

OPTIMUM VIEWING RECOMMENDATIONS

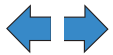
(Text on this page is oversized)



ON SCREEN VIEWING

Take a moment to familiarize yourself with the **Adobe software viewing options and icons at top of your screen.** Use the tools referenced below to quickly review pages and improve readability of on screen text.

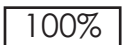
1. **Click** on View (drop down box will appear)
2. **Scroll Down** to Page Display ►
3. **Click** on Two-UP



Move to next or previous page, click appropriate arrow.



Increase /decrease size of entire page, click on - / + button
- or -



type in a new %, for example 125% would increase the view



Increase a portion of the page, click on the magnifying glass, then click on area of page to magnify



PRINT

Text viewed on screen may be difficult to read. The pages are set up for standard 8.5 x 11" sheet of paper. If you print the page, text will likely be larger than it appears on screen.

TIP Select **Fit To Page** to avoid omitting data.



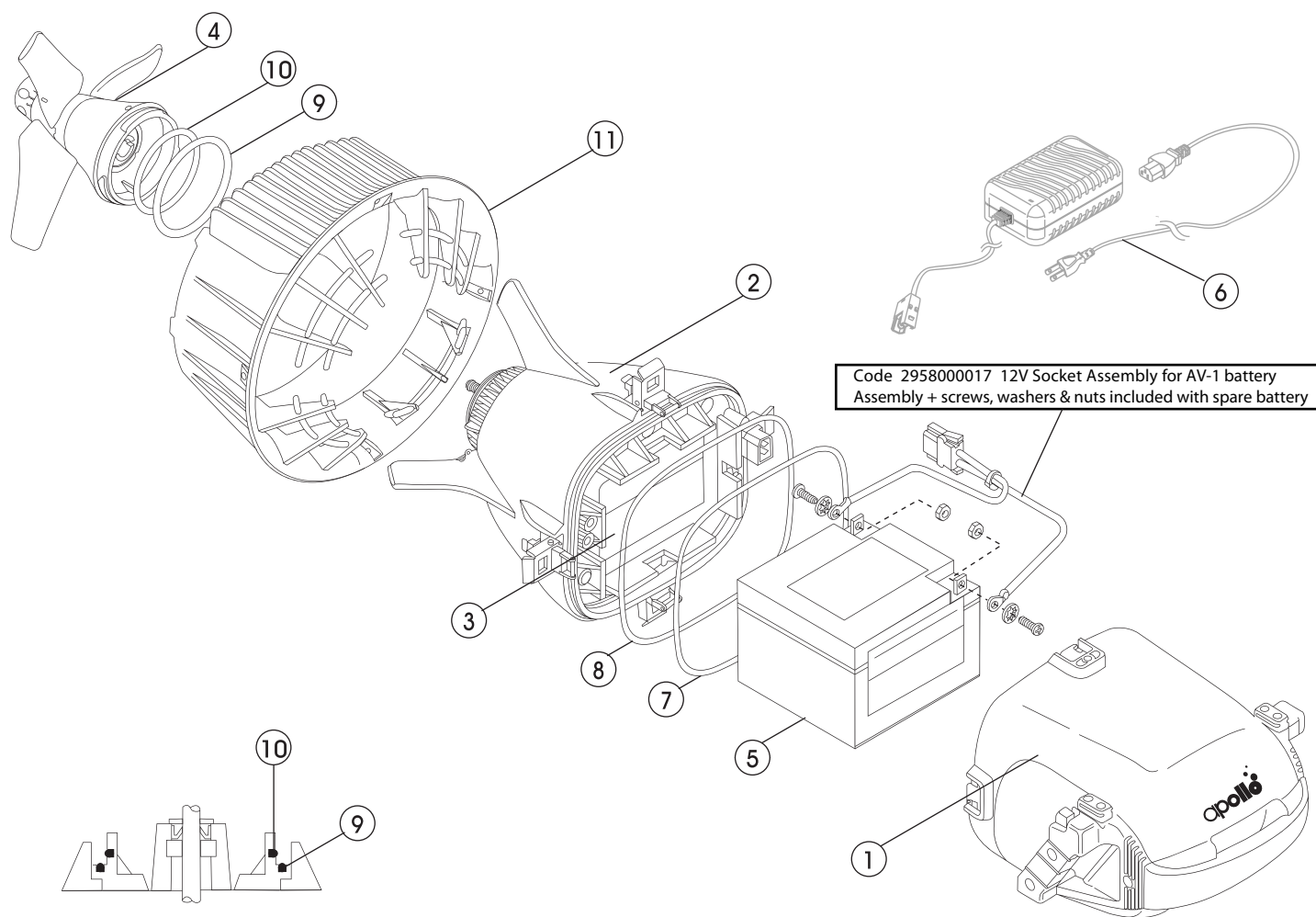
SCHEMATICS: AV-1 & SADDLE

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You may also want to download the following:

