

2008

650 H1 EFT



ILLUSTRATED PARTS MANUAL



MODEL NUMBER A2008IBS4BETI (RED)
MODEL NUMBER A2008IBS4BETM (GREEN)
MODEL NUMBER A2008IBS4BETJ (CAT GREEN)

(VADA644A080X00001 - VADA644A080X00195)

ARCTIC CAT[®]
MORE TO GO ON.[™]

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Red (Model No. A2008IBS4BETI)

Green (Model No. A2008IBS4BETM)

Cat Green (Model No. A2008IBS4BETJ)

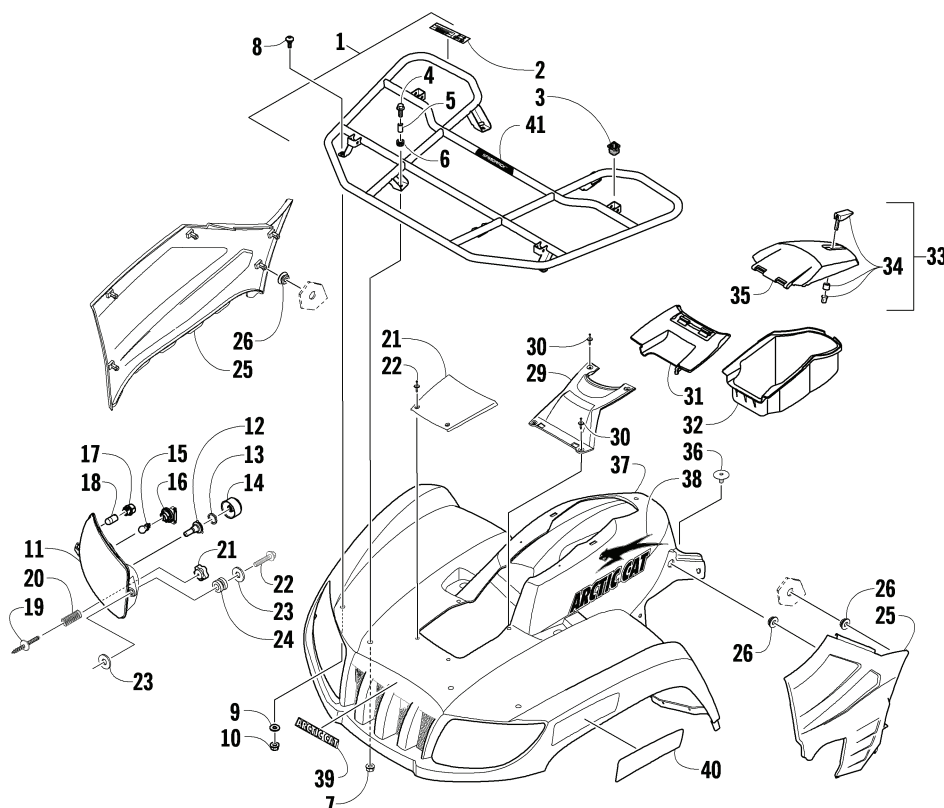
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■ **NOTE:** The illustrations used in this Parts Manual are for reference to replacement part numbers only and are not to be used for assembly. For assembly procedures, use an Arctic Cat Service Manual. Underlined part numbers are new for the 2008 model year. For a complete list of related items, refer to the current accessory catalog.

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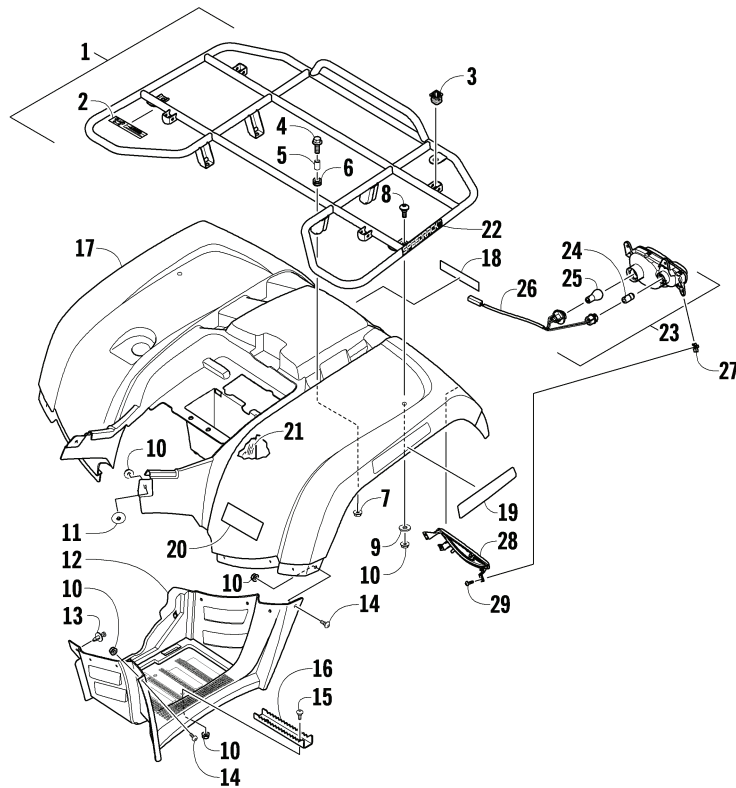
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FRONT RACK, BODY PANEL, AND HEADLIGHT ASSEMBLIES

0743-233

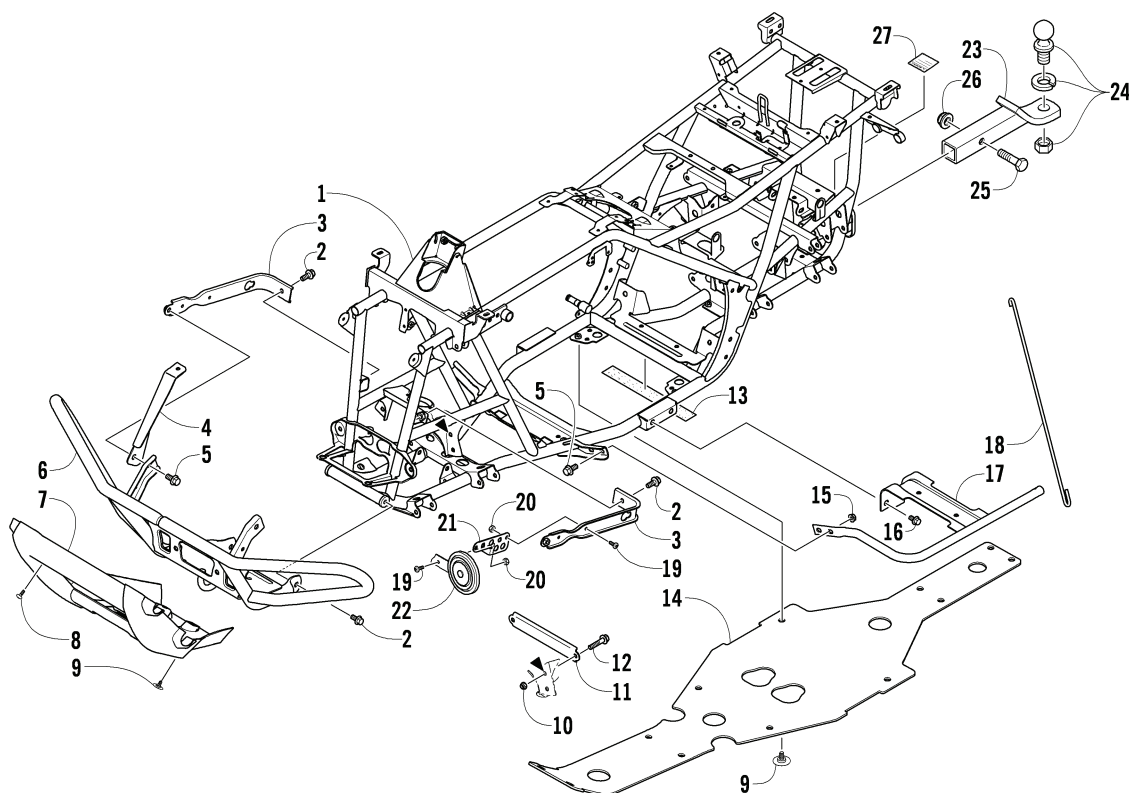
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	<u>2506-106</u>	1	Rack, Front - Assembly (inc. 2-3)	24	0423-447	4	Grommet
2	0411-576	1	● Decal, Warning - Front Rack Load	25	2406-300	1	Panel, Side - Lower - Right
3	0441-592	4	● Bushing, Rack		2406-419	1	Panel, Side - Lower - Left
4	8410-830	4	Screw, Cap	26	0423-678	8	Grommet
5	0423-669	4	Spacer	27	1406-358	1	Cover, Access
6	0423-465	4	Grommet	28	0423-535	2	Rivet, Reinstallable
7	8432-802	4	Nut, Lock	29	1406-484	1	Cover, Steering Post
8	0423-654	2	Screw, Shoulder	30	0623-362	4	Rivet, Reinstallable
9	8050-222	2	Washer	31	0470-513	1	Cover, Storage Box
10	0423-540	2	Nut, Lock	32	1406-573	1	Box, Storage
11	0509-036	1	Headlight Assembly - Right (inc. 12-18)	33	2506-234	1	Lid, Storage Box w/Latch (inc. 34-35)
	0509-037	1	Headlight Assembly - Left (inc. 12-18)	34	1406-599	1	● Latch, Storage Box
12	0409-096	2	● Bulb, Headlight	35	0470-514	1	● Lid, Storage Box
13	0409-097	2	● Retainer, Spring	36	0423-101	2	Screw, Body
14	0409-098	2	● Boot, Rubber	37	<u>2406-520</u>	1	Panel, Fender - Front - Red
15	0409-099	2	● Bulb, Turn Signal - Front		<u>2406-522</u>	1	Panel, Fender - Front - Green (Green)
16	0409-100	2	● Socket, Turn Signal Bulb		<u>2406-521</u>	1	Panel, Fender - Front - Cat Green (Cat Green)
17	0409-102	2	● Socket, Position Bulb	38	<u>1411-634</u>	1	Decal, Side - Upper Right
18	0409-101	2	● Bulb, Position		<u>1411-635</u>	1	Decal, Side - Upper Left
19	0423-514	2	Stud, Adjuster - Headlight	39	<u>1411-725</u>	1	Decal, Front
20	0423-522	2	Spring, Adjuster	40	0411-818	1	Decal, Reflector - Front - Right
21	0423-513	2	Knob, Adjuster		0411-819	1	Decal, Reflector - Front - Left
22	0623-785	4	Screw, Self-Tapping	41	1411-050	1	Decal, "Speedrack"
23	8050-217	8	Washer				



REAR RACK, BODY PANEL, AND TAILLIGHT ASSEMBLIES

0743-231

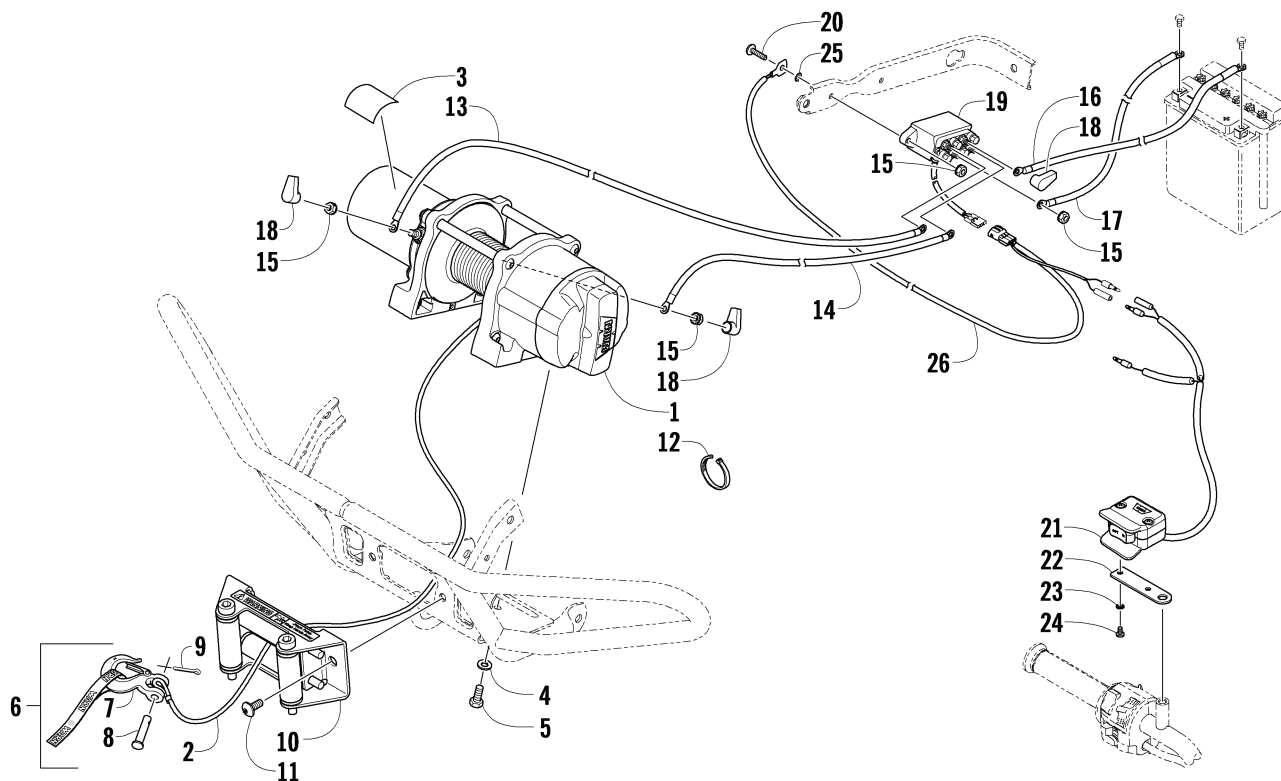
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	<u>2506-125</u>	1	Rack, Rear - Assembly (inc. 2-3)	18	<u>1411-725</u>	1	Decal, Rear
2	0411-648	1	● Decal, Warning - Rear Rack Load	19	<u>1411-592</u>	1	Decal, Reflector - Rear - Right
3	0441-592	4	● Bushing, Rack		<u>1411-593</u>	1	Decal, Reflector - Rear - Left
4	8410-830	4	Screw, Cap	20	0411-430	1	Decal, Warning - Tire Pressure
5	0423-669	4	Spacer	21	0470-658	1	Shield, Heat
6	0423-465	4	Grommet	22	0411-965	2	Decal, "Speedrack"
7	8432-802	4	Nut, Lock	23	<u>3313-392</u>	1	Taillight Assembly - Right (inc. 24-26)
8	0423-654	2	Screw, Shoulder		<u>3313-393</u>	1	Taillight Assembly - Left (inc. 24-26)
9	8050-222	2	Washer	24	<u>3313-506</u>	2	● Bulb, Turn Signal - Rear
10	0423-540	24	Nut, Lock	25	3303-849	2	● Bulb, Taillight
11	0423-101	2	Screw, Body	26	<u>3313-509</u>	1	● Socket, Taillight - Right
12	1406-356	1	Footwell - Right		<u>3313-507</u>	1	● Socket, Taillight - Left
	2406-429	1	Footwell - Left	27	3304-061	6	Nut, Clip
13	0623-362	2	Rivet, Reinstallable	28	<u>0409-112</u>	1	Bezel, Taillight - Right
14	0423-419	16	Screw, Machine		<u>0409-113</u>	1	Bezel, Taillight - Left
15	0423-355	4	Screw, Shoulder	29	8476-516	6	Screw, Machine
16	1506-125	2	Footpeg				
17	<u>2506-862</u>	1	Panel, Fender - Rear - Red				
	<u>2506-875</u>	1	Panel, Fender - Rear - Green (Green)				
	<u>2506-863</u>	1	Panel, Fender - Rear - Cat Green (Cat Green)				



FRAME AND RELATED PARTS

0743-217

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	<u>2506-675</u>	1	Frame, Main	15	8424-802	4	Nut, Flange
2	8409-020	4	Screw, Cap	16	8409-016	4	Screw, Cap
3	1506-596	2	Channel, Bumper Mounting	17	1506-380	1	Footrest - Right
4	1506-562	1	Bracket, Mounting - Bumper - Right		1506-379	1	Footrest - Left
	1506-563	1	Bracket, Mounting - Bumper - Left	18	2506-423	2	Rod, Support
5	8408-816	6	Screw, Cap	19	8477-616	3	Screw, Machine
6	1506-855	1	Bumper	20	0623-038	3	Nut w/Washer
7	1406-360	1	Grille, Bumper	21	2406-321	1	Bracket, Mounting - Horn
8	0423-419	2	Screw, Machine	22	0430-053	1	Horn, Electric - 12V
9	0423-101	12	Screw, Body	23	<u>0541-714</u>	1	Mount, Ball Hitch
10	8428-002	2	Nut, Lock	24	<u>0436-715</u>	1	Kit, Ball Hitch
11	1506-429	1	Brace, A-Arm	25	0423-693	1	Bolt
12	8409-025	2	Screw, Cap	26	0423-690	1	Nut, Lock
13	0406-289	2	Pad, Frame	27	1411-077	1	Decal, Warning - Towing
14	2406-029	1	Panel, Belly				



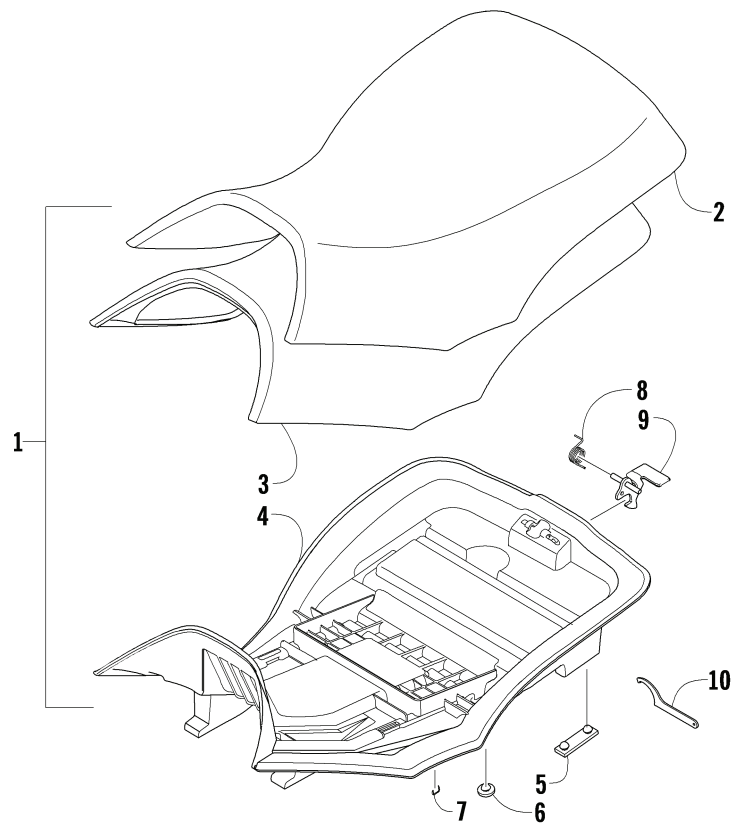
WINCH ASSEMBLY

0743-257

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	<u>1441-657</u>	1	Winch (inc. 2-3)	14	<u>0445-069</u>	1	Cable, Winch/Solenoid - Blue
2	0441-061	1	● Cable, Winch	15	0623-038	8	Nut w/Washer
3	<u>1411-826</u>	1	● Decal, Warning	16	1441-112	1	Cable, Solenoid/Battery - Black
4	8051-246	4	Washer, Lock	17	1441-113	1	Cable, Solenoid/Battery - Red
5	8408-820	4	Screw, Cap	18	0441-060	3	Boot, Terminal
6	0441-426	1	Hook, Winch w/Strap - Assembly (inc. 7-9)	19	0409-066	1	Solenoid
7	1441-131	1	● Hook, Winch w/Strap	20	8476-625	2	Screw, Machine
8	1441-130	1	● Pin	21	0505-552	1	Switch, Winch - Assembly (inc. 22-26)
9	1441-129	1	● Cotter Pin	22	0505-551	1	● Bracket, Winch Switch
10	0441-403	1	Roller, Winch	23	8050-093	2	● Washer, Lock - Internal Tooth
11	8468-820	2	Screw, Machine	24	8009-243	2	● Screw, Machine
12	0123-788	AR	Cable Tie - 7.5 in.	25	0853-212	1	● Washer, Lock - External Tooth
13	<u>0445-068</u>	1	Cable, Winch/Solenoid - Yellow	26	0486-276	1	● Harness, Adapter - Solenoid



