system. Individual projects can be programmed according to number of wipers, grouping, wash grouping or individual heater programs etc.

Description	Item no.	NEW no.
Exalto Wiper control 12/24V - 6 wipers with 3 button panel	210361224.3B	11104
Exalto Wiper control 12/24V - 6 wipers with 5 button panel	210361224.5B	11107
Exalto Wiper control 12/24V - 7 wipers with 5 button panel	210371224.5B	11109
Exalto Wiper control 12/24V - 8 wipers with 4 button panel	210381224.4B	11115



Wiper controls CPD5 LED

The CPD5 is a versatile control panel designed to manage systems with 2 to 5 wipers efficiently. It is fully compatible with our relay boxes, which must be ordered seperately. Ensuring seamless integration and optimal performance for your wiper system.

Description	Item no.	NEW no.
Exalto Wiper control panel 12/24V 2-5 wipers LED	13232	13232

Description	Item no.	NEW no.
Relay box 2w	21021224.R	11031
Relay box 3w	21031224.R	11049
Relay box 4w	21041224.R	11129
Relay box 5w	21051224.R	11176



KW2 Linked wiper systems

The Exalto KW2 Wiper system is custom-made, so in almost every situation the perfect solution can be offered. With one motor 2 arms can be driven. Main advantage of this wiper system is that the arms are easily adjustable in length. The arms have a swivelling blade clip, so in selfparking position the blade can be set parallel to the edge of the glass. The type E wiper arms are specially designed for the Exalto KW wiper systems. We advise you to use the Exalto HD blades.



Features Exalto KW:

- Easy to mount • Insulated earth return • Noiseless • Self-parking • Two speeds
- Available for bulkhead thicknesses 20, 35, 55, 75, 100 and 125 mm
- Stainless steel shafts, bolts and nuts • Self-lubricating bronze bearings
- Maximum wiping angle 100°

Max. arm length	600 mm	Driven shafts	2
Max. blade length	700 mm	Arm type	KW; E
Ø drive shaft	20 mm		

Voltage	Bulkhead thickness	Torque	Power	Item no.	Availability
12 V	20 mm	23 Nm	36 W	XA2123.02012	on request
12 V	35 mm	23 Nm	36 W	XA2123.03512	on request
12 V	55 mm	23 Nm	36 W	XA2123.05512	on request
12 V	75 mm	23 Nm	36 W	XA2123.07512	on request
12 V	100 mm	23 Nm	36 W	XA2123.10012	on request
12 V	125 mm	23 Nm	36 W	XA2123.12512	on request
24 V	20 mm	25 Nm	36 W	XA2123.02024	on request
24 V	35 mm	25 Nm	36 W	XA2123.03524	on request
24 V	55 mm	25 Nm	36 W	XA2123.05524	on request
24 V	75 mm	25 Nm	36 W	XA2123.07524	on request
24 V	100 mm	25 Nm	36 W	XA2123.10024	on request
24 V	125 mm	25 Nm	36 W	XA2123.12524	on request
non std.				2181.04	on request

KW3 Linked wiper systems

The Exalto KW Wiper system is custom-made, so in almost every situation the perfect solution can be offered. With one motor 3 arms can be driven. Main advantage of this wiper system is that the arms are easily adjustable in length. The arms have a swivelling blade clip, so in selfparking position the blade can be set parallel to the edge of the glass. The type E wiper arms are specially designed for the Exalto KW wiper systems. We advise you to use the Exalto HD blades.



Features Exalto KW:

- Easy to mount • Insulated earth return • Noiseless • Self-parking • Two speeds
- Available for bulkhead thicknesses 20, 35, 55, 75, 100 and 125 mm
- Stainless steel shafts, bolts and nuts • Self-lubricating bronze bearings
- Maximum wiping angle 100°

Max. arm length	600 mm	Driven shafts	3
Max. blade length	700 mm	Arm type	KW; E
Ø drive shaft	20 mm		

