

ARCTIC CAT®

SHARE OUR PASSION.™

Thundercat



Model Number A2009IEW4EUSL (Silver)

2009

illustrated parts manual

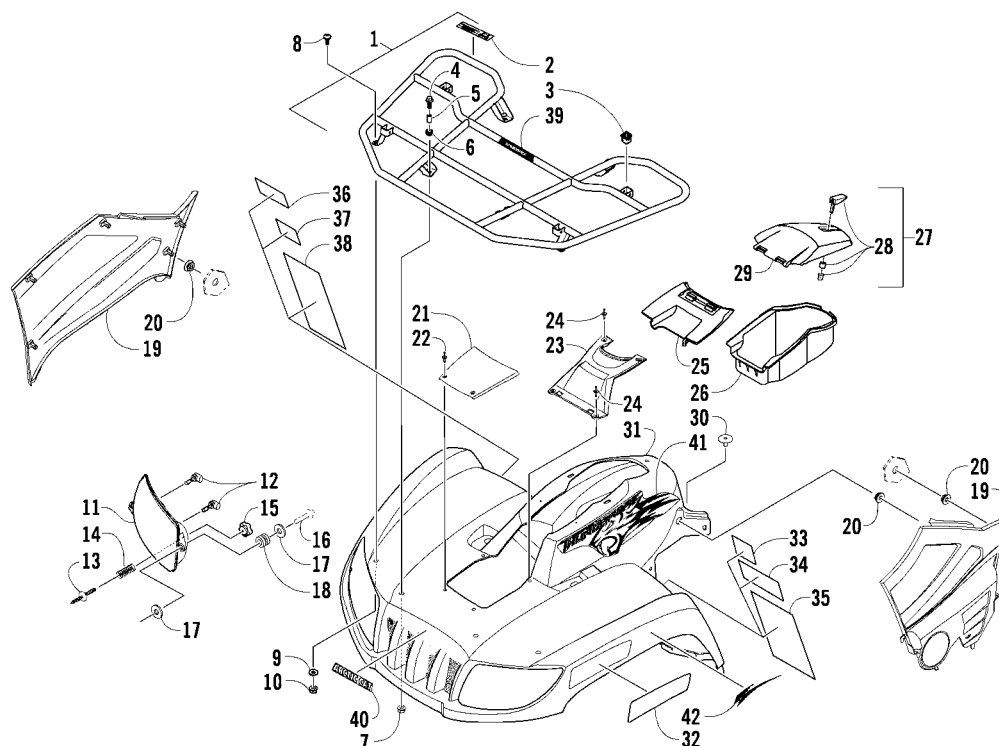
TABLE OF CONTENTS

2009 ATV Thundercat

Silver (Model No. A2009IEW4EUSL)

FRONT RACK, BODY PANEL, AND HEADLIGHT ASSEMBLIES	1
REAR RACK, BODY PANEL, AND FOOTWELL ASSEMBLIES	2
FRAME AND RELATED PARTS	3
TAILLIGHT ASSEMBLY	4
SEAT ASSEMBLY	5
STEERING ASSEMBLY	6
HANDLEBAR ASSEMBLY	7
INSTRUMENT POD ASSEMBLY	8
FRONT SUSPENSION ASSEMBLY	9
REAR SUSPENSION ASSEMBLY	10
WHEEL AND TIRE ASSEMBLY	11
AUXILIARY BRAKE ASSEMBLY	12
HYDRAULIC HAND BRAKE ASSEMBLY	13
HYDRAULIC BRAKE ASSEMBLY	14
GAS TANK ASSEMBLY	15
SHIFT LEVER ASSEMBLY	16
AIR INTAKE ASSEMBLY	17
BATTERY ASSEMBLY	18
ENGINE AND EXHAUST	19
COOLING ASSEMBLY	20
CASE/BELT COOLING ASSEMBLY	21
DRIVE TRAIN ASSEMBLY	22
FRONT DRIVE GEARCASE ASSEMBLY	23
REAR DRIVE GEARCASE ASSEMBLY	24
WIRING HARNESS ASSEMBLY	25
THROTTLE BODY ASSEMBLY	26
CYLINDER ASSEMBLY	27
CYLINDER HEAD AND CAMSHAFT/VALVE ASSEMBLY	28
CAM CHAIN ASSEMBLY	29
CRANKCASE ASSEMBLY	30
CRANKSHAFT AND PISTON ASSEMBLY	31
STARTER CLUTCH ASSEMBLY	32
OIL FILTER/PUMP ASSEMBLY	33
WATER PUMP ASSEMBLY	34
TRANSMISSION ASSEMBLY	35
SECONDARY TRANSMISSION ASSEMBLY (Engine Serial No. Up to 0900T10142249)	36
SECONDARY TRANSMISSION ASSEMBLY (Engine Serial No. 0900T10142250 and Up)	37
GEAR SHIFTING ASSEMBLY	38
SECONDARY DRIVE ASSEMBLY (Engine Serial No. Up to 0900T10142249)	39
SECONDARY DRIVE ASSEMBLY (Engine Serial No. 0900T10142250 and Up)	40
STARTER MOTOR ASSEMBLY	41
MAGNETO ASSEMBLY	42
MAGNETO SIDE ENGINE COVERS	43
CLUTCH SIDE ENGINE COVERS	44