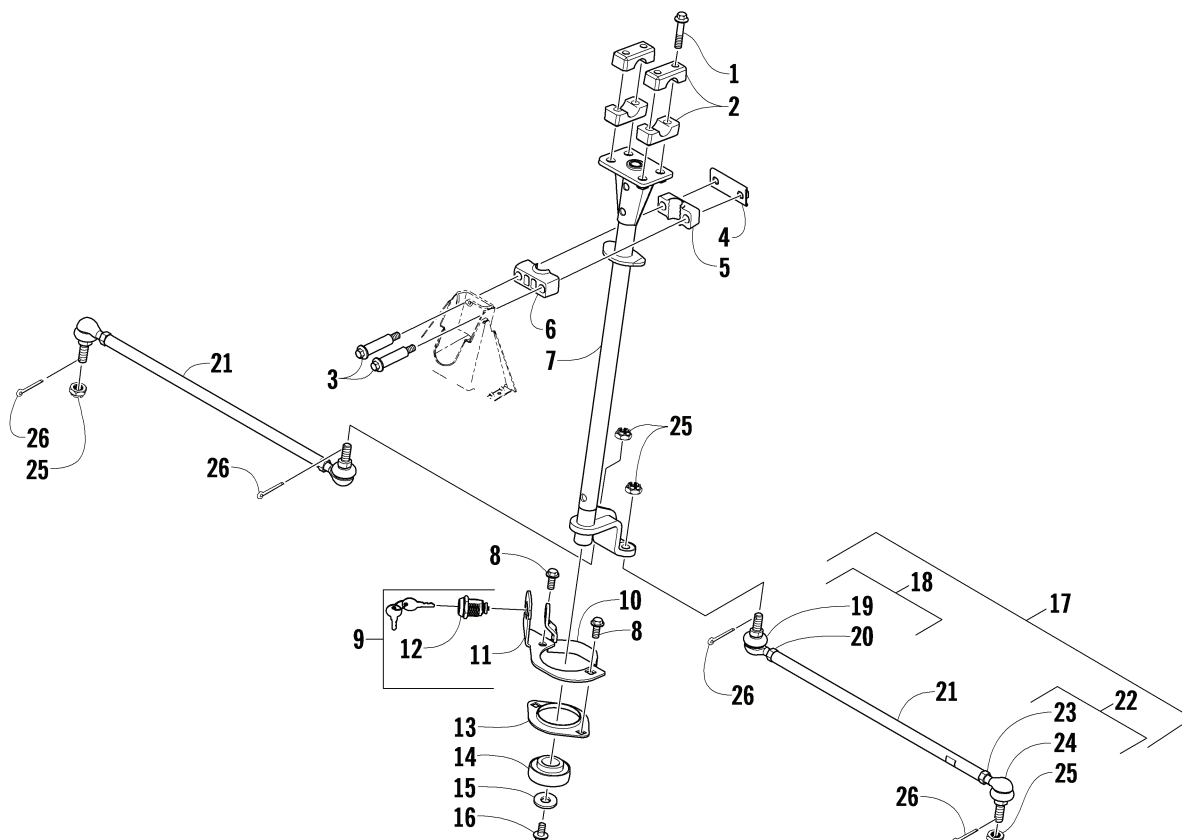
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	<u>2506-914</u>	1	Holder, License Plate	5	0123-950	2	Screw, Self-Tapping
2	3304-772	1	Light, License Plate (inc. 3-4)	6	8432-802	2	Nut, Lock
3	*	2	Screw	7	8050-247	2	Washer
4	3303-847	1	● Bulb	8	8408-820	2	Screw, Machine



SEAT ASSEMBLY

0743-249

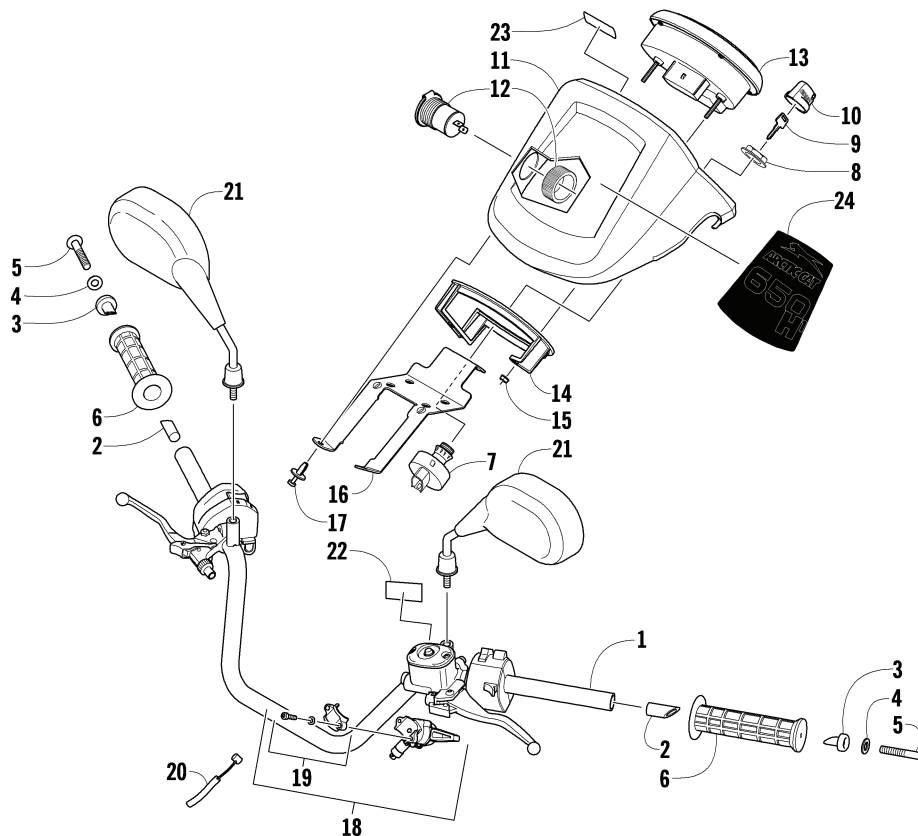
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	1506-937	1	Seat Assembly (inc. 2-9)	6	0406-877	4	● ● Bumper, Seat - Front
2	1506-209	1	● Cover, Seat	7	0624-528	AR	● Staple
3	1506-208	1	● Foam, Seat	8	1406-592	1	● Spring, Seat Latch
4	2406-144	1	● Base, Seat - Assembly (inc. 5-6)	9	1506-156	1	● Latch, Seat
5	0406-879	2	● ● Bumper, Seat - Rear	10	0441-587	1	Wrench, Spanner



STEERING POST ASSEMBLY

0743-209 *Not a Service Part

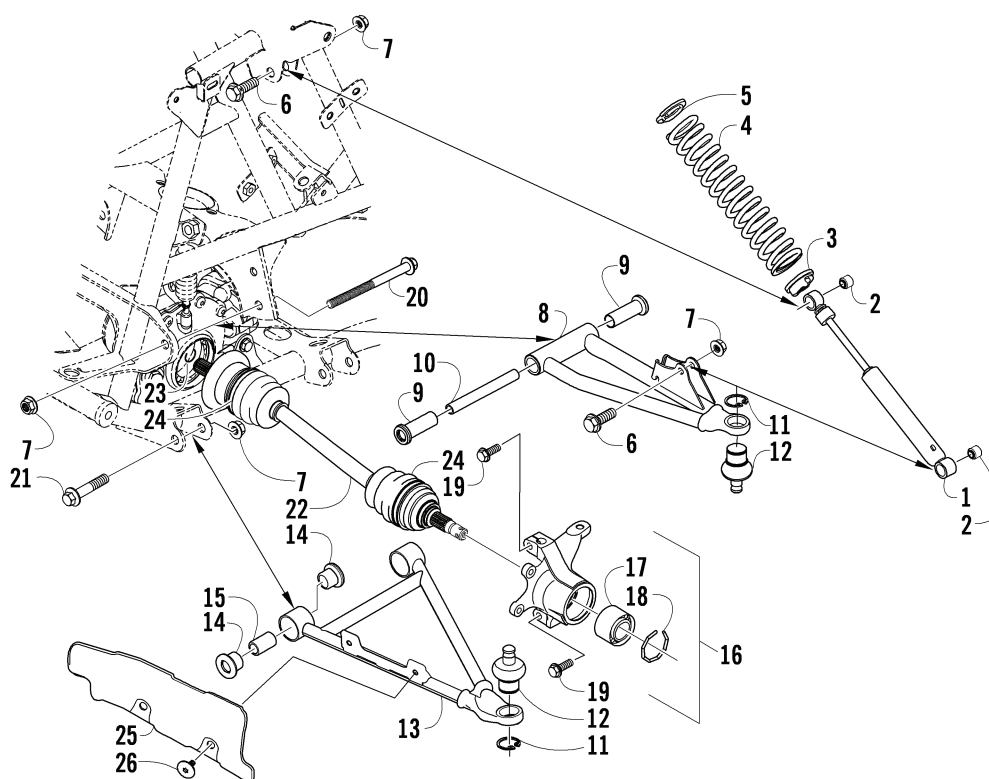
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	8408-860	4	Screw, Cap	15	0423-073	1	Washer
2	0405-035	4	Cap, Steering Adjuster	16	8409-020	1	Screw, Cap
3	0423-505	2	Screw, Shoulder	17	<u>0505-499</u>	2	Tie Rod - Assembly (inc. 18-24)
4	0505-484	1	Cap, Housing	18	<u>0505-511</u>	2	● End, Tie Rod - Left-Hand Thread - Kit (inc. 19-20 and two No. 25-26)
5	0405-138	1	Housing, Lower	19	*	2	●● End, Tie Rod - Left-Hand Thread
6	0405-139	1	Housing, Upper	20	0423-013	2	●● Nut - Left-Hand Thread
7	0505-451	1	Post, Steering	21	<u>0405-281</u>	2	● Tie Rod
8	8408-816	2	Screw, Cap	22	<u>0505-510</u>	2	● End, Tie Rod - Right-Hand Thread - Kit (inc. 23-24 and two No. 25-26)
9	2406-355	1	Lock, Steering - Assembly (inc. 10-12)	23	*	2	●● End, Tie Rod - Right-Hand Thread
10	2506-173	1	● Latch	24	8420-002	2	●● Nut - Right-Hand Thread
11	2406-354	1	● Lock	25	0423-157	4	Nut, Lock
12	2406-349	1	● Bracket, Mounting - Lock	26	0623-175	4	Pin, Cotter
13	0602-233	1	Flange, Bearing				
14	0405-052	1	Bearing w/Inverted Oil Seal				



HANDLEBAR ASSEMBLY

0743-211

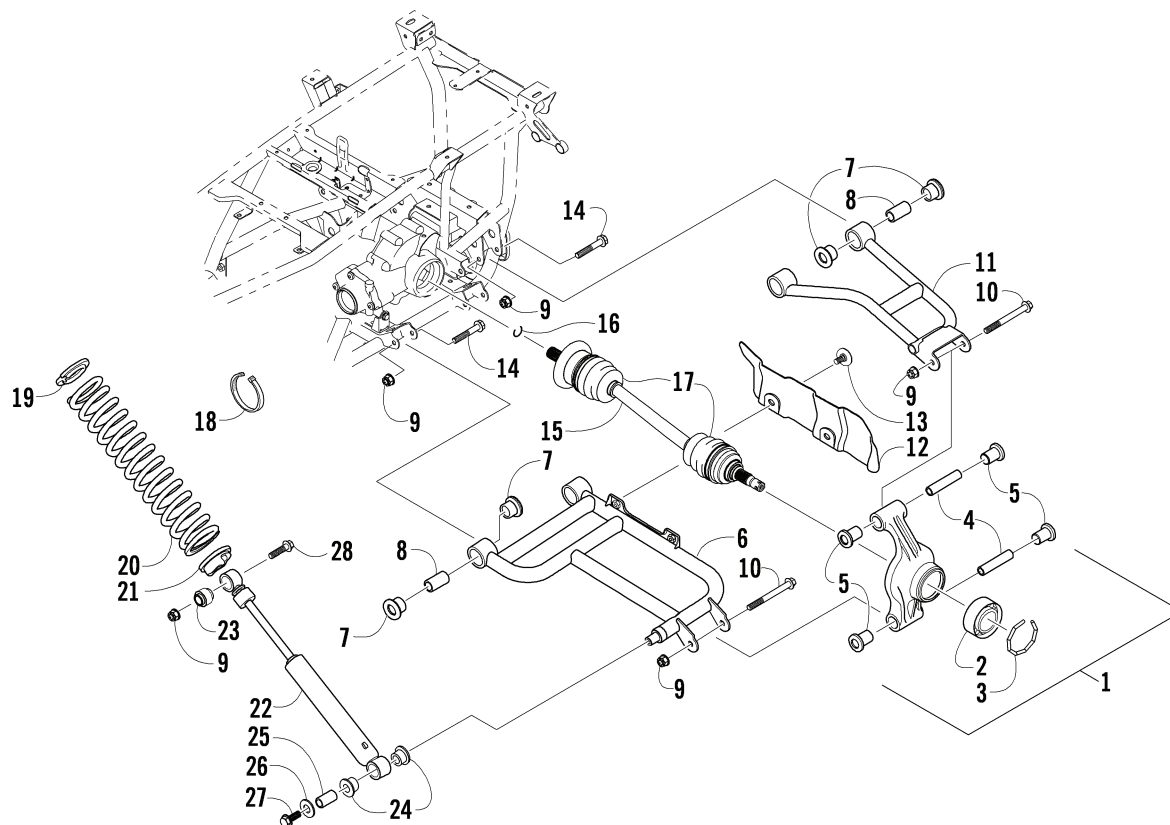
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	<u>0505-522</u>	1	Tube, Handlebar	12	0641-897	1	Outlet, Accessory - 12V
2	0405-218	2	Plug, Handlebar	13	0520-019	1	Gauge, LCD
3	0405-149	2	End Cap, Handlebar	14	0420-065	1	Clamp, Plastic
4	8050-247	2	Washer	15	0423-493	2	Nut, Hex
5	8477-845	2	Screw, Machine	16	<u>2506-470</u>	1	Bracket, Mounting - Instrument Pod
6	0405-147	2	Grip, Handlebar	17	0423-535	2	Rivet, Reinstallable
7	<u>0430-069</u>	1	Switch, Ignition - Assembly (inc. 8-10)	18	0502-527	1	Control, Differential Lock (inc. 19)
8	0430-050	1	● Nut, Flange - Ignition Switch	19	0502-613	1	● Clamp, Differential Lock Control - Kit
9	<u>0430-042</u>	1	● Key, Ignition (Y Series - Left-Side Cut)	20	0487-050	1	Cable, Differential Lock
	<u>0430-043</u>	1	● Key, Ignition (Z Series - Right-Side Cut)	21	2406-630	1	Mirror - Right
10	0430-054	1	● Cover, Key		2406-631	1	Mirror - Left
11	<u>0405-273</u>	1	Instrument Pod	22	<u>1411-865</u>	1	Decal, Warning - Brake Lever Lock
	<u>0405-274</u>	1	Instrument Pod (Green)	23	0411-966	1	Decal, Warning - Differential Lock
	<u>0405-275</u>	1	Instrument Pod (Cat Green)	24	<u>1411-561</u>	1	Decal, Instrument Pod



FRONT SUSPENSION ASSEMBLY

0743-294

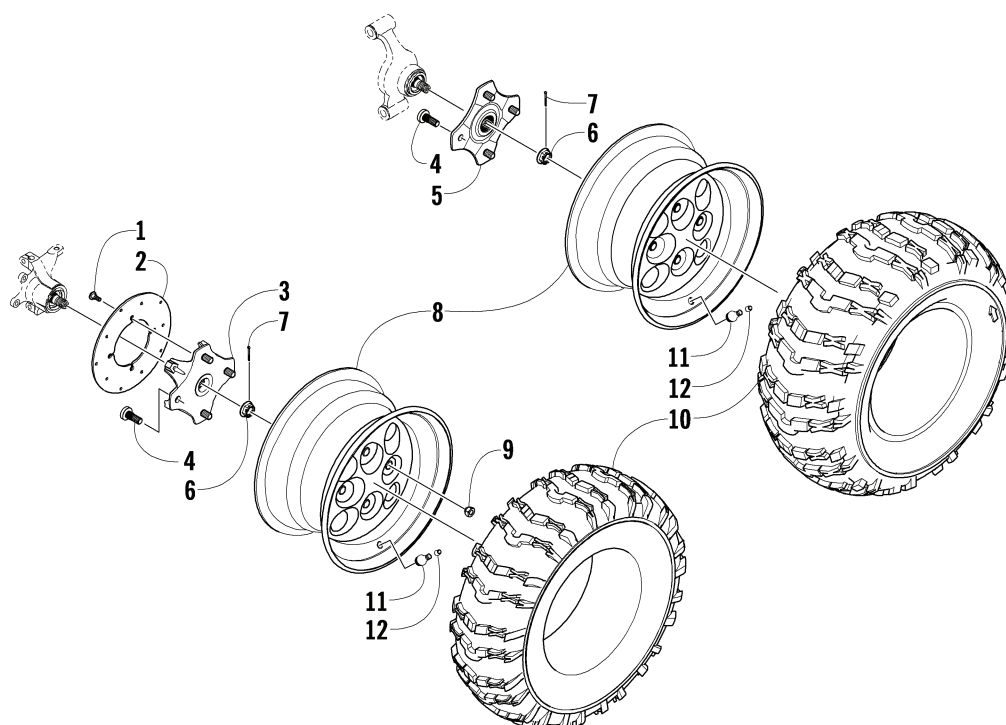
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0403-180	2	Shock Absorber - Front (inc. 2)	17	1402-027	2	● Bearing, Wheel Hub
2	0403-182	4	● Bushing, Double-Bonded	18	0423-423	2	● Ring, Retaining
3	0403-102	2	Cam, Spring Adjuster	19	8409-030	4	Screw, Cap
4	0403-178	2	Spring, Shock Absorber - Platinum	20	0423-334	2	Screw, Cap
5	1603-889	2	Retainer, Spring	21	8409-075	4	Screw, Cap
6	8409-040	4	Screw, Cap	22	0502-812	1	Axle, Drive - Front - Right (inc. 23-24)
7	0423-744	10	Nut, Lock		0502-813	1	Axle, Drive - Front - Left (inc. 23-24)
8	0503-272	1	A-Arm, Upper Right - Platinum (inc. 9-12)	23	1441-109	2	● Clip, Retaining
	0503-273	1	A-Arm, Upper Left - Platinum (inc. 9-12)	24	0436-276	2	● Repair Kit, Boot - Front Axle
9	0403-081	4	● Bushing	25	0441-752	1	Guard, Boot - Axle - Right - Red
10	0403-080	2	● Collar		0441-753	1	Guard, Boot - Axle - Left - Red
11	0423-009	4	● Clip, Ball Joint		1441-002	1	Guard, Boot - Right - Green (Green)
12	0405-115	4	● Ball Joint - Front		1441-003	1	Guard, Boot - Left - Green (Green)
13	0503-342	1	A-Arm, Lower Right - Platinum (inc. 14-15 and two No. 11-12)		0441-756	1	Guard, Boot - Axle - Right - Cat Green (Cat Green)
	0503-343	1	A-Arm, Lower Left - Platinum (inc. 14-15 and two No. 11-12)		0441-757	1	Guard, Boot - Axle - Left - Cat Green (Cat Green)
14	0403-115	8	● Bushing	26	0423-545	4	Screw, Body
15	0403-114	4	● Collar				
16	0505-460	1	Knuckle - Assembly - Right (inc. 17-18)				
	0505-461	1	Knuckle - Assembly - Left (inc. 17-18)				



