



ATV Illustrated Parts Manual

ATV 650 ACE

2005

ARCTIC CAT[®]



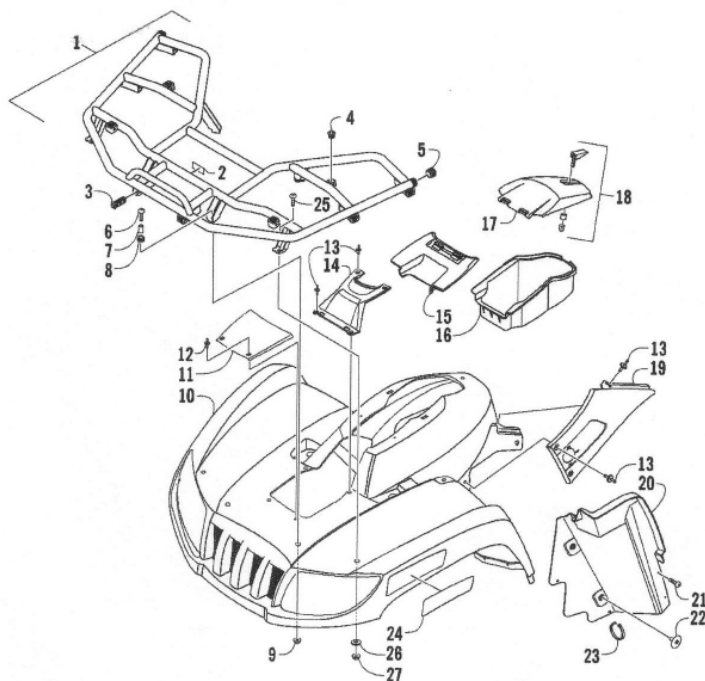
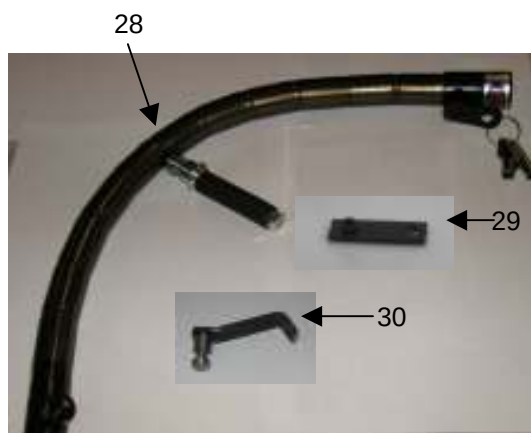
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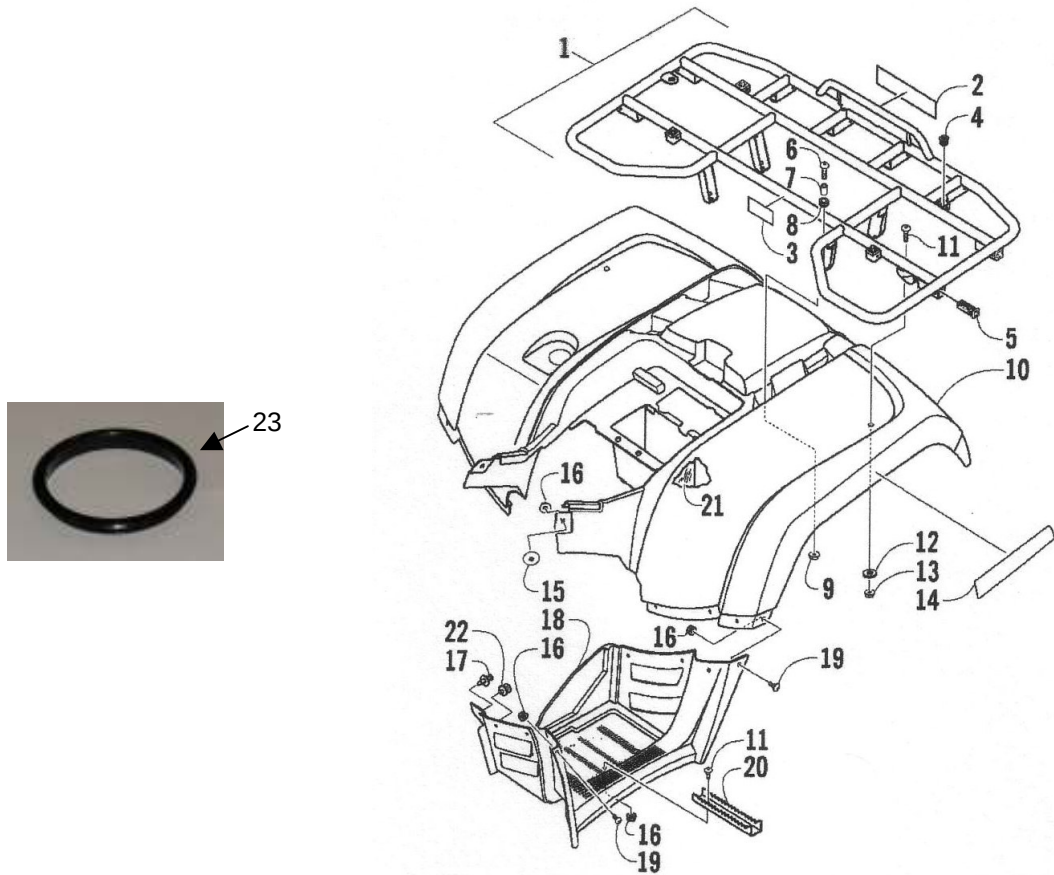
■NOTE: The illustrations used in this Parts Manual are for reference to replacement part numbers only and are not to be used for assembly. For assembly procedures, use an Arctic Cat Service Manual. Underlined part numbers are new for the 2005 model year.

2005 ATV 650 V-Twin FIS (Automatic Transmission)



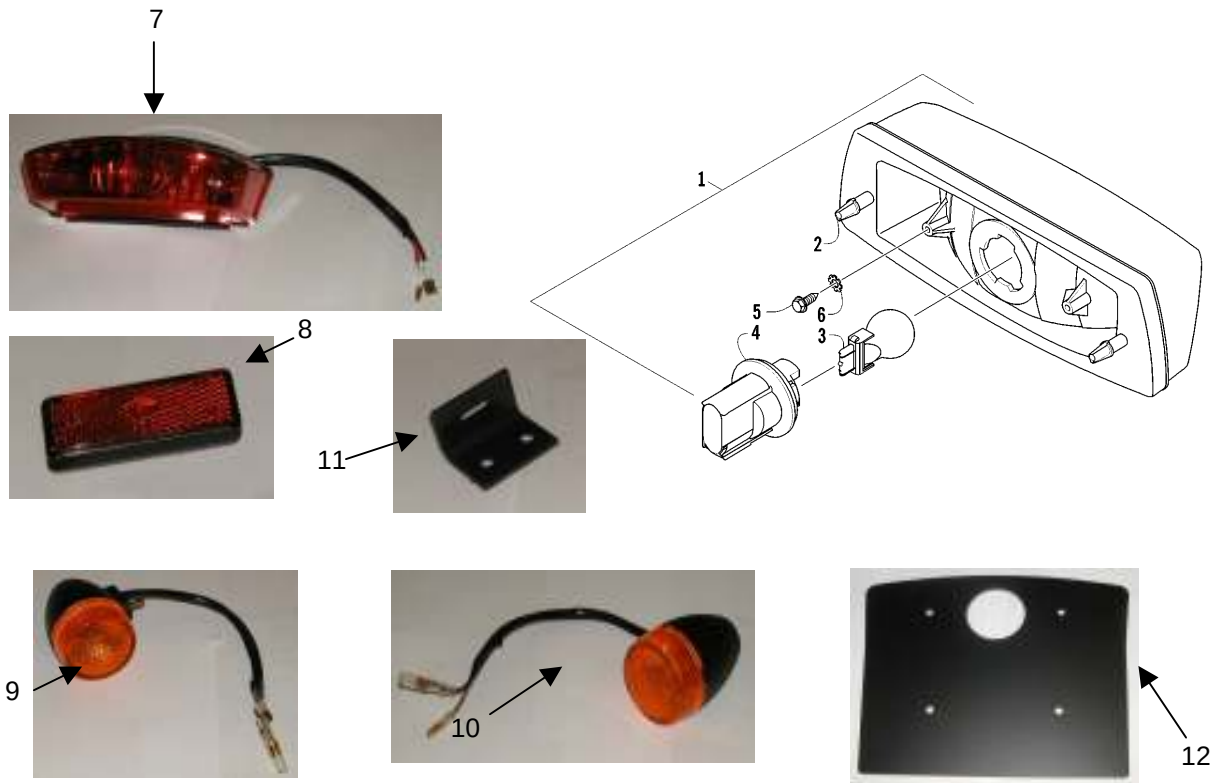
FRONT BODY PANEL ASSEMBLY

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0541-272	1	Rack-Front-Assembly (inc. 2-5)	15	0470-513	1	Cover, Storage Box
2	0411-576	1	● Decal, Warning	16	1406-573	1	Box ,Storage
3	0441-592	4	● Bushing, Rack	17	0470-514	1	Lid, Storage Box
4	0441-556	6	● Bushing, Rack	18	1406-599	1	Latch, Storage Box
5	1441-049	2	Plug, Rack	19	1406-313	1	Panel, Side Right
6	0423-362	4	Screw, Machine		1406-314	1	Panel, Side Left
7	0423-463	4	Spacer	20	1406-354	1	Panel, Splash-Right
8	0423-465	4	Grommet		1406-355	1	Panel, Splash-Left
9	8432-802	4	Nut, Lock	21	0423-342	4	Screw, Self-Tapping
10	1406-609	1	Panel Fender	22	0423-101	3	Screw, Body
	1406-608	1	Panel Fender-Green	23	0123-788	AR	Cable Tie-7,5 in.
	1406-610	1	Panel Fender-Cat Green	24	0411-818	1	Decal, Reflector-Ambor-R
11	1406-358	1	Cover, Access, Radiator		0411-819	1	Decal-Reflector-Amber-L
12	0423-535	2	Rivet, Reinstallable	25	0423-355	2	Screw, Shoulder
13	0623-362	10	Rivetm Reinstallable	26	8050-222	2	Washer
14	1406-484	1	Cover, Steering Post	27	8424-602	2	Nut, Lock
Homologated ATV's							
28	AC000-790	1	Anti theft device	30	AC008-792	1	Holder anti theft device
29	AC000-793	1	Bracket anti theft device	31	AC008-795	1	Star screw



REAR BODY PANEL ASSEMBLY

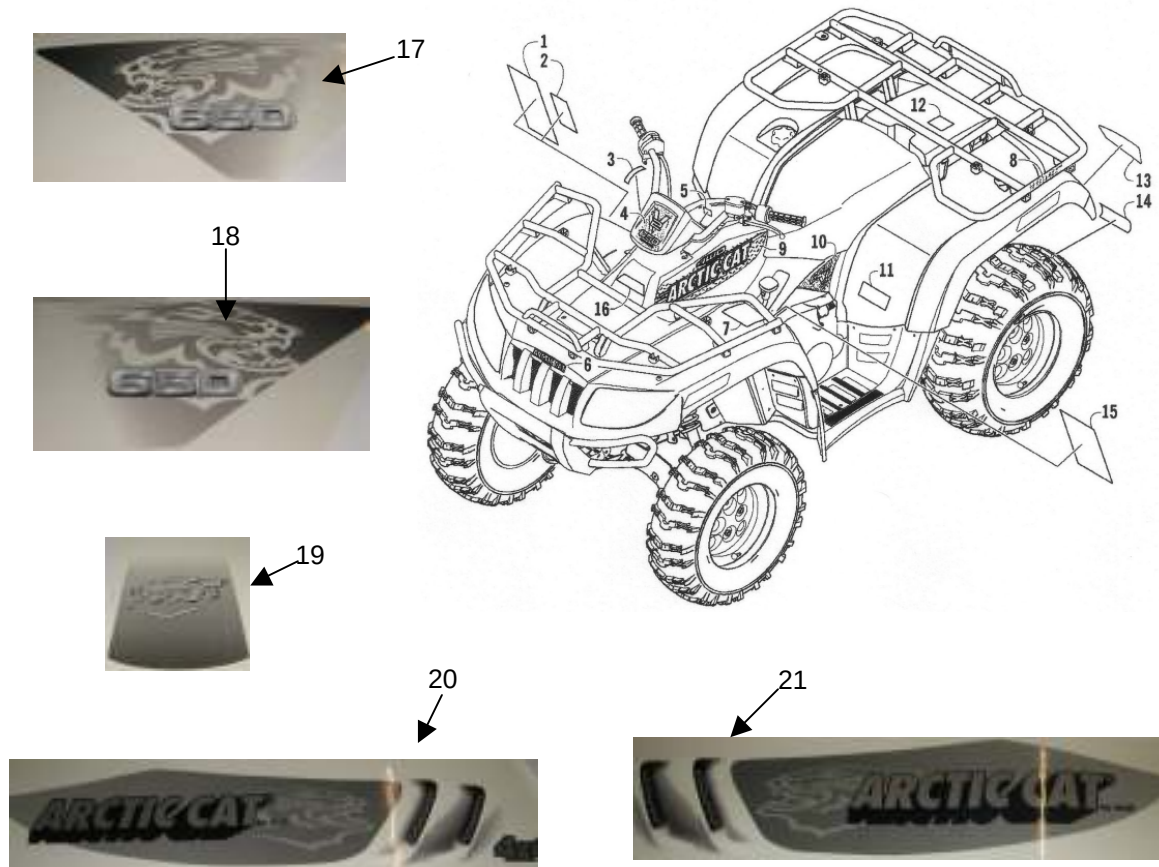
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	<u>0541-275</u>	1	Rack – Rear – Assembly (inc. 2-5)	11	0423-355	6	Screw, Shoulder
	<u>0541-285</u>	1	Rack – Rear – Assembly (inc. 2-5) (LE)	12	8050-222	2	Washer
2	<u>0411-814</u>	1	● Decal, “Arctic Cat”	13	8424-602	2	Nut
	<u>0411-947</u>	1	● Decal, “Arctic Cat” (LE)	14	<u>0411-820</u>	1	Decal, Reflector – Red - Right
3	0411-648	1	● Decal, Warning – Rear Rack Load		<u>0411-821</u>	1	Decal, Reflector – Red – Left
4	0441-592	4	● Bushing, Rack	15	0423-101	2	Screw, Body
5	0441-556	8	● Bushing, Rack	16	<u>0423-540</u>	22	Nut, Lock
6	0423-362	4	Screw, Machine	17	0623-362	2	Rivet, Reinstallable
7	0423-463	4	Spacer	18	<u>1406-517</u>	1	Footwell – Right
8	0423-465	4	Grommet		<u>1406-519</u>	1	Footwell – Left
9	8432-802	4	Nut, Lock	19	0423-419	4	Screw, Machine
10	<u>1406-284</u>	1	Panel, Fender – Rear	20	1506-125	2	Footpeg
	<u>1406-603</u>	1	Panel, Fender – Rear (Green)	21	<u>0412-296</u>	1	Shield, Heat
	<u>1406-604</u>	1	Panel, Fender – Rear (Cat Green)	22	<u>0423-046</u>	12	Rivet, Plastic
Homologated ATV's							
23	0470-404	2	Grommet				



TAILLIGHT ASSEMBLY

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0509-022	1	Taillight Assembly (inc. 2-4)	4	0409-057	1	● Socket, Taillight
2	0509-025	1	● Housing, Taillight	5	0623-301	2	Screw, Self-Tapping
3	0409-056	1	● Bulb, Taillight	6	8053-212	2	Washer, Lock – External Tooth
Homologated ATV's				11	AC000-223	2	Bracket, indicator
7	AC000-079	1	Taillight new	12	AC000-231	1	Bracket, rear light
8	AC000-139	2	reflector				
9	AC000-145	1	Indicator, left				
10	AC000-146	1	Indicator, right				

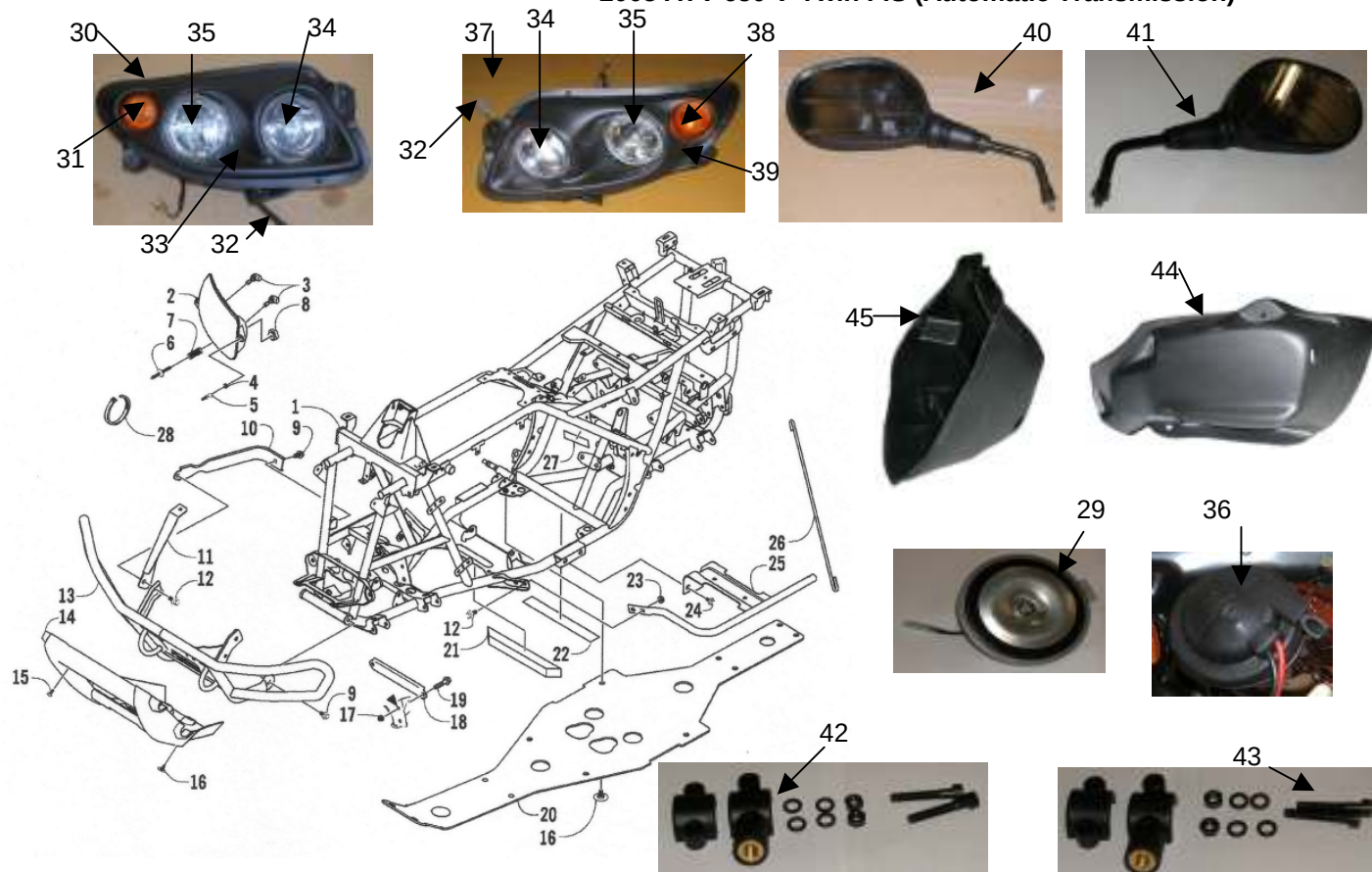
2005 ATV 650 V-Twin FIS (Automatic Transmission)



DECALS

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0411-008	1	Decal, Warning-Reverse	10	0411-884	1	Decal, Side-Lower Right
2	0411-835	1	Decal, Warning, Turn		0411-885	1	Decal, Side-Lower Left
3	0411-426	1	Decal, Warning Clutch C.		0411-882	1	Decal, Side-Lower Right Gr.
4	0411-850	1	Decal, Instrument Pod		0411-883	1	Decal, Side-Lower Left Gr.
	0411-849	1	Decal, Instrument Pod Gr.		0411-886	1	Decal, Side-Lower Right CatGr.
	0411-851	1	Decal, Instrument, CatGr.		0411-887	1	Decal, Side-Lower Left CatGr
5	0411-966	1	Decal, Warning Diff. Lock	11	0411-430	1	Decal, Warning Tire Press.
6	0411-840	1	Decal, Front	12	0411-435	1	Decal, Passenger
	0411-839	1	Decal, Front Green	13	0411-890	1	Decal, Rear-Right
	0411-841	1	Decal, Front CatGreen		0411-891	1	Decal, Rear-Left
7	0411-401	1	Decal, Warning Age		0411-888	1	Decal, Rear-Right (Green)
8	0411-965	2	Decal, Speed Rack		0411-889	1	Decal, Rear-Left (Green)
9	0411-854	1	Decal, Side Upper Right		0411-892	1	Decal, Rear-Right (CatGreen)
	0411-855	1	Decal, Side Upper Left		0411-893	1	Decal, Rear-Left (CatGreen)
	0411-852	1	Decal, Side Upper Right, Gr	14	0411-267	1	Decal, Warning-Towing
	0411-853	1	Decal, Side Upper Left, Gr	15	0411-218	1	Decal, Warning-General
	0411-856	1	Decal, Side Upper Right, CatGr	16	0411-964	1	Decal, Crest-"Speedrack"
	0411-857	1	Decal, Side Upper Left, CatGr				
Homologated ATV's							
17	AC000-648	1	Decal, ACE 650 LH	20	AC000-644	1	Decal side ACE LH
18	AC000-649	1	Decal, ACE 650 RH	21	AC000-645	1	Decal side ACE RH
19	AC000-639	1	Decal head				