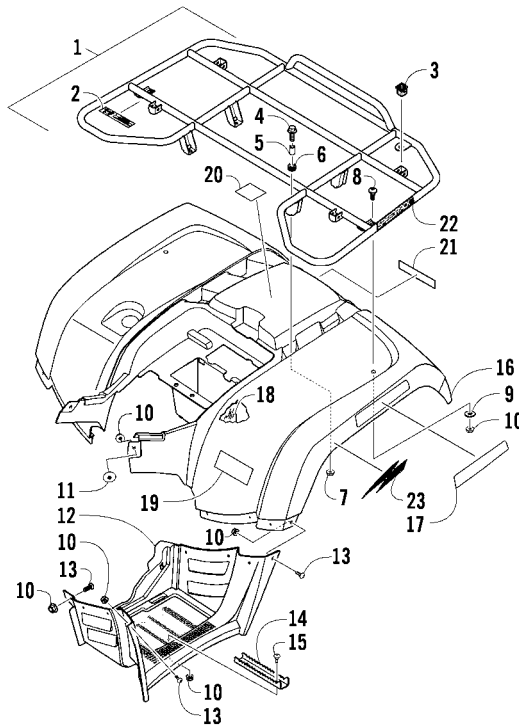
■ **NOTE:** The illustrations used in this Parts Manual are for reference to replacement part numbers only and are not to be used for assembly. For assembly procedures, use an Arctic Cat Service Manual. Underlined part numbers are new for the 2009 model year. For a complete list of related items, refer to the current accessory catalog.