REAR SUSPENSION ASSEMBLY

0743-295

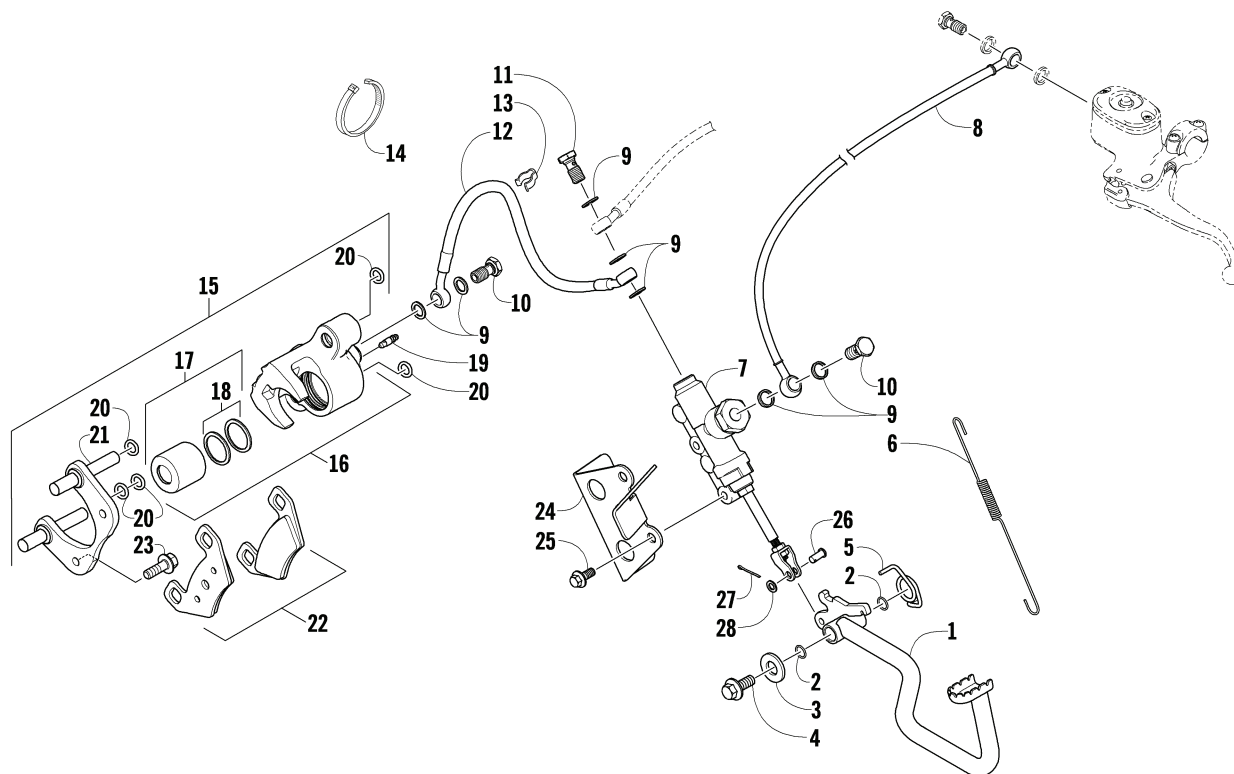
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0504-374	1	Knuckle, Right Rear - Assembly (inc. 2-5)	13	0423-545	4	Screw, Body
	0504-373	1	Knuckle, Left Rear - Assembly (inc. 2-5)	14	8409-075	8	Screw, Cap
2	1402-027	2	● Bearing, Wheel Hub	15	0502-811	2	Axle, Drive (inc. 16-17)
3	0423-423	2	● Ring, Retaining	16	0441-893	2	● Clip, Retaining
4	0403-038	4	● Collar, Suspension Bushing	17	0436-276	2	● Repair Kit, Boot - Rear Axle
5	0403-032	8	● Bushing, Suspension	18	0123-788	2	Cable Tie
6	0504-440	1	A-Arm, Rear - Lower Right - Platinum (inc. 7-8)	19	1603-889	2	Retainer, Spring
	0504-441	1	A-Arm, Rear - Lower Left - Platinum (inc. 7-8)	20	0404-113	2	Spring, Suspension - Platinum
7	0403-115	16	● Bushing	21	0404-057	2	Cam, Spring Adjuster
8	0403-114	8	● Collar	22	0404-150	2	Shock Absorber - Rear (inc. 23-25)
9	8428-002	14	Nut, Lock	23	0403-182	2	● Bushing, Double-Bonded
10	8409-000	4	Screw, Cap	24	0603-955	4	● Bushing, Shock Absorber
11	0504-476	1	A-Arm, Rear - Upper Right - Platinum (inc. 7-8)	25	1603-219	2	● Sleeve, Shock Absorber
	0504-477	1	A-Arm, Rear - Upper Left - Platinum (inc. 7-8)	26	0423-087	2	Washer
12	0441-754	1	Guard, Boot - Right - Red	27	8408-820	2	Screw, Cap
	0441-755	1	Guard, Boot - Left - Red	28	8409-040	1	Screw, Cap - Right
	1441-004	1	Guard, Boot - Right - Green (Green)		8409-050	1	Screw, Cap - Left
	1441-005	1	Guard, Boot - Left - Green (Green)				
	0441-758	1	Guard, Boot - Right - Cat Green (Cat Green)				
	0441-759	1	Guard, Boot - Left - Cat Green (Cat Green)				



WHEEL AND TIRE ASSEMBLY

0743-260

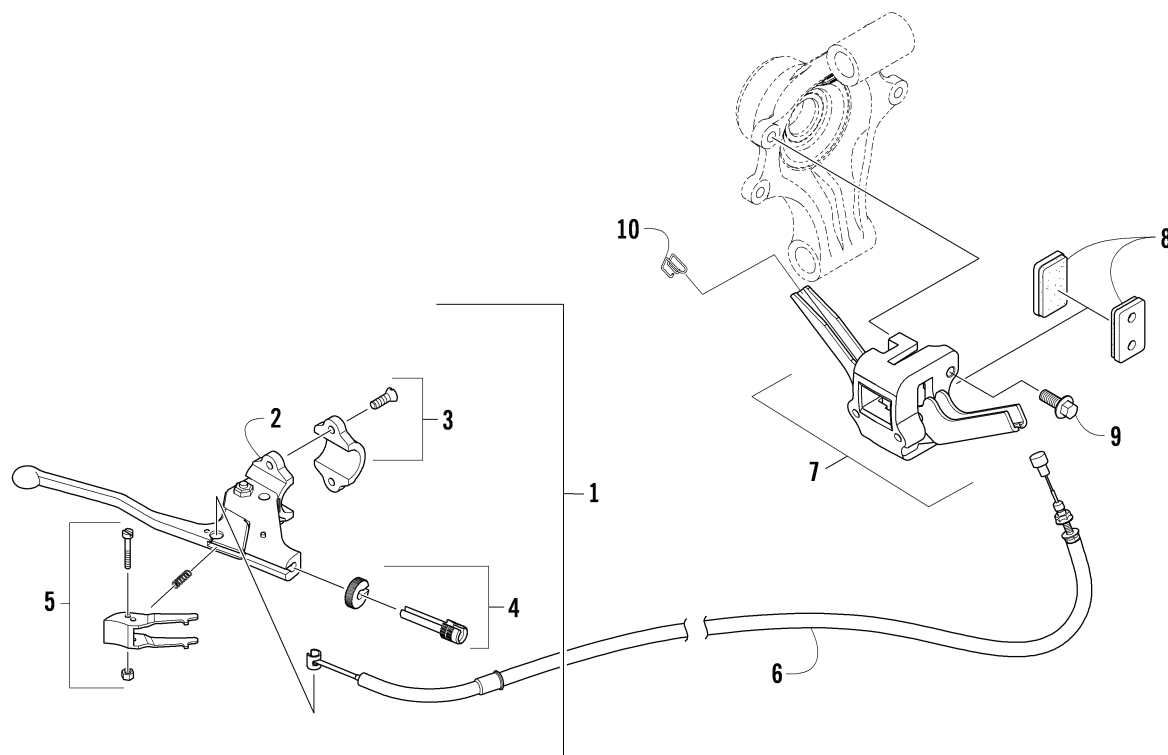
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0423-557	12	Screw, Shoulder w/Loctite	8	1402-127	2	Wheel - Front - Platinum
2	1436-164	3	Disc, Brake		1402-115	2	Wheel - Rear - Platinum
3	0502-599	2	Hub, Wheel - Front (inc. 4)	9	0423-408	16	Nut, Mounting - Wheel
4	0402-974	16	● Stud, Wheel Hub	10	1402-100	2	Tire - Front
5	0502-601	1	Hub, Wheel - Rear - Left (inc. 4)		1402-137	2	Tire - Rear
	0502-599	1	Hub, Wheel - Rear - Right (inc. 4)	11	0402-064	4	Stem, Valve (inc. 12)
6	0423-607	4	Nut, Castle Flange	12	0402-140	4	● Cap, Valve Stem
7	0423-407	4	Pin, Cotter				



AUXILIARY BRAKE ASSEMBLY

0743-261

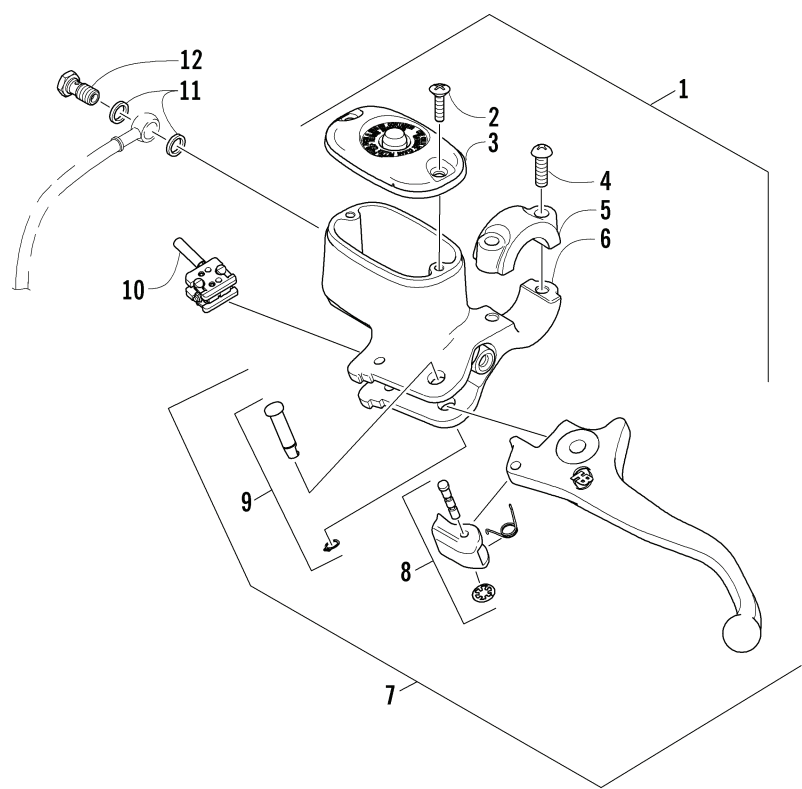
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	1502-063	1	Lever, Brake	16	<u>1436-161</u>	1	● Housing, Caliper - Assembly - Left Rear (inc. 17-19)
2	1602-213	2	O-Ring	17	0502-606	1	●● Piston/Seal Set (inc. 18)
3	8050-252	1	Washer	18	0502-607	1	●●● Seal Set
4	8408-816	1	Screw, Cap	19	0502-609	1	●● Valve, Bleed
5	0502-807	1	Spring, Brake Lever	20	0502-608	1	● O-Ring, Guide - Set
6	0502-785	1	Spring, Brake Switch	21	0502-605	1	● Bracket Assembly
7	1502-147	1	Master Cylinder	22	<u>1436-165</u>	1	● Pad, Brake - Set
8	1402-592	1	Hose, Brake	23	8408-821	2	● Screw, Cap
9	0423-178	7	Washer, Crush	24	1502-179	1	Bracket, Switch
10	0423-413	2	Bolt, Banjo-Fitting	25	8408-625	2	Screw, Cap
11	0423-610	1	Bolt, Banjo-Fitting - Double	26	1402-377	1	Pin, Clevis
12	1402-593	1	Hose, Brake	27	0117-868	1	Pin, Cotter
13	1502-115	2	Clip, Brake Hose	28	8050-217	1	Washer
14	0123-788	AR	Cable Tie - 7.5 in.				
15	<u>1436-163</u>	1	Caliper, Brake (inc. 16-23)				



PARKING BRAKE ASSEMBLY

0743-214 *Not a Service Part

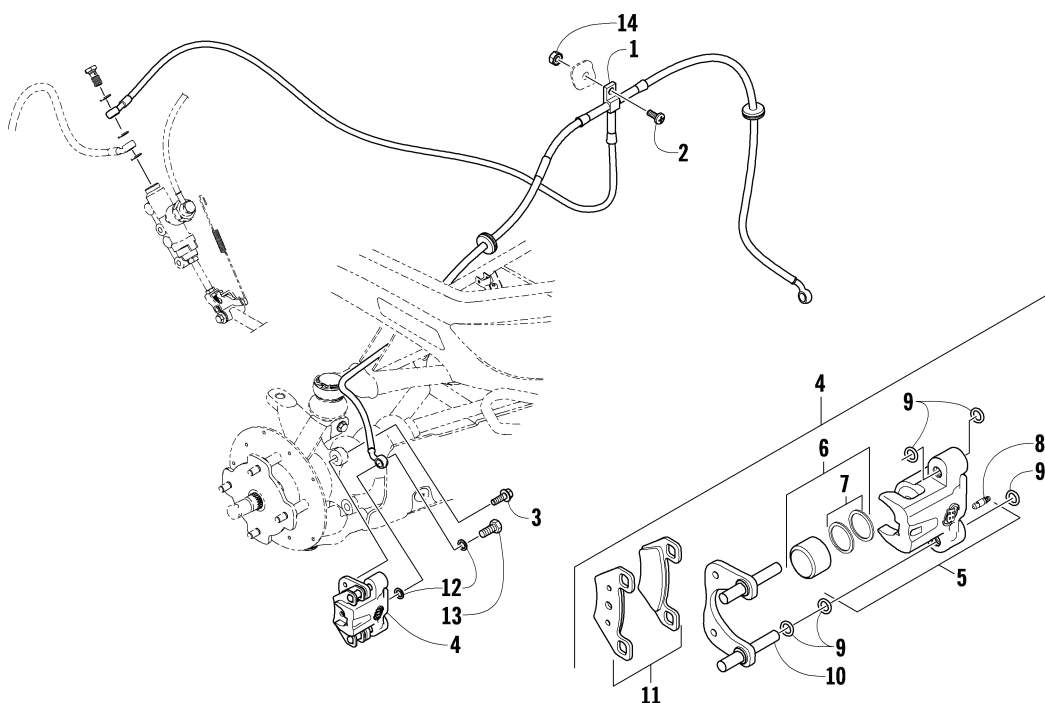
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	1502-150	1	Lever, Parking Brake - Assembly (inc. 2-5)	6	0487-054	1	Cable, Brake - Rear
2	1502-429	1	● Lever, Parking Brake - Kit	7	1502-176	1	Mechanical Brake Assembly
3	1502-432	1	● Clamp, Handlebar - Kit	8	1402-602	2	Pad, Brake
4	1502-430	1	● Adjuster, Thumb Nut - Kit	9	8408-826	2	Screw, Cap
5	1502-431	1	● Lock, Parking Brake Lever - Kit	10	0402-379	1	Wire Form, Cable



HYDRAULIC HAND BRAKE ASSEMBLY

0741-458

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0502-914	1	Brake Assembly (inc. 2-10)	7	0502-866	1	● Lever Assembly - Kit (inc. 8-9)
2	0502-566	1	● Screw, Reservoir Cover	8	0502-867	1	● ● Lock, Brake Lever - Kit
3	0502-868	1	● Cover, Reservoir	9	0502-580	1	● ● Lever Pin - Kit
4	0502-568	1	● Screw, Master Cylinder Clamp	10	0502-564	1	● Switch, Brake
5	0502-869	1	● Clamp, Master Cylinder	11	0423-178	2	Washer, Crush
6	0502-704	1	● Master Cylinder Assembly	12	0423-413	1	Bolt, Banjo-Fitting

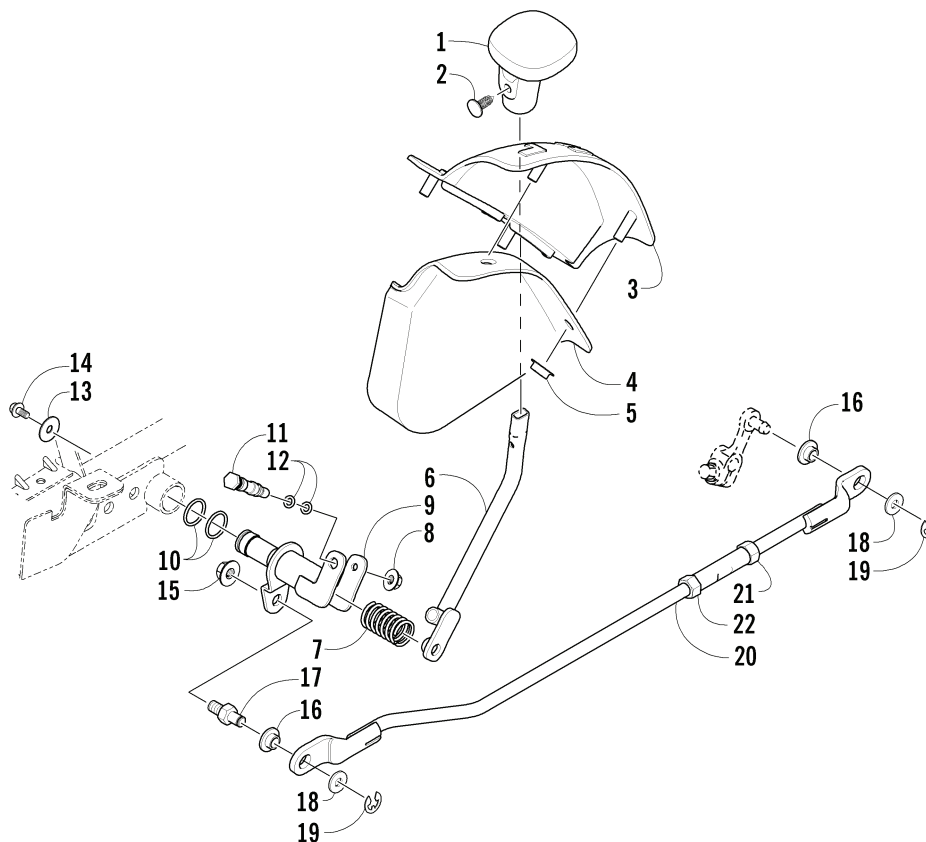


HYDRAULIC BRAKE ASSEMBLY

0743-262

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	1502-148	1	Hose, Brake - Assembly	6	0502-606	2	● ● Piston/Seal Set (inc. 7)
2	8476-625	1	Screw, Cap	7	0502-607	2	● ● ● Seal Set
3	8408-821	4	Screw, Cap	8	0502-609	2	● ● Valve, Bleed
4	<u>1436-162</u>	1	Caliper, Brake - Right Front (inc. 5-11 and two No. 3)	9	0502-608	2	● O-Ring, Guide - Set
	<u>1436-163</u>	1	Caliper, Brake - Left Front (inc. 5-11 and two No. 3)	10	0502-605	2	● Bracket Assembly
5	<u>1436-160</u>	1	● Housing, Caliper - Assembly - Right Front (inc. 6-8)	11	<u>1436-165</u>	2	● Pad, Brake - Set
	<u>1436-161</u>	1	● Housing, Caliper - Assembly - Left Front (inc. 6-8)	12	0423-178	4	Washer, Crush
				13	0423-413	2	Bolt, Banjo-Fitting
				14	0623-038	1	Nut, Hex