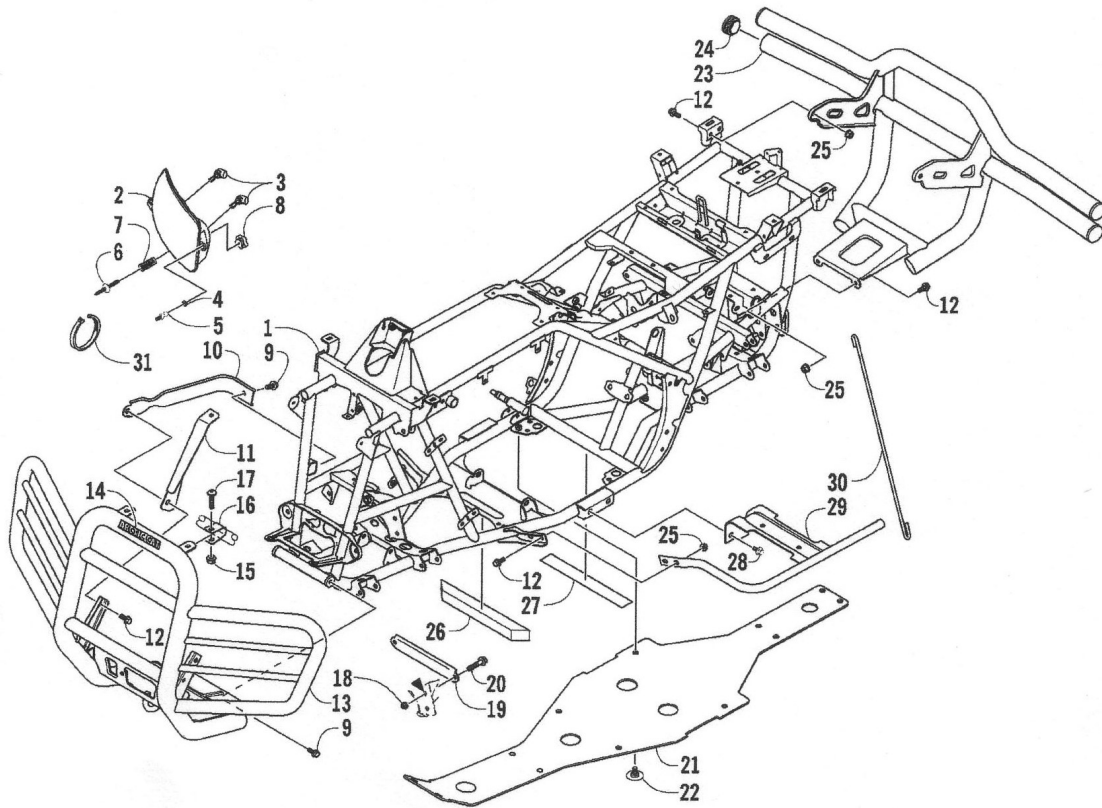
2005 ATV 650 V-Twin FIS (Automatic Transmission)



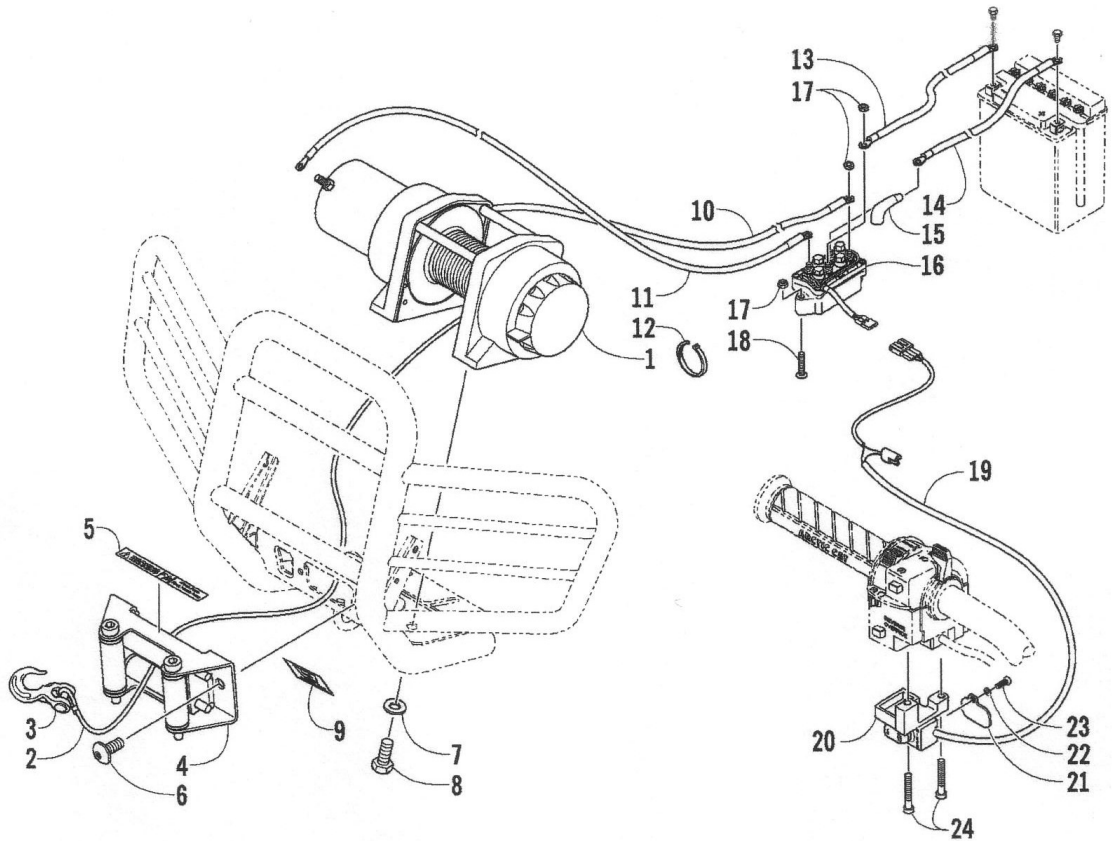
FRAME AND RELATED PARTS

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	1506-437	1	Frame, Main	14	1406-360	1	Grille, Bumper
2	0509-016	1	Headlight Assy., R (inc. 3-4)	15	0423-419	2	Screw, Machine
	0509-018	1	Headlight Assy., L (inc. 3-4)	16	0423-101	16	Screw, Body
3	0409-055	4	Bulb, Headlight	17	8428-002	2	Nut, Lock
4	0423-452	4	Socket, Mounting	18	1506-429	1	Brace, A-Arm
5	0423-515	4	Stud, Mounting-Headlight	19	8409-025	2	Screw, Cap
6	0423-514	2	Stud, Adjuster-Headlight	20	1406-425	1	Panel, Belly
7	0423-522	2	Spring, Adjuster	21	1506-067	1	Foam, Frame
8	0423-513	2	Knob, Adjuster	22	0406-289	1	Pad, Frame-Battery Top
9	8409-020	4	Screw, Cap	23	8424-802	4	Nut, Flange
10	0506-653	1	Channel, Bumper Mounting-R	24	8409-016	4	Screw, Cap
	1506-596	1	Channel, Bumper Mounting-L	25	1506-380	1	Footrest-R
11	1506-562	1	Bracket, Mounting-Bumper-R		1506-379	1	Footrest-L
	1506-563	1	Bracket, Mounting-Bumper-L	26	1406-298	2	Rod, Support
12	8408-816	6	Screw, Cap	27	0412-298	1	Heat Shield
13	1506-195	1	Bumper	28	0623-751	1	Cable Tie
Homologated ATV's				38	● AC000-145	1	Indicator, left
29	AC000-158	1	horn	39	● AC000-235	1	Faceplate, headlight left
30	AC000-248	1	Headlight assy., right (incl. 31-36)	40	AC000-751	1	Mirror left
31	● AC000-146	1	Indicator, right	41	AC000-752	1	Mirror right
32	● AC000-227	1	Harness, headlight	42	AC000-753	1	Mirror mounting left
33	● AC000-236	1	Faceplate, headlight r.	43	AC000-754	1	Mirror mounting right
34	● AC000-245	1	Headlight, low beam	44	AC006-237	1	Headlight tray right
35	● AC000-246	1	Headlight, high beam	45	AC006-238	1	Headlight tray left
36	● AC000-247	2	Rubber, cover headl2005				
37	AC000-249	1	Headlight assy., left (incl. 32, 34, 35, 36, 38,39)				

FRAME AND RELATED PARTS (LE)

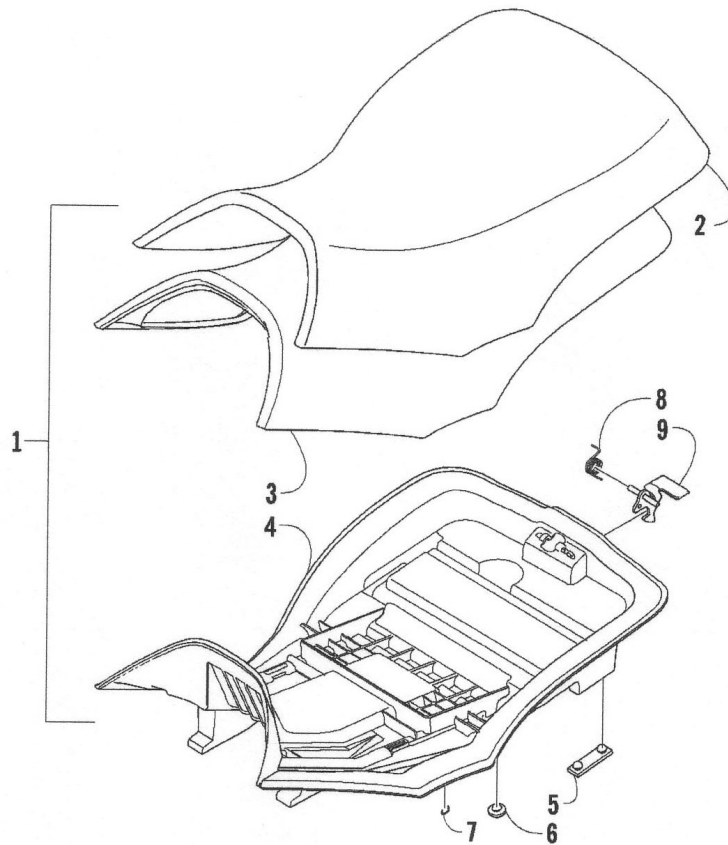


Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	1506-437	1	Frame, Main	16	1506-667	2	Strap, Bumper Support
2	0509-016	1	Headlight Assembly - Right (inc. 3-4)	17	8468-845	2	Screw, Machine
	0509-018	1	Headlight Assembly - Left (inc. 3-4)	18	8428-002	2	Nut, Lock
3	0409-055	4	● Bulb, Headlight	19	1506-429	1	Brace, A-Arm
4	0423-452	4	● Socket, Mounting	20	8409-025	2	Screw, Cap
5	0423-515	4	Stud, Mounting - Headlight	21	1406-425	1	Panel, Belly
6	0423-514	2	Stud, Adjuster - Headlight	22	0423-101	16	Screw, Body
7	0423-522	2	Spring, Adjuster	23	1506-615	1	Bumper, Rear (inc. 24)
8	0423-513	2	Knob, Adjuster	24	0406-130	4	● Cap, Bumper
9	8409-020	4	Screw, Cap	25	8424-802	8	Nut, Flange
10	0506-653	1	Channel, Bumper Mounting - Right	26	1506-067	1	Foam, Frame
	1506-596	1	Channel, Bumper Mounting - Left	27	0406-289	1	Pad, Frame - Battery Top
11	1506-562	1	Bracket, Mounting - Bumper - Right	28	8409-016	4	Screw, Cap
	1506-563	1	Bracket, Mounting - Bumper - Left	29	1506-380	1	Footrest - Right
12	8408-816	10	Screw, Cap		1506-379	1	Footrest - Left
13	1506-666	1	Bumper (inc. 14)	30	1406-298	2	Rod, Support
14	0411-501	1	● Decal, "Arctic Cat"	31	0623-751	1	Cable Tie
15	8424-805	2	Nut, Lock				



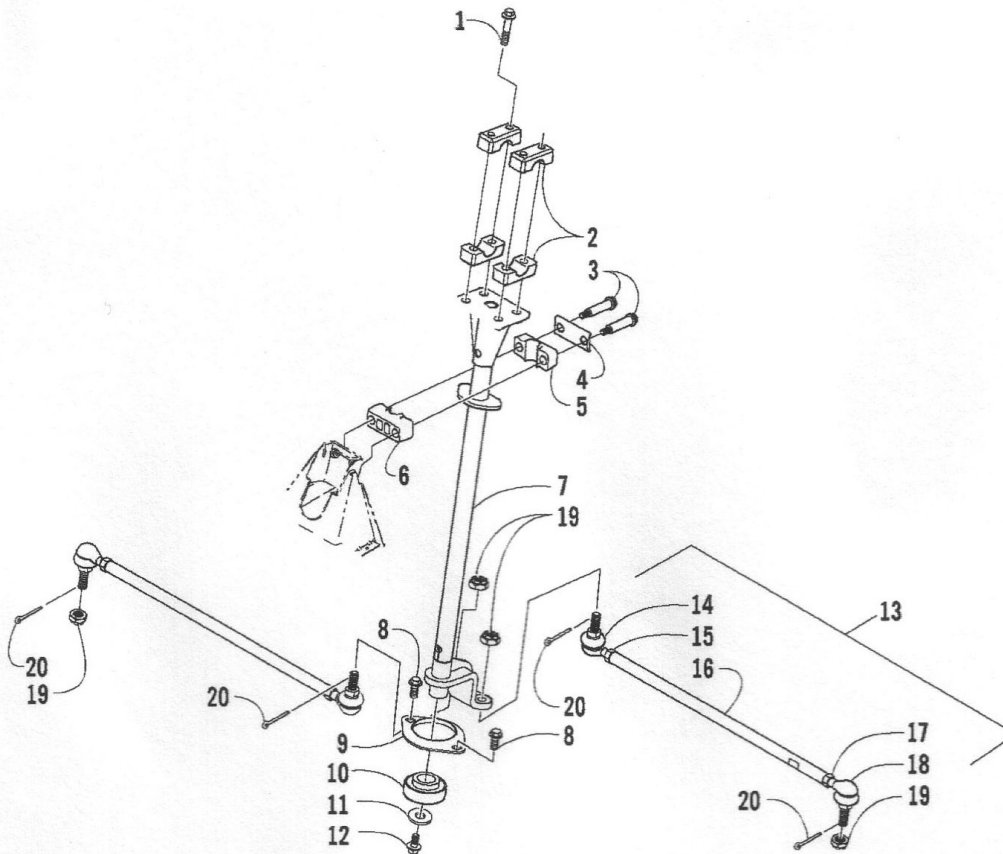
WINCH ASSEMBLY (LE)

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0441-490	1	Winch (inc. 2-3)	13	<u>1441-112</u>	1	Cable, Solenoid/Battery - Black
2	0441-061	1	● Cable, Winch	14	<u>1441-113</u>	1	Cable, Solenoid/Battery - Red
3	0441-131	1	● Hook, Winch	15	0441-060	3	Boot, Terminal
4	0441-403	1	Roller, Winch (inc. 5)	16	<u>0409-066</u>	1	Solenoid
5	0411-474	1	● Decal, Warning - Roller	17	0623-038	6	Nut w/Washer
6	<u>8468-820</u>	2	Screw, Machine	18	8476-625	2	Screw, Machine
7	<u>8051-246</u>	4	Washer, Lock	19	<u>0409-065</u>	1	Switch, Control
8	1623-131	4	Screw, Cap	20	0409-034	1	Holder, Control Switch
9	0411-433	1	Decal, Winch	21	0409-040	1	Cover, Switch
10	<u>1441-111</u>	1	Cable, Winch/Solenoid - Yellow	22	<u>8051-212</u>	1	Washer
11	<u>1441-110</u>	1	Cable, Winch/Solenoid - Blue	23	0423-382	1	Screw, Self-Tapping
12	0123-788	AR	Cable Tie - 7.5 in.	24	<u>8464-560</u>	2	Screw, Machine



SEAT ASSEMBLY

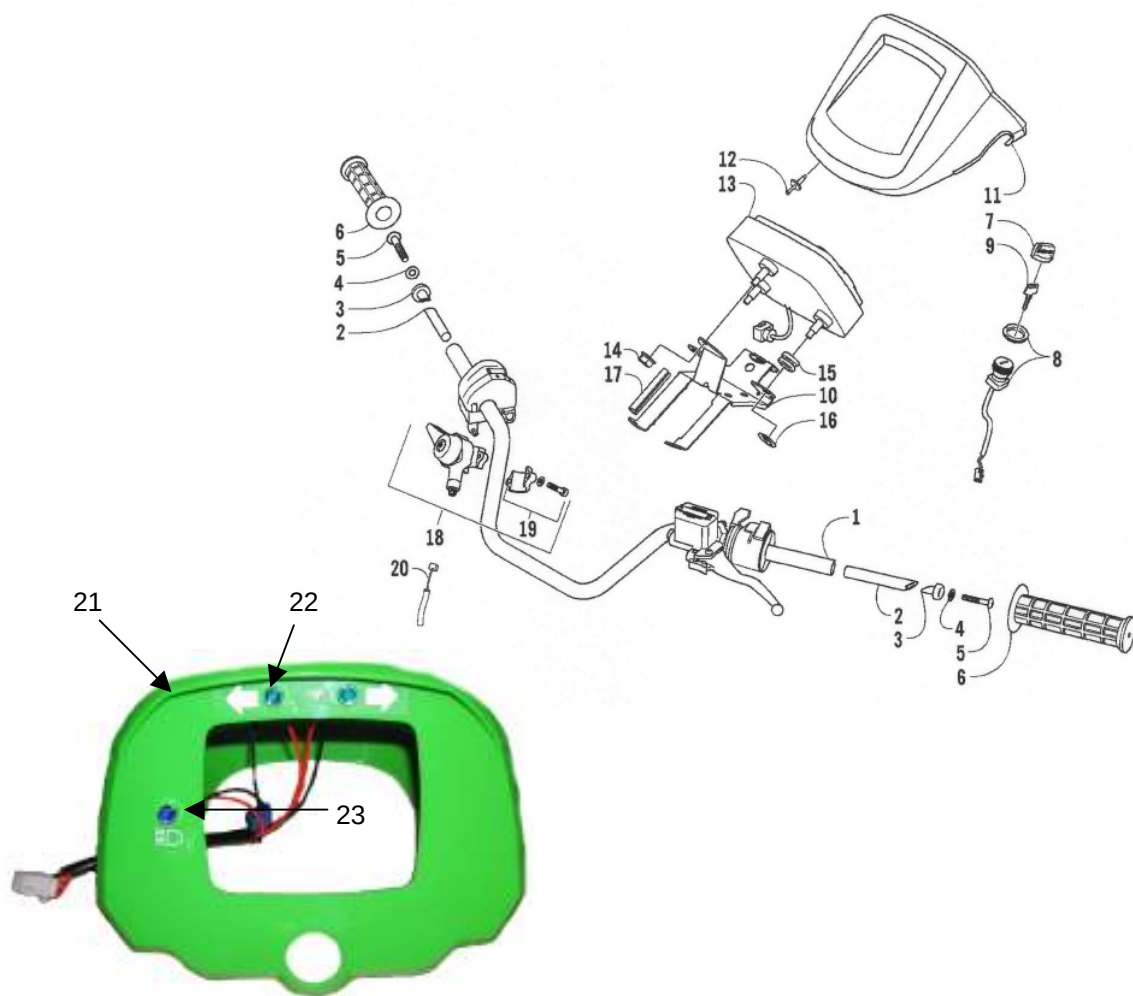
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	<u>1506-207</u>	1	Seat Assembly (inc. 2-9)	6	0406-877	4	●● Bumper, Seat - Front
2	<u>1506-209</u>	1	● Cover, Seat	7	0624-528	AR	● Staple
3	<u>1506-208</u>	1	● Foam, Seat	8	<u>1406-592</u>	1	● Spring, Seat Latch
4	<u>1406-362</u>	1	● Base, Seat Assembly (inc. 5-6)	9	<u>1506-156</u>	1	● Latch, Seat
5	0406-879	2	●● Bumper, Seat - Rear				



STEERING POST ASSEMBLY

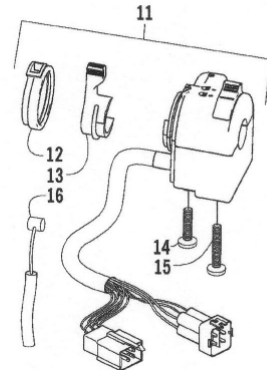
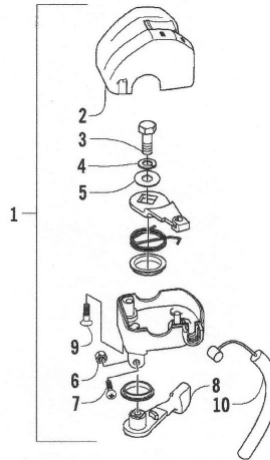
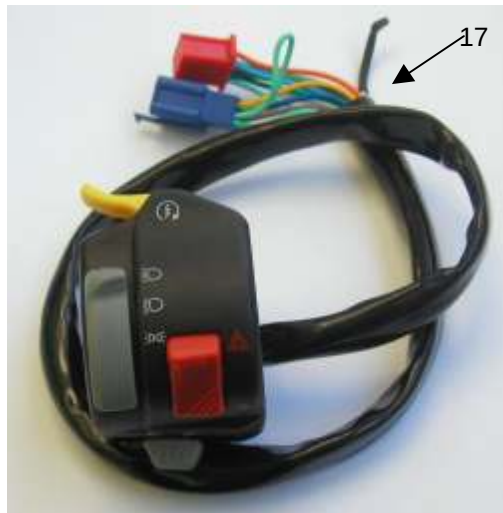
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	8408-860	4	Screw, Cap	11	0423-073	1	Washer
2	0405-035	4	Cap, Steering Adjuster	12	8409-020	1	Screw, Cap
3	0423-505	2	Screw, Shoulder	13	0505-408	2	Tie Rod - Assembly (inc. 14-18)
4	0405-166	1	Cap, Housing	14	0405-083	2	● Ball Joint, Tie Rod - Left
5	0405-138	1	Housing, Lower	15	0423-013	2	● Nut - Left
6	0405-139	1	Housing, Upper	16	0405-107	2	● Tie Rod
7	0505-451	1	Post, Steering	17	8420-002	2	● Nut - Right
8	8408-816	2	Screw, Cap	18	0405-082	2	● Ball Joint, Tie Rod - Right
9	0602-233	1	Flange, Bearing	19	0423-157	4	Nut, Top Lock
10	0405-052	1	Bearing w/Inverted Oil Seal	20	0623-175	4	Pin, Cotter