FRONT RACK, BODY PANEL, AND HEADLIGHT ASSEMBLIES

0743-306

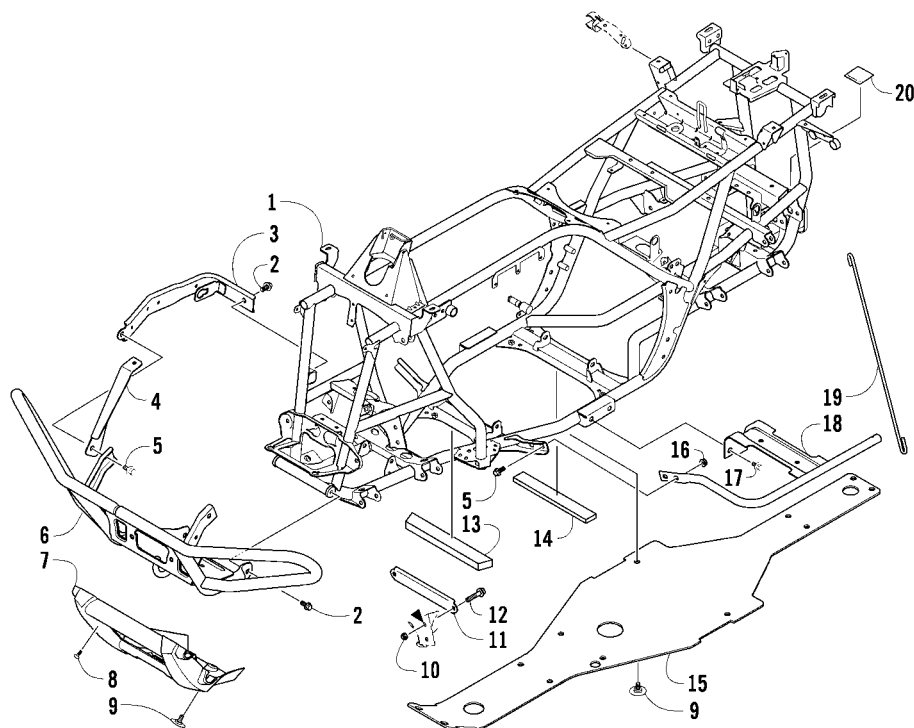
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	2506-106	1	Rack, Front - Assembly (inc. 2-3)	23	1406-484	1	Cover, Steering Post
2	0411-576	1	● Decal, Warning - Load	24	0623-362	4	Rivet, Reinstallable
3	0441-592	4	● Bushing, Rack	25	0470-513	1	Cover, Storage Box
4	8410-830	4	Screw, Cap	26	1406-573	1	Box, Storage
5	0423-669	4	Spacer	27	2506-234	1	Lid, Storage Box w/Latch (inc. 28-29)
6	0423-465	4	Grommet	28	1406-599	1	● Latch, Storage Box
7	8432-802	4	Nut, Lock	29	0470-514	1	● Lid, Storage Box
8	0423-654	2	Screw, Shoulder	30	0423-101	2	Screw, Shoulder
9	8050-222	2	Washer	31	<u>2516-062</u>	1	Panel, Fender - Front - Silver (inc. 32-38)
10	0423-540	2	Nut, Lock	32	0411-818	1	● Decal, Reflector - Front - Right
11	0509-044	1	Headlight Assembly - Right (inc. 12)		0411-819	1	● Decal, Reflector - Front - Left
	0509-035	1	Headlight Assembly - Left (inc. 12)	33	<u>1411-804</u>	1	● Decal, Warning - Age
12	0409-055	4	● Bulb, Headlight	34	1411-574	1	● Decal, Warning - Off-Road Only
13	0423-514	2	Stud, Adjuster - Headlight	35	<u>1411-932</u>	1	● Decal, Warning - General
14	0423-522	2	Spring, Adjuster	36	0411-835	1	● Decal, Warning - Turn/Hil
15	0423-513	2	Knob, Adjuster	37	1411-906	1	● Decal, Warning - Throttle
16	0623-785	4	Screw, Self-Tapping	38	1411-250	1	● Decal, Warning - Reverse/Pre-Ride
17	8050-217	8	Washer	39	1411-050	1	Decal, "Speedrack"
18	0423-447	4	Grommet	40	1411-817	1	Decal, Front
19	2406-588	1	Panel, Side - Lower - Right	41	1411-818	1	Decal, Side - Upper Right
	2406-589	1	Panel, Side - Lower - Left		1411-819	1	Decal, Side - Upper Left
20	0423-678	9	Grommet	42	1411-820	1	Decal, Side Fender - Front - Right
21	1406-358	1	Cover, Access		1411-821	1	Decal, Side Fender - Front - Left
22	0423-535	2	Rivet, Reinstallable				



REAR RACK, BODY PANEL, AND FOOTWELL ASSEMBLIES

0743-307

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	2506-125	1	Rack, Rear - Assembly (inc. 2-3)	13	0423-419	18	Screw, Machine
2	0411-648	1	● Decal, Warning - Load	14	1506-125	2	Footpeg
3	0441-592	4	● Bushing, Rack	15	0423-355	4	Screw, Shoulder
4	8410-830	4	Screw, Cap	16	<u>2516-078</u>	1	Panel, Fender - Rear - Silver (inc. 17-21)
5	0423-669	4	Spacer	17	1411-592	1	● Decal, Reflector - Rear - Right
6	0423-465	4	Grommet		1411-593	1	● Decal, Reflector - Rear - Left
7	8432-802	4	Nut, Lock	18	0470-658	1	● Foil, Protective
8	0423-654	2	Screw, Shoulder	19	<u>1411-806</u>	1	● Decal, Warning - Tire Pressure
9	8050-222	2	Washer	20	<u>1411-809</u>	1	● Decal, Passenger
10	0423-540	26	Nut, Lock	21	1411-817	1	● Decal, Rear
11	0423-101	2	Screw, Shoulder	22	0411-965	2	Decal, "Speedrack"
12	2506-450	1	Footwell - Right	23	1411-822	1	Decal, Side Fender - Rear - Right
	1406-519	1	Footwell - Left		1411-823	1	Decal, Side Fender - Rear - Left