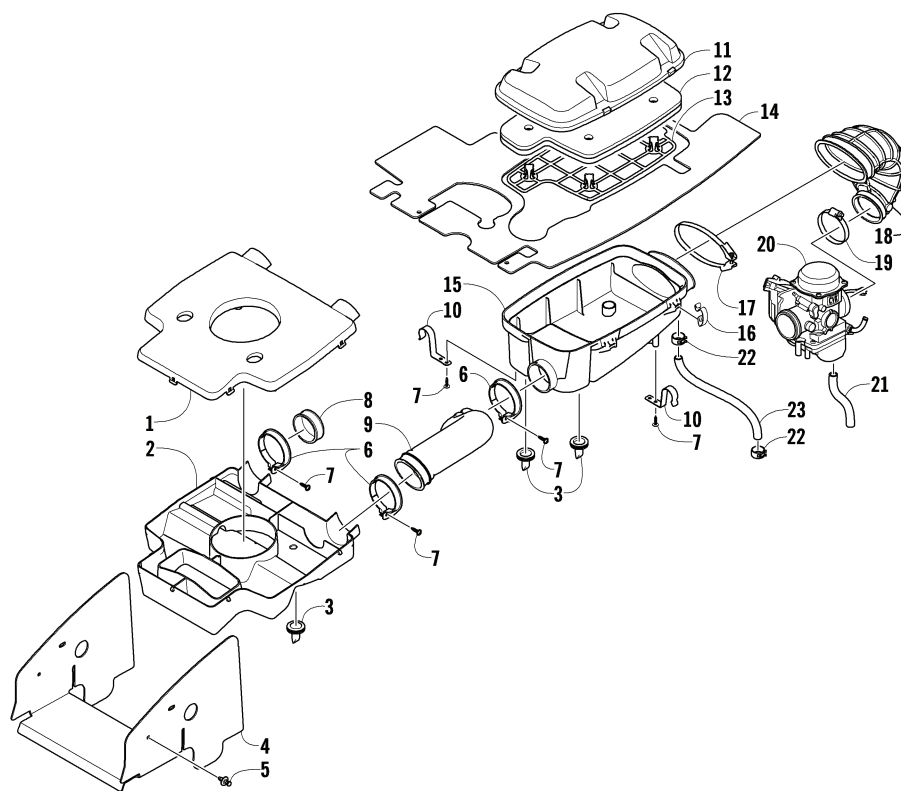
16



SHIFT LEVER ASSEMBLY

0742-508

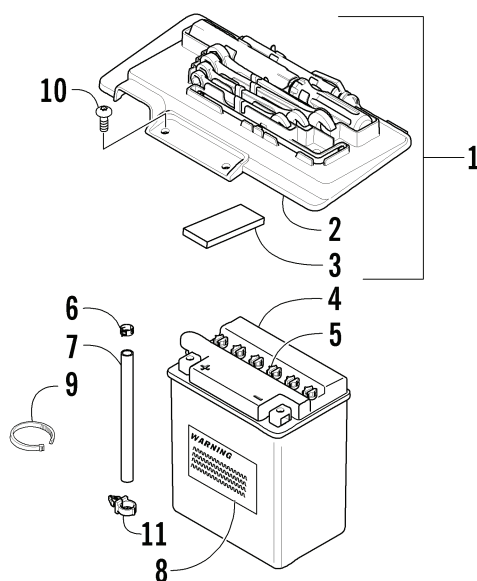
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0402-843	1	Knob, Shift	12	0423-182	2	O-Ring
2	0423-345	1	Clip, Push	13	0423-087	1	Washer
3	1402-576	1	Plate, Shift	14	8408-812	1	Screw, Cap
4	2406-345	1	Shield, Shift Plate	15	8424-802	1	Nut, Hex
5	0423-357	4	Nut, Stamped	16	0423-091	2	Bushing, Shift Linkage
6	0502-659	1	Lever, Shift	17	<u>1402-621</u>	1	Pin, Mounting - Shift Linkage
7	0402-678	1	Spring, Shift Lever	18	0623-094	2	Washer
8	8424-602	1	Nut	19	0423-169	2	E-Ring
9	0502-742	1	Axle, Shift Lever	20	<u>1502-200</u>	1	Linkage, Shift - Assembly (inc. 21-22)
10	0423-299	2	O-Ring	21	0623-294	1	● Nut, Hex - Right-Hand Thread
11	0402-675	1	Axle, Pivot	22	0123-917	1	● Nut, Hex - Left-Hand Thread



AIR INTAKE ASSEMBLY

0743-213

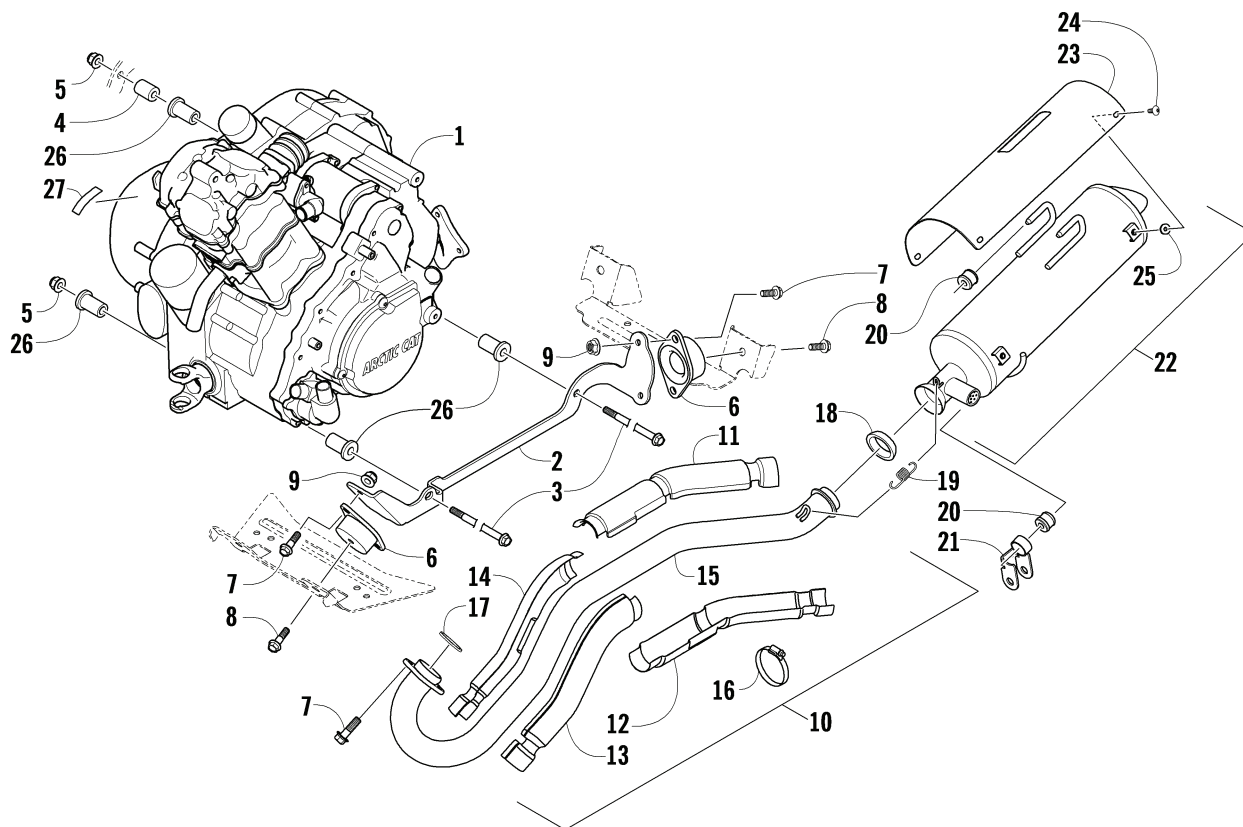
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0413-091	1	Diverter, Air - Top	13	0470-516	1	Screen, Air Filter
2	0413-093	1	Diverter, Air - Bottom	14	2406-009	1	Panel, Shield
3	0470-442	2	Valve, Drain	15	0470-515	1	Housing, Air Intake
4	1406-973	1	Shroud, Splash	16	0423-455	4	Clip, Spring
5	0623-362	2	Rivet, Reinstallable	17	0423-554	1	Clamp, Boot
6	0423-551	3	Clamp	18	0470-511	1	Boot, Carburetor
7	0423-342	7	Screw, Self-Tapping	19	0423-019	1	Clamp, Boot
8	0413-096	1	Cap, Air Intake - Diverter	20	0470-823	1	Carburetor, CVK40-AE
9	0470-529	1	Boot, Air Intake	21	0510-592	1	Hose, Carburetor Drain
10	0423-454	2	Clip, Mounting - Air Intake	22	1623-281	2	Clamp, Hose
11	0470-755	1	Cover, Air Intake	23	0410-079	1	Hose, Vent - Crankcase
12	0470-663	1	Filter, Air				



BATTERY ASSEMBLY

0742-917 *Not Illustrated

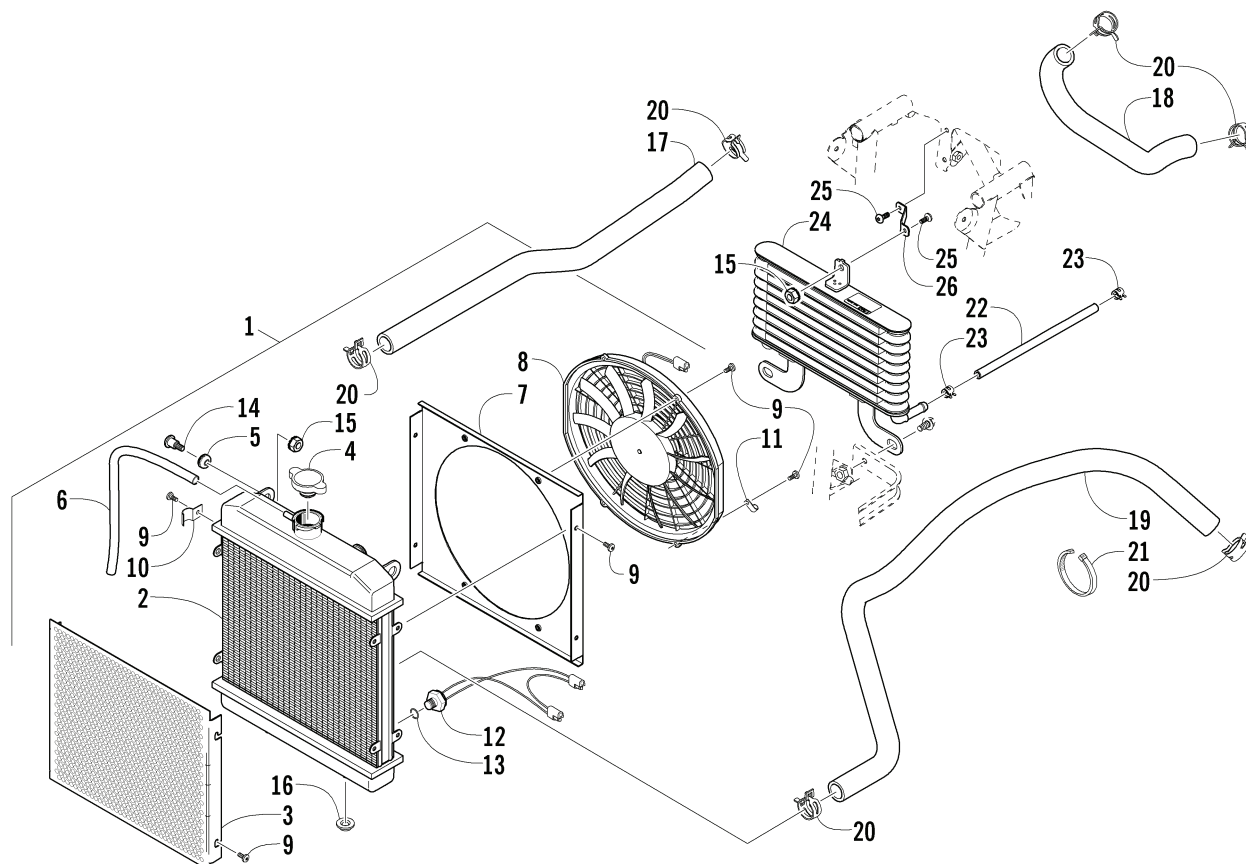
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	<u>5991-395</u>	1	Battery Cover/Tool Tray Assembly (inc. 2-3)	6	0645-152	1	● Clamp, Hose
2	<u>2406-815</u>	1	● Cover, Battery	7	0645-263	1	● Hose, Battery Vent
3	0406-288	2	● Pad, Battery	8	0645-151	1	● Label, Warning - Battery
*	0444-122	1	● Kit, Tool	9	0123-903	4	Cable Tie - 11.5 in.
4	0745-045	1	Battery Assembly (inc. 5-8)	10	8476-616	2	Screw, Machine
5	0645-045	6	● Cap, Battery	11	0623-101	1	Routing Clip, Snap-In



ENGINE AND EXHAUST

0743-220

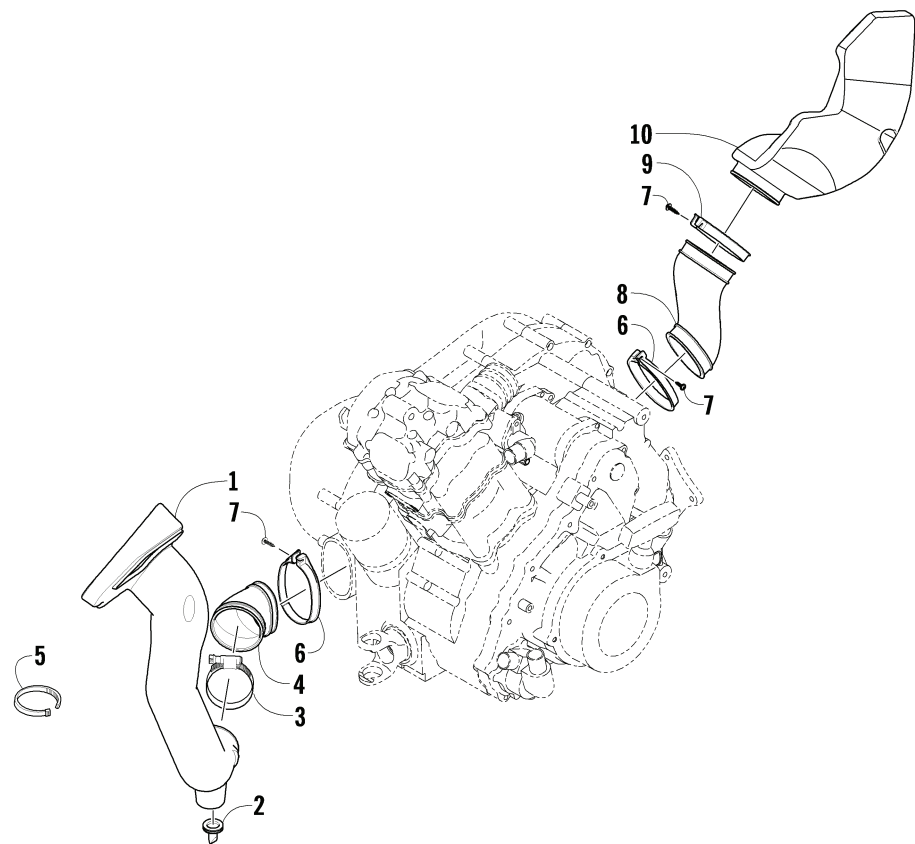
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0800-053	1	Engine, A650IH1	14	0412-348	1	● Shield, Exhaust Pipe - Outer - Front
2	1506-740	1	Bracket, Engine - Right	15	0512-344	1	● Pipe, Exhaust
	1506-741	1	Bracket, Engine - Left	16	0423-317	3	● Hose Clamp
3	0423-405	2	Screw, Cap	17	0412-338	1	Gasket, Exhaust Pipe
4	0423-042	1	Spacer, Engine	18	0412-375	1	Seal, Exhaust
5	8428-002	2	Nut, Lock	19	0612-668	2	Spring, Extension
6	2406-065	4	Mount, Rubber - Engine	20	0412-215	3	Bushing, Exhaust Pipe
7	8408-820	10	Screw, Cap	21	1506-732	1	Channel, Muffler Support
8	8408-012	4	Screw, Cap	22	0512-430	1	Muffler - Assembly (inc. 23-25)
9	8432-802	8	Nut	23	8477-610	3	● Screw, Cap
10	0512-345	1	Pipe, Exhaust - Assembly (inc. 11-16)	24	0412-489	1	● Cover, Muffler
11	0412-350	1	● Shield, Exhaust Pipe - Outer - Rear	25	0412-490	3	● Washer
12	0412-339	1	● Shield, Exhaust Pipe - Inner - Rear	26	0801-108	4	Bushing, Engine Mount
13	0412-349	1	● Shield, Exhaust Pipe - Inner - Front	27	0411-426	1	Decal, Warning - Clutch Cover