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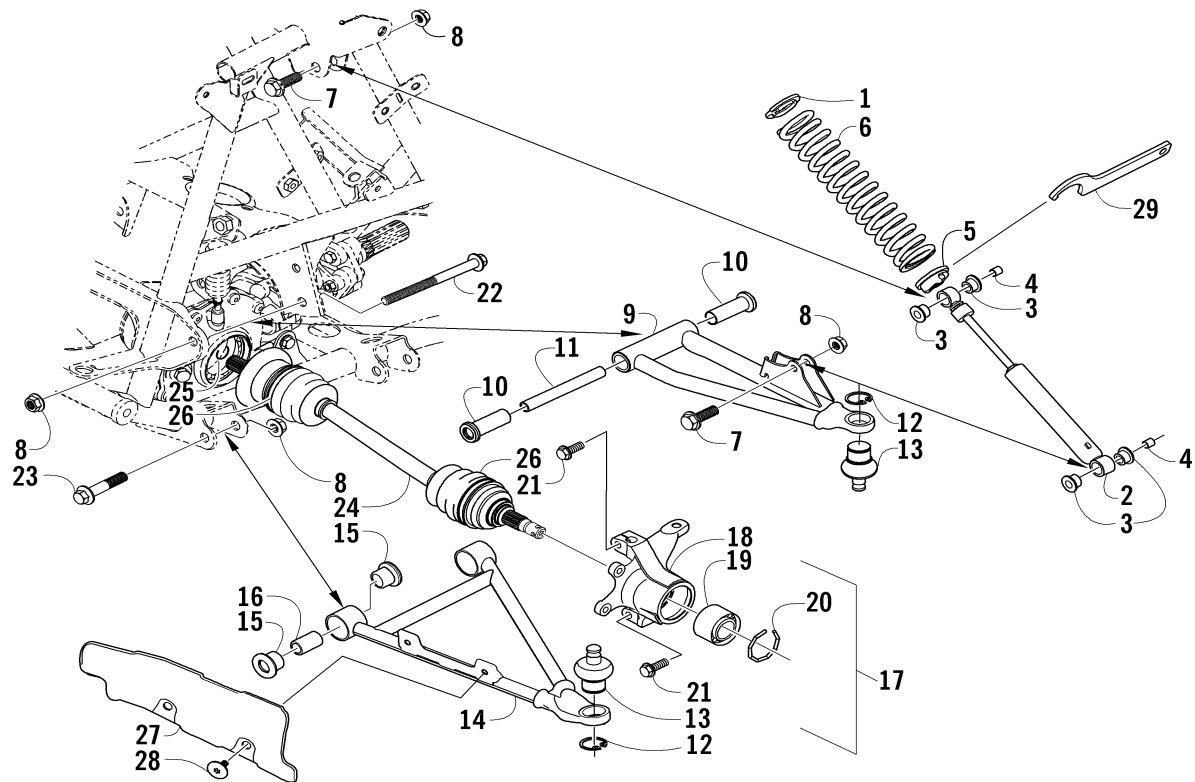
HANDLEBAR ASSEMBLY

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0505-448	1	Tube, Handlebar	11	0405-142	1	Instrument Pod
2	0405-148	2	Plug, Handlebar		0405-162	1	Instrument Pod (Gr)
3	0405-149	2	End Cap, Handlebar		0405-163	1	Instrument Pos (CatGr)
4	8050-247	2	Washer	12	0623-362	2	Ricet, Instellable
5	8477-845	2	Screw, Machine	13	0420-048	1	Gauge, digital
6	0405-147	2	Grip, Handlebar	14	8424-502	1	Nut, Flange
7	0409-013	1	Cover, Key	15	0423-447	3	Grommet
8	0430-036	1	Switch, Ignition Assy (inc.9)	16	0624-466	2	Retainer, Push-On
9	3409-007	1	Key, Ignition Blank (C-Series)	17	0706-371	AR	Trim
	3409-011	1	Key, Ignition Blank (D-Series)	18	0502-527	1	Control Diff. Lock (inc. 19)
	3409-012	1	Key, Ignition Blank (E-Series)	19	0502-613	1	Clamp,Diff. Lock Contr. Kit
	3409-013	1	Key, Ignition Blank (F-Series)	20	0487-030	1	Cable, Diff. Lock
10	1506-428	1	Bracket, Mounting-Pod				
Homologated ATV's							
21	AC005-027-029	1	Pod speed assy. (incl. 22, 23) (No. depends on the colour)	22	AC000-151	2	Control indicator
	AC005-027	1	Pod speed assy. Red	23	AC000-014	1	Control light blue
	AC005-028	1	Pod speed assy. Green				
	AC005-029	1	Pod speed assy. LimeGreen				



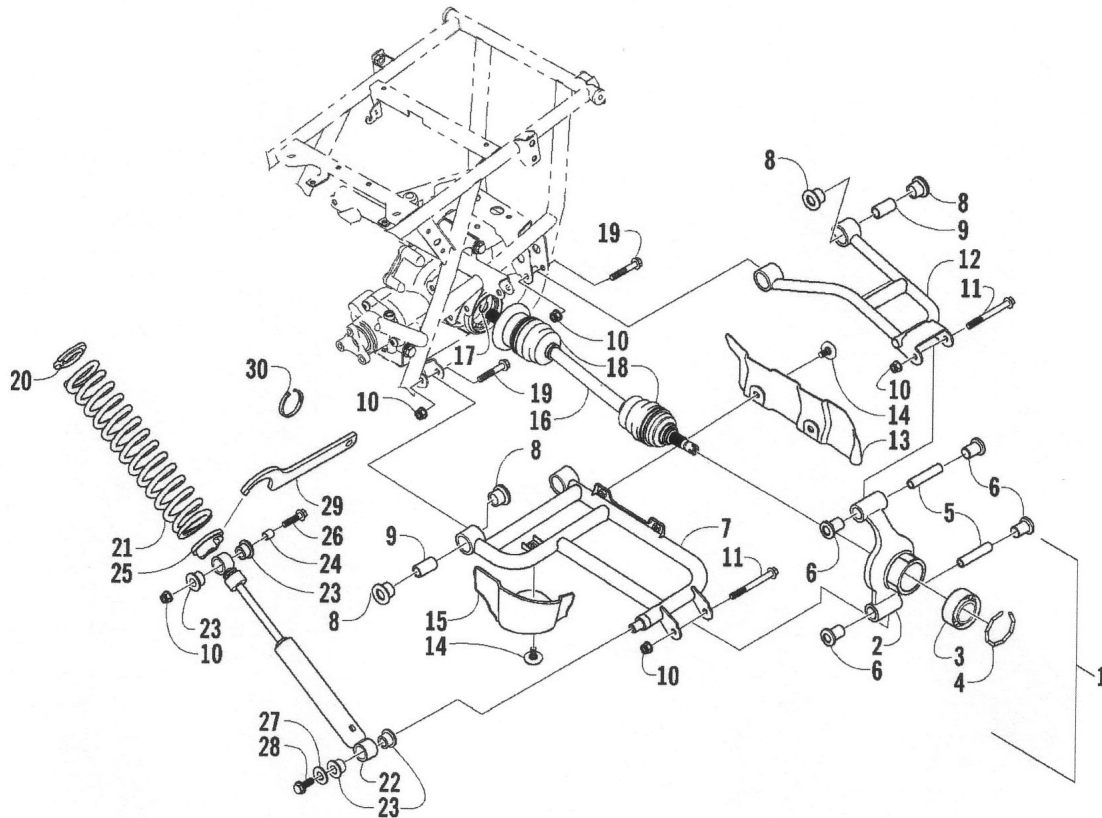
THROTTLE CASE AND CONTROL SWITCH ASSEMBLIES

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0509-012	1	Case, Throttlet-Assy(inc. 2-9)	9	3423-199	2	Screw
2	0409-048	1	Cover, Throttle Case w/Switch	10	0487-032	1	Cable, Throttle
3	3004-533	1	Screw, Cap	11	0409-022	1	Switch, Control-Assy (inc. 12-15)
4	3004-447	1	Washer, Lock	12	0409-026	1	Choke, Choke Lever
5	3003-030	1	Washer	13	0409-025	1	Lever, Choke
6	3423-327	1	Nut	14	0409-028	1	Screw
7	3423-014	1	Screw	15	0409-027	1	Screw, Cap
8	3409-001	1	Lever	16	0487-033	1	Cable, Choke
Homologated ATV's							
17	AC000-018	1	Switch combi 2005				



FRONT SUSPENSION ASSEMBLY

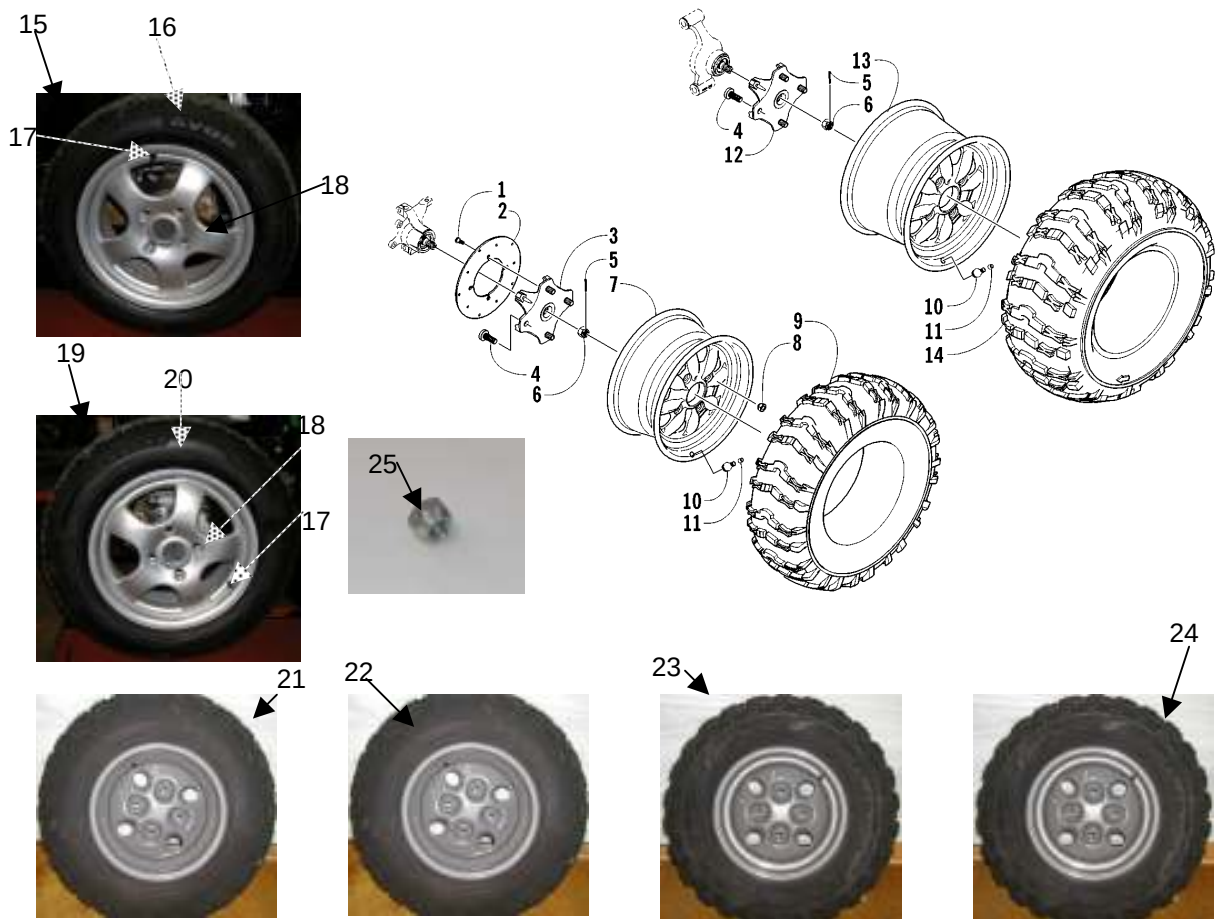
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	1603-889	2	Retainer, Spring	15	0403-115	8	● Bushing
2	0403-127	2	Shock Absorber - Front (inc. 3-4)	16	0403-114	4	● Collar
3	0604-310	8	● Bushing, Shock Absorber	17	<u>0505-446</u>	1	Knuckle - Assembly - Right (inc. 18-20)
4	0403-028	4	● Sleeve, Shock		<u>0505-447</u>	1	Knuckle - Assembly - Left (inc. 18-20)
5	0403-102	2	Cam, Spring Adjuster	18	<u>0505-444</u>	1	● Knuckle, Steering - Right
6	0403-129	2	Spring, Shock Absorber - Platinum		<u>0505-445</u>	1	● Knuckle, Steering - Left
	0403-128	2	Spring, Shock Absorber - Black (Green)	19	1402-027	2	● Bearing, Wheel Hub
7	8409-040	4	Screw, Cap	20	0423-423	2	● Ring, Retaining
8	8428-002	10	Nut, Lock	21	8409-030	4	Screw, Cap
9	<u>0503-272</u>	1	A-Arm, Upper Right - Platinum (inc. 10-13)	22	0423-334	2	Screw, Cap
	<u>0503-273</u>	1	A-Arm, Upper Left - Platinum (inc. 10-13)	23	8409-075	4	Screw, Cap
	0503-196	1	A-Arm, Upper Right - Black (inc. 10-13) (Green)	24	<u>0502-542</u>	1	Axle, Drive - Front - Right (inc. 25-26)
	0503-197	1	A-Arm, Upper Left - Black (inc. 10-13) (Green)		<u>0502-547</u>	1	Axle, Drive - Front - Left (inc. 25-26)
10	0403-081	4	● Bushing	25	0441-400	2	● Clip, Retaining
11	0403-080	2	● Collar	26	0436-276	2	● Repair Kit, Boot - Front Axle
12	0423-009	4	● Clip, Ball Joint	27	<u>0441-752</u>	1	Guard, Boot - Axle - Right
13	0405-115	4	● Ball Joint - Front		<u>0441-753</u>	1	Guard, Boot - Axle - Left
14	<u>0503-268</u>	1	A-Arm, Lower Right - Platinum (inc. 12-13 and 15-16)		<u>1441-002</u>	1	Guard, Boot - Axle - Right (Green)
	<u>0503-269</u>	1	A-Arm, Lower Left - Platinum (inc. 12-13 and 15-16)		<u>1441-003</u>	1	Guard, Boot - Axle - Left (Green)
	0503-220	1	A-Arm, Lower Right - Black (inc. 12-13 and 15-16) (Green)		<u>0441-756</u>	1	Guard, Boot - Axle - Right (Cat Green)
	0503-221	1	A-Arm, Lower Left - Black (inc. 12-13 and 15-16) (Green)		<u>0441-757</u>	1	Guard, Boot - Axle - Left (Cat Green)
				28	0423-101	4	Screw, Body
				29	0441-587	1	Wrench, Spanner



REAR SUSPENSION ASSEMBLY

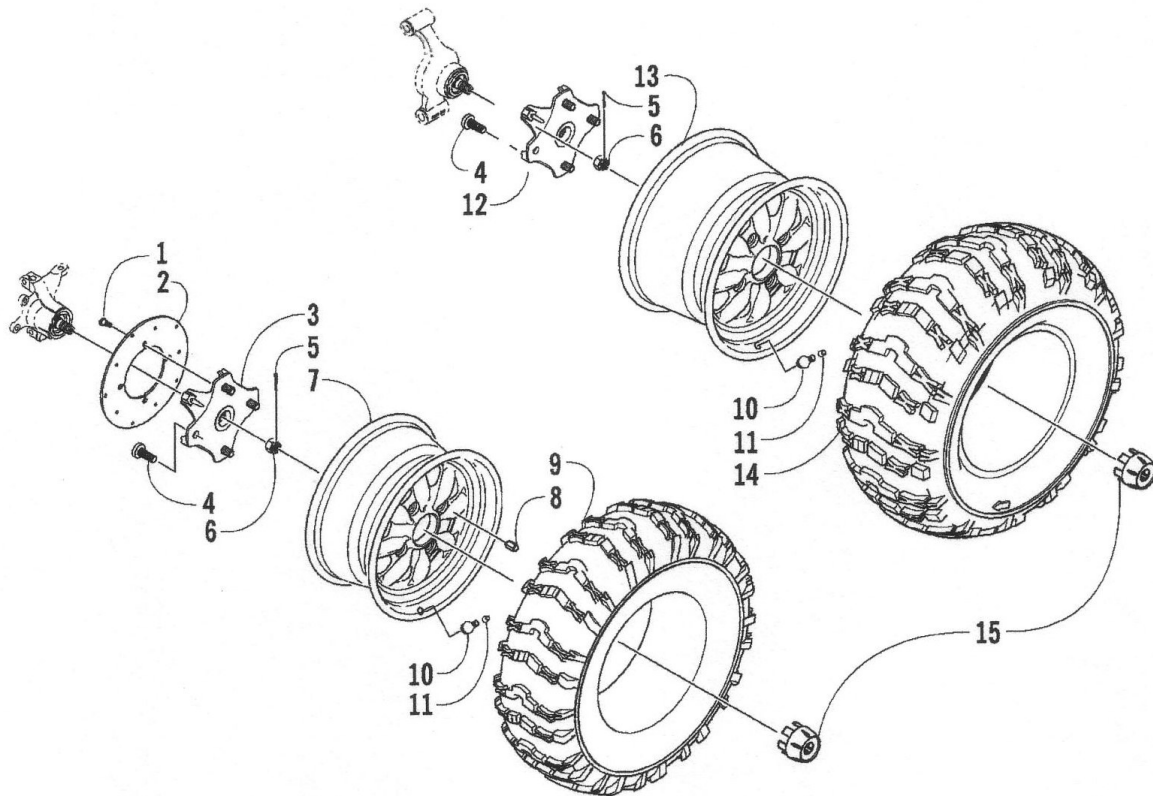
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	<u>0504-372</u>	1	Knuckle, Right Rear - Assembly (inc. 2-6)	13	<u>0441-754</u>	1	Guard, Boot - Right
	<u>0504-373</u>	1	Knuckle, Left Rear - Assembly (inc. 2-6)		<u>0441-755</u>	1	Guard, Boot - Left
2	<u>0504-376</u>	1	● Knuckle - Right		<u>1441-004</u>	1	Guard, Boot - Right (Green)
	<u>0504-377</u>	1	● Knuckle - Left		<u>1441-005</u>	1	Guard, Boot - Left (Green)
3	1402-027	2	● Bearing, Wheel Hub		<u>0441-758</u>	1	Guard, Boot - Right (Cat Green)
4	0423-423	2	● Ring, Retaining		<u>0441-759</u>	1	Guard, Boot - Left (Cat Green)
5	0403-038	4	● Collar, Suspension Bushing	14	0423-101	6	Screw, Body
6	0403-032	8	● Bushing, Suspension	15	1406-071	1	Guard, Boot - Right
7	<u>0504-326</u>	1	A-Arm, Rear - Lower Right - Platinum (inc. 8-9)		1406-072	1	Guard, Boot - Left
	<u>0504-327</u>	1	A-Arm, Rear - Lower Left - Platinum (inc. 8-9)	16	<u>0502-596</u>	2	Axle, Drive (inc. 17-18)
	<u>0504-320</u>	1	A-Arm, Rear - Lower Right - Black (inc. 8-9) (Green)	17	0441-400	2	● Clip, Retaining
	<u>0504-321</u>	1	A-Arm, Rear - Lower Left - Black (inc. 8-9) (Green)	18	0436-276	2	● Repair Kit, Boot - Rear Axle
8	0403-115	16	● Bushing	19	8409-075	8	Screw, Cap
9	0403-114	8	● Collar	20	1603-889	2	Retainer, Spring
10	8428-002	14	Nut, Lock	21	0404-074	2	Spring, Suspension - Platinum
11	8409-000	4	Screw, Cap		0404-065	2	Spring, Suspension - Black (Green)
12	<u>0504-330</u>	1	A-Arm, Rear - Upper Right - Platinum (inc. 8-9)		0404-077	2	Shock Absorber - Rear (inc. 23-24)
	<u>0504-331</u>	1	A-Arm, Rear - Upper Left - Platinum (inc. 8-9)	22	0604-310	8	● Bushing, Shock Absorber
	<u>0504-318</u>	1	A-Arm, Rear - Upper Right - Black (inc. 8-9) (Green)	24	0403-028	2	● Sleeve, Shock Absorber
	<u>0504-319</u>	1	A-Arm, Rear - Upper Left - Black (inc. 8-9) (Green)	25	0404-057	2	Cam, Spring Adjuster
				26	8409-040	2	Screw, Cap
				27	0423-087	2	Washer
				28	8408-820	2	Screw, Cap
				29	0441-587	1	Wrench, Spanner
				30	0123-788	2	Cable Tie