Voltage	Bulkhead thickness	Torque	Power	Item no.	Availability
12 V	20 mm	55 Nm	30 W	2150.02012	on request
12 V	35 mm	55 Nm	30 W	2150.03512	on request
12 V	55 mm	55 Nm	30 W	2150.05512	on request
12 V	75 mm	55 Nm	30 W	2150.07512	on request
12 V	100 mm	55 Nm	30 W	2150.10012	on request
12 V	125 mm	55 Nm	30 W	2150.12512	on request
24 V	20 mm	55 Nm	30 W	2150.02024	on request
24 V	35 mm	55 Nm	30 W	2150.03524	on request
24 V	55 mm	55 Nm	30 W	2150.05524	on request
24 V	75 mm	55 Nm	30 W	2150.07524	on request
24 V	100 mm	55 Nm	30 W	2150.10024	on request
24 V	125 mm	55 Nm	30 W	2150.12524	on request

KW4 Linked wiper systems

The Exalto KW Wiper system is custom-made, so in almost every situation the perfect solution can be offered. With one motor 4 arms can be driven. Main advantage of this wiper system is that the arms are easily adjustable in length. The arms have a swivelling blade clip, so in selfparking position the blade can be set parallel to the edge of the glass. The type E wiper arms are specially designed for the Exalto KW wiper systems. We advise you to use the Exalto HD blades.

Features Exalto KW:

- Easy to mount • Insulated earth return • Noiseless • Self-parking • Two speeds
- Available for bulkhead thicknesses 20, 35, 55, 75, 100 and 125 mm
- Stainless steel shafts, bolts and nuts • Self-lubricating bronze bearings
- Maximum wiping angle 100°

Max. arm length	750 mm	Driven shafts	4
Max. blade length	750 mm	Arm type	KW; E
Ø drive shaft	20 mm		

Voltage	Bulkhead thickness	Torque	Power	Item no.	Availability
24 V	20 mm	85 Nm	77 W	2180.02024	on request
24 V	35 mm	85 Nm	77 W	2180.03524	on request
24 V	55 mm	85 Nm	77 W	2180.05524	on request
24 V	75 mm	85 Nm	77 W	2180.07524	on request
24 V	100 mm	85 Nm	77 W	2180.10024	on request
24 V	125 mm	85 Nm	77 W	2180.12524	on request

KW Wiper arms E

The E-arms are specially designed for the Exalto KW linked and single shaft (e.g. 223BDS) wiper systems. They are made of stainless steel and have a black coating. These pendulum arms have a stepless swivelling blade clip to allow the blade to be positioned parallel to the edge of the glass and are adjustable in length.

Description	Nr. of springs	Blade length	Arm length	Item no.	NEW no.
Single adjustable arm, Type KW; E	1	250 - 750 mm	380-510 mm	2103	11038
Single adjustable arm, Type KW; E	1	250 - 750 mm	520-650 mm	2106	11179
Single adjustable arm, Type KW; E	1	250 - 750 mm	660-790 mm	2109	11196



KW Wiper blades SS 316

Exalto Wiper blades are manufactured of stainless steel 316. To prevent reflection, a black coating is applied on all metal parts. The Heavy Duty (HD) blades have a special profile that reduces lift. This makes them perfect for applications where a little more pressure is required. The HD blades are also more screen friendly due to the use of plastic lower bridges. In case of damaged rubber, these plastic bridges will not damage the screen. Keep in mind that every motor has a maximum blade length when choosing your wiper blade.

Pos	Description	Blade length	Item no.	NEW no.
1	Exalto Wiper blade	250 mm	2170.HP	11575
1	Exalto Wiper blade	300 mm	2171.HP	11576
1	Exalto Wiper blade	350 mm	2172.HP	11577
1	Exalto Wiper blade	400 mm	2173.HP	11578
1	Exalto Wiper blade	450 mm	2174.HP	11579
1	Exalto Wiper blade	500 mm	2175.HP	11583
1	Exalto Wiper blade	550 mm	2176.HP	11596
1	Exalto Wiper blade	600 mm	2177.HP	11600
1	Exalto Wiper blade	650 mm	2178.HP	11616
1	Exalto Wiper blade	700 mm	2179.HP	11618
1	Exalto Wiper blade	750 mm	2195.HP	11656
2	Exalto Wiper blade HD	610 mm	216120	11515
2	Exalto Wiper blade HD	650 mm	216121	11522
2	Exalto Wiper blade HD	700 mm	216122	11524
2	Exalto Wiper blade HD	750 mm	216123	11527
3	Exalto Wiper blade HD polished	610 mm	216120P	11521
3	Exalto Wiper blade HD polished	650 mm	216121P	11523
3	Exalto Wiper blade HD polished	700 mm	216122P	11526
3	Exalto Wiper blade HD polished	750 mm	216123P	11528

KW Washing jets E

These washing jets can be fitted on Exalto pantograph arms PU and also on the pendulum E-type arm. With most washing jets the angle under which the water is sprayed on the window, can be adjusted.