- ▶ Service Seminar AV-1
- ▶ Service Slideshows AV-1
- ▶ Schematics: AV-2, AV-2 Evolution & AV-2 Classic

AV-1



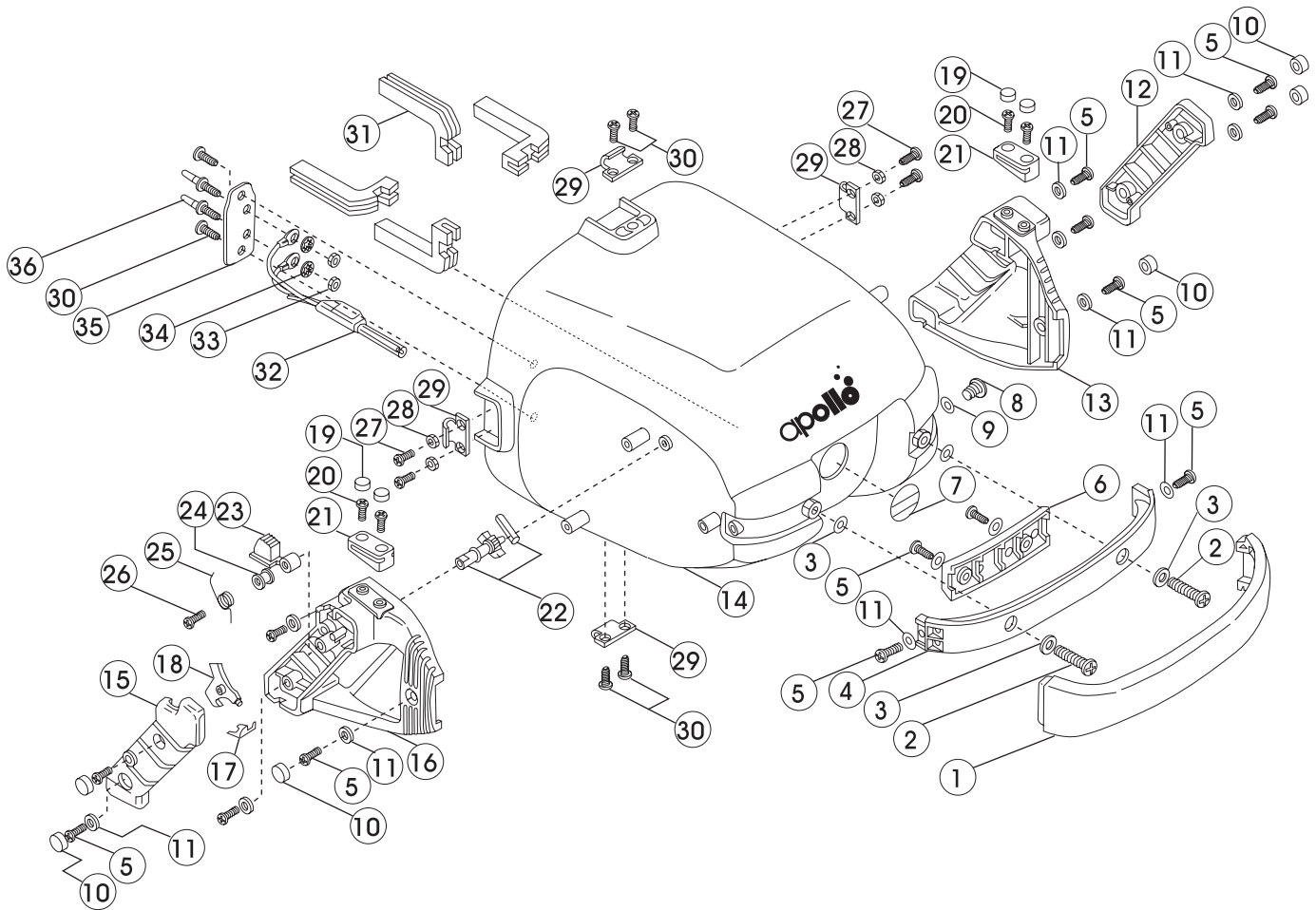
Apollo Sports Co., Ltd, OEM, Japan produced the AV-1 underwater vehicle. It was sold domestically and abroad under the same name. In some areas, including the USA, it was sold through the Dacor Corporation as the SeaSprint. Apollo USA distribution was established in 1990, at which time the same vehicle was introduced with original model name of Apollo AV-1. All parts and accessories offered for the AV-1 are compatible with the Dacor units.

IMPORTANT: Although the exterior is very similar looking and some parts are shared with the current Apollo DPV's (AV2 24V Series), they are very different units. Always verify that you are using the appropriate schematic to determine parts required for your unit.

Charger: Upon retirement of the AV-1 series, Apollo ceased production of 12V charger originally sold with vehicle. A compatible charger (shown above) is now available.