2005 ATV 650 V-Twin FIS (Automatic Transmission)



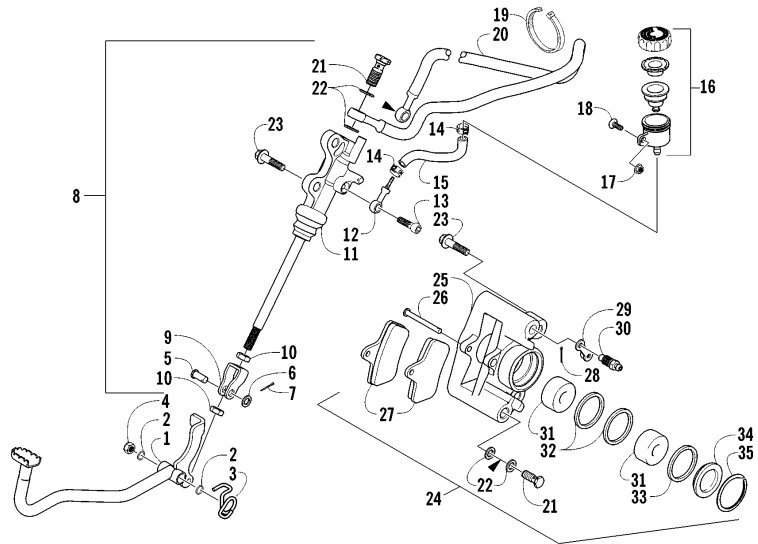
WHEEL AND TIRE ASSEMBLY

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0423-029	12	Screw, Machine	9	1402-100	2	Tire – Front
2	<u>1402-225</u>	3	Disc, Brake	10	0402-064	4	Stem, Valve (inc. 11)
3	0502-599	2	Hub, Wheel-Front (inc. 4)	11	0402-140	4	● Cap, Valve Stem
4	0402-974	16	● Stud, Wheel Hub	12	0502-601	1	Hub, Wheel – Rear – Left (inc. 4)
5	0423-407	4	Pin, Cotter		0502-599	1	Hub, Wheel – Rear – Right (inc. 4)
6	0423-394	4	Nut, Castle	13	1402-115	2	Wheel – Rear – Platinum
7	1402-127	2	Wheel – Front – Platinum		0402-858	2	Wheel – Rear – Gray (Green)
	0402-856	2	Wheel – Front – Gray (Green)	14	1402-137	2	Tire – Rear
8	0423-408	16	Nut, Mounting Wheel				
Homologated ATV's							
15	AC000-203	2	Wheel assy, road tire, front (incl. 16, 17, 18, 16x No. 25)	21	0502-464	1	Wheel, gray RH 25x8-12
16	AC000-202	2	● Road tire, 185/65*15	22	0502-465	1	Wheel, gray LH 25x8-12
17	AC000-209	2	● Valve wheel, road tire	23	0502-505	1	Wheel, gray RH 25x11-12
18	AC000-221	2	● Aluminium Rim Silver	24	0502-506	1	Wheel, gray LH 25x11-12
19	AC000-216	2	Wheel assy., Road tire, rear, (incl. 17, 18, 20)	25	AC007-217	1	Nut, Aluminium Rim Silver
20	AC000-215	2	● Road tire, 205/60*15				



WHEEL AND TIRE ASSEMBLY (LE)

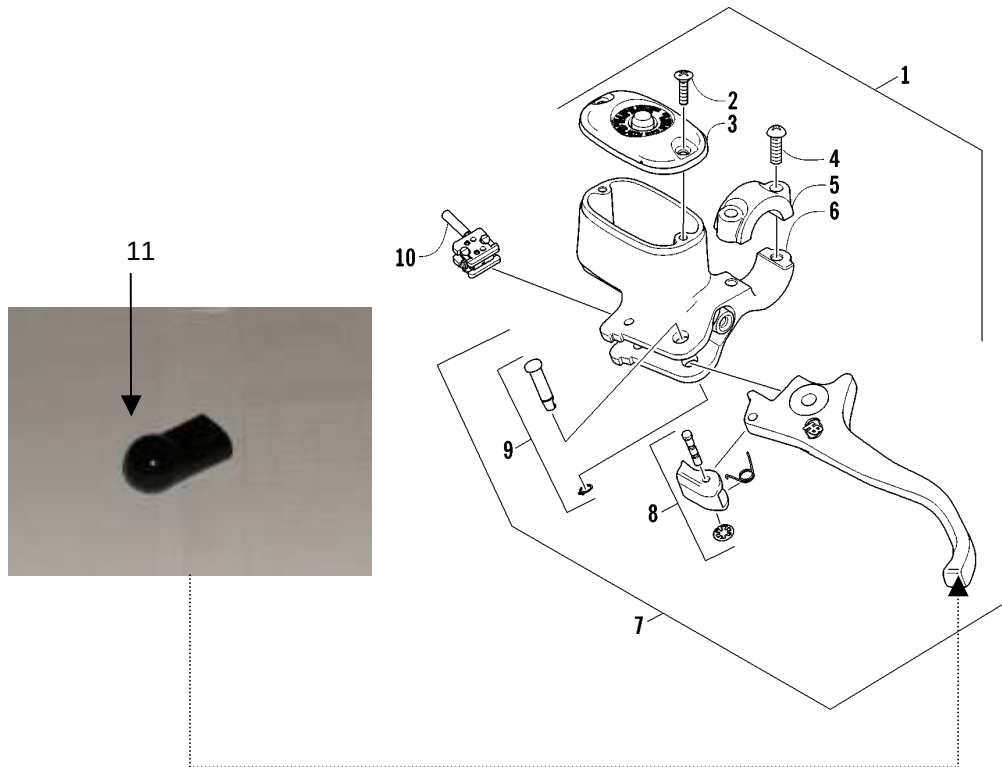
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0423-029	12	Screw, Machine	9	1402-201	2	Tire - Front
2	1402-225	3	Disc, Brake	10	0402-064	4	Stem, Valve (inc. 11)
3	0502-599	2	Hub, Wheel - Front (inc. 4)	11	0402-140	4	● Cap, Valve Stem
4	0402-974	16	● Stud, Wheel Hub	12	0502-601	1	Hub, Wheel - Rear - Left (inc. 4)
5	0423-407	4	Pin, Cotter	13	0502-599	1	Hub, Wheel - Rear - Right (inc. 4)
6	0423-394	4	Nut, Castle	14	1402-287	2	Wheel - Rear - Spoked
7	1402-286	2	Wheel - Front - Spoked	15	1402-202	2	Tire - Rear
8	0423-556	16	Nut, Mounting - Wheel		1402-325	4	Cap, Wheel



AUXILIARY BRAKE ASSEMBLY

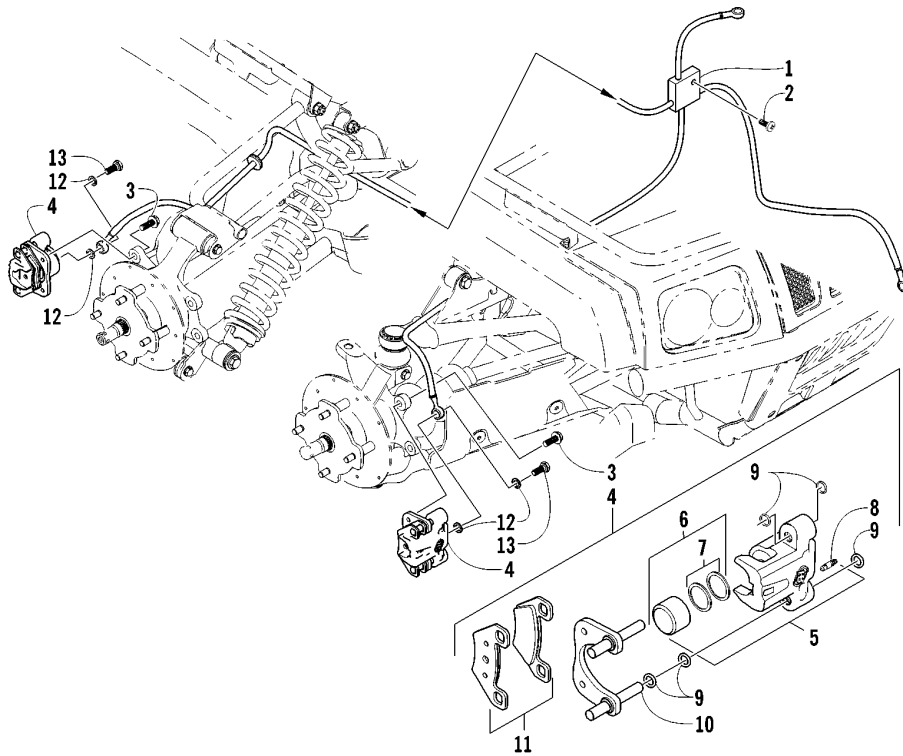
*Not a Service Part

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	<u>0502-656</u>	1	Lever, Brake	19	0123-788	1	Cable Tie 7,5 in.
2	1602-213	2	O-Ring	20	1402-200	1	Hose, Brake
3	<u>0502-713</u>	1	Spring, Brake Lever	21	0423-413	2	Bolt, Banjo Fitting
4	8422-002	1	Nut	22	0423-178	4	Washer, Crush
5	0402-575	1	Pin, Clevis	23	8408-825	4	Screw, Cap
6	0402-583	1	Washer	24	<u>0502-457</u>	1	Caliper, Brake (inc. 25-35)
7	0402-584	1	Pin, Cotter	25	*	1	● Housing, Caliper
8	<u>0502-665</u>	1	Brake Assembly (inc. 9-16)	26	0402-495	1	● Pin, Brake Caliper
9	0402-580	1	● Actuator, Push Rod	27	<u>1402-126</u>	2	● Pad, Brake
10	0402-592	2	● Nut, Jam	28	0423-495	1	● Pin, Cotter
11	*	1	● Master, Cylinder	29	0402-493	1	● Cap, Bleed Valve
12	<u>1402-277</u>	1	● Fitting, Banjo	30	<u>1402-123</u>	1	● Valve, Bleed
13	<u>1402-278</u>	1	● Bolt, Banjo Fitting	31	<u>1402-125</u>	2	● Piston
14	<u>0423-525</u>	2	● Clamp, Hose	32	0402-980	2	● O-Ring, Brake Caliper
15	<u>1402-266</u>	1	● Hose, Brake Reservoir	33	*	1	● O-Ring
16	<u>1402-257</u>	1	● Reservoir, Brake	34	*	1	● Plug
17	8424-602	1	Nut, Flanged	35	*	1	● Ring, Retaining
18	8476-616	1	Screw, Machine				
Homologated ATV's							
36	AC000-252	1	Brake hose				
37	AC000-254	1	Sealing screw				



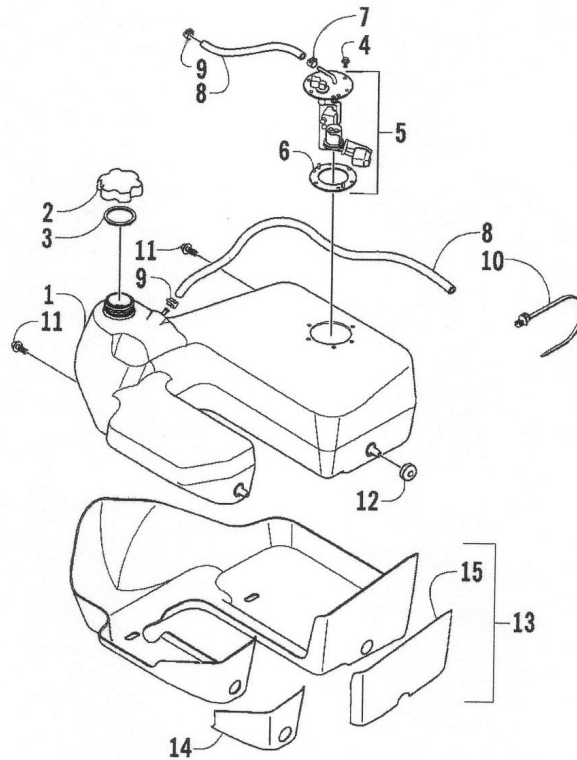
HYDRAULIC HAND BRAKE ASSEMBLY

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	<u>0502-703</u>	1	Brake Assembly (inc.2-10)	6	<u>0502-704</u>	1	● Master Cylinder Assembly – Kit
2	0502-566	1	● Screw, Reservoir Cover – Kit	7	<u>0502-634</u>	1	● Lever Assembly – Kit (inc. 8-9)
3	<u>0502-706</u>	1	● Cover, Reservoir – Kit	8	<u>0502-635</u>	1	● ● Lock, Brake Lever – Kit
4	0502-568	1	● Screw, Master Cylinder Clamp – Kit	9	0502-580	1	● ● Lever Pin – Kit
5	<u>0502-705</u>	1	● Clamp, Master Cylinder – kit	10	0502-564	1	● Switch, Brake – Kit
Homologated ATV's							
11	AC000-032	1	Protection ball				



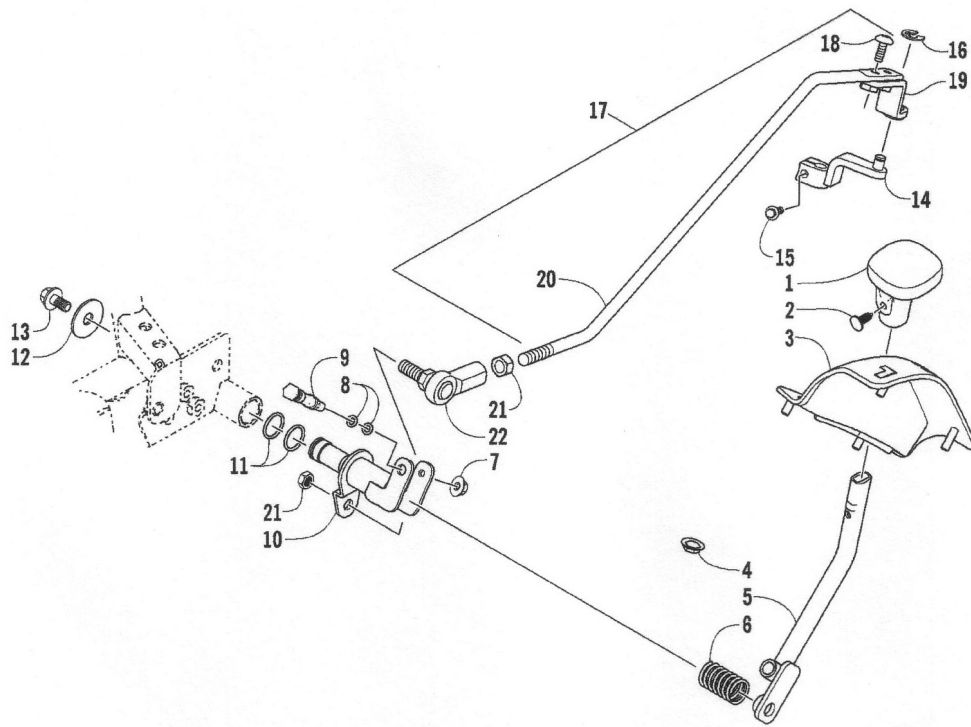
HYDRAULIC BRAKE ASSEMBLY

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0502-627	1	Hose, Brake – Assembly	6	0502-606	3	● ● Piston/Seal Set (inc. 7)
2	8476-625	1	Screw, Cap	7	0502-607	3	● ● ● Seal Set
3	8408-820	6	Screw, Cap	8	0502-609	3	● ● Valve, Bleed
4	0502-602	1	Caliper, Brake – Right Front (inc. 5-11)	9	0502-608	3	● O-Ring, Guide – Set
	0502-610	2	Caliper, Brake – Left Front and Right Rear (inc.5-11)	10	0502-605	3	● Bracket Assembly
5	0502-603	1	● Housing, Caliper – Assembly – Right Front (inc. 6-8)	11	0502-604	3	● Pad, Brake – Set
	0502-611	2	● Housing, Caliper – Assembly – Left Front and Right Rear (inc. 6-8)	12	0423-178	8	Washer, Crush
				13	0423-413	4	Bolt, Banjo Fitting



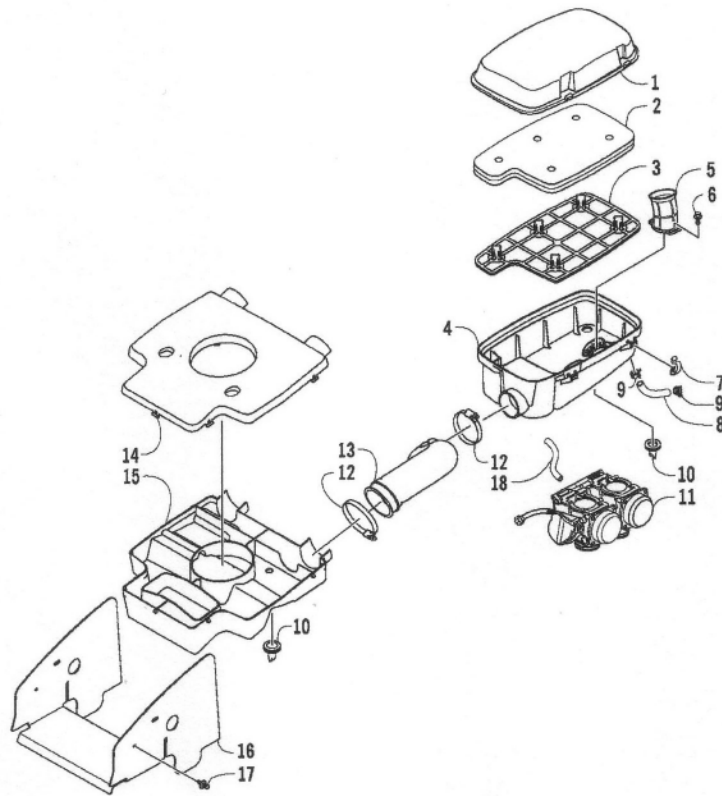
GAS TANK ASSEMBLY

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0570-090	1	Tank, Gas - Assembly (inc. 2-4 and 6)	9	0423-461	2	Clamp, Hose
2	0470-438	1	● Cap, Gas Tank (inc. 3)	10	0423-075	1	Cable Tie - Push-Mount
3	0109-733	1	● Gasket, Tank Cap	11	8408-816	2	Screw, Cap
4	3201-008	6	● Screw, Cap	12	0423-460	2	Grommet
5	3201-434	1	Pump, Fuel (inc. 6)	13	0570-081	1	Shield, Gas Tank (inc. 14-15)
6	3201-009	1	● Damper, Fuel Pump	14	0470-498	1	● Shield, Heat
7	1623-233	1	Clamp, Hose	15	0470-499	1	● Shield, Heat
8	0410-070	AR	Hose, Gasline - 25 ft				



REVERSE SHIFT LEVER ASSEMBLY

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0402-843	1	Handle, Reverse Shift Lever	12	0423-087	1	Washer
2	0423-345	1	Clip, Push	13	8408-812	1	Screw, Cap
3	1402-110	1	Plate, Shift	14	0502-587	1	Arm, Reverse Shift
4	0423-357	4	Nut, Stamped	15	3201-037	1	Screw, Cap
5	0502-659	1	Lever, Reverse Shift	16	0423-169	1	E-Ring
6	0502-410	1	Spring, Reverse Shift Lever	17	0502-695	1	Linkage, Shift (inc. 18-20)
7	8424-602	1	Nut	18	8476-616	2	● Screw, Machine
8	0423-182	2	O-Ring	19	0502-636	1	● Arm, Shift Linkage
9	0402-675	1	Axle, Pivot	20	1402-260	1	● Rod, Shift Linkage
10	0502-742	1	Shaft, Shift	21	0623-294	2	Nut
11	0423-299	2	O-Ring	22	1402-270	1	End, Rod



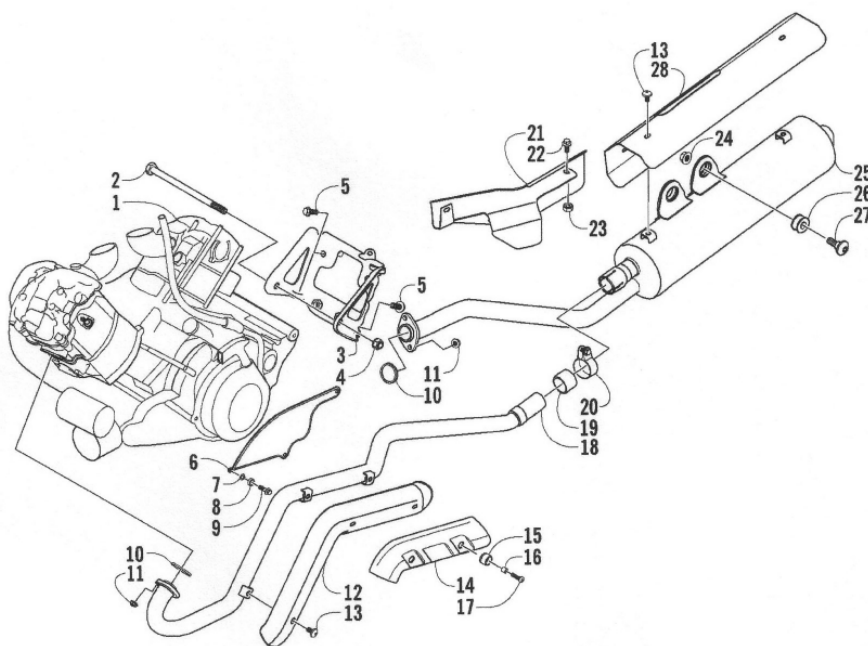
AIR INTAKE ASSEMBLY

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0470-530	1	Cover, Air Intake Housing	10	0470-442	2	Valve, Drain
2	0470-494	1	Filter, Air	11	0470-497	1	Carburetor
3	0470-493	1	Screen, Air Filter	12	0423-380	2	Clamp, Boot
4	0470-485	1	Housing, Air Intake	13	0470-529	1	Boot, Air Intake
5	3201-001	2	Duct, Air Funnel	14	0413-093	1	Diverter, Air - Top
6	3201-002	8	Screw, Cap	15	0413-091	1	Diverter, Air - Bottom
7	0423-455	4	Clip, Spring	16	1406-785	1	Shroud, Splash
8	0410-061	1	Hose, Crankcase Vent	17	0623-362	2	Rivet, Plastic
9	0623-941	2	Clamp, Hose	18	0510-592	1	Hose, Carburetor Drain