COOLING ASSEMBLY

0742-415

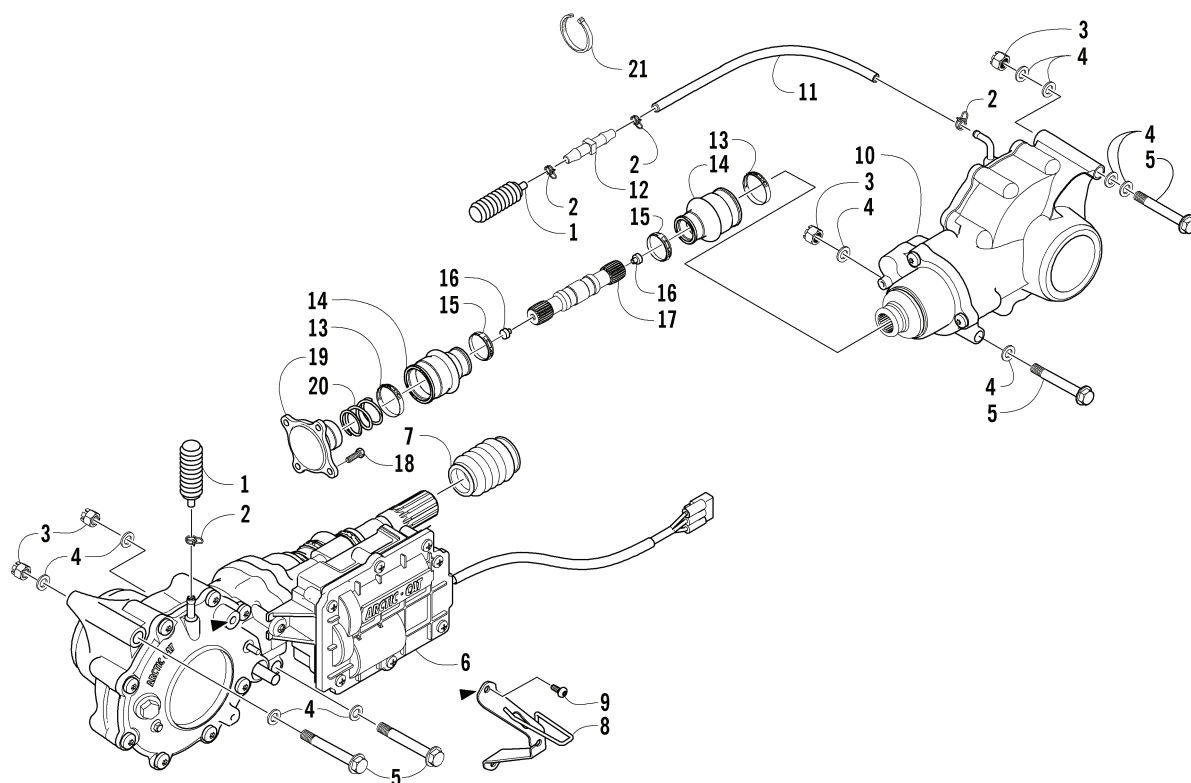
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0413-172	1	Radiator Assembly (inc. 2-13)	14	0423-484	2	Screw, Shoulder
2	0413-184	1	● Radiator	15	0623-038	2	Nut w/Washer
3	0413-007	1	● Screen, Radiator	16	0423-028	2	Bushing, Stem
4	0413-002	1	● Cap, Radiator	17	0410-002	1	Hose, Coolant - Upper
5	0423-030	2	● Grommet	18	0410-022	1	Hose, Coolant - Crossover
6	0610-016	AR	● Hose - 25 ft	19	0410-041	1	Hose, Coolant - Lower
7	0413-046	1	● Shroud, Fan	20	0423-496	6	Clamp, Hose
8	0413-123	1	● Fan, Cooling	21	0123-788	2	Cable Tie
9	8475-512	12	● Screw, Machine	22	0410-127	2	Hose, Oil Cooler
10	0423-351	1	● Clamp, Wire	23	0423-632	6	Clamp, Hose
11	0123-397	1	● Clamp, Cable	24	0413-163	1	Cooler, Oil
12	0413-168	1	● Sensor, Temperature - Coolant	25	8476-612	2	Screw, Machine
13	0423-390	1	● O-Ring	26	0513-022	1	Bracket, Mounting - Upper - Oil Cooler



CASE/BELT COOLING ASSEMBLY

0743-229

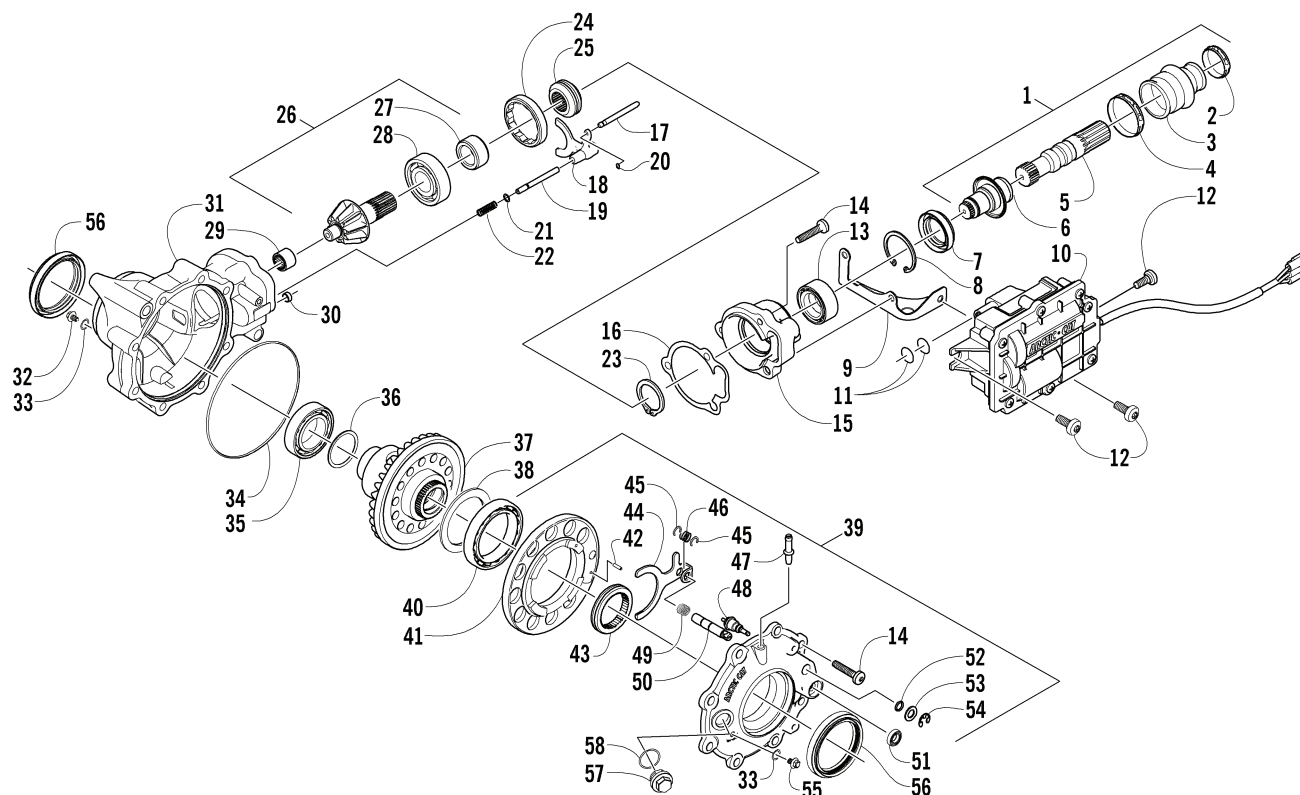
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0413-115	1	Duct, Belt Cooling - Front	6	0423-550	2	Clamp, Plastic
2	0470-442	1	Valve, Drain	7	0423-342	3	Screw, Self-Tapping
3	0423-578	1	Clamp, Boot	8	0413-097	1	Boot, Duct - Rear
4	0413-160	1	Boot, Duct - Front	9	0423-554	1	Clamp, Boot
5	0123-903	1	Cable Tie - 11.5 in.	10	0413-153	1	Duct, Belt Cooling - Rear



DRIVE TRAIN ASSEMBLY

0742-520

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0402-147	2	Bladder, Gearcase	12	0470-462	1	Fitting, Vent
2	0423-315	4	Clamp, Fitting	13	0423-393	2	Clamp, Boot
3	8428-002	4	Nut, Lock	14	0402-985	2	Boot
4	0423-426	10	Washer	15	0423-411	2	Clamp, Boot
5	0423-404	4	Screw, Cap	16	0673-618	2	Bumper, Propeller Shaft
6	<u>1502-248</u>	1	Gearcase, Front	17	1402-233	1	Shaft, Propeller
7	0402-966	1	Boot, Shaft	18	8408-820	4	Screw, Cap
8	0502-500	1	Plate, Cable	19	0402-950	1	Flange, Output
9	0423-396	2	Screw, Self-Tapping	20	1402-026	1	Spring
10	1502-079	1	Gearcase, Rear	21	0123-788	AR	Cable Tie
11	0410-048	AR	Hose, Vent				

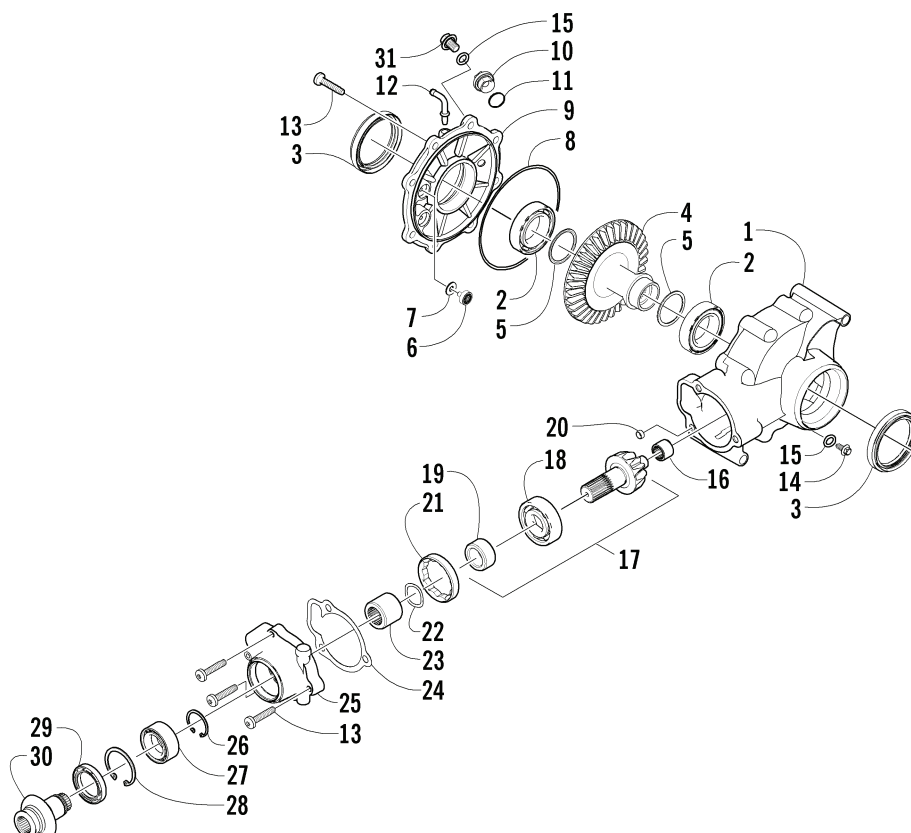


FRONT DRIVE GEARCASE ASSEMBLY

(Complete Assembly p/n 1502-248)

0742-344

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	1502-083	1	Shaft, Propeller - Assembly (inc. 2-6)	35	0402-393	1	Bearing
2	0423-411	1	● Clamp, Boot	36	0402-405	AR	Shim
3	0402-985	1	● Boot, Propeller Shaft		0402-406	AR	Shim
4	0423-393	1	● Clamp, Boot		0402-407	AR	Shim
5	1402-045	1	● Shaft, Output		0402-408	AR	Shim
6	1502-085	1	● Shaft, Input		0402-409	AR	Shim
7	1402-011	1	Seal	37	<u>1502-234</u>	1	Gear, Ring - 36T
8	0423-423	1	Ring, Retaining	38	1402-074	AR	Shim
9	0502-347	1	Bracket, Actuator		1402-075	AR	Shim
10	0502-579	1	Actuator (inc. one No. 11)		1402-076	AR	Shim
11	0423-498	2	● O-Ring		1402-077	AR	Shim
12	0423-396	3	Screw, Self-Tapping		1402-078	AR	Shim
13	1402-043	1	Bearing	39	1502-097	1	Cover, Gearcase (inc. one No. 33, 40-55, and one No. 56)
14	0423-118	11	Screw, Self-Tapping	40	1402-053	1	● Bearing
15	0502-528	1	Housing, Pinion	41	0502-413	1	● Flange, Bearing
16	0402-947	1	Gasket, Flange	42	1402-079	1	● Pin, Parallel
17	0402-997	1	Shaft, Selector	43	1402-042	1	● Collar, Sliding
18	0402-998	1	Fork, Selector	44	1402-054	1	● Fork
19	0402-417	1	Shaft, Shuttle	45	1402-058	2	● Ring, Retaining
20	0423-402	1	Ring, Retaining	46	1402-057	1	● Spring
21	0423-147	1	O-Ring	47	1402-104	1	● Fitting
22	0402-999	1	Spring, Return	48	0402-419	1	● Switch, Indicator
23	0423-417	1	Ring, Retaining	49	1402-063	1	● Spring
24	0402-357	1	Collar, Lock	50	1402-055	1	● Shaft, Lock
25	0402-413	1	Coupler, Drive	51	1402-056	1	● Seal
26	0502-783	1	Gear, Pinion - Assembly - 10T (inc. 27-28)	52	0423-133	1	● O-Ring
27	0402-336	1	● Collar, Retaining	53	0423-132	1	● Washer
28	0402-327	1	● Bearing	54	0423-424	1	● Ring, Retaining
29	0402-328	1	Bearing	55	1402-211	1	● Plug, Oil Level (inc. one No. 33)
30	0402-411	1	Pin, Dowel	56	1402-441	2	● Seal
31	0502-514	1	Housing, Gearcase	57	0402-333	1	Plug, Fill (inc. 58)
32	1402-210	1	Plug, Magnetic (inc. one No. 33)	58	0423-154	1	● O-Ring
33	0423-153	2	● O-Ring				
34	0423-149	1	O-Ring				

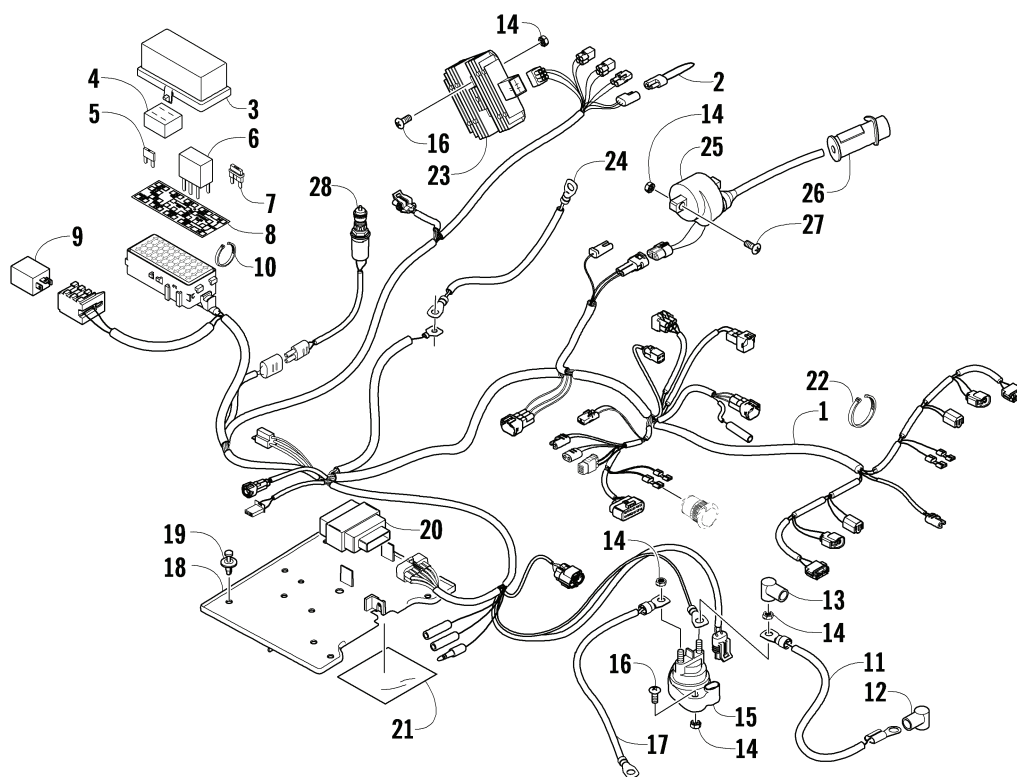


REAR DRIVE GEARCASE ASSEMBLY

(Complete Assembly p/n 1502-079)

0741-524

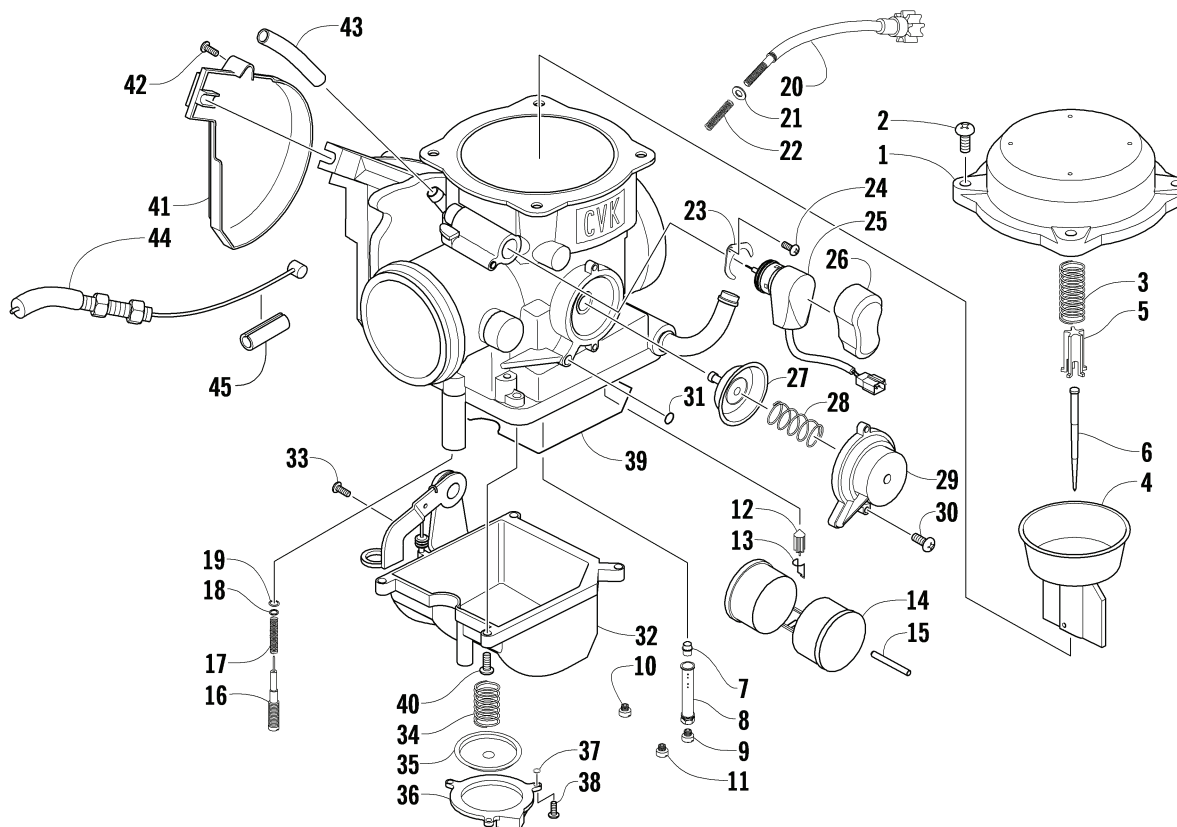
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0502-622	1	Housing, Gearcase	13	0423-118	11	Screw, Self-Tapping
2	0402-393	2	Bearing	14	0402-450	1	Plug, Magnetic (inc. one No. 15)
3	1402-441	2	Seal	15	0423-153	2	● O-Ring
4	1402-032	1	Gear, Ring - 36T	16	0402-328	1	Bearing
5	0402-405	AR	Shim	17	0502-783	1	Gear, Pinion - Assembly - 10T (inc. 18-19)
	0402-406	AR	Shim	18	0402-327	1	● Bearing
	0402-407	AR	Shim	19	0402-336	1	● Collar, Retaining
	0402-408	AR	Shim	20	0402-411	1	Pin, Dowel
	0402-409	AR	Shim	21	0402-331	1	Collar, Lock
6	0402-326	1	Button, Thrust	22	0402-982	1	Washer, Wave
7	0402-429	AR	Shim	23	0402-981	1	Collar, Shaft
	0402-430	AR	Shim	24	0402-947	1	Gasket, Flange
	0402-431	AR	Shim	25	0502-529	1	Housing, Pinion
	0402-432	AR	Shim	26	0423-417	1	Ring, Retaining
	0402-433	AR	Shim	27	1402-043	1	Bearing
8	0423-149	1	O-Ring	28	0423-423	1	Ring, Retaining
9	1502-082	1	Cover, Gearcase	29	1402-011	1	Seal
10	0402-333	1	Plug, Fill (inc. 11)	30	1502-085	1	Shaft, Input
11	0423-154	1	● O-Ring	31	1402-211	1	Plug, Oil Level (inc. one No. 15)
12	1402-102	1	Fitting				