No.	Code	Description
1	2952035001	FRONT COVER ASSY (YL) FOR AV-1
	2952055001	FRONT COVER ASSY (BL) FOR AV-1
2	2952035002	BODY HOUSING ASSY (YL) FOR AV-1 (ASSY NO LONGER AVAILABLE)
	2952055002	BODY HOUSING ASSY (BL) FOR AV-1 (ASSY NO LONGER AVAILABLE)
3	2952080002	CENTER BULKHEAD ASSY FOR AV-1
4	2952080009	PROPELLER ASSY FOR AV-1
5	1958100007**	SPARE BATTERY FOR AV-1(12V) - **USA Use Code 1958200001
6	2958100013*	BATTERY CHARGER FOR AV-1(12V) - *USA Use Code 2958100017
7	3993000177	O-RING BODY ORANGE(RED)
8	3993000270	O-RING BODY BLACK
9	3993000239	PROPELLER AXIS O-RING (LARGE)
10	3993000236	PROPELLER AXIS O-RING (SMALL)
11	3952035003	PROPELLER COVER (YL)

AV-1 Head Assembly

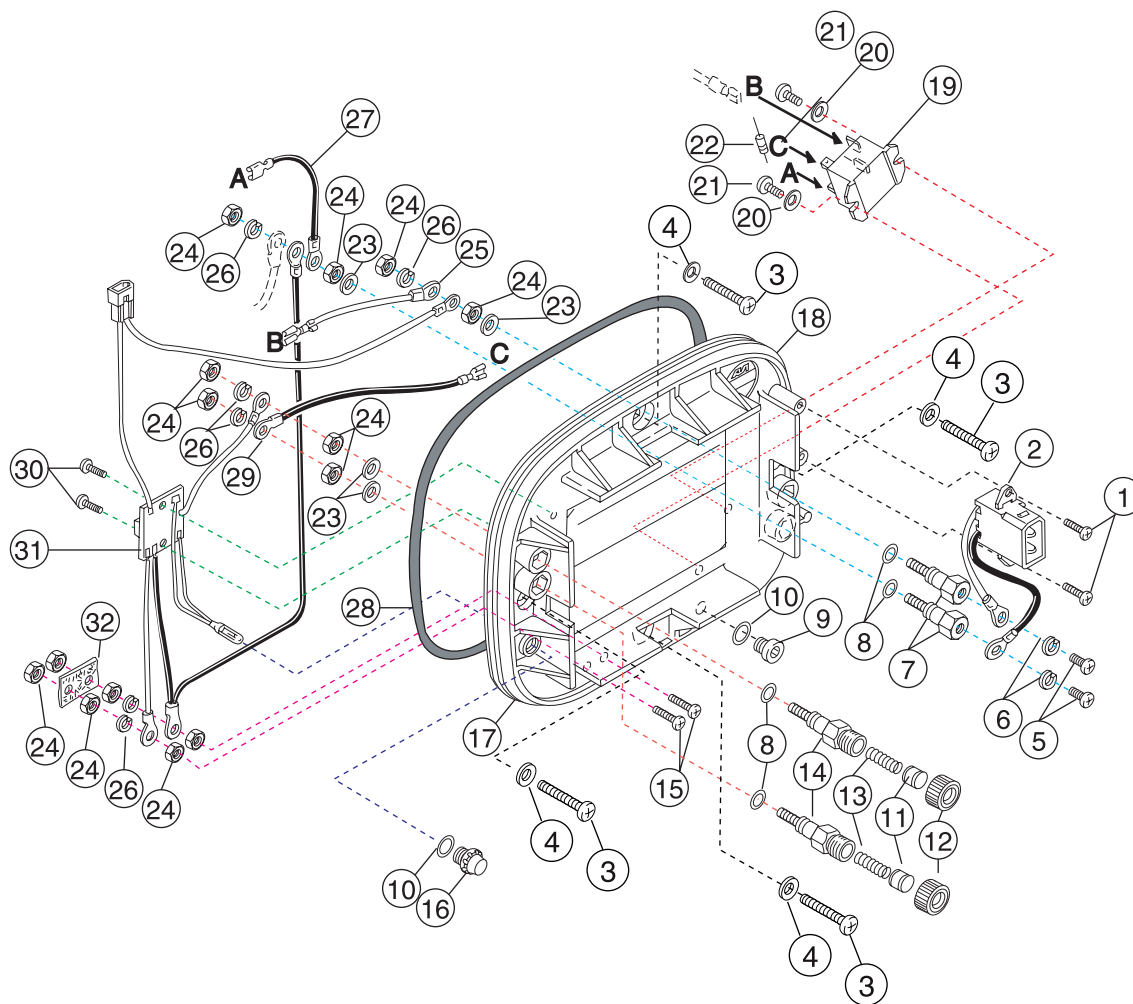


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No.	Code	Description	No.	Code	Description
1-36	2952035001	FRONT COVER ASSY (YL) FOR AV-1 SCOOTER	19	3952080031	SCREW COVER (ACCY SHOE)
1	3953080000	BUMPER	20	3990100501	0130-82 SCREW RETAINER PLT (M3X12 TP)
2	3990100507	0130-65 SCREW (SUS304 M5X30)	21	3952080030	ACCESSORY SHOE (PBT)
3	3990100012	WASHER M5 SUS	22	3951900001	MAGNET SWITCH ASSY
4	3952080032	CARRYING HANDLE FOR	23	3952035000	SWITCH BUTTON FOR AV-1
5	3990100504	SCREW M4X16X7 TP	24	3950004006	SWITCH SLEEVE
6	3952080033	CARRYING HANDLE COVER FOR	25	3951200000	SWITCH SPRING FOR AV-1
7	---	NUMBER SEAL (NOT FOR SALE)	26	3990100500	0130-69 SW SCREW (M2.6X15X4.6 TP)
8	3100101101	PLUG (A) : 3/8 FOR L.P.	27	3990100601	SCREW SUS304 M3.5X10 (LEFT/RIGHT HOOKS)
9	3993592011	O-RING ARP-011/HS75	28	3990100605	CORRUGATED SPACER (LEFT/RIGHT HOOKS)
10	3952080007	COVER SCREW (ABS) (GRIPS)	29	3951100103	CLAMP (LOCK) HOOK
11	3990100011	WASHER M4 SUS304 4.3X8	30	3990100503	TRUSS SCREW (SUS 304 M3.5X8) (TOP/BOTTOM HOOKS)
12	3952080023	COVER GRIP LEFT (ABS)	31	3953080001	BATTERY HOLDER (AVD063) FOR AV-1 SCOOTER
13	3952080010	GRIP LEFT (ABS)	32	2958000000	REED SWITCH ASSY
14	3952035001	HEAD COVER YL FOR AV-1	33	3990100510	0150-53 NUT/HEX BS M4P-0.7
15	3952080025	COVER GRIP RIGHT (ABS)	34	3990100021	WASHER SUS304 M4
16	3952080024	GRIP RIGHT (ABS) FOR AV-1	35	3958025000	SWITCH PLUG BOARD /AV-1 (AVD123)
17	3951104014	LOCKING LEVER SPRING	36	3950004001	TERMINAL PIN C3601
18	3952045000	LOCKING LEVER FOR AV-1			