2005 ATV 650 V-Twin FIS (Automatic Transmission)

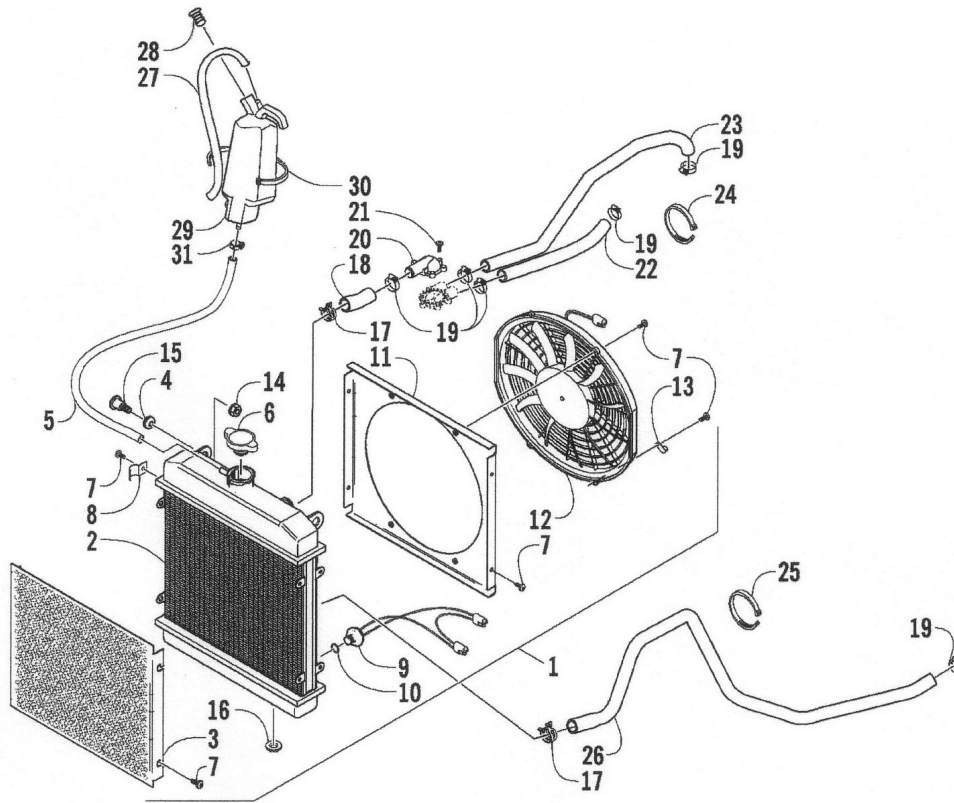


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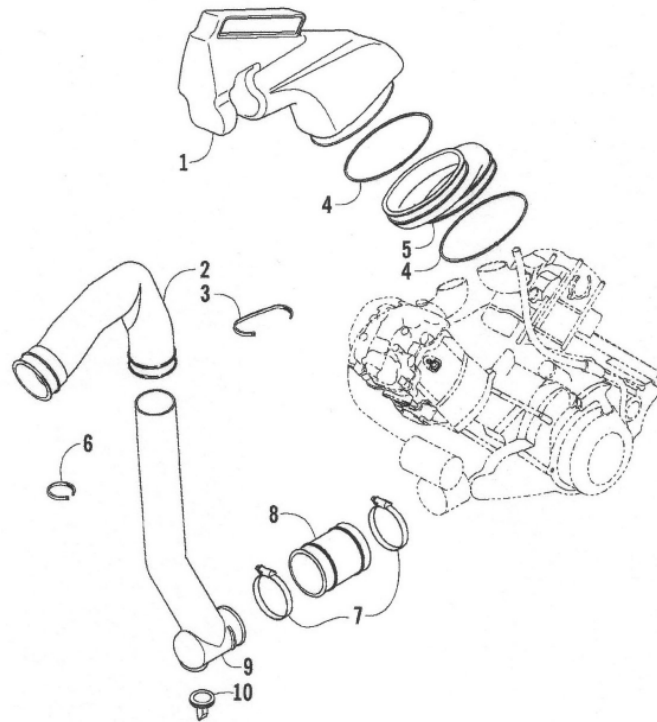
ENGINE AND EXHAUST

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0462-032	1	Engine	15	0423-533	2	Grommet
2	0423-479	2	Screw, Cap	16	0423-036	2	Collar
3	1506-314	1	Bracket, Engine	17	8477-616	2	Screw, Machine
4	8424-202	2	Nut	18	0512-152	1	Pipe, Exhaust
5	8409-020	4	Screw, Cap	19	0412-249	1	Seal, Exhaust
6	1506-420	1	Plate, Heat Guard	20	3201-043	1	Clamp
7	3201-016	3	Collar	21	0412-240	1	Cover Exhaust, Rear
8	<u>3201-015</u>	3	Damper	22	8476-616	3	Screw, Cap
9	3201-017	3	Screw, Cap	23	0623-038	3	Nut, w/Washer
10	3201-013	2	Gasket, Exhaust	24	8424-802	2	Nut, Lock
11	3201-018	4	Nut	25	0512-155	1	Muffler
12	0412-239	1	Cover, Exhaust-Front	26	0412-253	2	Bushing, Muffler
13	8477-610	5	Screw, Machine	27	0423-476	2	Screw, Shoulder
14	1406-644	1	Cover, Exhaust Pipe	28	0412-241	1	Cover, Muffler
Homologated ATV's							
29	AC000-705	1	Exhaust ACE 5				



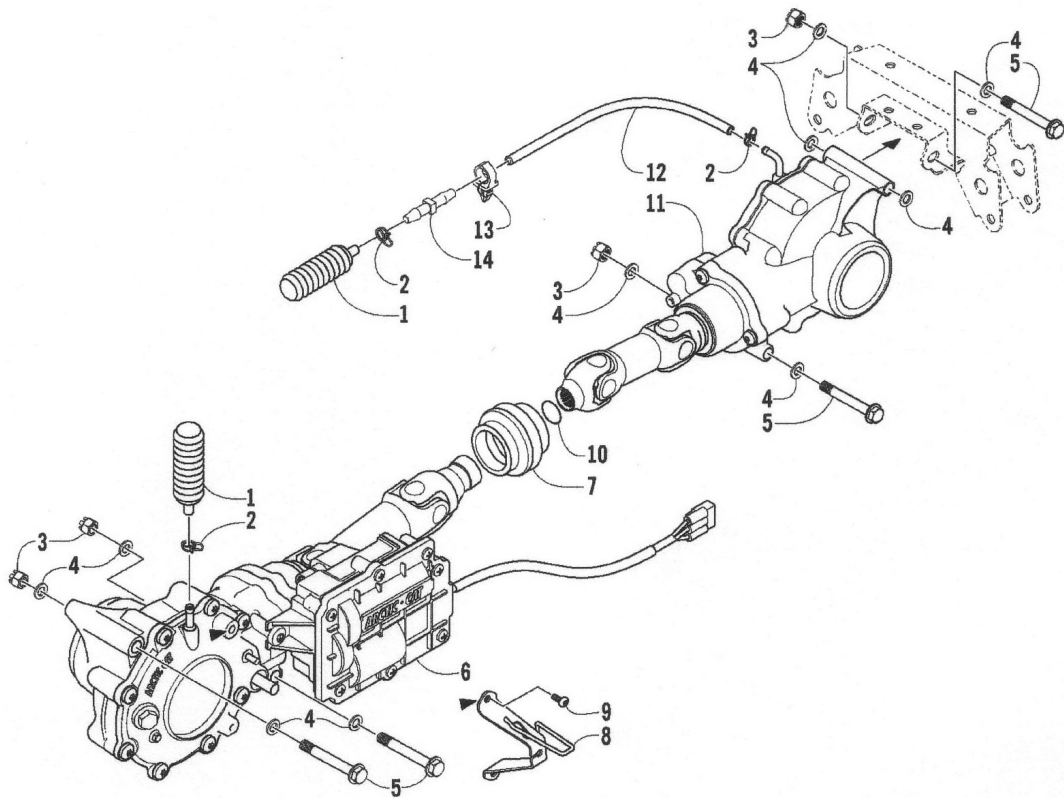
COOLING ASSEMBLY

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0413-117	1	Radiator Assembly (inc. 2-13)	16	0423-028	2	Bushing, Stem
2	0413-043	1	● Radiator	17	0423-070	2	Clamp, Hose
3	0413-007	1	● Screen, Radiator	18	0410-057	1	Hose, Coolant - Front
4	0423-030	2	● Grommet	19	1623-091	6	Clamp, Hose
5	0610-016	AR	● Hose - 25 ft	20	0413-077	1	Housing, Thermostat
6	0610-015	AR	● Hose - 100 ft	21	3201-036	4	Screw, Cap
7	0413-002	1	● Cap, Radiator	22	0410-059	1	Hose, Coolant - Left
8	8475-512	12	● Screw, Machine	23	0410-058	1	Hose, Coolant - Right
9	0423-351	1	● Clamp, Wire	24	0123-788	AR	Cable Tie - 7.5 in.
10	0413-045	1	● Sender, Temperature - Coolant	25	0123-903	1	Cable Tie - 11.5 in.
11	0423-390	1	● O-Ring	26	0410-060	1	Hose, Coolant - Lower
12	0413-046	1	● Shroud, Fan	27	6101-009	AR	Hose, Vent - 50 ft
13	0413-044	1	● Fan, Cooling	28	0413-087	1	Stopper, Coolant Bottle
14	0123-397	1	● Clamp, Cable	29	0413-086	1	Bottle, Coolant Overflow
15	0623-038	2	Nut w/Washer	30	0623-316	1	Cable Tie - Single Loop
	0423-484	2	Screw, Shoulder	31	0124-045	1	Clamp, Hose



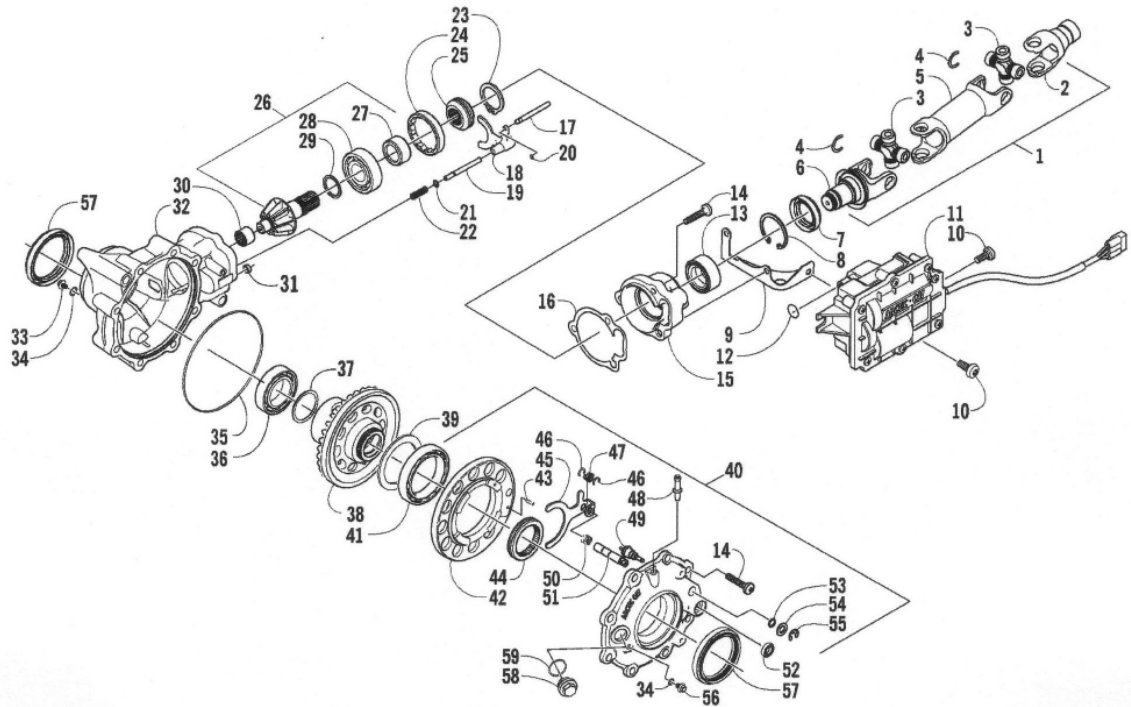
CASE/BELT COOLING ASSEMBLY

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0413-112	1	Duct, Air-Out	6	0123-788	2	Cable Tie - 7.5 in.
2	0413-092	1	Boot, Air-In	7	0423-380	4	Clamp, Boot
3	0123-903	1	Cable Tie - 11.5 in.	8	0413-085	1	Boot, Air-In Duct
4	3201-038	2	Clamp, Boot	9	0513-010	1	Duct, Air-In
5	0413-083	1	Boot, Air-Out Duct	10	0470-442	1	Valve, Drain



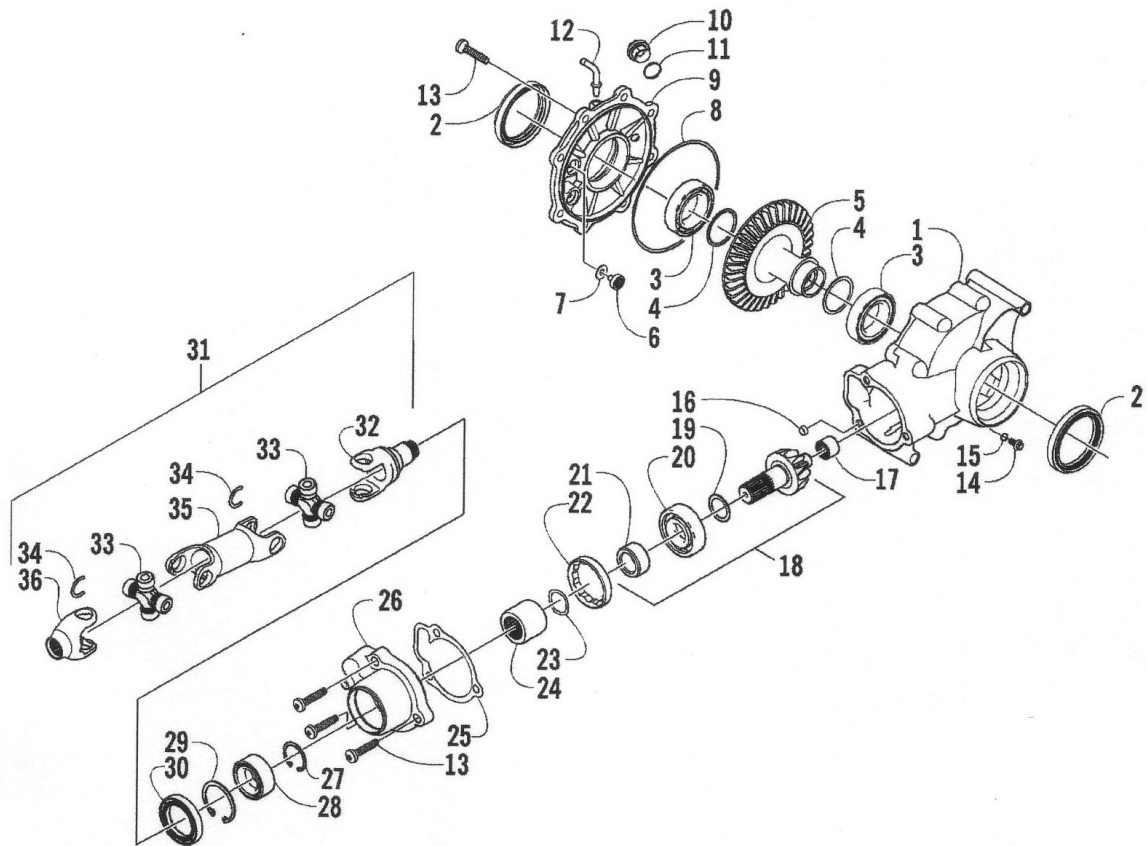
DRIVE TRAIN ASSEMBLY

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0402-147	2	Bladder, Gearcase	8	0502-500	1	Plate, Cable
2	0423-315	4	Clamp, Fitting	9	0423-396	2	Screw, Self-Tapping
3	8428-002	4	Nut, Lock	10	1402-203	1	O-Ring
4	0423-426	10	Washer	11	0502-616	1	Gearcase, Rear
5	0423-404	4	Screw, Cap	12	0410-049	AR	Hose, Vent
6	0502-615	1	Gearcase, Front	13	0623-101	1	Clip, Routing - Snap-In
7	0402-967	1	Boot, Shaft	14	0470-462	1	Fitting, Vent



FRONT DRIVE GEARCASE ASSEMBLY

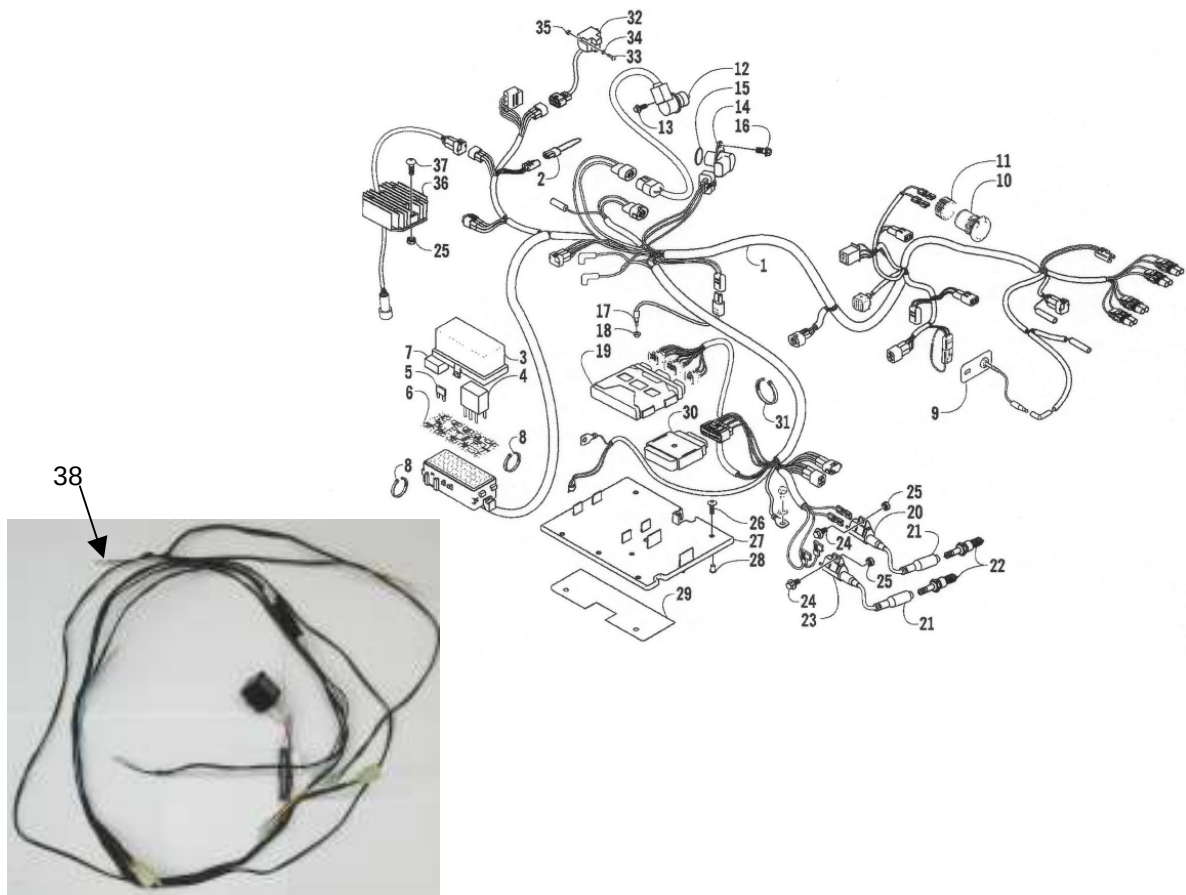
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0502-381	1	Driveshaft Assembly (inc. 2-6)	33	1402-210	1	Plug, Magnetic (inc. one No. 34)
2	0502-517	1	● Yoke, Front	34	0423-153	2	● O-Ring
3	1402-164	2	● Joint, Universal (inc. 4)	35	0423-149	1	O-Ring
4	0423-450	8	● Ring, Retaining	36	0402-393	1	Bearing
5	0502-524	1	● Driveshaft	37	0402-405	AR	Shim
6	0502-521	1	● Yoke, Front Slip		0402-406	AR	Shim
7	1402-011	1	Seal		0402-407	AR	Shim
8	0423-423	1	Ring, Retaining		0402-408	AR	Shim
9	0502-347	1	Bracket, Actuator		0402-409	AR	Shim
10	0423-396	3	Screw, Self-Tapping	38	0502-411	1	Gear, Ring - 36T
11	0502-579	1	Actuator (inc. 12)	39	1402-074	AR	Shim
12	0423-498	1	● O-Ring		1402-075	AR	Shim
13	1402-043	1	Bearing		1402-076	AR	Shim
14	0423-118	11	Screw, Self-Tapping		1402-077	AR	Shim
15	0502-528	1	Housing, Pinion		1402-078	AR	Shim
16	0402-947	1	Gasket, Flange	40	0502-434	1	Cover, Gearcase (inc. one No. 34, 41-56, and one No. 57)
17	0402-997	1	Shaft, Selector	41	1402-053	1	● Bearing
18	0402-998	1	Fork, Selector	42	0502-413	1	● Flange, Bearing
19	0402-417	1	Shaft, Shuttle	43	1402-079	1	● Pin, Parallel
20	0423-402	1	Ring, Retaining	44	1402-042	1	● Collar, Sliding
21	0423-147	1	O-Ring	45	1402-054	1	● Fork
22	0402-999	1	Spring, Return	46	1402-058	2	● Ring, Retaining
23	0423-417	1	Ring, Retaining	47	1402-057	1	● Spring
24	0402-357	1	Collar, Lock	48	1402-104	1	● Fitting
25	0402-413	1	Coupler, Drive	49	0402-419	1	● Switch, Indicator
26	0502-123	1	Gear, Pinion - Assembly - 10T (inc. 27-29)	50	1402-063	1	● Spring
27	0402-336	1	● Collar, Retaining	51	1402-055	1	● Shaft, Lock
28	0402-327	1	● Bearing	52	1402-056	1	● Seal
29	0402-424	AR	● Shim	53	0423-133	1	● O-Ring
	0402-425	AR	● Shim	54	0423-132	1	● Washer
	0402-426	AR	● Shim	55	0423-424	1	● Ring, Retaining
	0402-427	AR	● Shim	56	1402-211	1	● Plug, Oil Level (inc. one No. 34)
	0402-428	AR	● Shim	57	0402-394	2	● Seal
30	0402-328	1	Bearing	58	0402-333	1	Plug, Fill (inc. 59)
31	0402-411	1	Pin, Dowel	59	0423-154	1	● O-Ring
32	0502-514	1	Housing, Gearcase				