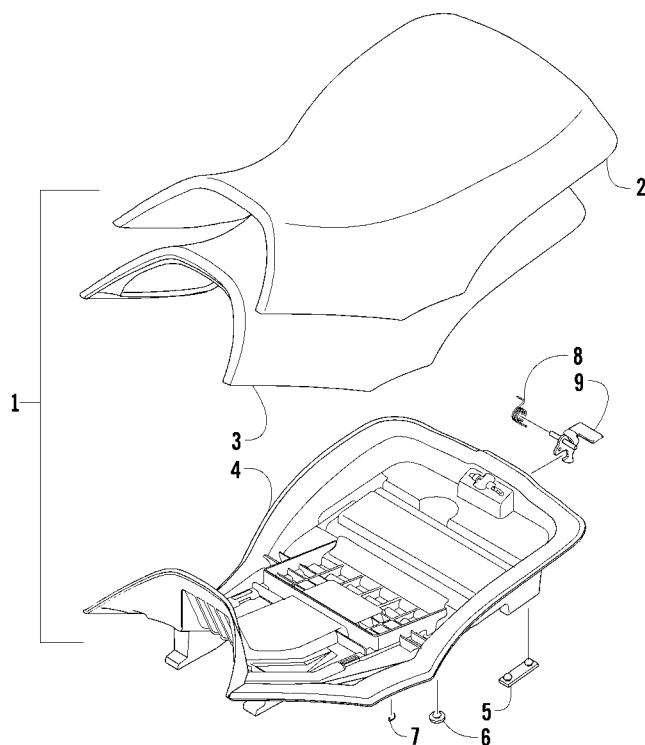


FRAME AND RELATED PARTS

0743-308

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	2506-094	1	Frame, Main	11	1506-429	1	Brace, A-Arm
2	8409-020	4	Screw, Cap	12	8409-025	2	Screw, Cap
3	2506-813	1	Channel, Mounting - Bumper - Right	13	2506-701	1	Pad, Foam
	2506-285	1	Channel, Mounting - Bumper - Left	14	0406-289	1	Pad, Foam
4	1506-562	1	Bracket, Mounting - Bumper - Right	15	2406-648	1	Panel, Belly
	1506-563	1	Bracket, Mounting - Bumper - Left	16	8424-802	4	Nut
5	8408-816	6	Screw, Cap	17	8409-016	4	Screw, Cap
6	1506-855	1	Bumper, Front	18	2506-449	1	Footrest - Right
7	2406-732	1	Fascia, Bumper - Front		1506-379	1	Footrest - Left
8	0423-419	2	Screw, Machine	19	2506-423	2	Rod, Support
9	0423-101	12	Screw, Shoulder	20	1411-077	1	Decal, Warning - Towing
10	0423-744	2	Nut, Lock				