Description	Item no.	NEW no.
Washing jet, 6 nozzles for PU and E-arms	2110.cpl	11205



KW Wiper controls Retro

These switches offer two speeds and self-parking controls with separate connections for pumps or solenoids giving wash/wipe facility.

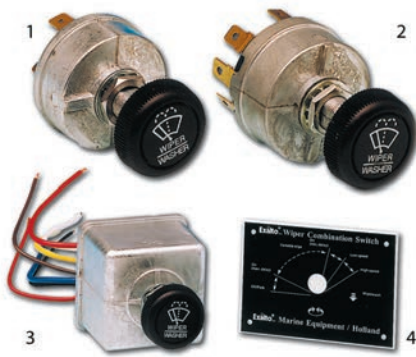
Pos	Description	Suitable for	Voltage	Item no.	NEW no.
1	2-speed Wiper control for 1 wiper	Exalto Wipers	12/24 V	2134	11302
2	2-speed Wiper control for 2 wipers	Exalto Wipers	12/24 V	2135	11303
3	2-speed, intermittend Wiper control	Exalto Wipers	12 V	2158	11459
3	2-speed, intermittent Wiper control	Exalto Wipers	24 V	2159	11505
4	Panel for 2-speed in- termittent switch	2158 2159		2159.01	11506

KW Wiper controls CT41

These switches are micro-controller based “intelligent” switches for operating one or two Exalto Wiper motors. The switches consist of touch pads with a 45 cm connection cable. The switches offer two continuous speeds, three step intermittent, perfect self-parking due to dynamic break and a wipe/wash program. LEDs on the switch indicate the selected mode, speed and intermittent setting. The wiper switches operate with a power supply of 10 - 30V.

Installation dimensions 36,5 x 21 x 90 mm
Cable length 450 mm

Description	Suitable for	Voltage	Item no.	NEW no.
Wiper control for 1 wiper 6A	MD1, MD2, KW2	12/24 V	210341J	11077
Wiper switch 12 Amp 1 wiper	HD1, HD2, KW3/ KW4	12/24 V	210341P	11078



Fittings for high pressure systems

For use with on board pressure supply.

Pos	Description	B.S.P. x Ø mm	Item no.	NEW no.
1	Elbow 6 x 6 mm		2129	11274
2	Bulkhead fitting		2130	11275
3	T-coupling		2166	11569
4	Elbow connector		2131	11276
5	Straight coupling	1/8 B.S.P. x 6 inch x mm	2118	11231
6	Straight coupling	1/4 B.S.P. x 6 inch x mm	2119	11237
	Plasticized tubing (grey)		2157.N	11455
7	High pressure PVC bulkhead fitting for washing jet		2180	11619
8	High pressure SS 316 bulkhead fitting for washing jet		2181	11624
9	Non return valve 6x6mm tubing		2128	11272
	Clear PVC tubing 4x6mm		2154. REH	11450



Fittings for low pressure systems

For use with screen wash reservoirs.

Pos	Description	B.S.P. x Ø mm	Item no.	NEW no.
1	Bulkhead connector 90° for tubing		2153	11444
2	End coupling female	1/4 B.S.P. x 6 inch x mm	2120	11239
3	T-coupling		2156	11451
4	Straight coupling		2150	11414
5	Straight coupling	1/8 B.S.P. x 6 inch x mm	2116	11229
6	Straight coupling	1/4 B.S.P. x 6 inch x mm	2117	11230
7	Flexible rubber tubing black		2154.N	11449
-	Non-return valve for rubber hose		2121.N	11241
-	Plasticized tubing (grey)		2157.N	11455
	Bulkhead fitting 90° (max. wall thickness 5mm)		2122	11242
	Bulkhead fitting 90° (max. wall thickness 50mm)		2122.715.N	11244



Bulkhead mount washing jets

These washing jets can be mounted on the deck or skin of the vessel. With most washing jets the angle under which the water is sprayed on the window, can be adjusted. These washing jets are suitable for all wiper system installations.