REAR DRIVE GEARCASE ASSEMBLY

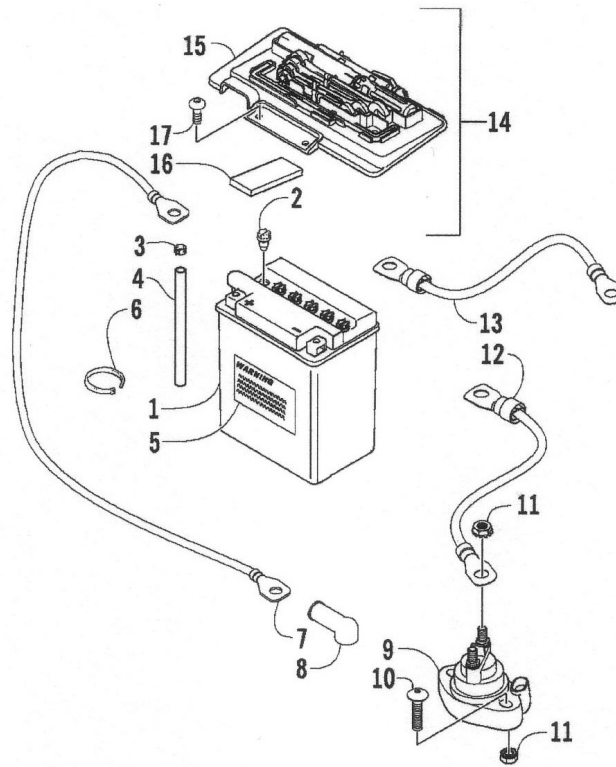
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0502-622	1	Housing, Gearcase	17	0402-328	1	Bearing
2	0402-394	2	Seal	18	0502-123	1	Gear, Pinion - Assembly - 10T (inc. 19-21)
3	0402-393	2	Bearing	19	0402-424	AR	● Shim
4	0402-405	AR	Shim		0402-425	AR	● Shim
	0402-406	AR	Shim		0402-426	AR	● Shim
	0402-407	AR	Shim		0402-427	AR	● Shim
	0402-408	AR	Shim		0402-428	AR	● Shim
	0402-409	AR	Shim	20	0402-327	1	● Bearing
5	1402-032	1	Gear, Ring - 36T	21	0402-336	1	● Collar, Retaining
6	0402-326	1	Button, Thrust	22	0402-331	1	Collar, Lock
7	0402-429	AR	Shim	23	0402-982	1	Washer, Wave
	0402-430	AR	Shim	24	0402-981	1	Collar, Shaft
	0402-431	AR	Shim	25	0402-947	1	Gasket, Flange
	0402-432	AR	Shim	26	0502-529	1	Housing, Pinion
	0402-433	AR	Shim	27	0423-417	1	Ring, Retaining
8	0423-149	1	O-Ring	28	1402-043	1	Bearing
9	0502-346	1	Cover, Gearcase	29	0423-423	1	Ring, Retaining
10	0402-333	1	Plug, Fill (inc. 11)	30	1402-011	1	Seal
11	0423-154	1	● O-Ring	31	0502-382	1	Driveshaft Assembly (inc. 32-36)
12	1402-102	1	Fitting	32	0502-518	1	● Yoke, Rear
13	0423-118	11	Screw, Self-Tapping	33	0402-944	2	● Joint, Universal (inc. 34)
14	1402-210	1	Plug, Magnetic (inc. 15)	34	0423-395	8	● Ring, Retaining
15	0423-153	1	● O-Ring	35	0502-525	1	● Driveshaft
16	0402-411	1	Pin, Dowel	36	0502-522	1	● Yoke, Rear Slip

2005 ATV 650 V-Twin FIS (Automatic Transmission)



WIRING HARNESS ASSEMBLY

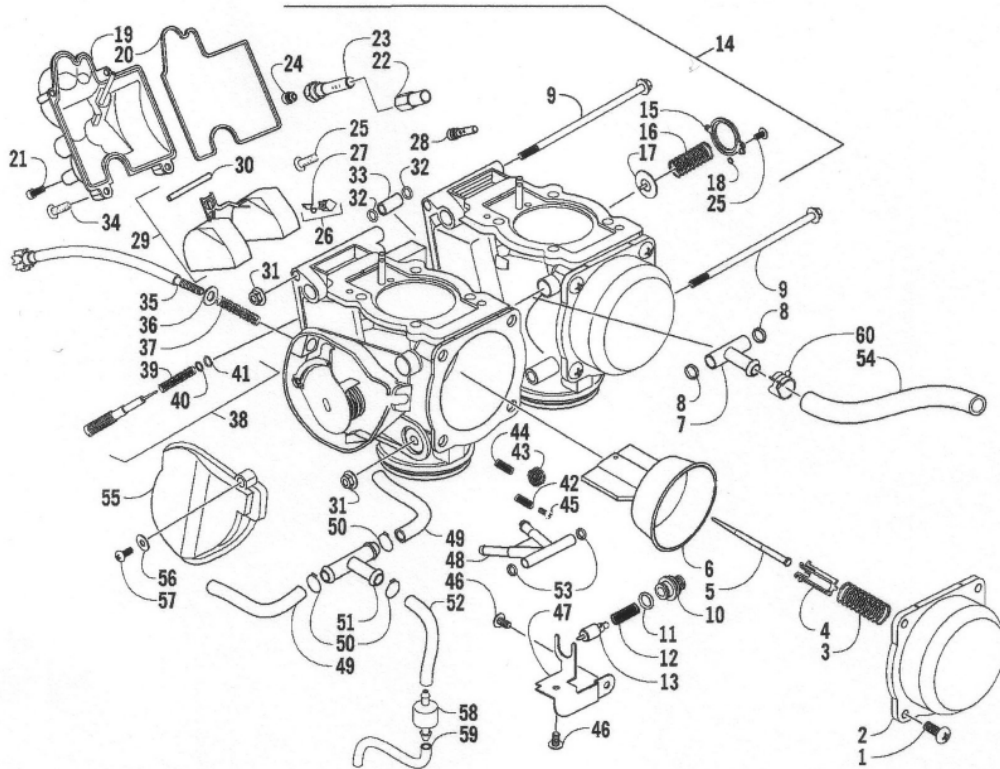
Ref.	Part No.	Qty	Description	Ref.	Part No.	Qty	Description
1	0486-157	1	Harness, Main (inc.2-7,8)	19	3201-039	1	CDI
2	0486-164	1	Tether, Accessory Con.	20	3201-010	1	Coil, Ignition Front
3	0530-008	1	Cover, Fuse Block	21	3201-012	2	Cap, Spark Plug
4	0430-033	4	Relay	22	0217-708	2	Spark Plug (NGK CR7E)
5	0430-032	5	Fuse, 10 Amp	23	3201-011	1	Coil, Ignition Rear
	0430-031	3	Fuse, 15 Amp	24	8476-620	2	Screw, Cap
	0430-030	2	Fuse, 30 Amp	25	0623-038	4	Nut w/Washer
6	0411-903	1	Decal, Fuse Block	26	0623-121	4	Screw, Machine
7	0430-037	1	Holder, Fuse	27	1406-697	1	Tray, Electrical
8	0123-788	AR	Cable Tie-7.5 in.	28	0123-010	4	Nut, Expansion
9	0509-011	1	Diode Assy.	29	0412-290	1	Shield, Heat
10	0445-022	1	Receptacle, 12V(incl. 11)	30	3201-040	1	Controller, Actuator
11	0445-034	1	Nut, Retainer	31	0123-903	4	Cable Tie-11.5in.
12	3201-191	1	Sensor, Reverse	32	0409-064	1	Switch, Invert Sensor
13	3201-141	1	Screw, Cap	33	8468-425	2	Screw
14	3201-190	1	Sensor Speed (inc. 15)	34	0123-802	2	Washer, Flat
15	3201-343	1	O-Ring	35	0423-493	2	Nut w/Washer
16	3201-036	1	Screw, Cap	36	0430-035	1	Regulator, Voltage
17	0409-009	1	Switch, Brake-Assy.	37	8476-630	2	Screw, Machine
18	0402-991	1	Retainer, Switch				
Homologated ATV's							
38	AC000-226	1	Harness 2005				



BATTERY AND SOLENOID ASSEMBLY

*Not Illustrated

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0745-045	1	Battery Assembly (inc. 2-5)	11	0623-038	4	Nut w/Washer
2	0645-045	6	● Cap, Battery	12	0445-041	1	Cable, Solenoid/Starter
3	0645-152	1	● Clamp, Hose	13	0445-047	1	Cable, Battery/Ground
4	0645-263	1	● Hose, Battery Vent	14	5990-839	1	Battery Cover/Tool Tray Assembly (inc. 15-16)
5	0645-151	1	● Label, Warning - Battery	15	1406-507	1	● Cover, Battery
6	0123-788	2	Cable Tie - 7.5 in.	16	0406-288	2	● Pad, Battery
7	0445-046	1	Cable, Battery/Solenoid	*	0444-122	1	Kit, Tool
8	0645-327	1	Boot, Terminal	17	8476-616	2	Screw, Machine
9	0445-036	1	Solenoid				
10	8476-625	2	Screw, Machine				

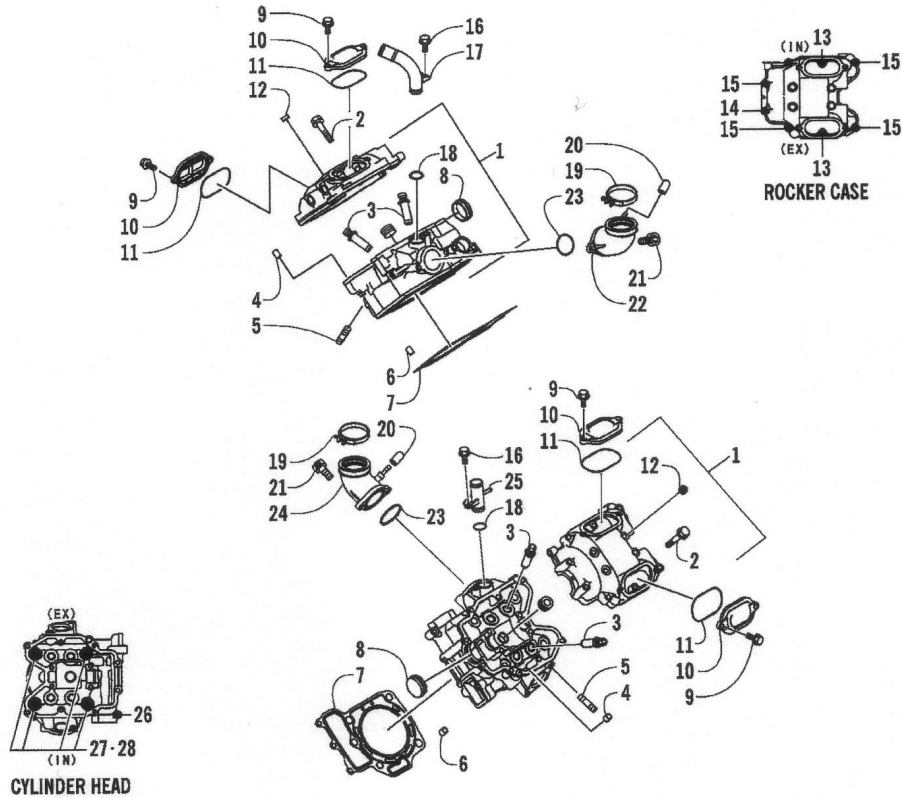


CARBURETOR

0740-279 *Not a Service Part

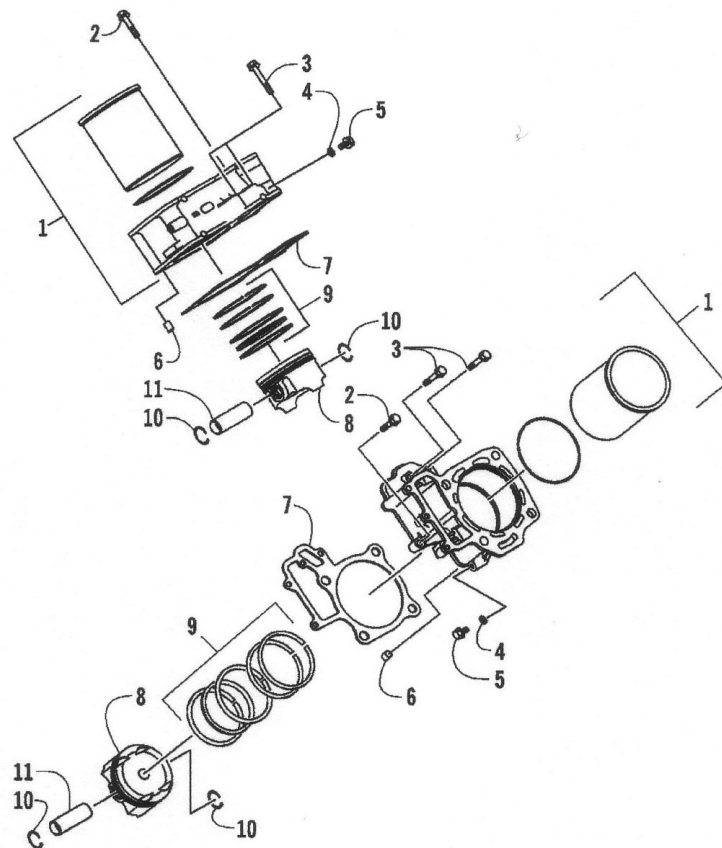
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	5507-037	8	Screw, Top Cover	28	5507-127	2	Slow Jet - 40
2	5507-118	2	Cover, Top	29	5507-163	2	Float Set (inc. 30)
3	5507-119	2	Spring	30	*	2	● Pin, Float
4	5507-121	2	Seat, Spring	31	5507-145	2	Nut
5	5507-122	2	Jet Needle	32	5507-152	2	O-Ring
6	5507-120	2	Piston, Vacuum	33	5507-151	1	Fitting, Straight
7	5507-153	1	T-Fitting	34	5507-002	8	Screw
8	5507-154	2	O-Ring	35	5507-141	1	Screw, Idle Adjust
9	5507-144	2	Bolt	36	5507-142	2	Washer
10	5507-136	2	Cap, Starter Valve	37	5507-143	1	Spring
11	5507-137	2	O-Ring	38	5507-164	2	Screw, Pilot - Set (inc. 39-41)
12	5507-135	2	Spring	39	*	2	● Spring
13	5507-134	2	Valve, Starter	40	*	2	● Washer
14	5507-165	2	Chamber, Float - Assembly (inc. 15-21)	41	*	2	● O-Ring
15	*	2	● Housing, Pump	42	5507-148	1	Spring
16	5507-139	2	● Spring	43	5507-149	1	Spring
17	5507-138	2	● Diaphragm Assembly	44	5507-147	1	Spring
18	5507-034	2	● O-Ring	45	5507-146	1	Screw, Stop
19	*	2	● Chamber, Float	46	5507-106	4	Screw
20	5507-172	2	● O-Ring, Float Chamber	47	5507-150	2	Plate, Stay
21	5507-133	2	● Screw, Drain	48	5507-155	1	T-Fitting
22	5507-123	2	Holder, Jet	49	5507-159	2	Hose
23	5507-124	2	Needle Jet	50	5507-161	5	Clamp, Hose
24	5507-185	2	Main Jet - 122 - Front/Rear	51	5507-158	1	T-Fitting
	5507-126	1	Main Jet - 115 - Front (4-6,500 ft Alt.)	52	5507-160	1	Hose
	5507-166	1	Main Jet - 110 - Rear (4-6,500 ft Alt.)	53	5507-156	4	O-Ring
	5507-166	1	Main Jet - 110 - Front (6,500-8,000 ft Alt.)	54	0410-069	1	Hose
	5507-166	1	Main Jet - 110 - Rear (6,500-8,000 ft Alt.)	55	3201-053	1	Cover, Throttle Cable
	5507-167	1	Main Jet - 105 - Front (Over 8,000 ft Alt.)	56	3201-056	1	Washer
	5507-166	1	Main Jet - 110 - Rear (Over 8,000 ft Alt.)	57	3201-054	1	Screw, Machine
25	5507-132	6	Screw	58	3201-055	1	Valve, Check
26	5507-038	2	Valve, Float - Set (inc. 27)	59	3201-057	1	Hose
27	*	2	● Clip	60	0423-461	1	Clamp, Hose

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CYLINDER HEAD ASSEMBLY

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	3201-409	1	Head, Cylinder - Front (inc. 2-3)	15	3201-146	8	Screw, Cap
	3201-410	1	Head, Cylinder - Rear (inc. 2-3)	16	3201-144	2	Screw, Cap
2	3201-368	8	● Bolt	17	3201-046	1	Pipe, Water
3	3201-216	AR	● Guide, Valve	18	3201-048	2	O-Ring
4	3201-304	4	Pin	19	3201-049	2	Clamp
5	3201-264	4	Stud	20	3201-354	2	Plug
6	3201-307	4	Pin	21	3201-099	4	Bolt
7	3201-061	2	Gasket, Head	22	3201-172	1	Holder, Carburetor - Front
8	3201-353	2	Plug	23	3201-337	2	O-Ring
9	3201-036	8	Screw, Cap	24	3201-173	1	Holder, Carburetor - Rear
10	3201-075	4	Cap, Rocker Case	25	3201-047	1	Pipe, Water
11	3201-342	4	O-Ring	26	3201-150	2	Screw, Cap
12	3201-071	8	Gasket	27	3201-377	8	Bolt
13	3201-140	4	Screw, Cap	28	3201-279	8	Washer
14	3201-145	4	Screw, Cap				

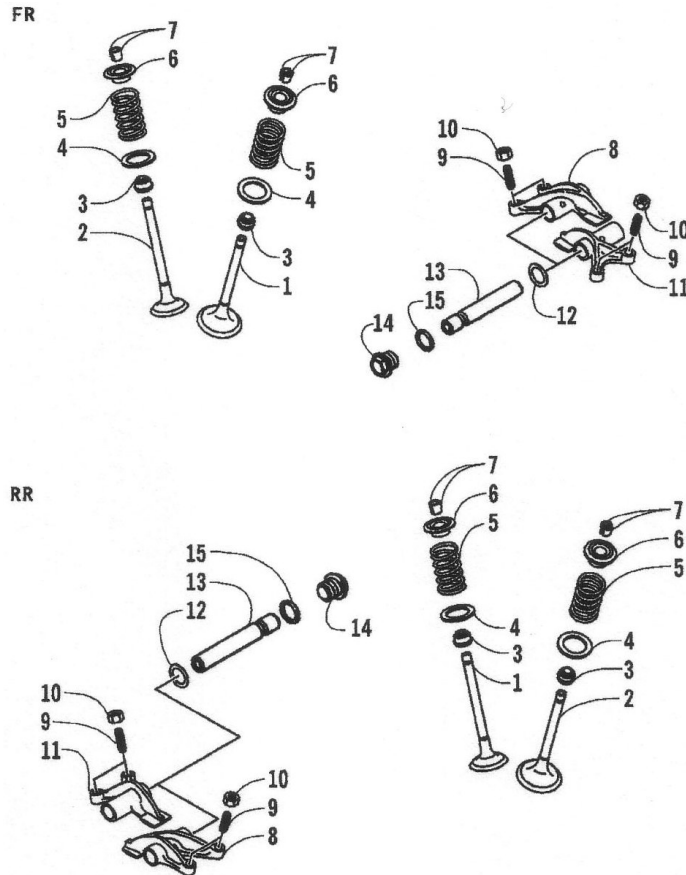


CYLINDER/PISTON ASSEMBLY

*Optional

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	3201-062	1	Cylinder, Engine - Front	7	3201-069	2	Gasket, Cylinder Base
	3201-063	1	Cylinder, Engine - Rear	8	3201-100	2	Piston, Engine
2	3201-146	2	Screw, Cap		3201-104	AR	Piston, Engine (Oversized 0.50 mm)*
3	3201-147	4	Screw, Cap	9	3201-102	2	Ring, Set, Piston
4	3201-281	2	Washer		3201-103	AR	Ring, Set, Piston (Oversized 0.50 mm)*
5	3201-144	2	Screw, Cap	10	3201-299	4	Ring, Snap
6	3201-307	4	Pin	11	3201-101	2	Pin, Piston

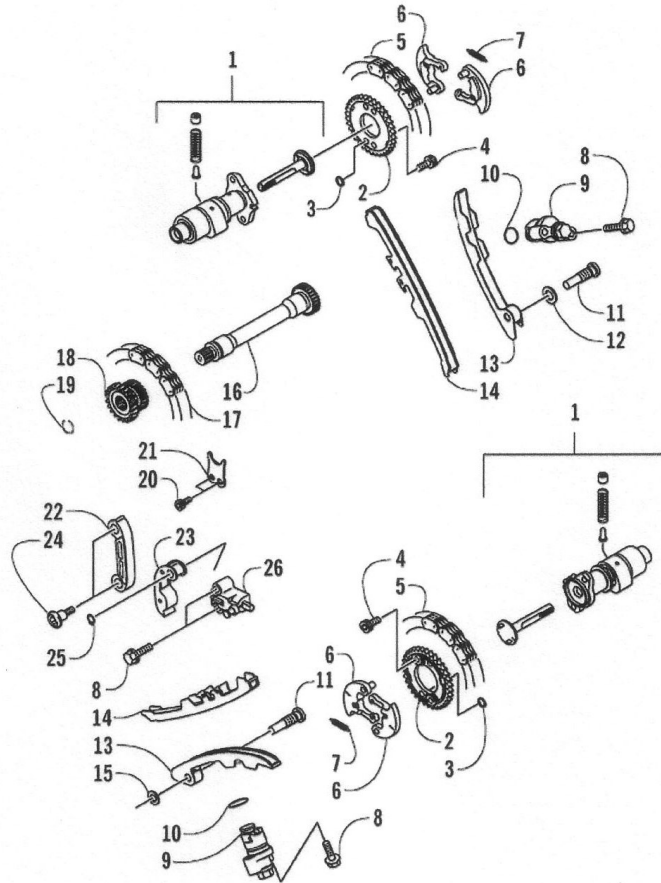
2005 ATV 650 V-Twin FIS (Automatic Transmission)