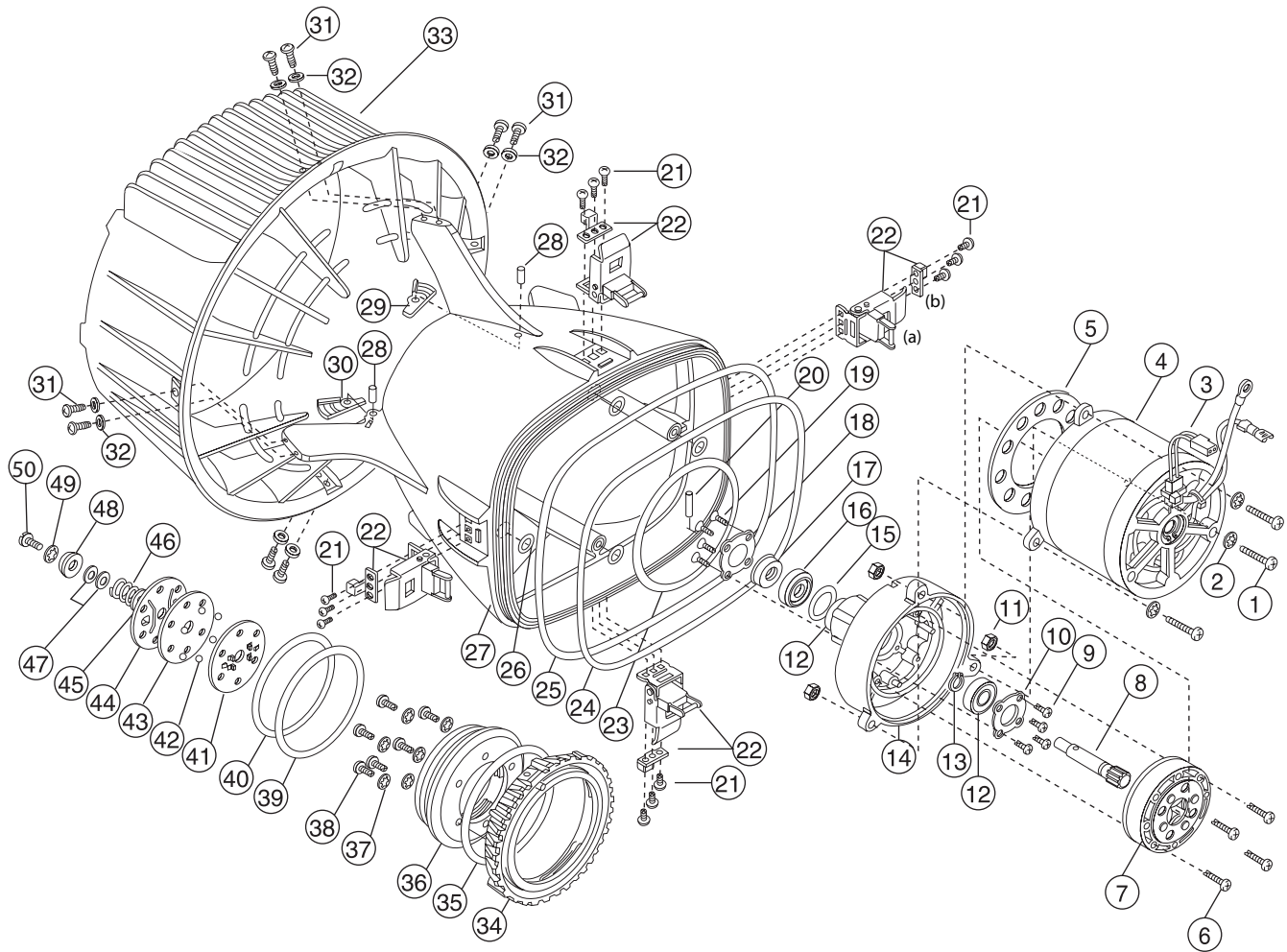
AV-1 Bulkhead Assembly



All parts and accessories offered for the AV-1 are compatible with the Dacor units. **IMPORTANT:** Although the exterior is very similar looking and some parts are shared with the current Apollo DPV's (AV2 24V Series), they are very different units. Always verify that you are using the appropriate schematic to determine parts required for your unit.

No.	Code	Description	No.	Code	Description
1 - 32	2952080002	CENTER BULKHEAD ASSY FOR AV-1 SCOOTER	17	3952080009	BULKHEAD PLATE FOR AV-1
1	3990100100	SCREW (SUS304 M3X10)	18	----	NUMBER SEAL (NOT FOR SALE)
2	2958000006	12V BATTERY PLUG ASSY (B/H) FOR AV-1 SCOOTER	19	2958100015	POWER RELAY ASSY FOR AV-1&2 VF12HU-UL (includes No.25/B)
3	3990100507	0130-65 SCREW (SUS304 M5X30)	20	3990100011	WASHER M4 SUS304 4.3X8
4	3990100012	WASHER M5 SUS	21	3990100030	SCREW SUS304 M4X12
5	3990100508	0130-78 SCREW (SUS304 M4X6X7)	22	3998000015	DIODE (NEC IS-955) FOR AV-1&2
6	3990500012	0120-77 WASHER/SPRING PBSP M4	23	3990100011	WASHER M4 SUS304 4.3X
7	3950004005	BATTERY TERMINAL SHAFT(C3604 AVD112)	24	3990100510	0150-53 NUT/HEX B5 M4P-0.7
8	3993080008	TERMINAL O-RING (A5568-008)	25	2958000001	TERMINAL POWER RELAY WIRE B
9	3100101101	PLUG (A) : 3/8 FOR L.P.	26	3990500012	0120-77 WASHER/SPRING PBSP M4
10	3993592011	O-RING ARP-011/H575	27	2958000003	POWER RELAY WIRE A (-) (AWG24 BK L120)
11	3950004003	SOCKET SLEEVE (C3604 AVD116)	28	3993000268	O-RING BODY HOUSING
12	3950004004	SOCKET CAP C3604(AVD117)	29	2958000002	POWER RELAY WIRE C (+)
13	3951200001	SOCKET SPRING (SUS304 AVD115)	30	3990100100	SCREW (SUS304 M3X10)
14	3950004002	SHAFT THD'D TERMINAL	31	2958000009	WATER LEAK SENSOR ASSY FOR AV-1 SCOOTER
15	3990100505	SCREW (SUS304 M4X22)	32	3992280011	NYLON WEBBING FOR WATER LEAK SENSOR
16	3952015030	SENSOR LAMP COVER	--	2958000017	12V SOCKET ASSY FOR AV-1 BATTERY (NOT SHOWN, SEE P.3)