WIRING HARNESS ASSEMBLY

0743-227

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	<u>0486-287</u>	1	Harness, Main (inc. 2-9)	14	0623-038	8	Nut w/Washer
2	0486-164	1	● Tether, Accessory Connector	15	0445-058	1	Solenoid
3	0530-008	1	● Cover, Fuse Block	16	8476-625	4	Screw, Machine
4	0430-037	1	● Holder, Fuse	17	0445-062	1	Cable, Battery/Solenoid
5	0430-034	1	● Diode	18	1406-787	1	Tray, Electrical
6	0430-033	2	● Relay (5-Pin) - 20 Amp	19	0623-362	4	Rivet, Reinstallable
	0430-045	2	● Relay (4-Pin) - 20 Amp	20	0824-038	1	CDI Unit
7	0430-032	4	● Fuse - 10 Amp	21	0412-291	1	Shield, Heat
	0430-031	3	● Fuse - 15 Amp	22	0123-903	AR	Cable Tie - 11.5 in.
	0430-030	2	● Fuse - 30 Amp	23	0824-037	1	Regulator, Voltage
8	<u>1411-672</u>	1	● Decal, Fuse Block	24	0445-063	1	Cable, Battery/Ground
9	0430-049	1	● Flasher (3-Pin)	25	0824-036	1	Coil, Ignition - Assembly
10	0123-788	AR	Cable Tie - 7.5 in.	26	0824-049	1	Cap, Spark Plug
11	0445-064	1	Cable, Solenoid/Starter (inc. 12)	27	8476-620	2	Screw, Machine
12	0645-019	1	● Boot, Terminal	28	<u>0409-089</u>	1	Switch, Brake - Assembly
13	0645-327	1	Boot, Terminal				

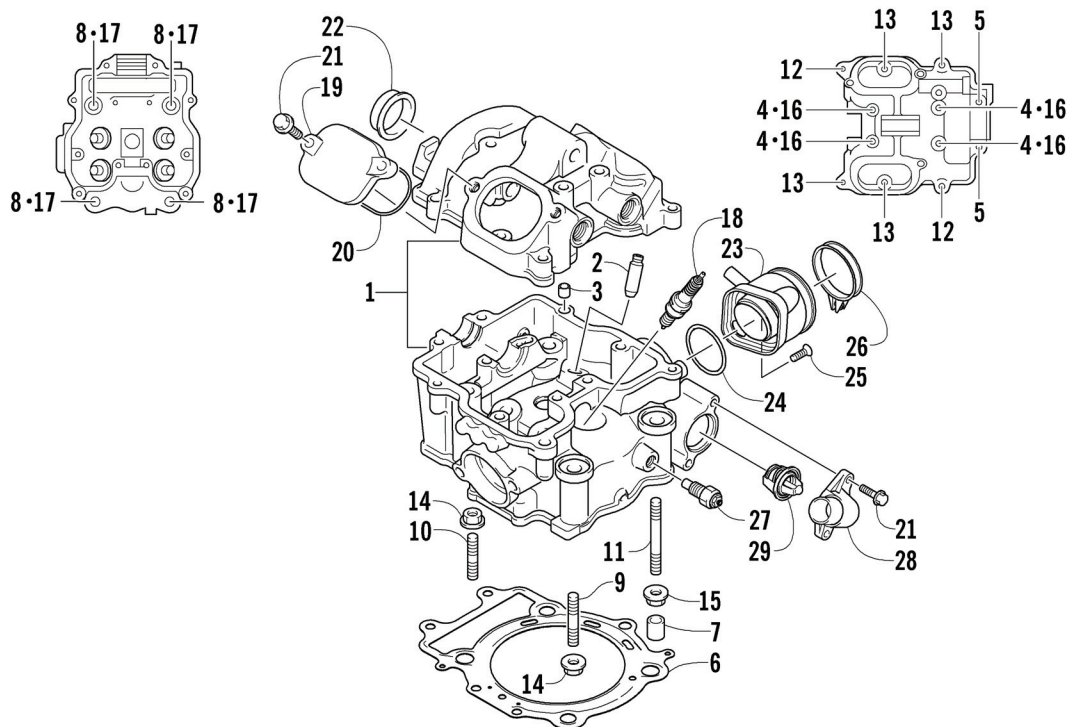


CARBURETOR

CVK40-AE (Complete Assembly p/n 0470-823)

0743-210 *Not a Service Part **Optional

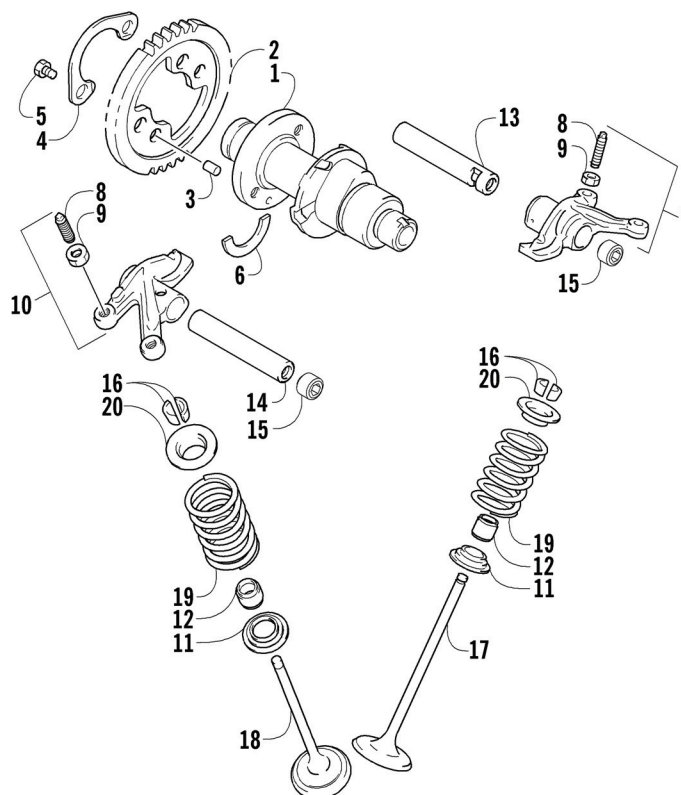
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	5507-186	1	Cover, Top	21	5507-028	1	Washer
2	5507-187	4	Screw, Top Cover	22	5507-029	1	Spring
3	5507-188	1	Spring	23	5507-115	1	Plate
4	5507-189	1	Piston, Vacuum	24	5507-117	1	Screw
5	5507-190	1	Seat, Spring	25	5507-196	1	Choke, Electric
6	5507-122	1	Jet Needle	26	5507-114	1	Cover, Electric Choke
7	5507-192	1	Needle Jet	27	5507-116	1	Diaphragm Assembly
8	5507-193	1	Holder, Needle Jet	28	5507-104	1	Spring
9	5507-185	1	Main Jet - 122	29	5507-105	1	Cover
	5507-241	1	Main Jet - 118**	30	5507-106	2	Screw
	5507-125	1	Main Jet - 120**	31	5507-102	1	U-Ring
	5507-218	1	Main Jet - 125**	32	<u>5507-214</u>	1	Chamber, Float - Assembly (inc. 33-39)
	5507-219	1	Main Jet - 128**	33	5507-050	1	● Screw, Drain
	5507-074	1	Main Jet - 130**	34	<u>5507-211</u>	1	● Spring
10	5507-069	1	Slow Jet - 35	35	5507-197	1	● Diaphragm Assembly - Pump Housing
11	5507-112	1	Starter Jet - 85	36	5507-198	1	● Housing, Pump
12	5507-183	1	Valve, Float - Set (inc. 13)	37	5507-034	1	● U-Ring
13	*	1	● Clip	38	5507-035	3	● Screw
14	5507-039	1	Float Set (inc. 15)	39	5507-067	1	● O-Ring, Float Chamber
15	*	1	● Pin, Float	40	5507-017	4	Screw
16	<u>5507-213</u>	1	Screw, Pilot - Set (inc. 17-19)	41	5507-036	1	Cover
17	*	1	● Spring	42	5507-037	1	Screw
18	*	1	● Washer	43	0410-056	1	Hose, Vent
19	*	1	● O-Ring	44	0487-021	1	Cable, Throttle
20	5507-027	1	Screw, Idle Adjust	45	0470-694	1	Limitter, Throttle



CYLINDER HEAD ASSEMBLY

0742-522 **Not a Service Part

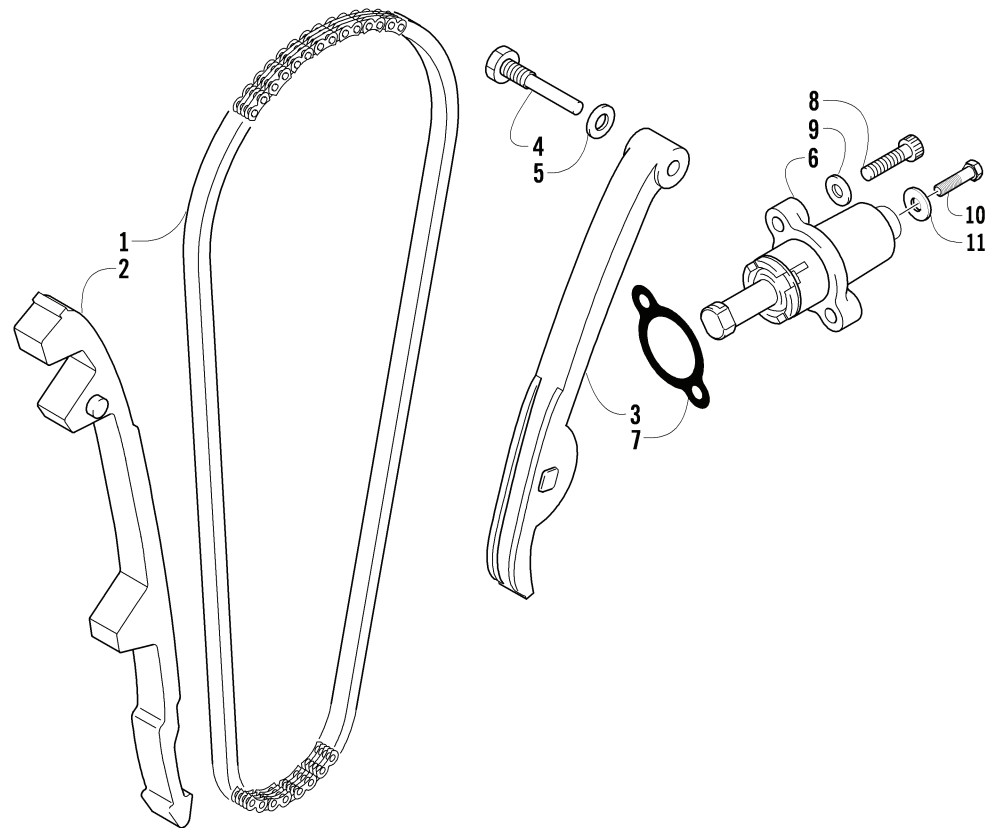
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0808-047	1	Head, Cylinder - Assembly (inc. 2-4)*	18	<u>0217-799</u>	1	Spark Plug (CPR8E)
2	**	4	● Guide, Valve	19	0808-003	2	Cap, Inspection
3	0829-001	2	● Dowel, Sleeve	20	0830-167	2	O-Ring
4	0826-001	4	● Screw, Cap	21	0826-007	4	Screw, Cap
5	0826-002	2	Screw, Cap	22	0808-077	1	Plug, Cylinder Head
6	0830-085	1	Gasket, Cylinder Head	23	0570-101	1	Pipe, Intake - Assembly
7	0829-002	2	Pin, Dowel	24	0830-090	1	O-Ring
8	0808-037	4	Screw, Cap	25	0826-008	2	Screw, Machine
9	0827-030	2	Bolt, Stud	26	0423-317	1	Clamp, Intercooler
10	0827-002	2	Bolt, Stud	27	<u>0808-127</u>	1	Switch, Coolant Temperature - Assembly
11	0827-031	1	Bolt, Stud	28	0808-008	1	Cover, Thermostat
12	0826-005	2	Screw, Cap	29	0808-078	1	Thermostat
13	0826-006	4	Screw, Cap				
14	8424-604	4	Nut				
15	8424-804	1	Nut				
16	0830-107	4	Gasket - Seal, Fastener				
17	0830-147	4	Washer, Crush				
							* Cylinder Head Assembly (p/n 0808-047) includes valve train components. Refer to Camshaft/Valve Assembly for complete parts listing.



CAMSHAFT/VALVE ASSEMBLY

0739-942 *Included in Cylinder Head Assembly (p/n 0808-047)

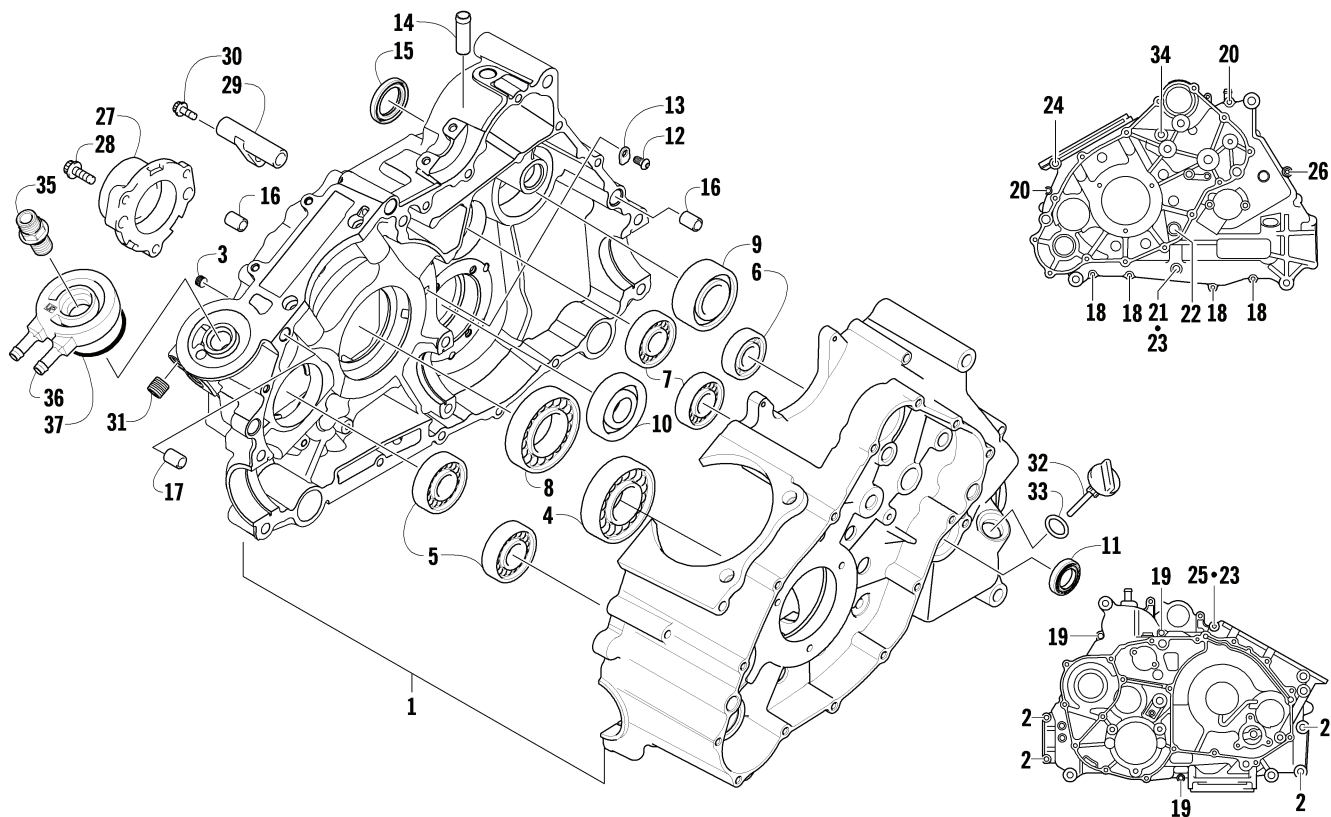
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	<u>0809-200</u>	1	Camshaft	11	0809-006	4	Seat, Spring - Valve*
2	0809-002	1	Sprocket	12	0830-016	4	Seal, Oil*
3	0829-008	1	Pin	13	0809-007	1	Shaft, Rocker Arm - Intake*
4	0828-004	1	Washer	14	0809-008	1	Shaft, Rocker Arm - Exhaust*
5	0826-034	2	Bolt	15	0831-066	2	Plug, Shaft*
6	0809-003	1	C-Ring	16	0809-014	8	Keeper, Valve*
7	<u>0809-202</u>	1	Arm, Valve Rocker - Intake (inc. two No. 8-9)*	17	0809-039	2	Valve, Intake*
8	0809-033	4	● Screw*	18	0809-040	2	Valve, Exhaust*
9	0827-007	4	● Nut*	19	0809-138	4	Spring, Valve*
10	<u>0809-205</u>	1	Arm, Valve Rocker - Exhaust (inc. two No. 8-9)*	20	0809-013	4	Retainer, Spring*



CAM CHAIN ASSEMBLY

0732-308

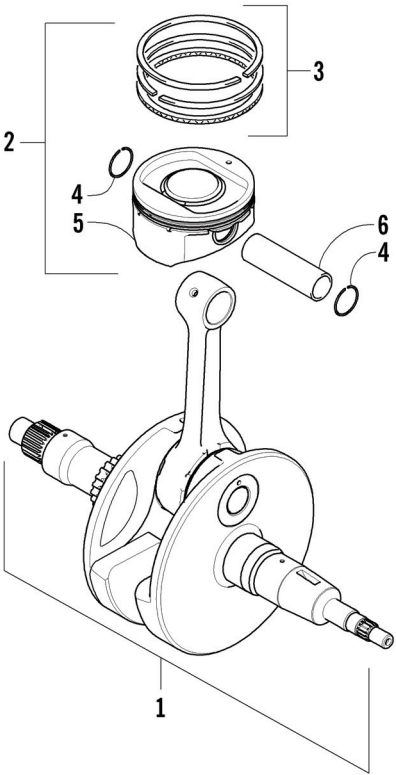
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0810-001	1	Chain, Cam	7	0830-018	1	Gasket
2	0810-002	1	Guide, Chain	8	8468-625	2	Screw, Machine
3	0810-003	1	Tensioner, Chain	9	0830-107	2	Gasket
4	0826-036	1	Bolt	10	8400-610	1	Screw, Cap
5	0830-025	1	Washer	11	8428-110	1	Washer
6	0810-004	1	Adjuster, Tensioner - Assembly				