VALVE ASSEMBLY

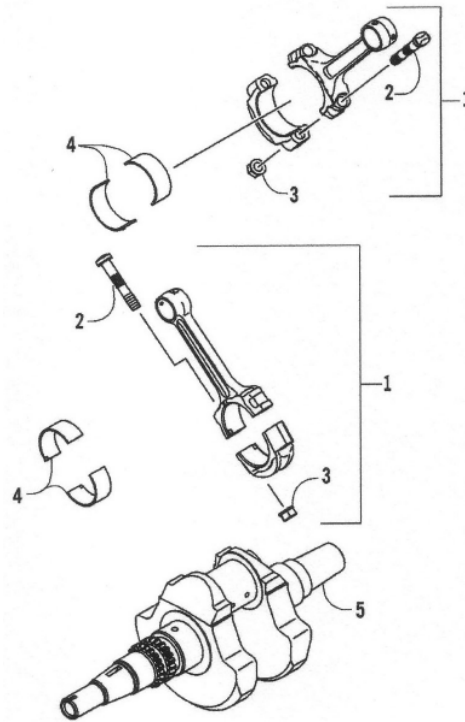
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	<u>3201-406</u>	4	Valve, Intake	9	3201-270	8	Screw
2	<u>3201-407</u>	4	Valve, Exhaust	10	3201-275	8	Nut
3	3201-322	8	Seal, Oil	11	3201-081	2	Arm, Rocker - Intake
4	3201-169	8	Seat, Spring	12	3201-401	4	Washer, Rocker Arm
5	3201-233	8	Spring, Engine Valve	13	<u>3201-411</u>	4	Shaft, Rocker
6	3201-078	8	Retainer, Valve Spring	14	<u>3201-413</u>	4	Plug, Drain
7	3201-079	16	Collet	15	<u>3201-412</u>	4	Gasket
8	3201-080	2	Arm, Rocker - Exhaust				

2005 ATV 650 V-Twin FIS (Automatic Transmission)



CAMSHAFTS/TENSIONER ASSEMBLY

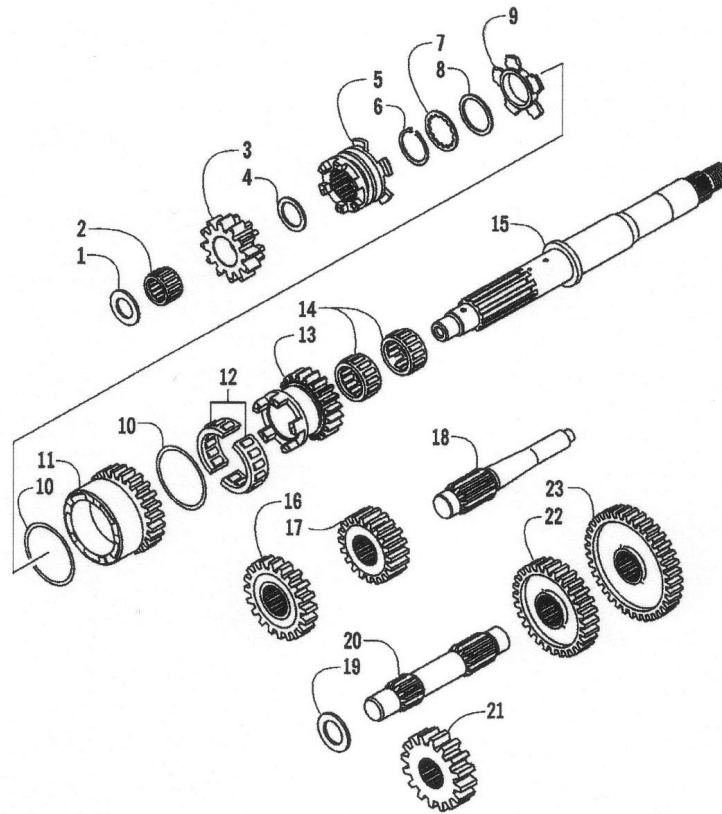
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	3201-238	1	Camshaft Assembly - Front	13	3201-089	2	Guide, Chain - Slack
	3201-239	1	Camshaft Assembly - Rear	14	3201-088	2	Guide, Chain - Tension
2	3201-083	2	Sprocket, Camshaft - 34T	15	3201-209	1	Washer
3	3201-214	4	Circlip	16	3201-417	1	Shaft, Secondary
4	3201-093	4	Bolt	17	3201-415	1	Chain, Secondary Shaft
5	3201-414	2	Chain, Camshaft	18	3201-416	1	Sprocket, Secondary Shaft - 21T and 17T
6	3201-106	4	Weight	19	3201-418	1	Circlip
7	3201-364	2	Spring	20	3201-098	2	Bolt
8	3201-146	6	Screw, Cap	21	3201-158	1	Plate, Position - Drive
9	3201-085	2	Tensioner, Cam - Assembly	22	3201-090	1	Guide, Chain - Tension
10	3201-331	2	O-Ring	23	3201-092	1	Guide, Chain - Slack
11	3201-116	1	Shaft, Chain Guide - Front	24	3201-379	2	Bolt
	3201-117	1	Shaft, Chain Guide - Rear	25	3201-298	1	Ring, Snap
12	3201-070	1	Gasket	26	3201-086	1	Tensioner, Secondary - Assembly



CRANKSHAFT ASSEMBLY

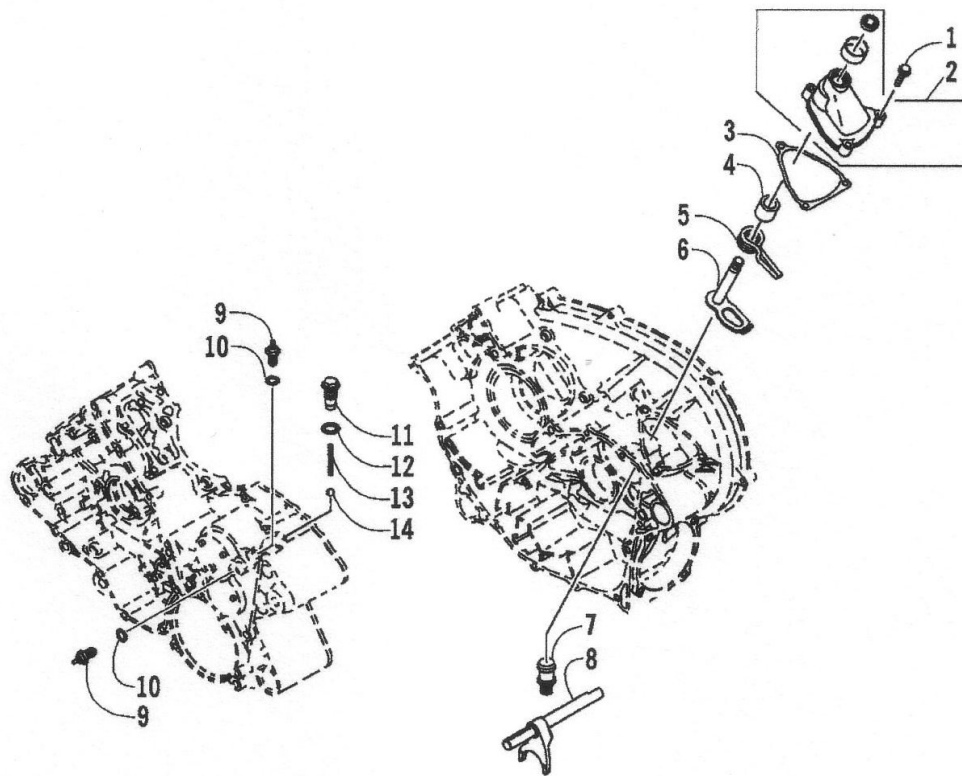
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	3201-128	2	Rod, Connecting - Assembly (inc 2-3)	5	3201-105	1	Crankshaft Assembly
2	3201-263	4	● Bolt, Connecting Rod				
3	3201-271	4	● Nut				
4	3201-293	AR	Bushing, Connecting Rod - Green				
	3201-294	4	Bushing, Connecting Rod - Yellow				
	3201-295	AR	Bushing, Connecting Rod - Brown				

2005 ATV 650 V-Twin FIS (Automatic Transmission)



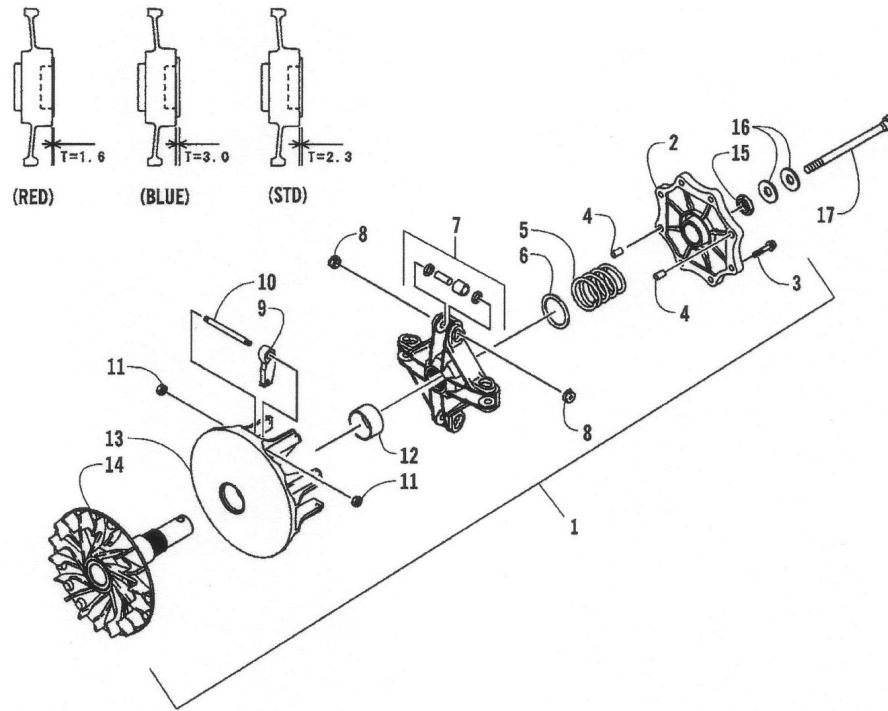
TRANSMISSION ASSEMBLY

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	3201-283	1	Spacer	13	3201-137	1	Gear, Input - Low - 20T
2	3201-320	1	Bearing, Reverse Input Gear	14	3201-319	2	Bearing, Low Input Gear
3	3201-130	1	Gear, Input - Reverse - 12T	15	3201-425	1	Shaft, Transmission Input
4	3201-285	1	Spacer	16	3201-135	1	Gear, Driven - Reverse - 16T
5	3201-120	1	Shifter	17	3201-134	1	Gear, Output - Reverse - 16T
6	3201-297	1	Ring, Snap	18	3201-115	1	Shaft, Idle - Reverse
7	3201-397	1	Washer	19	3201-398	1	Washer
8	3201-288	1	Spacer	20	3201-419	1	Shaft, Output
9	3201-290	1	Spacer	21	3201-133	1	Gear, Output - Drive - 18T
10	3201-289	2	Spacer	22	3201-132	1	Gear, Driven - High - 30T
11	3201-129	1	Gear, Input - High - 26T	23	3201-131	1	Gear, Driven - Low - 36T
12	3201-317	1	Bearing, High Input Gear				



GEAR SHIFTING ASSEMBLY

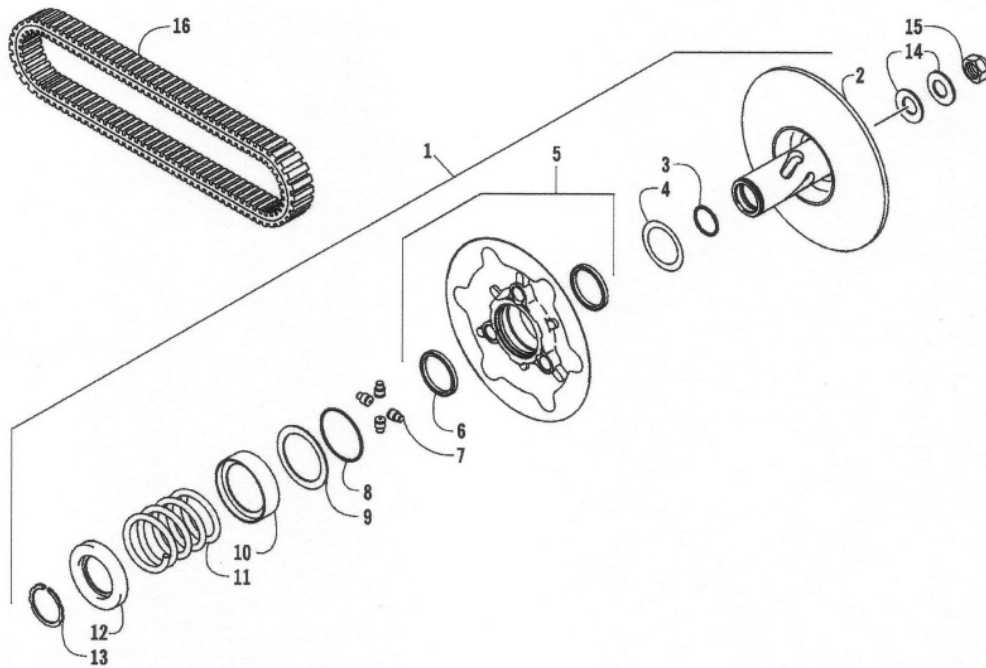
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	3201-146	3	Screw, Cap	8	3201-219	1	Rod, Shift
2	3201-160	1	Cover, Shift Lever - Assembly	9	3201-121	2	Switch, Neutral - Assembly
3	3201-067	1	Gasket, Shift Lever Cover	10	3201-348	2	Gasket
4	3201-109	1	Guide	11	3201-372	1	Bolt
5	3201-363	1	Spring, Shift Lever	12	3201-066	1	Gasket, Rocker Shaft
6	3201-124	1	Lever, Shift	13	3201-361	1	Spring
7	3201-375	1	Bolt, Shift Rod	14	3201-249	1	Ball, Steel



DRIVE CLUTCH

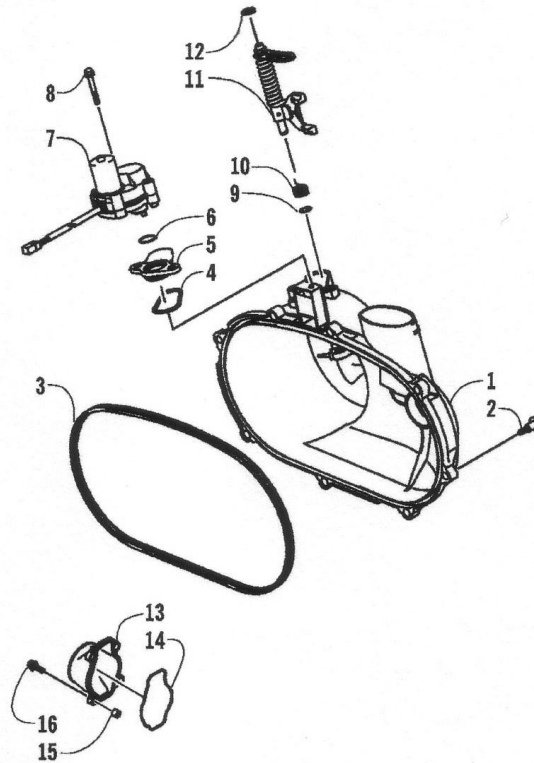
*Optional

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	3201-236	1	Clutch, Drive (inc. 2-14)	3201-225	AR	● Shoe - 7.7 mm	
2	3201-164	AR	● Cover Assembly - STD	3201-226	AR	● Shoe - 7.8 mm	
	3201-162	AR	● Cover Assembly - Red*	3201-227	AR	● Shoe - 7.9 mm	
	3201-163	AR	● Cover Assembly - Blue*	3201-228	AR	● Shoe - 8.0 mm	
3	3201-112	8	● Screw, Cap	9	3201-203	4	● Weight, Ramp
4	3201-304	2	● Pin	10	3201-306	4	● Pin
5	3201-360	1	● Spring	11	3201-276	8	● Nut, Lock
6	3201-291	1	● Spacer	12	3201-296	1	● Bushing
7	3201-229	1	● Spider Assembly	13	3201-245	1	● Sheave, Movable
8	3201-222	8	● Shoe - 7.4 mm	14	3201-248	1	● Sheave, Stationary
	3201-220	AR	● Shoe - 7.2 mm	15	3201-402	1	Washer
	3201-221	AR	● Shoe - 7.3 mm	16	3201-399	2	Washer, Spring
	3201-223	AR	● Shoe - 7.5 mm	17	3201-370	1	Bolt
	3201-224	AR	● Shoe - 7.6 mm				



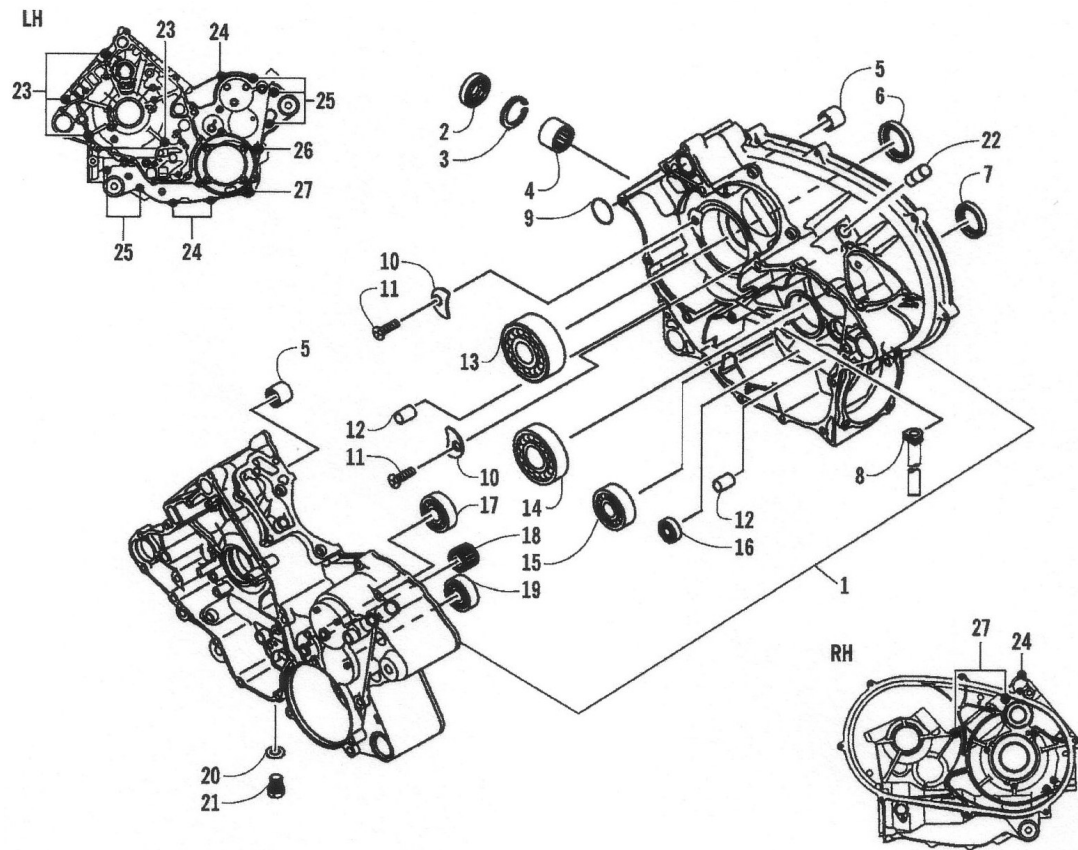
DRIVEN CLUTCH

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	3201-237	1	Clutch, Driven (inc. 2-13)	7	3201-358	4	● Roller
2	3201-246	1	● Sheave, Stationary	8	3201-261	1	● O-Ring
3	3201-260	1	● O-Ring	9	3201-232	1	● Plate, Thrust
4	3201-284	1	● Spacer - 1.00 mm	10	3201-171	1	● Seat, Spring - Movable Sheave
	3201-282	AR	● Spacer - 0.30 mm	11	3201-365	1	● Spring - Yellow
	3201-286	AR	● Spacer - 0.60 mm	12	3201-170	1	● Seat, Spring
	3201-287	AR	● Spacer - 1.40 mm	13	3201-300	1	● Ring, Snap
	3201-292	AR	● Spacer - 0.80 mm	14	3201-400	2	Washer
5	3201-247	1	● Sheave, Movable (inc. 6)	15	3201-404	1	Nut
6	3201-325	2	● Seal, Oil	16	3201-242	1	Belt



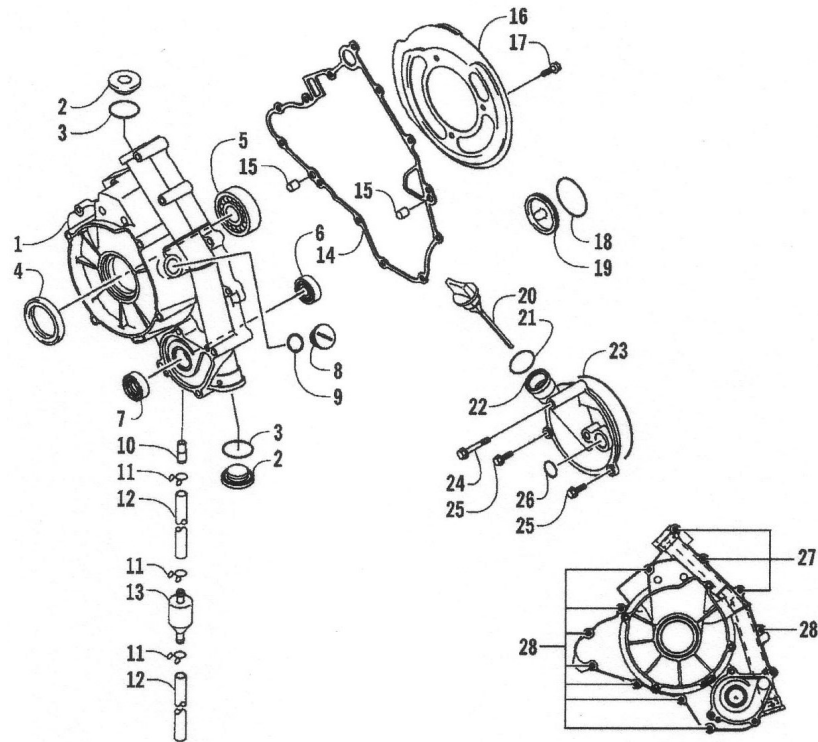
CLUTCH COVER

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	3201-161	1	Cover, Clutch	10	3201-366	1	Spring
2	3201-371	8	Bolt	11	3201-429	1	Lever Assembly - Unpainted
3	3201-202	1	Trim, Seal		3201-427	AR	Lever Assembly - Yellow*
4	3201-357	1	Seal		3201-428	AR	Lever Assembly - Green*
5	3201-167	1	Cover, Engine Brake	12	3201-280	1	Washer
6	3201-259	1	O-Ring	13	3201-267	1	Fitting
7	3201-430	1	Actuator, Engine Brake	14	3201-340	1	O-Ring
8	3201-431	3	Screw, Cap	15	3201-378	4	Collar
9	3201-211	1	Circlip	16	3201-037	4	Screw, Cap