Pos	Description	Voltage	Item no.	NEW no.
1	Electrical heated spray nozzle 24V ø 0.6mm	24 V	2148	11407
1	Electrical heated spray nozzle 220V ø 0.6mm	230 V	2149	11410
2	Fixed washing jet (bulkhead)		2161	11511
	Fixed washing jet (bulkhead) Chrome		2197	11660
	Bulkhead fitting Chrome		2198	12930

Arm mount type washing jets

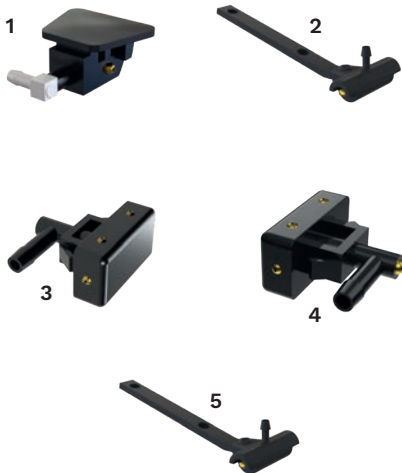
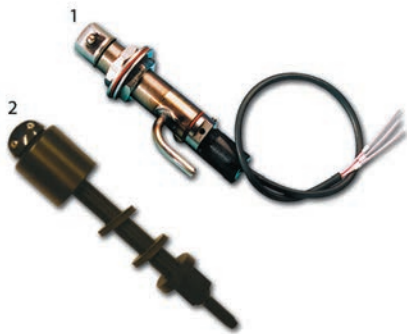
These washing jets can be fitted on Exalto pantograph arms PU, P10 and P12. With most washing jets the angle under which the water is sprayed on the window, can be adjusted.

Pos	Description	Item no.	NEW no.
1	Washing jet, 2 nozzles for PU arms	2184	11628
2	Washing jet, 6 nozzles for PU and E-arms	2110.cpl	11205
3	Washing jet, 4 nozzles for P10 & P12 right	2185	11631
4	Washing jet 4 nozzles for P10 & P12 left	2185L	11634
5	Washing jet, 6 nozzles for P10 & P12	2111.cpl	11207

Washing kits

We have assembled a comprehensive Marine Wash Kit. This all-in-one package includes essential fittings and nozzles, ensuring a seamless connection for your washing system!

Description	Item no.	NEW no.
LD - Wash kit		on request
MD - Wash kit		on request
HD - Wash kit		on request



Reservoirs with pump

For your wash system you can use the water from a stand alone reservoir. As soon as the integral pumps receive a signal via the wiper control, it will open and provide water for the wash/wipe program.

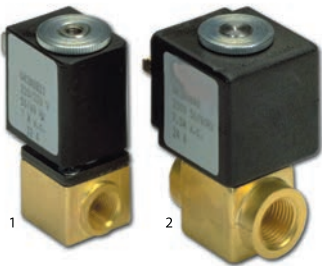
Description	Voltage	Item no.	NEW no.
Reservoir 8,0 ltr with 1 pump	12 V		13463
Reservoir 8,0 ltr with 3 pumps	12 V	PT0701045	12311
Reservoir 1,2 ltr with 1 pump	12 V	2100. PT0701080	10955
Reservoir 8,0 ltr with 3 pumps	24 V	PT0701044	12312
Reservoir 5,0 ltr with 1 pump	24 V	2100. PT0701021	10954
Reservoir 1,2 ltr with 1 pump	24 V	2100.PT- 0701081	10956
Reservoir 5,7 ltr with 1 pump	24 V	2100.PT- 3014	10966
Reservoir 8,0 ltr with 1 pump threaded	24 V	2100.PT- 2875	10958
Reservoir 8,0 ltr with 2 pumps	24 V	2194.10	11654
Reservoir 8,0 ltr with 2 pumps	12 V	PT0701042	12309
Reservoir 8,0 ltr with 2 pumps	24 V	PT0701043	12310
Reservoir 20,0 ltr with 2 pumps	24 V		13431
Reservoir 27 ltr with 3 pumps	24 V	2100. zxa163-3	10988
Connectionset for 2192		2192.2169	11643
Connectionset for 2193 and 2194		2193.con	11646



Solenoid valves

For your wash system you can use the water from your on board pressure supply. You only need a solenoid valve. As soon as the valve gets a signal via the wiper control, it will open to provide water for the wipe/wash program.