CRANKCASE ASSEMBLY

0743-264

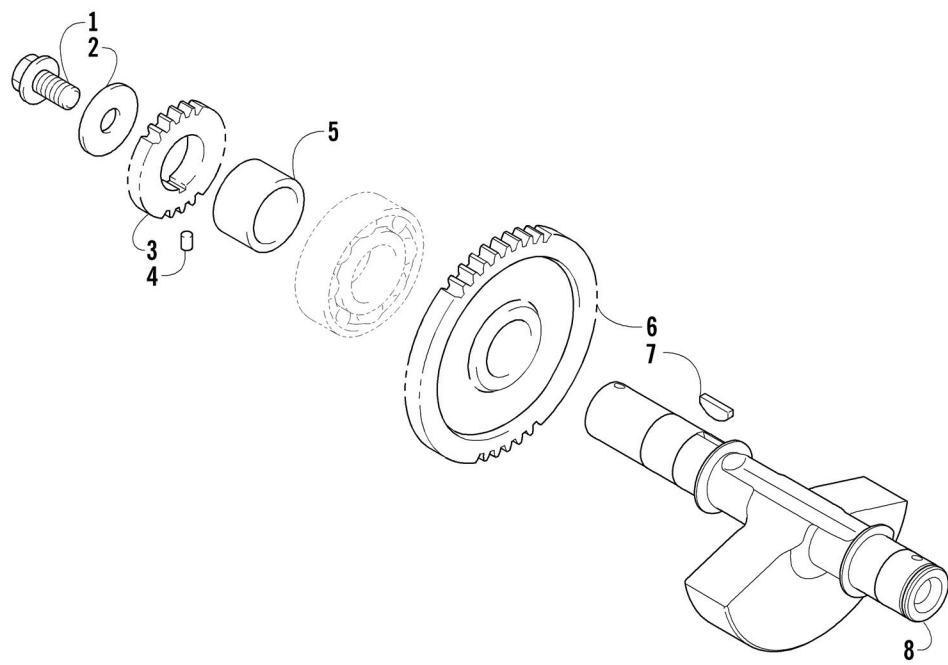
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	<u>0801-096</u>	1	Crankcase Assembly (inc. 2-15)	20	8468-675	2	Screw, Machine
2	8412-850	4	● Screw, Cap	21	8412-860	1	Screw, Cap
3	0801-002	1	● Plug	22	0826-017	1	Screw, Cap
4	0832-043	1	● Bearing	23	0830-008	2	Gasket
5	0832-044	2	● Bearing	24	0826-019	1	Screw, Cap
6	0832-049	1	● Bearing	25	0826-018	1	Screw, Cap
7	0832-050	2	● Bearing	26	8468-695	1	Screw, Machine
8	0832-042	1	● Bearing	27	0801-006	1	Housing, Secondary Shaft Bearing
9	0832-048	1	● Bearing - Driveshaft	28	0826-105	3	Bolt
10	0832-015	1	● Bearing	29	0801-069	1	Pipe, Breather
11	0822-052	1	● Seal, Countershaft	30	0826-038	1	Bolt, Breather Pipe
12	0826-100	4	● Screw, Cap	31	<u>0812-064</u>	2	Plug
13	0822-010	4	● Retainer, Bearing	32	0801-073	1	Stick, Oil Level
14	0801-028	1	● Pipe, Breather	33	0830-010	1	O-Ring, Oil Level Stick
15	0830-035	1	● Seal, Driveshaft	34	8468-680	1	Screw, Machine
16	0829-002	5	Pin, Dowel	35	0812-056	1	Stand
17	0829-003	1	Pin, Dowel	36	0812-055	1	Tower
18	8468-645	4	Screw, Machine	37	0830-166	1	O-Ring
19	8468-655	3	Screw, Machine				



CRANKSHAFT ASSEMBLY

0739-932

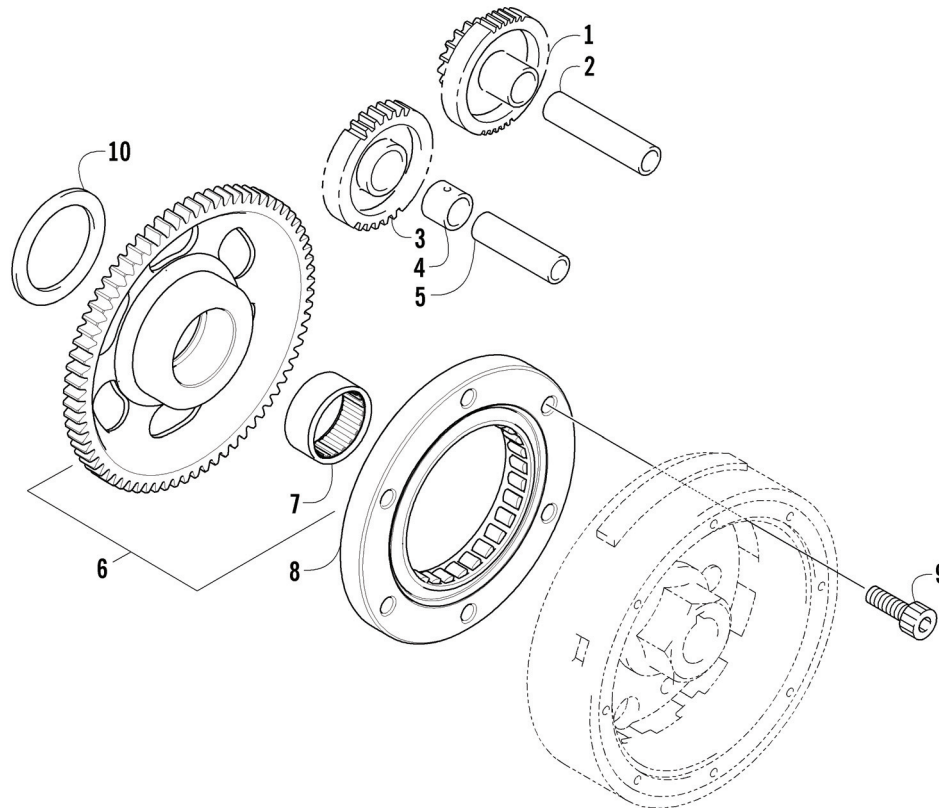
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0805-032	1	Crankshaft Assembly	4	0831-001	2	● Circlip, Piston Pin
2	0805-035	1	Piston Set (inc. 3-6)	5	0805-010	1	● Piston
3	0805-011	1	● Ring, Piston - Set	6	0805-012	1	● Pin, Piston



CRANK BALANCER ASSEMBLY

0739-941

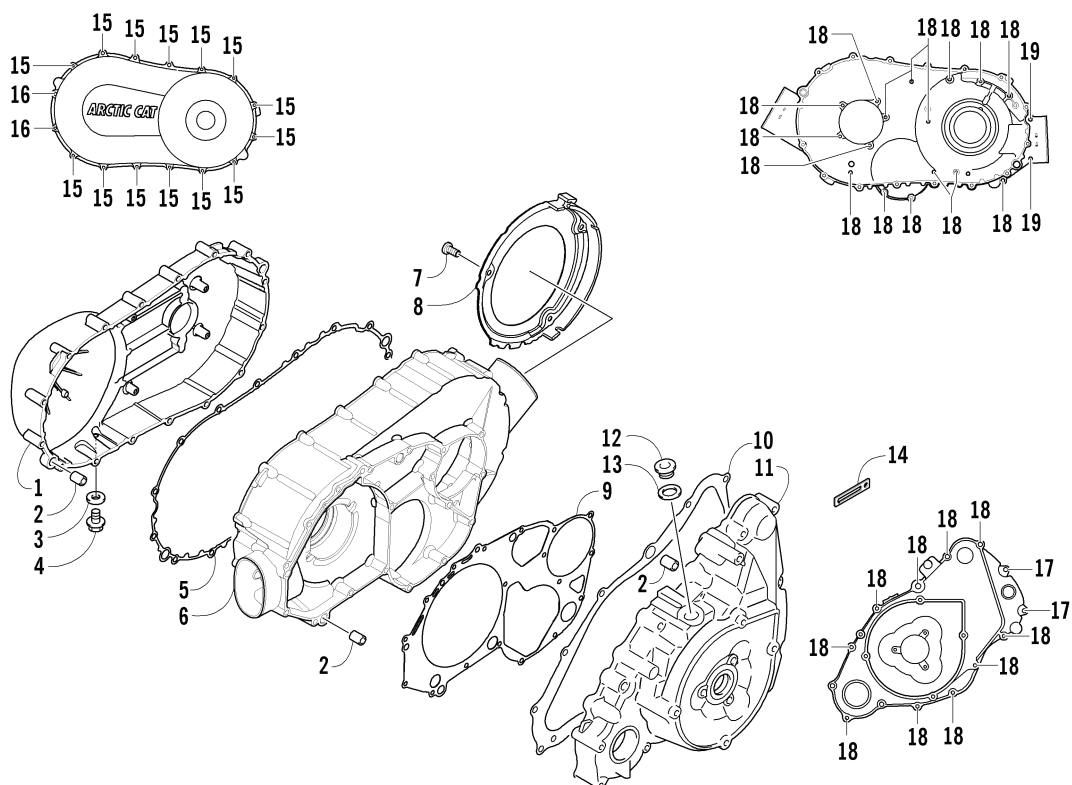
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0826-033	1	Screw, Cap	5	0811-004	1	Spacer
2	0828-003	1	Washer	6	0811-002	1	Gear, Driven
3	0811-003	1	Gear, Oil Pump Drive	7	0829-006	1	Key
4	0829-007	1	Pin, Dowel - Solid	8	0811-017	1	Balancer, Crank



STARTER CLUTCH ASSEMBLY

0739-940

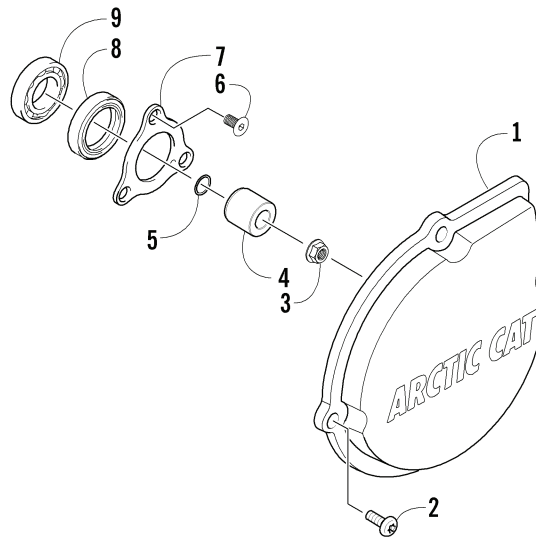
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0815-001	1	Gear, Starter Idler - No. 1	6	0815-004	1	Gear, Starter Clutch (inc. 7)
2	0829-031	1	Shaft, Starter Gear	7	0832-004	1	● Bearing
3	0815-002	1	Gear, Starter Idler - No. 2	8	0802-035	1	Clutch, Starter
4	0815-003	1	Spacer, Starter Idler Gear No. 2	9	0826-069	6	Screw, Torx Socket Head
5	0829-032	1	Shaft, Starter Gear	10	0828-094	1	Washer



CLUTCH/V-BELT/MAGNETO COVER ASSEMBLY

0742-528

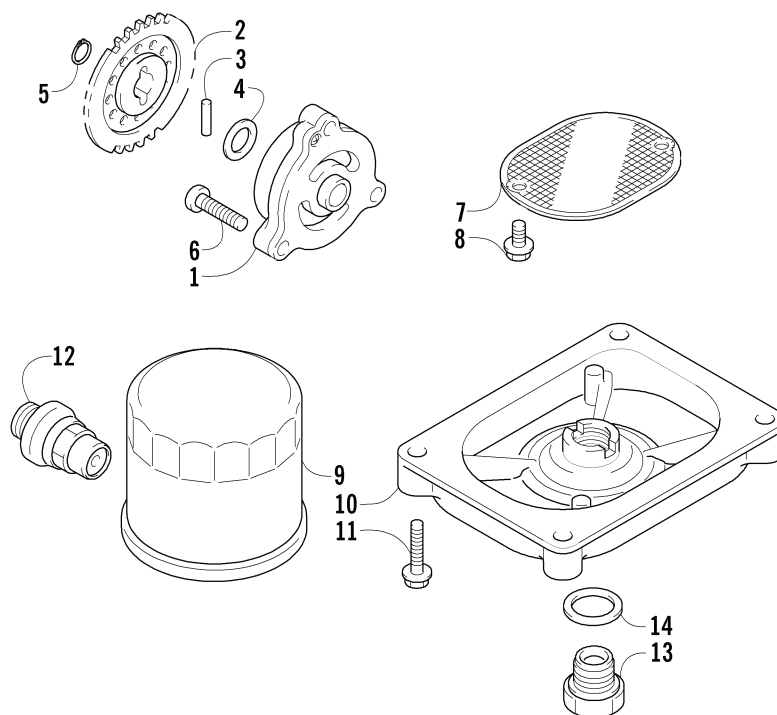
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	<u>0806-088</u>	1	Cover, V-Belt	11	<u>0806-082</u>	1	Cover, Magneto - Assembly
2	0829-002	4	Pin, Dowel	12	0806-022	1	Plug
3	0830-013	1	Washer, Crush	13	0830-015	1	Washer, Crush
4	8408-812	1	Screw, Cap	14	3002-964	1	Clamp, Wire
5	<u>0830-174</u>	1	Gasket, V-Belt Cover	15	8468-645	14	Screw, Machine
6	<u>0806-091</u>	1	Cover, Clutch	16	8468-655	2	Screw, Machine
7	0826-029	3	Screw	17	8468-625	2	Screw, Machine
8	0806-048	1	Plate, Air Intake	18	8468-640	26	Screw, Machine
9	0830-116	1	Gasket, Clutch Cover	19	8468-675	2	Screw, Machine
10	0830-128	1	Gasket, Magneto Cover				



OUTER MAGNETO COVER ASSEMBLY

0742-516

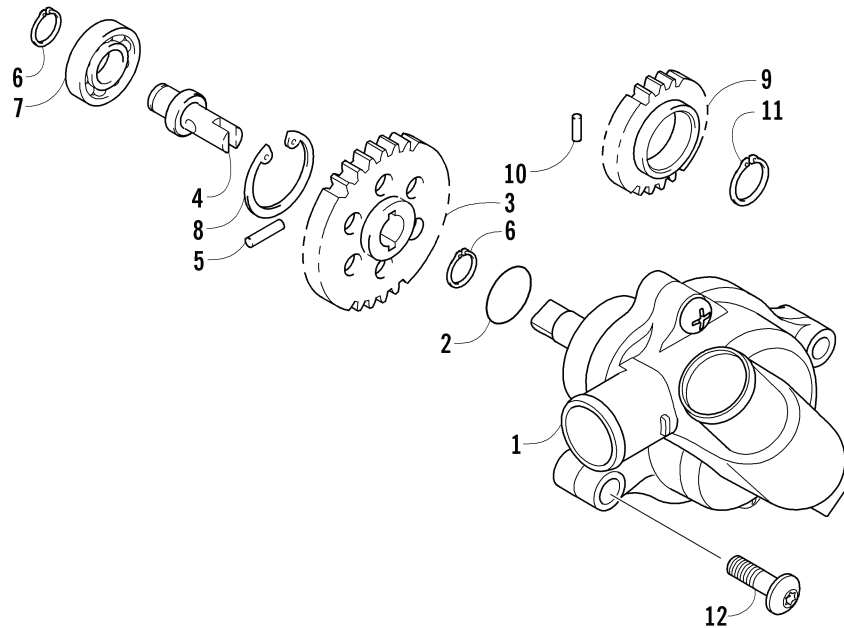
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0820-062	1	Cover, Magneto - Outer	6	0826-031	3	Screw
2	0826-008	4	Screw, Machine	7	0805-008	1	Retainer, Oil Seal
3	0827-008	1	Nut	8	0830-158	1	Seal, Oil
4	0820-061	1	Bushing	9	0832-045	1	Bearing
5	0830-108	1	O-Ring				



OIL FILTER/PUMP ASSEMBLY

0741-719

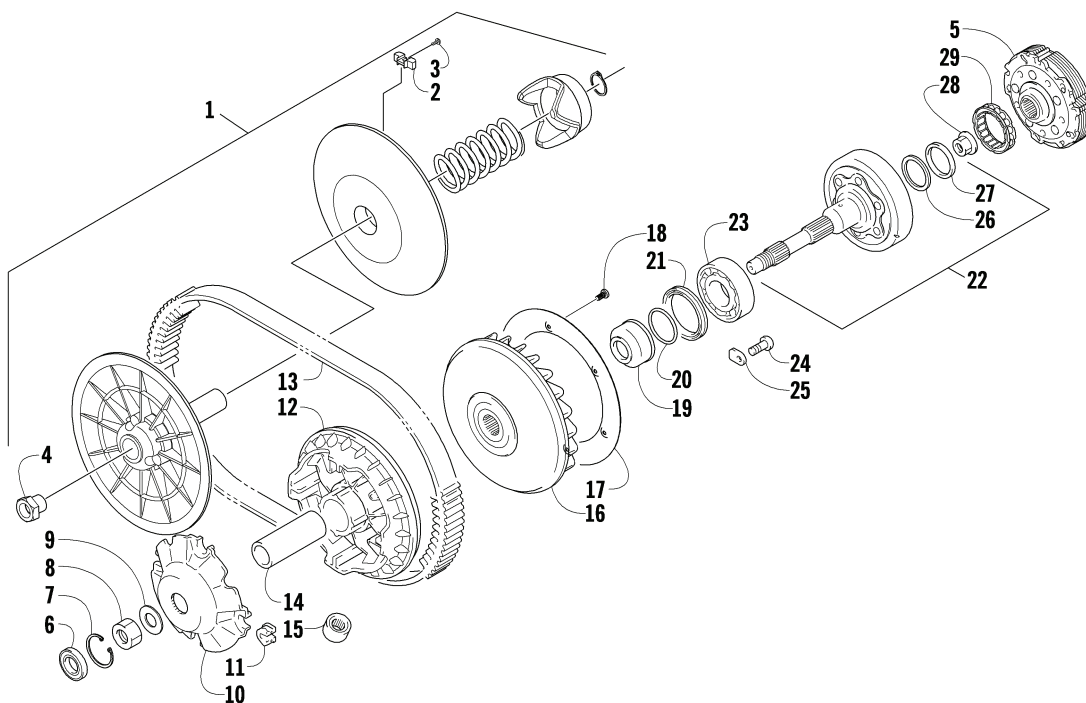
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0812-023	1	Pump, Oil	8	0826-040	2	Screw, Machine
2	0812-002	1	Gear, Driven	9	0812-029	1	Filter, Oil
3	0829-009	1	Pin	10	0812-053	1	Cap, Oil Strainer
4	0828-007	1	Shim	11	8468-625	4	Screw, Machine
5	0831-002	1	Circlip	12	0812-007	1	Valve, Oil-Relief - Assembly
6	0826-039	3	Screw, Cap	13	0812-006	1	Plug, Drain
7	<u>0812-057</u>	1	Strainer, Oil	14	0830-017	1	Gasket, Drain Plug