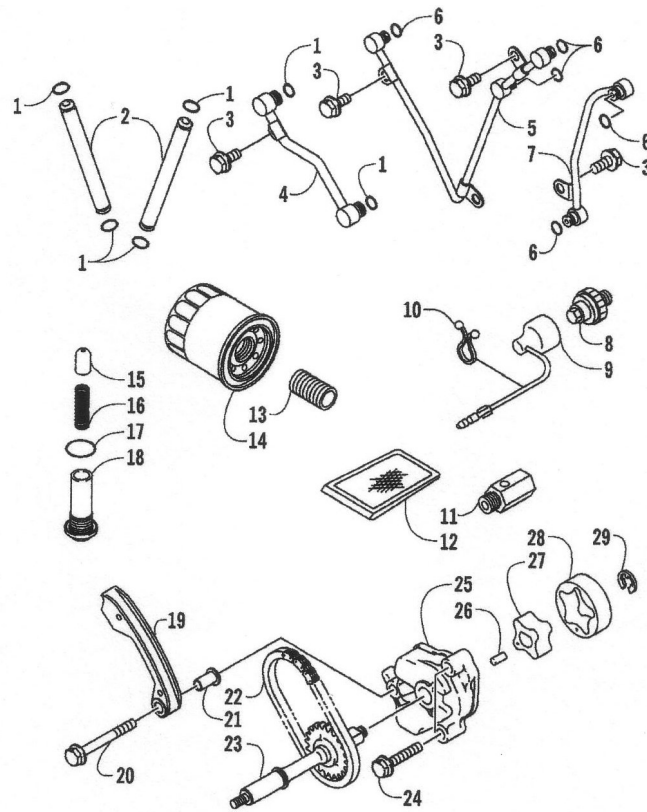
CRANKCASE ASSEMBLY

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	3201-421	1	Crankcase	15	3201-252	1	Bearing
2	3201-327	1	Seal, Oil	16	3201-250	1	Bearing
3	3201-213	1	Circlip	17	3201-312	1	Bearing
4	3201-318	1	Bearing	18	3201-316	1	Bearing
5	3201-315	2	Bearing	19	3201-251	1	Bearing
6	3201-324	1	Seal, Oil	20	3201-349	1	Gasket, Drain Plug
7	3201-328	1	Seal, Oil	21	3201-352	1	Plug, Drain
8	3201-422	1	Tube, Oil Return	22	3201-165	1	Fitting, Breather
9	3201-332	1	O-Ring	23	3201-155	4	Screw, Cap
10	3201-157	2	Plate, Position	24	3201-147	4	Screw, Cap
11	3201-193	2	Screw	25	3201-149	5	Screw, Cap
12	3201-305	2	Pin	26	3201-374	1	Bolt
13	3201-308	1	Bearing	27	3201-153	3	Screw, Cap
14	3201-309	1	Bearing				



ENGINE COVERS

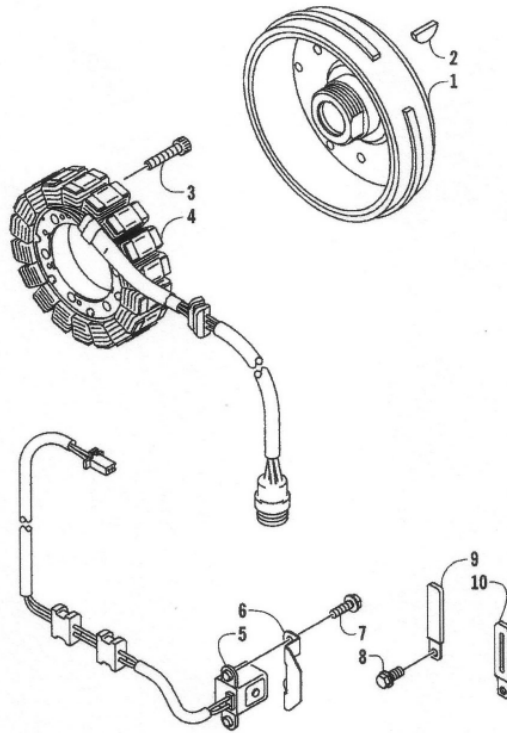
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	3201-432	1	Cover, Magneto	15	3201-304	2	Pin
2	3201-351	2	Plug	16	3201-168	1	Cover, Drive
3	3201-332	2	O-Ring	17	3201-144	3	Screw, Cap
4	3201-329	1	Seal, Oil	18	3201-028	1	O-Ring
5	3201-313	1	Bearing	19	3201-074	1	Cap
6	3201-311	1	Bearing	20	3201-175	1	Cap, Oil Filler
7	3201-323	1	Seal, Oil	21	3201-344	1	O-Ring
8	3201-350	1	Plug, Cover	22	3201-166	1	Cover
9	3201-333	1	O-Ring	23	3201-341	1	O-Ring
10	3201-266	1	Fitting	24	3201-149	1	Screw, Cap
11	3201-052	3	Clamp, Hose	25	3201-036	2	Screw, Cap
12	3201-051	2	Hose	26	3201-258	1	O-Ring
13	3201-050	1	Breather	27	3201-148	3	Screw, Cap
14	3201-072	1	Gasket	28	3201-146	8	Screw, Cap



OIL PUMP ASSEMBLY

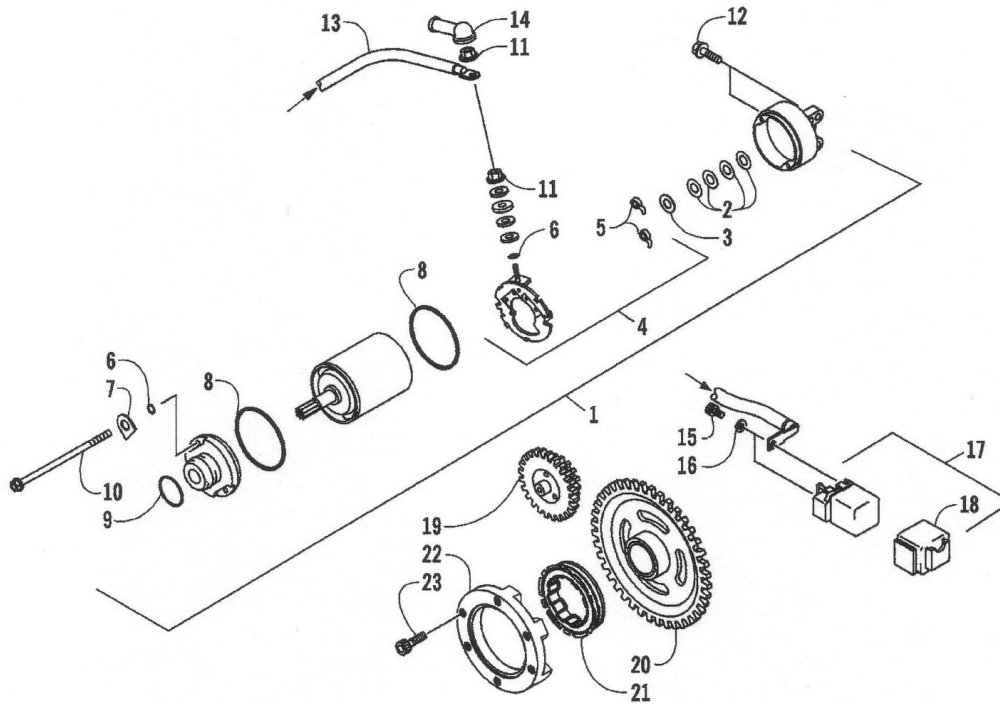
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	3201-255	6	O-Ring	16	3201-356	1	Spring
2	3201-199	2	Pipe	17	3201-257	1	O-Ring
3	3201-144	4	Screw, Cap	18	3201-376	1	Bolt
4	3201-204	1	Pipe, Oil - Crankshaft	19	3201-087	1	Guide, Chain - Slack
5	3201-205	1	Pipe, Oil - Crankcase - Left	20	3201-142	1	Screw, Cap
6	3201-254	5	O-Ring	21	3201-359	1	Collar
7	3201-206	1	Pipe, Oil - Crankcase - Right	22	3201-423	1	Chain
8	3201-196	1	Switch, Oil Pressure	23	3201-123	1	Shaft, Oil Pump
9	3201-194	1	Wire, Lead	24	3201-146	2	Screw, Cap
10	3201-383	1	Clamp	25	3201-178	1	Cover, Pump
11	3201-176	1	Valve, Relief - Assembly	26	3201-241	2	Pin, Dowel
12	3201-231	1	Filter, Oil	27	3201-179	1	Rotor, Pump - Inner
13	3201-198	1	Pipe, Oil Filter	28	3201-180	1	Rotor, Pump - Outer
14	3201-044	1	Filter, Oil	29	3201-215	1	Circlip
15	3201-303	1	Pin				

2005 ATV 650 V-Twin FIS (Automatic Transmission)



MAGNETO

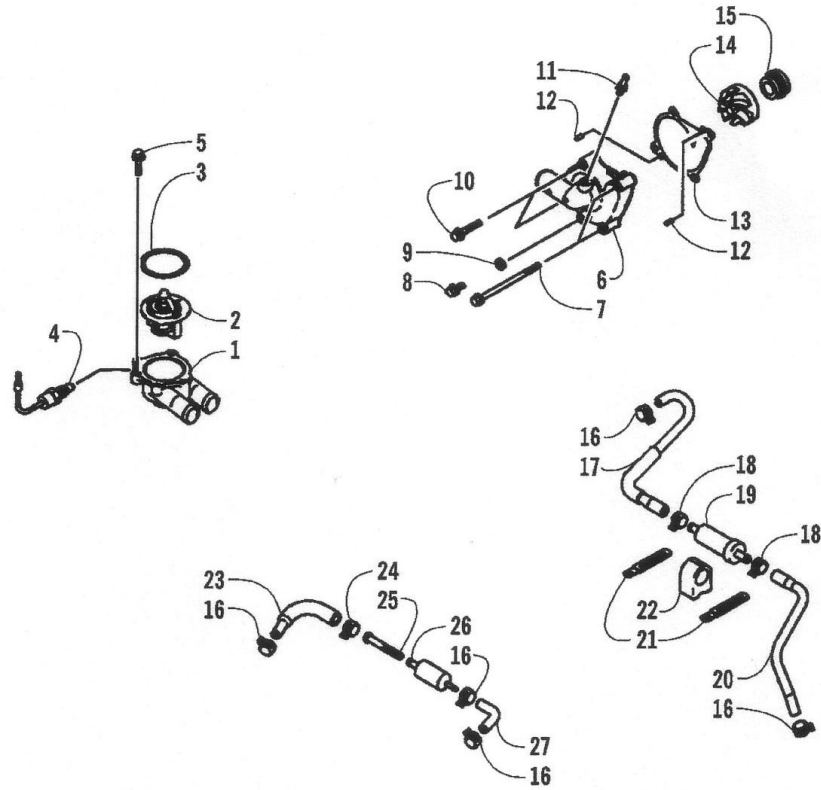
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	3201-183	1	Rotor	6	3201-138	1	Plate
2	3201-240	1	Key	7	3201-111	2	Screw, Cap
3	3201-095	3	Bolt	8	3201-144	1	Screw, Cap
4	3201-182	1	Stator	9	3201-382	1	Clamp
5	3201-243	1	Coil, Pulsing	10	3201-033	1	Clamp



STARTER MOTOR

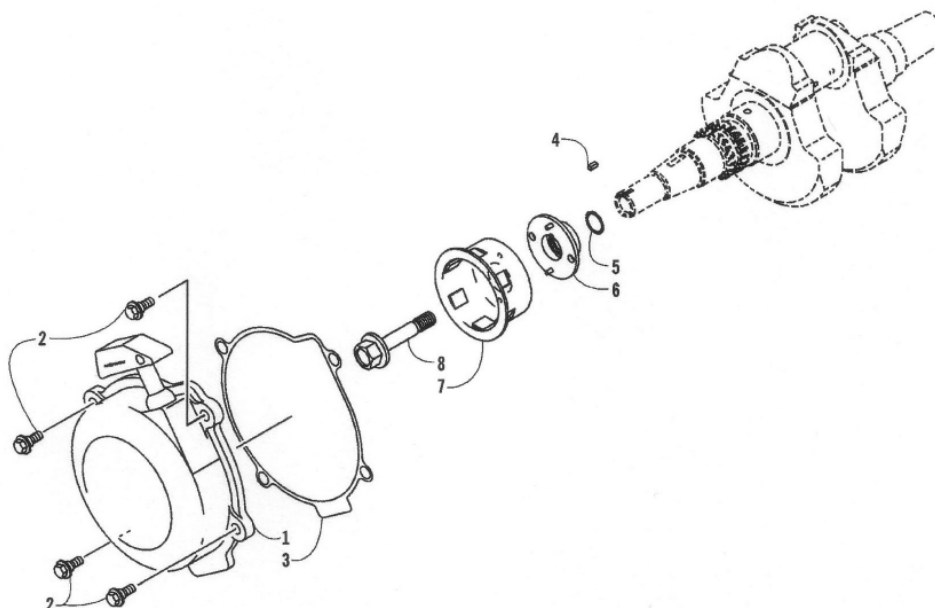
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	3201-189	1	Motor, Starter (inc. 2-10 and one No. 11)	12	3201-146	2	Screw, Cap
2	3201-186	4	● Washer	13	3201-195	1	Wire, Lead
3	3201-277	1	● Washer	14	3201-185	1	Grommet, Starter Terminal
4	3201-187	1	● Brush Set (inc. 5, two No. 6, and one No. 11)	15	3201-097	2	Bolt
5	3201-188	2	● Spring, Brush	16	3201-210	2	Washer, Lock
6	3201-338	3	● O-Ring	17	3201-197	1	Switch, Magnetic (inc. 18)
7	3201-278	2	● Washer, Lock	18	3201-110	1	● Holder
8	3201-339	2	● O-Ring	19	3201-200	1	Limiter, Starter
9	3201-335	1	● O-Ring	20	3201-174	1	Gear, Starter
10	3201-367	2	● Bolt	21	3201-122	1	Clutch, One-way
11	3201-274	2	● Nut	22	3201-433	1	Race, One-way Clutch
				23	3201-096	6	Bolt

2005 ATV 650 V-Twin FIS (Automatic Transmission)



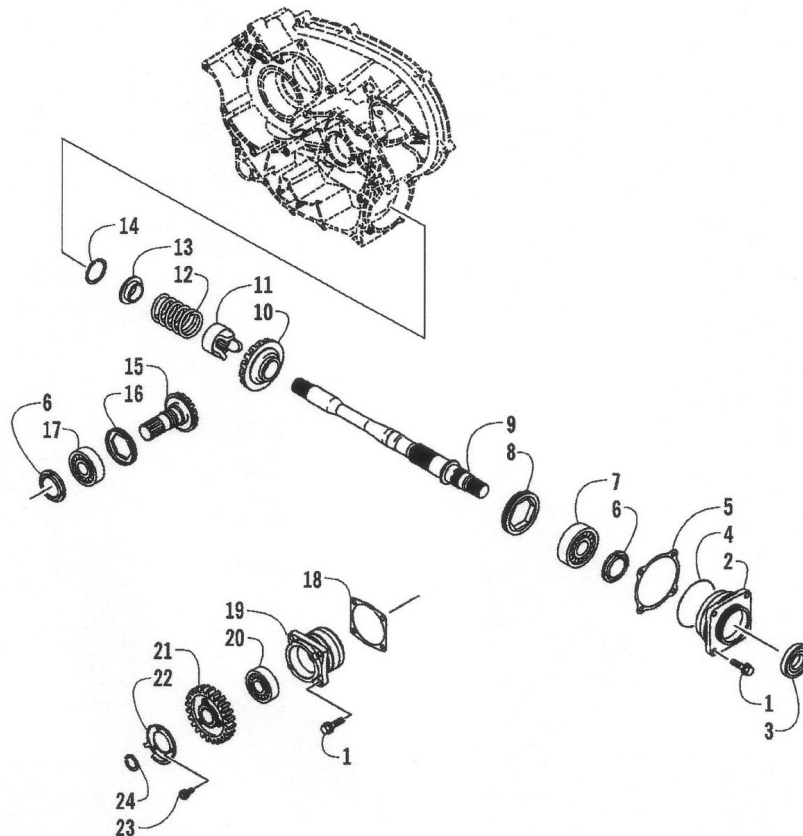
WATER PUMP/THERMOSTAT ASSEMBLY

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	3201-019	1	Body, Thermostat Lower	15	3201-230	1	Seal, Mechanical
2	3201-026	1	Thermostat	16	3201-032	5	Clamp
3	3201-028	1	O-Ring	17	3201-023	1	Hose, Cooling - Carburetor/Valve
4	3201-021	1	Switch, Temperature Sensor	18	3201-031	2	Clamp
5	3201-036	4	Screw, Cap	19	3201-027	1	Valve
6	3201-177	1	Cover, Water Pump	20	3201-024	1	Hose, Cooling - Valve/Water Pump
7	3201-143	2	Screw, Cap	21	3201-033	2	Clamp
8	3201-144	1	Screw, Cap	22	3201-029	1	Damper, Valve
9	3201-281	1	Washer	23	3201-058	1	Hose, Cooling - Water Filter/Carburetor
10	3201-146	2	Screw, Cap	24	3201-030	1	Clamp
11	3201-265	1	Fitting	25	3201-025	1	Filter, Water
12	3201-241	2	Pin, Dowel	26	3201-020	1	Body, Water Filter
13	3201-068	1	Gasket, Water Pump	27	3201-022	1	Hose, Cooling - Cylinder Head/Filter
14	3201-244	1	Impeller				



RECOIL STARTER

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	3201-235	1	Starter, Recoil	5	3201-334	1	O-Ring
2	3201-380	4	Bolt	6	3201-108	1	Boss
3	3201-073	1	Gasket, Recoil Starter	7	3201-234	1	Pulley, Starter
4	3201-302	1	Key	8	3201-369	1	Bolt



FRONT BEVEL GEAR

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	3201-373	8	Bolt	13	3201-139	1	Holder
2	3201-208	1	Housing, Bearing	14	3201-301	1	Ring, Snap
3	3201-326	1	Seal, Oil	15	3201-217	1	Gear, Drive Bevel - 12T
4	3201-262	1	O-Ring	16	3201-269	1	Screw
5	3201-384	1	Shim, Driven - 0.15 mm	17	3201-253	1	Bearing
	3201-385	1	Shim, Driven - 0.20 mm	18	3201-388	1	Shim, Drive - 0.15 mm
	3201-386	1	Shim, Driven - 0.50 mm		3201-389	1	Shim, Drive - 0.20 mm
	3201-387	1	Shim, Driven - 0.80 mm		3201-390	1	Shim, Drive - 0.50 mm
	3201-392	1	Shim, Driven - 1.00 mm		3201-391	1	Shim, Drive - 0.80 mm
	3201-393	1	Shim, Driven - 1.20 mm		3201-394	1	Shim, Drive - 1.00 mm
6	3201-403	2	Nut		3201-395	1	Shim, Drive - 1.20 mm
7	3201-309	1	Bearing	19	3201-207	1	Housing
8	3201-268	1	Screw	20	3201-310	1	Bearing
9	3201-113	1	Shaft	21	3201-136	1	Gear, Output - 29T
10	3201-218	1	Gear, Driven Bevel - 20T	22	3201-184	1	Rotor, Reverse Sensor
11	3201-107	1	Cam, Damper	23	3201-094	3	Bolt
12	3201-362	1	Spring	24	3201-212	1	Circlip

RELATED ITEMS

2005 ATV 650 V-Twin FIS (Automatic Transmission)

0436-479	Articulating Spool Mount	2257-120	Manual, Illustrated Parts
0436-548	Articulating Spool Receiver Mount Adapter	2257-034	Manual, Operator's (E)
0436-679	Bag, Fender-Black	2257-172	Manual d'utilisation
0436-660	Bag, Rack, Front-Black	0436-626	Rack Basket
0436-480	Bar, Utility/Gun Rack	0436-647	Rack Extension, 4 in. (Front)
0436-619	Brush Guard/Humper	0436-646	Rack Extension, 8 in. (Rear)
0436-462	Bucket Holder	0436-629	Rapid Blind (Break Up)
0436-620	Bumper (Rear)	0436-630	Rapid Blind (Shadow Grass)
0436-464	Camp Stove Cradle	0436-628	Rapid Shack (Blue Ice)
0436-454	Cargo Box	0436-511	Rod Holder-Adjustable
0436-625	Cargo Box Quick Release Kit	0436-635	Snowplow Attachment Kit
0436-459	Carryall (9x12)	0436-228	Snowplow Blade, 50. in. –Straight
0436-460	Carryall (11x17)	0436-287	Snowplow Blade, 50 in. – One way
0436-652	Carryall (14x27)	0436-296	Snowplow Blade, 60 in. - Straight
0436-476	Chain Saw Lock	0436-360	Snowplow Blade, 60 in. – One way
0436-477	Cord Reel	0436-636	Snowplow, Push Frame
0436-664	Cover, Black and Green	0436-471	Speedclamp, Double
0436-668	Cover, Timber Camo	0436-624	Sprayer System
0436-005	Engine Oil – 10W40	0436-741	Sprayer Boom (120 in.)
0436-003	Engine Oil – 5W30	0436-654	Table, Expansion
0436-466	Fender Box	1402-028	Tire, Titan AT589 (25x8-12, Mud-Snow)
0436-538	Gear Cradle	0402-563	Tire, Titan AT589 (25x10-12, Mud-Snow)
0436-007	Gear Lube (Diff) – 80W90	0436-478	Tool Caddy
0436-501	Grease, High-Performance	0436-297	Tool Holder-Double
0436-627	Gun Scabbard Kit	0436-263	Tool Holder-Single
0436-706	Gun Scabbard Mount	0436-468	Tree Stand/Bow Case Holder
0436-505	Hand Guards – Black	0436-655	Winch, 2500 lb
0436-352	Hand/Thumb Warmers	0436-623	Windshield, Clear w/Black Accent
0436-639	Ice Auger Holder	0436-470	Workbase (8 in.)
0436-463	Light Bar		

■NOTE: For a complete list of related items, refer to the current accessory catalog.