Pos	Description	Voltage	Connec- tions	Item no.	NEW no.
1	Solenoid valve 1/8 12V	12 V	1/8" B.S.P.	2137.N	13376
-	Solenoid valve 1/8 24V	24 V	1/8" B.S.P.	2138.N	13377
2	Solenoid valve 1/4 12V	12 V	1/4" B.S.P.	2142.N	11375
-	Solenoid valve 1/4 24V	24 V	1/4" B.S.P.	2143.N	11388



Straight Line HD DW80

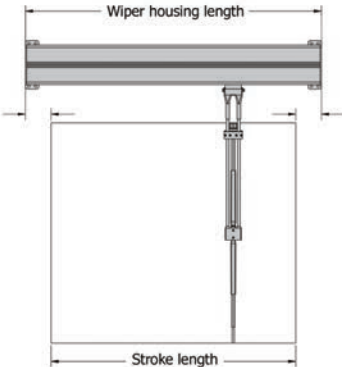
The Straight Line Wiper system is made to meet your specific needs. With this system it is possible to wipe 90% of your window. The Straight Line wiper is suitable for windows from 500 mm upto 3000 mm. It is available as single or twin system (one or two arms). The system works perfectly in a temperature range of -40°C and +50°C. The motor is mounted externally and integral to the systems casing, made of seawater resistant anodised aluminium in white powder coating. The arm is adjustable in length and also the springpressure is adjustable. The control can be configured to control either one or multiple groups of wipers. Voltages available are 24VDC, 110VAC and 230VAC. Also various control systems are available. Please contact Exalto sales for more information.



Description	Item no.	NEW no.
Made to order, please contact Exalto sales	DW80000001	12996

Straight Line arms

The Wiper arms for the Straight Line wipers are made of stainless steel with black coating and are supplied in full length. The arms are supplied with spring tension adjustment to all optimum wiper blade performance on the window. They are available in 2 models; one for blades from 500 upto 800 mm and one for blades from 900 upto 1000 mm.



Description	Item no.	NEW no.
Wiper arm for 500-800 mm blades	DW81000007	12263
Wiper arm for 900-1000 mm blades	DW81000008	12264

Straight Line blades

The Straight Line Wiper blades are designed to fit the Straight Line arms. The blades have a black coating finish.

Description	Blade length	Suitable for	Item no.	NEW no.
Exalto Wiper blade SL	500 mm	SL	DW10500500	12169
Exalto Wiper blade SL	600 mm	SL	DW10500600	12170
Exalto Wiper blade SL	700 mm	SL	DW10500700	12171
Exalto Wiper blade SL	800 mm	SL	DW10500800	12172
Exalto Wiper blade SL	900 mm	SL	DW10500900	12983
Exalto Wiper blade SL	1000 mm	SL	DW10501000	12984

Straight Line cables

This cable is necessary to connect to the wiper motor and is supplied complete with IP66 plug connector.

Description	Item no.	NEW no.
Cable 3m with connector	DW81000203	12272
Cable 5m with connector	DW81000205	12273
Cable 10m with connector	DW81000210	12274

Wiper control CT3N for 24V Straight Line systems

Latest electronic multivolt Wiper control for all 24V Straight Line systems. Now with a modern and sleek design and new extra features like:

- heater switch
- single sweep button
- back light dimmer (three colour options and dimming facility)

Wipers can be switched individually or in any combination. The complete wiper control consists of one flush mount panel, 2 relay boxes and 5 meter CAT5 connection cables to connect the panel and the relay boxes. The wiper control offers two continuous speeds, three intermittent modes and a wipe/wash feature. With this control the system will not be synchronized due to different stroke Straight Line wipers being used on one install. Systems can also be generated for greater numbers of Straight Line wipers by either multiple control pan or grouped operation.