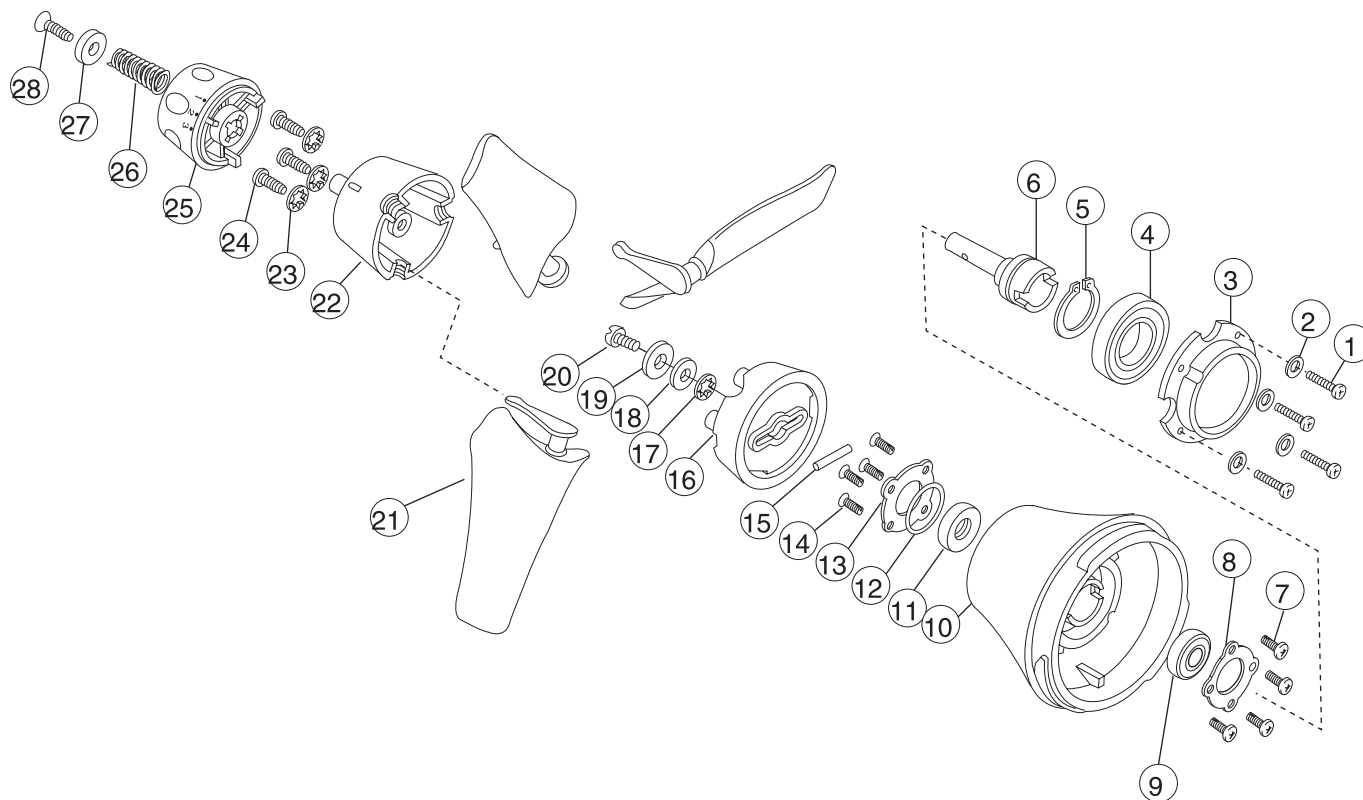
AV-1 Body Assembly



All parts and accessories offered for the AV-1 are compatible with the Dacor units. **IMPORTANT:** Although the exterior is very similar looking and some parts are shared with the current Apollo DPV's (AV2 24V Series), they are very different units. Always verify that you are using the appropriate schematic to determine parts required for your unit. Upon retirement of AV1, the production of 12V motor ended. The motor and body housing assy, which includes this part, are no longer available.

No.	Code	Description	No.	Code	Description
	1-27 & 34-50	BODY HOUSING ASSY FOR AV-1 NOT AVAILABLE	25	3993000270	O-RING BODY BLACK
1	3990100505	SCREW BODY ASSY(SUS304 M4X22)	26	3993080009	O-RING AS568-010
2	3990100021	WASHER SUS304 M4	27	3952035002	BODY HOUSING (YELLOW)
3	3998000110	THERMAL PROTECTOR ASSY FOR AV-1	28	3990100080	CLAMP LOCK PIN(SUS304 3MX8)
4	2950900000	MOTOR ASSY FOR AV-1 SCOOTER (12V/180W) NOT AVAILABLE	29	3952080006	CLAMP RING L(ABS AVD027)
5	3951108001	GEAR PLATE FOR AV-1 SCOOTER	30	3952080005	CLAMP RING R(ABS AVD027)
6	3990100506	SCREW (M4X30X7 TP)	31	3990100504	SCREW M4X16X7 TP
7	3995090001	GEAR ASSEMBLY	32	3990100011	WASHER M4 SUS304 4.3X8
8	3950000005	CLUTCH AXLE	33	3952035003	PROPELLER COVER (YL)
9	3990100501	0130-82 SCREW RETAINER PLT (M3X12 TP)	34	3952080003	CLAMP RING (PBT G30 AVC119)