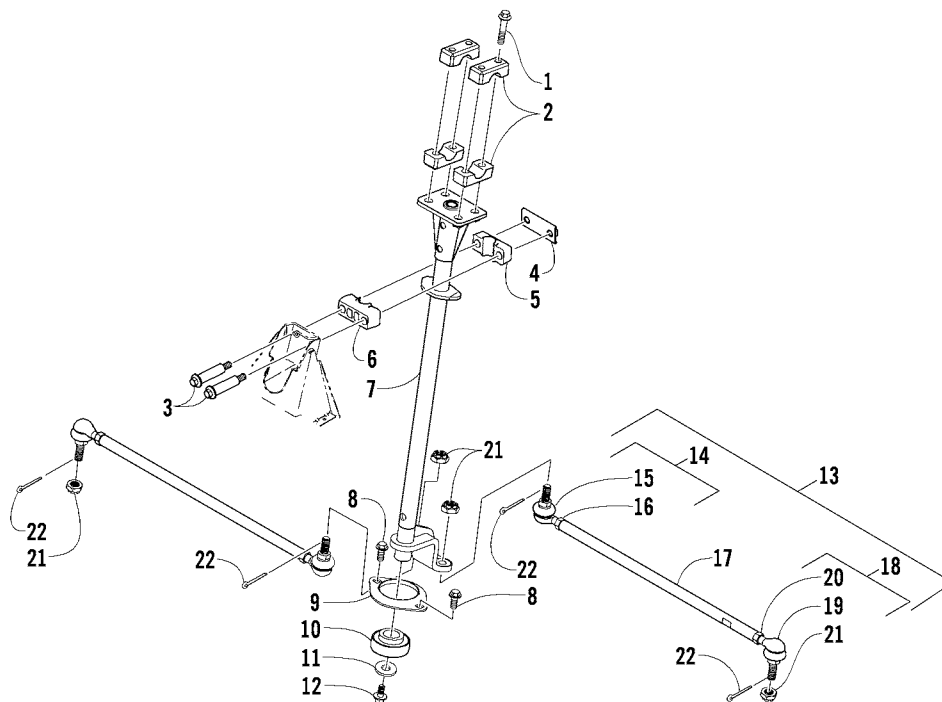
4



SEAT ASSEMBLY

0743-613

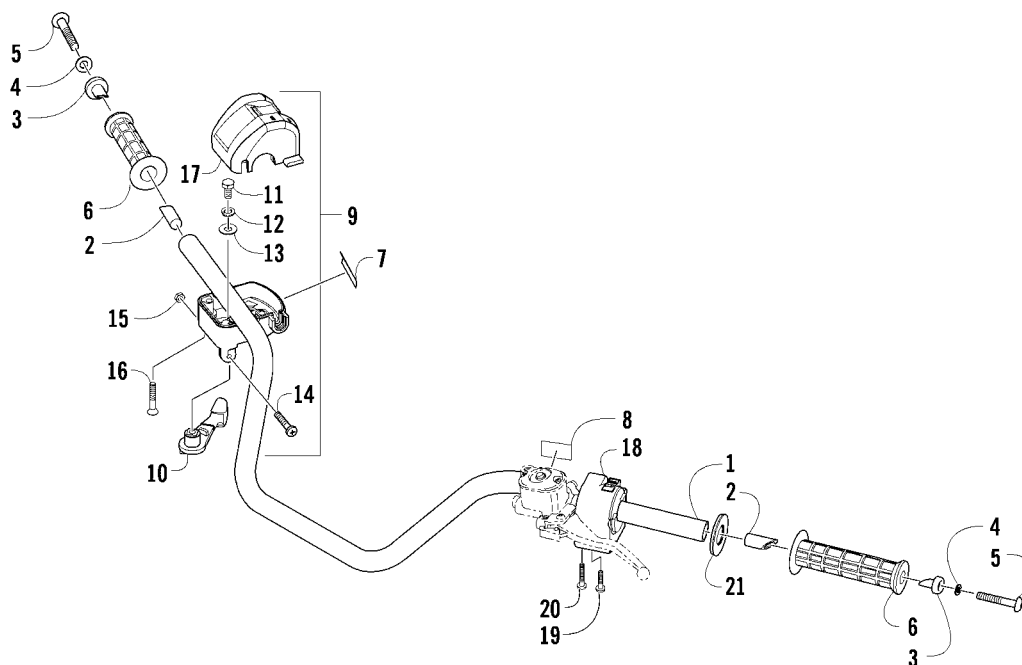
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	2506-384	1	Seat Assembly (inc. 2-9)	6	0406-877	4	● ● Bumper, Seat - Front
2	2506-756	1	● Cover, Seat	7	0624-528	AR	● Staple
3	2506-755	1	● Foam, Seat	8	1406-592	1	● Spring, Seat Latch
4	2406-525	1	● Base, Seat - Assembly (inc. 5-6)	9	1506-156	1	● Latch, Seat
5	0406-879	2	● ● Bumper, Seat - Rear				