Description	Suitable for	Voltage	L x W	Item no.	Availability
Exalto Wiper control for max. 2 wipers	SL Wipers	24 V	100 x 100 mm	210321224.2SL	on request
Exalto Wiper control for max. 3 wipers	SL Wipers	24 V	100 x 100 mm	210331224.3SL	11059
Exalto Wiper control for max. 4 wipers	SL Wipers	24 V	100 x 100 mm	210341224.4SL	on request
Exalto Wiper control for max. 5 wipers	SL Wipers	24 V	100 x 100 mm	210351224.5SL	11095

Seaview 300

The CVS is totally different from the other wipers. It is a clear view screen. This means that the front part of the CVS rotates with a high speed. By centrifugal force the area stays free from rain and spray. Comes with clear assembly instruction, a template for cutting the glass and an assembly tool. Optional is the control panel (surface or flush mount).

Voltage	Built-in heating	Power	Item no.	Availability
12 V	Yes	60 W	1803010	on request
12 V	No	60 W	1803020	on request
24 V	Yes	60 W	1803030	on request
24 V	No	60 W	1803040	on request
110 V	Yes	60 W	1803070	on request
110 V	No	60 W	1803080	on request
230 V	Yes	60 W	1803090	on request

Seaview wiper control

Switch for Clearview screen. The controlpanel is available as a surface mount box or flush mount panel.

Description	Suitable for	Power	Item no.	Availability
Control box for CVS 12V	12 V		1815012	on request
Control box for CVS 24V	24 V	60 W	1815024	on request
Control box for CVS 24V	24 V	120 W	1815025	on request
Control box for CVS 110V	110 V		1815110	on request
Control box for CVS 220V	230 V		1815220	on request
Control panel for CVS 12V	12 V		1815112	on request
Control panel for CVS 24V	24 V	60 W	1815124	on request
Control panel for CVS 24V	24 V	120 W	1815125	on request
Control panel for CVS 110V	110 V		1815111	on request
Control panel for CVS 220V	230 V		1815221	on request



Seaview 350

The CVS is totally different from the other wipers. It is a clear view screen. This means that the front part of the CVS rotates with a high speed. By centrifugal force the area stays free from rain and spray. Comes with clear assembly instruction, a template for cutting the glass and an assembly tool. Optional is the control panel (surface or flush mount).

Voltage	Built-in heating	Power	Item no.	Availability
12 V	Yes	60 W	1803510	on request
12 V	No	60 W	1803520	on request
24 V	Yes	60 W	1803530	on request
24 V	No	60 W	1803540	on request
110 V	Yes	60 W	1803570	on request
110 V	No	60 W	1803580	on request
230 V	Yes	60 W	1803590	on request
230 V	No	60 W	1803600	on request
12 V	Yes	120 W	1803610	on request
12 V	No	120 W	1803620	on request
24 V	Yes	120 W	1803630	on request
24 V	No	120 W	1803630	on request
110 V	Yes	120 W	1803670	on request
110 V	No	120 W	1803680	on request
230 V	Yes	120 W	1803690	on request
230 V	No	120 W	1803700	on request

Seaview 400

The CVS is totally different from the other wipers. It is a clear view screen. This means that the front part of the CVS rotates with a high speed. By centrifugal force the area stays free from rain and spray. Comes with clear assembly instruction, a template for cutting the glass and an assembly tool. Optional is the control panel (surface or flush mount).

Voltage	Built-in heating	Power	Item no.	Availability
12 V	Yes	120 W	1804010	on request
12 V	No	120 W	1804020	on request
24 V	Yes	120 W	1804030	on request
24 V	No	120 W	1804040	on request
110 V	Yes	120 W	1804070	on request
110 V	No	120 W	1804080	on request
230 V	Yes	120 W	1804090	on request
230 V	No	120 W	1804100	on request



Heavy Duty Wiper Systems

HD2 Wiper motors 2120BS	4
HD2 Wiper motors 285BS	4
HD2 Wiper arms P12	5
HD1 Wiper motors 255BS	5
HD1 Wiper motor cover 255BS	6
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MD1 Wiper motors 223KGC	15
MD1 Wiper motors 223KGO	15
MD1 Wiper motors 223BS	16
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- Fittings for low pressure
- Bulkhead mount washing jets
- Arm mount type washing jets
- Washing kits

Reservoirs and Solenoid Valves

- Reservoirs with pumps
- Solenoid valves

Straight Line Heavy Duty

- Straight Line HD DW80
- Straight Line arms
- Straight Line blades
- Straight Line cables
- Wiper control CT3N for 24V Straight Line systems

Seaview Clear Viewscreen

- Seaview 300
- Seaview wiper control
- Seaview 350
- Seaview 400

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