10	3951100001	BEARING RETAINER (SUS304 AVC015)	35	3993000153	O-RING GEAR CASE OUTER (AS568-235)
11	3990100520	0150-54 NUT/HEX M4 MOTOR ASSY	36	3952080001	GEAR CASE RETAINER
12	3990200001	BEARING 6000HZ 26OD (NSK)(GRADE 0)	37	3990100021	WASHER SUS304 M4
13	3990100022	RETAINING RING C CLIP FOR CLUTCH	38	3990100504	SCREW M4X16X7 TP
14	3952080002	GEAR CASE (PBT G30 AVC119)	39	3993000239	PROPELLER AXIS O-RING (LARGE)
15	3993000120	O-RING SEAL(AS568-120 HS-50)	40	3993000236	PROPELLER AXIS O-RING (SMALL)
16	3953000000	SEAL HOLDER/(C3604 AVC013)	41	3951100002	CLUTCH PLATE A (SUS304)
17	3993900001	0513-24 ROTATION SEAL L	42	3990100029	BALL BEARING M5 (SUS304)
18	3951100005	SEAL RETAINER(B)(SUS304AVC-012B)	43	3951100003	CLUTCH PLATE B (SUS304)
19	3990100502	SCREW SUS304 M3X10 TP	44	3951100004	CLUTCH PLATE C (SUS304)
20	3990100250	PIN (SUS301 M3XL25)	45	3951104013	CLUTCH WASHER (SUS304)
21	3990100602	TAPPING SCREW M3.5X12SUS	46	3951200004	CLUTCH SPRING
22	2951100001**	LOCKING BRACKET ASSY **USA Use Code 3951100101/2 (Item is a 2 piece assembly that includes body (a) and lock button (b))	47	3951104013	CLUTCH WASHER 0.5X10X17
23	3993000152	O-RING FOR GEAR CASE HOUSING	48	3950000004	CLUTCH SPRING RETAINER (SUS304)
24	3993000177	O-RING BODY ORANGE (RED)	49	3990100028	WASHER CORRUGATED SUS304 M5
			50	3950004008	CLUTCH RETAINER SCREW (SUS304)