WATER PUMP ASSEMBLY

0739-945

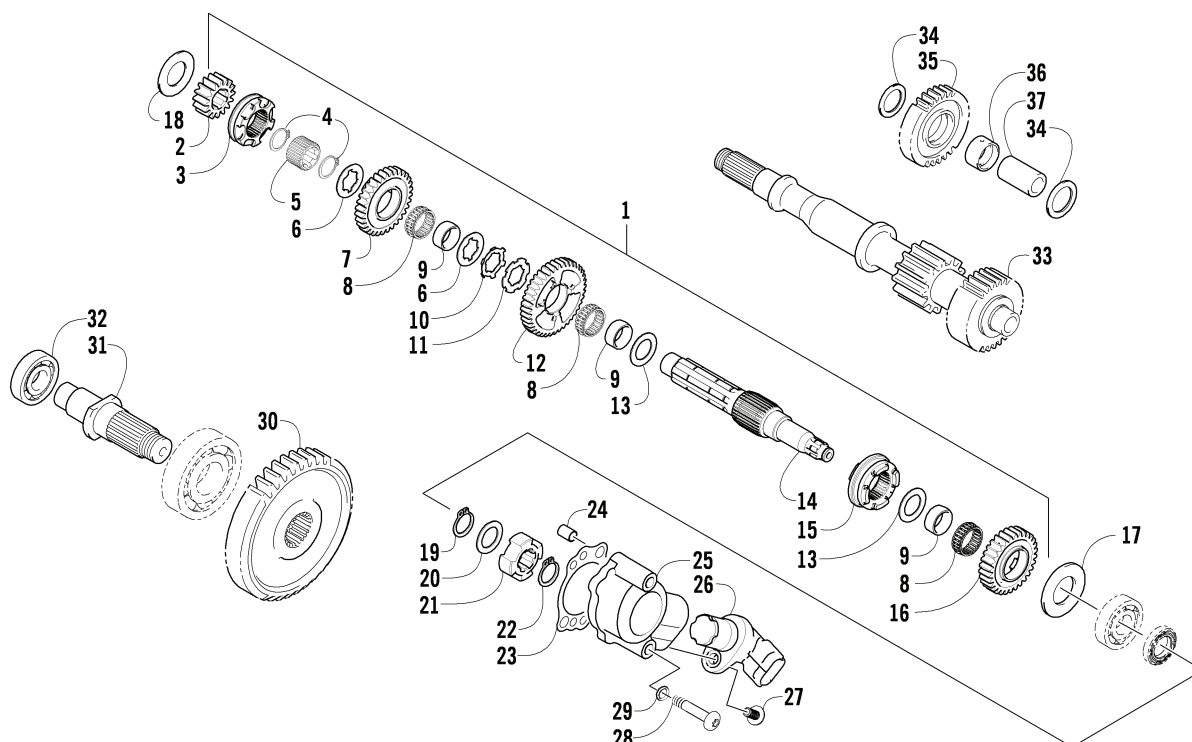
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0813-001	1	Pump, Water - Assembly	7	0832-046	1	Bearing, Shaft
2	0830-029	1	O-Ring	8	0831-004	1	Circlip, Shaft Bearing
3	0813-004	1	Gear, Driven	9	0811-003	1	Gear, Water Pump Drive
4	0813-005	1	Shaft, Driven Gear	10	0829-007	1	Pin, Drive Gear
5	0829-009	1	Pin, Driven Gear	11	0831-005	1	Circlip, Drive Gear
6	0831-002	2	Circlip, Driven Gear	12	8468-665	2	Screw, Machine



TRANSMISSION ASSEMBLY

0742-517

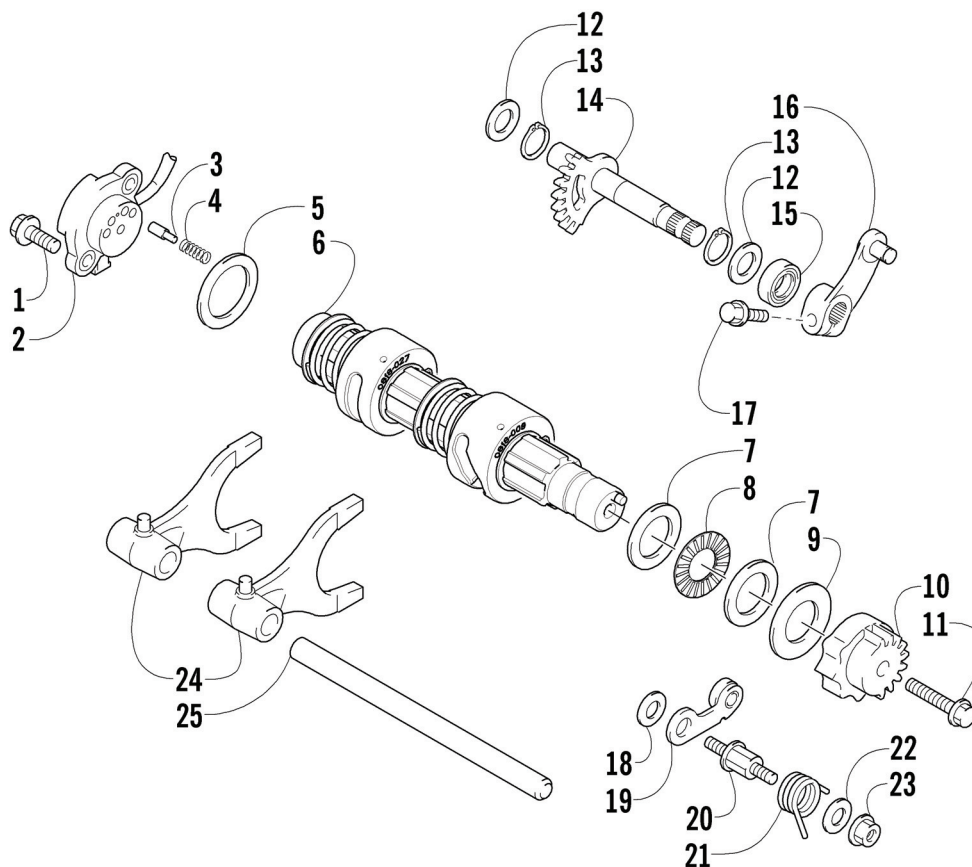
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0823-157	1	Pulley, Driven - Assembly (inc. 2-4)	16	0823-156	1	Face, Fixed Drive
2	0823-176	3	● Shoe, Cam	17	0823-131	1	Shroud, Drive Face
3	0823-177	3	● Screw, Cam	18	0623-914	6	Screw, Self-Tapping
4	0823-178	1	● Nut, Driven Pulley	19	0823-015	1	Spacer, Fixed Drive Face
5	0823-098	1	Clutch, Centrifugal - 6 Plate	20	0470-531	1	O-Ring
6	<u>0832-060</u>	1	Bearing	21	0830-034	1	Seal, Clutch Housing - Right
7	<u>0831-078</u>	1	Ring, Retaining	22	0823-096	1	Housing, Clutch - Assembly (inc. 26-27)
8	0827-010	1	Nut	23	0832-047	1	Bearing
9	0828-106	1	Washer	24	0826-029	2	Screw, Bearing Retainer
10	0823-008	1	Plate, Movable Drive Face	25	0822-084	2	Retainer, Bearing
11	0823-010	4	Damper, Movable Drive Face	26	0828-075	1	Shim
12	0823-159	1	Face, Movable Drive	27	0823-017	1	Seal, Clutch Housing - Left
13	0823-013	1	V-Belt	28	0827-011	1	Nut
14	0823-149	1	Spacer, Movable Drive Face	29	0823-018	1	Clutch, One-Way
15	0823-167	8	Roller, Movable Drive Face				



SECONDARY TRANSMISSION ASSEMBLY

0739-954

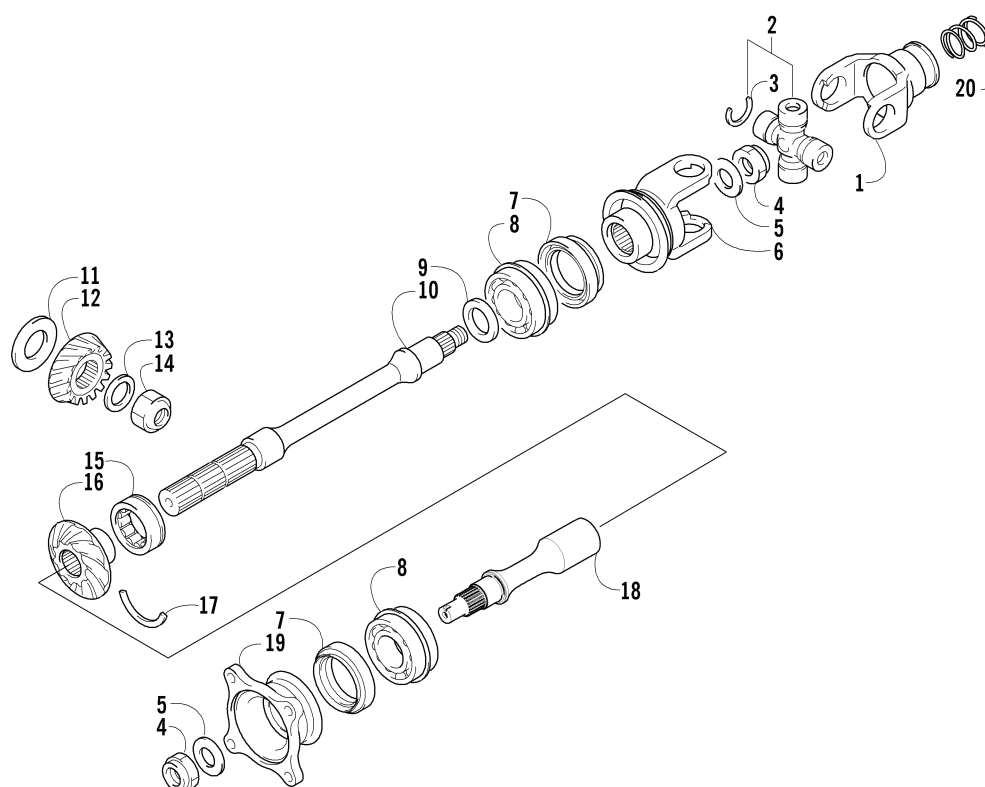
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	<u>0822-048</u>	1	Countershaft Assembly (inc. 2-16)	20	0828-069	1	Washer, Thrust
2	0822-008	1	● Gear, Drive	21	0822-050	1	Trigger, Speedometer Sensor
3	0822-014	1	● Dog, Reverse Driven Gear	22	0831-039	1	Ring, Retaining
4	0831-011	2	● Circlip	23	0830-129	1	Gasket
5	0822-045	1	● Spacer, Reverse Driven Gear	24	0829-023	2	Pin, Dowel
6	0828-008	2	● Washer	25	0822-049	1	Housing, Speedometer Sensor
7	0822-013	1	● Gear, Reverse Driven	26	<u>0824-042</u>	1	Sensor, Speedometer
8	0832-011	3	● Bearing	27	8468-620	1	Screw, Machine
9	0822-005	3	● Bushing	28	8468-645	2	Screw, Machine
10	0828-014	1	● Washer, Lock	29	0830-107	2	Seal, Fastener
11	0828-015	1	● Washer, Lock	30	0822-009	1	Gear, Driven
12	0822-004	1	● Gear, Driven - Low	31	0822-067	1	Shaft, Output
13	0822-046	2	● Washer, Driven Gear	32	0832-014	1	Bearing
14	0822-003	1	● Countershaft	33	0822-001	1	Driveshaft
15	0822-007	1	● Dog, Sliding	34	0828-016	2	Washer, Reverse Idle Gear
16	0822-006	1	● Gear, Driven - High	35	0822-011	1	Gear, Reverse Idle
17	0828-011	1	Washer, Drive Gear	36	0822-012	1	Bushing, Reverse Idle Gear
18	0828-010	1	Washer, Drive Gear	37	0822-015	1	Shaft, Reverse Idle
19	0831-040	1	Ring, Retaining				



GEAR SHIFTING ASSEMBLY

0739-957

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	8470-520	2	Screw, Machine	14	0818-007	1	Shaft, Sub-Gear Shift
2	0409-090	1	Switch, Gear Shift Position	15	0830-044	1	Seal, Sub-Gear Shift Shaft
3	0818-013	2	Contact	16	0818-014	1	Arm, Shift
4	0818-017	2	Spring	17	8468-620	1	Screw, Machine
5	0828-040	1	Washer, Shift Shaft	18	0828-038	1	Washer, Cam Stopper
6	0818-046	1	Shaft, Gear Shift - Assembly	19	0818-002	1	Stopper, Cam
7	0828-095	2	Washer, Thrust Bearing	20	0818-004	1	Support, Cam Stopper
8	0832-052	1	Bearing, Thrust - Roller	21	0818-028	1	Spring, Cam Stopper
9	0828-037	1	Washer, Gear Shift Cam Plate	22	0828-035	1	Washer, Cam Stopper Spring
10	0818-005	1	Plate, Gear Shift Cam	23	8424-602	1	Nut, Cam Stopper Spring
11	0826-006	1	Bolt, Gear Shift Cam Plate	24	0818-072	2	Fork, Shift
12	0828-036	2	Washer, Sub-Gear Shift Shaft	25	0818-006	1	Shaft, Shift Fork
13	0831-010	2	Circlip, Sub-Gear Shift Shaft				

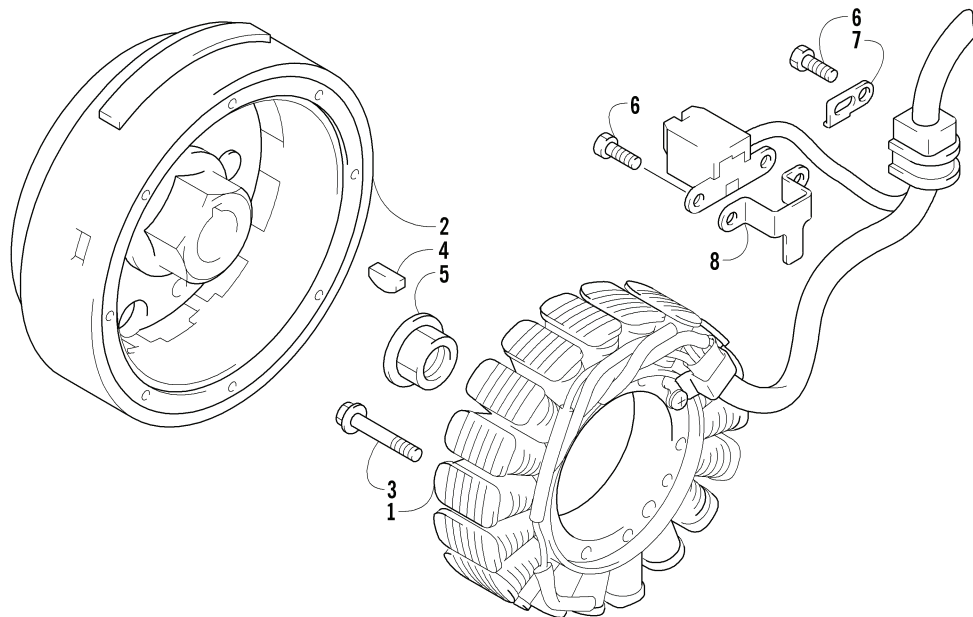


SECONDARY DRIVE ASSEMBLY

0742-594

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0819-063	1	Yoke, Propeller Shaft Joint	11	0828-030	AR	Shim, 24 x 48 x 0.25 mm
2	1402-463	1	Joint, Universal - Set (inc. 3)		0828-031	AR	Shim, 24 x 48 x 0.30 mm
3	0423-450	4	● Circlip		0828-032	AR	Shim, 24 x 48 x 0.35 mm
4	0827-013	2	Nut, Rear Output Joint		0828-033	AR	Shim, 24 x 48 x 0.90 mm
5	0828-020	2	Washer, Rear Output Flange		0828-018	AR	Shim, 24 x 48 x 0.95 mm
6	0819-061	1	Yoke, Drive Output - Front		0828-062	AR	Shim, 24 x 48 x 1.00 mm
7	0830-043	2	Seal, Oil - Driven Shaft		0828-063	AR	Shim, 24 x 48 x 1.05 mm
8	0832-017	2	Bearing, Driven Shaft		0828-064	AR	Shim, 24 x 48 x 1.10 mm
9	0828-021	AR	Shim, 25 x 34 x 0.25 mm		0828-065	AR	Shim, 24 x 48 x 1.15 mm
	0828-022	AR	Shim, 25 x 34 x 0.30 mm	12	0819-001	1	Gear, Secondary Drive
	0828-023	AR	Shim, 25 x 34 x 0.70 mm	13	0828-019	1	Washer
	0828-024	AR	Shim, 25 x 34 x 0.90 mm	14	0827-012	1	Nut
	0828-025	AR	Shim, 25 x 34 x 0.95 mm	15	0832-016	1	Bearing, Driven Gear
	0828-026	AR	Shim, 25 x 34 x 1.00 mm	16	0819-002	1	Gear, Secondary Driven
	0828-027	AR	Shim, 25 x 34 x 1.05 mm	17	0819-011	1	Ring, Driven Bearing
	0828-028	AR	Shim, 25 x 34 x 1.10 mm	18	0819-053	1	Shaft, Secondary Driven - Rear
	0828-029	AR	Shim, 25 x 34 x 1.15 mm	19	0819-005	1	Flange, Output Joint - Rear
10	0819-003	1	Shaft, Secondary Driven - Front	20	1402-026	1	Spring

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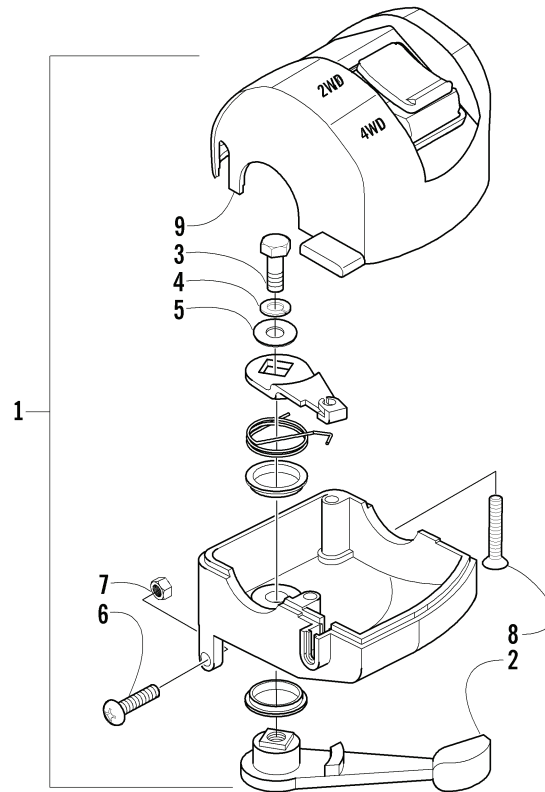


MAGNETO ASSEMBLY

0737-780

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0802-037	1	Stator - Assembly	5	0827-014	1	Nut
2	0802-036	1	Rotor/Flywheel	6	8470-510	3	Screw, Machine
3	0826-102	3	Screw, Machine	7	0802-015	1	Clamp - No. 1
4	0829-012	1	Key	8	0802-016	1	Clamp - No. 2

46



THROTTLE CASE ASSEMBLY

0738-414

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0509-012	1	Case, Throttle - Assembly (inc. 2-9)	6	3423-014	1	● Screw
2	3409-001	1	● Lever	7	3423-327	1	● Nut
3	3004-533	1	● Screw, Cap	8	3423-199	2	● Screw
4	3004-447	1	● Washer, Lock	9	0409-048	1	● Cover, Throttle Case w/Switch
5	3003-030	1	● Washer				