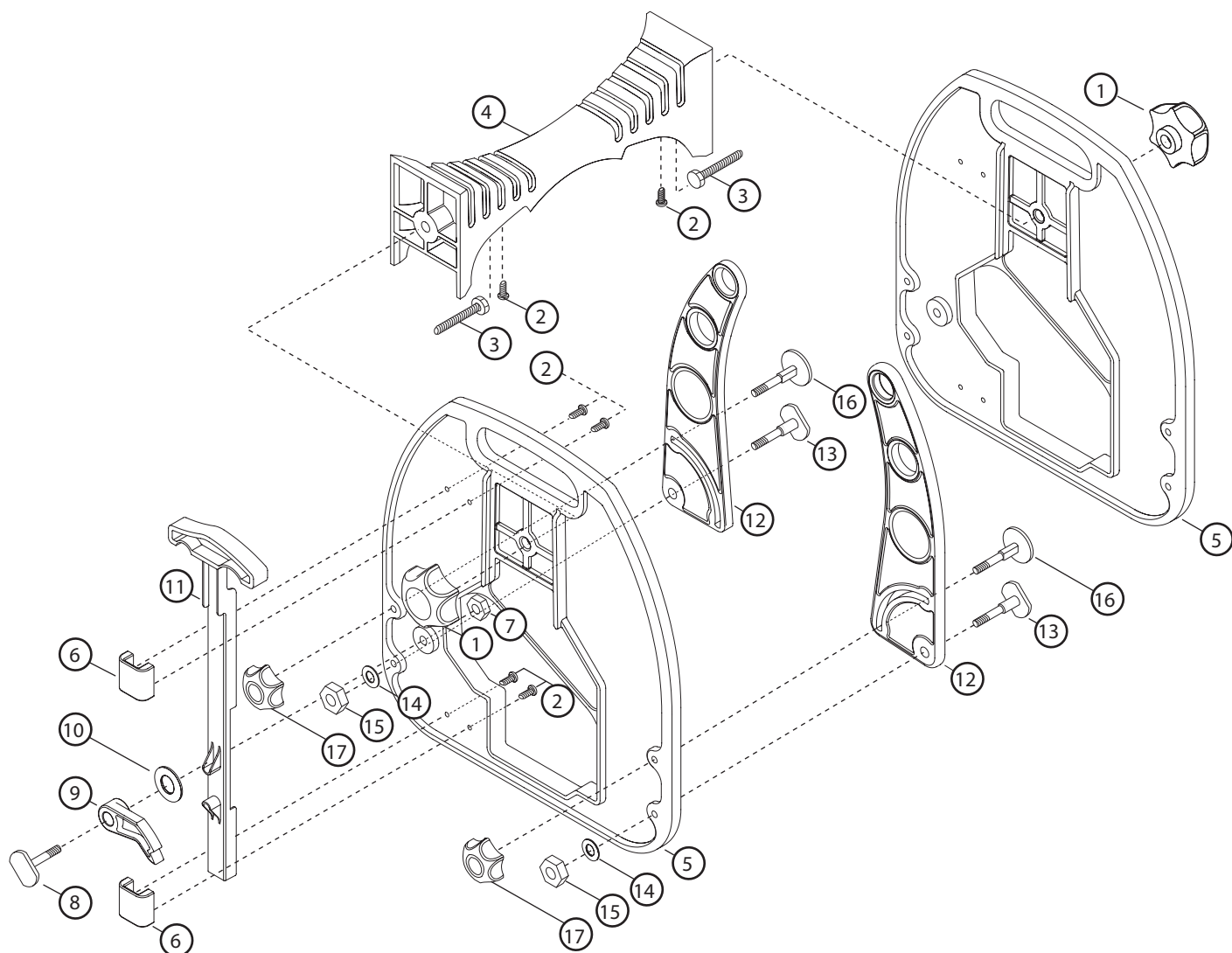
AV-1 Propeller Assembly



All parts and accessories offered for the AV-1 are compatible with the Dacor units. IMPORTANT: Although the exterior is very similar looking and some parts are shared with the current Apollo DPV's (AV2 24V Series), they are very different units. Always verify that you are using the appropriate schematic to determine parts required for your unit.

No.	Code	Description	No.	Code	Description
1-28	2952080009	PROPELLER ASSY FOR AV-1	15	3990100250	PIN (SUS301 M3XL25)
1	3990100521	0130-73 SCREW (SUS304 TP M3X16TP)	16	3952080038	PROPELLER BASE FOR AV-1
2	3990100010	WASHER M3 SUS304 3.2X6	17	3990100028	WASHER CORRUGATED SUS304 M5
3	3952080041	BEARING HOUSING	18	3990100027	BELLEVILLE SPRING
4	3990200003	BEARING SS6005Z SEA 47OD (NSK)(GRADE 0)	19	3951100009	PROPELLER BASE WASHER M5(SUS304)
5	3990100057	0240-14 C-RING SUS304 STW-25	20	3950004008	CLUTCH RETAINER SCREW (SUS304)
6	3950000002	PROPELLER SHAFT SUS304 SEA	21	3952080026	PROPELLER BLADE
7	3990100501	0130-82 SCREW RETAINER PLT (M3X12 TP)	22	3952080036	PROPELLER CASING RETAINER
8	3951100001	BEARING RETAINER (SUS304 AVC015)	23	3990100021	WASHER SUS304 M4
9	3990200002	BEARING SUS304 6000ZZ SEA (GRADE 0)	24	3990100504	SCREW M4X16X7 TP
10	3952080004	CASING PROPELLER SHAFT	25	3952080037	PITCH KNOB (PBT)
11	3993600000	0513-23 SEAL FA FAJ1 10X25X7	26	3951200003	SPRING KNOB SUS304
12	3993000022	FA SEAL ORING (AS568-022)	27	3950004009	KNOB SCREW WASHER (C3601BA)
13	3951100005	SEAL RETAINER(B)(SUS304AVC-012B)	28	3990100512	0130-76 SCREW (SUS304 M5X20X10)
14	3990100502	SCREW SUS304 M3X10 TP FOR			

AV-1 Saddle



The original AV-1 Saddle is no longer available as a complete unit. The AV-2 Saddle is compatible with all Apollo vehicles past and present. **IMPORTANT NOTE:** The AV-2 Saddle (not shown, see AV-2) includes indicator for variable speed. Variable speed feature is actually a function of the AV-2 system. The use of an AV-2 saddle with an AV-1 vehicle will provide on/off function only. Saddles look very similar and may share some parts but they are different. Always verify that you are using the correct schematic when ordering parts. The most prominent difference is the speed control label (No. 21 on AV-2 Saddle) on the panel that holds switch lever. The AV-1 saddle does not have a speed label.

No.	Code	Description	No.	Code	Description
1	3952086006	MOUNT KNOB WITH NUT M8 SUS	11	3952086003	SWITCH LEVER ABS FOR AV-1 SADDLE
2	3990100602	TAPPING SCREW M3.5X12SUS	12	3952086011	WING ABS SADDLE
3	3990100005	BOLT/SADDLE M8X40 SUS	13	3952086009	WING CENTER AXIS ABS FOR SADDLE
4	3952086002	SADDLE ABS	14	3990100012	WASHER M5 SUS
5	3952086021*	PANEL FOR AV-1&2 SADDLE (ABS)	15	3990100750	U NUT M5 SUS304
6	3952086005	COVER FOR SADDLE LEVER (ABS)	16	3952086008	WING ADJUST AXIS SADDLE
7	3990100754	LOCK NUT M6 SUS FOR AV-1 SADDLE	17	3952086007	KNOB/ADJUSTAXIS WITH NUT M6 FOR SADDLE
8	3950103000	AXIS/SWITCH C3604B FOR AV-1 SADDLE			
9	3952086004	SWITCH CAM ABS FOR AV-1 SADDLE			
10	3990100013	WASHER M6.5X11.5X0.8			

*NOTE THAT PICTURE ABOVE SHOWS ORIGINAL PANEL. CURRENT PANEL IS DESIGNED FOR USE WITH AV-1&2 SADDLES. SEE AV-2 FOR CURRENT IMAGE.