STEERING ASSEMBLY

0742-327 *Not a Service Part

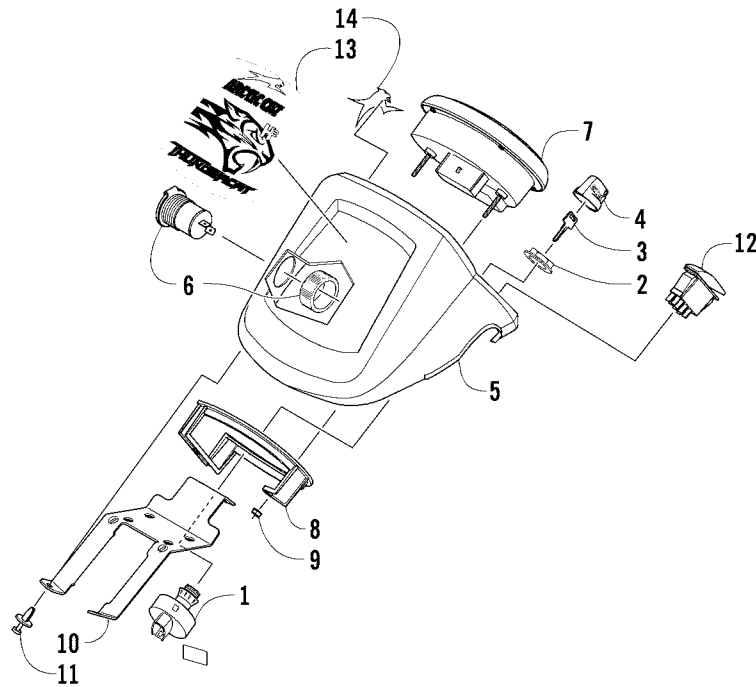
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	8408-860	4	Screw, Cap	13	0505-499	2	Tie Rod - Assembly (inc. 14-20)
2	0405-035	4	Cap, Steering Adjuster	14	0505-511	2	● End, Tie Rod - Left-Hand Thread - Kit (inc. 15-16)
3	0423-505	2	Screw, Shoulder	15	*	2	●● End, Tie Rod - Left-Hand Thread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



HANDLEBAR ASSEMBLY

0743-645

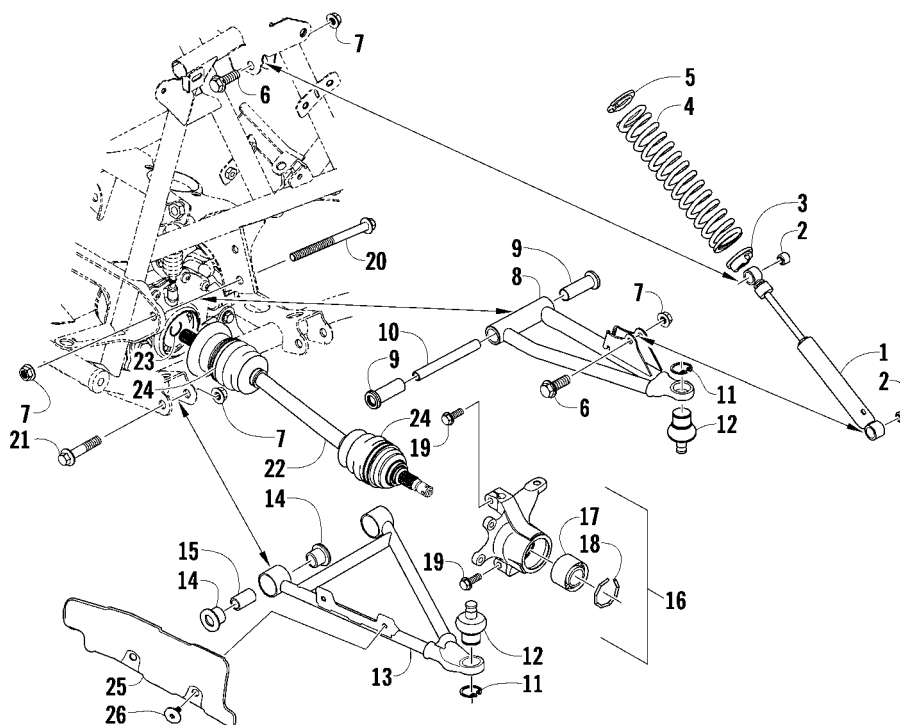
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0505-418	1	Handlebar	12	3004-447	1	● Washer, Lock
2	0405-218	2	Plug, Handlebar	13	3003-030	1	● Washer
3	0405-149	2	End Cap, Handlebar	14	3423-014	1	● Screw, Machine
4	8050-247	2	Washer	15	3423-327	1	● Nut
5	8477-845	2	Screw, Machine	16	3423-199	2	● Screw, Machine
6	0405-147	2	Grip, Handlebar	17	0409-119	1	● Cover, Throttle Case w/Switch
7	0411-966	1	Decal, Warning - Differential Lock	18	0509-014	1	Switch, Control - Assembly (inc. 19-20)
8	1411-865	1	Decal, Warning - Brake Lever Lock	19	0409-027	1	● Screw, Machine
9	0509-045	1	Case, Throttle - Assembly (inc. 10-17)	20	0409-028	1	● Screw, Machine
10	3409-001	1	● Lever	21	3409-019	1	Cover, Switch Housing
11	3004-533	1	● Screw, Cap				



INSTRUMENT POD ASSEMBLY

0743-831

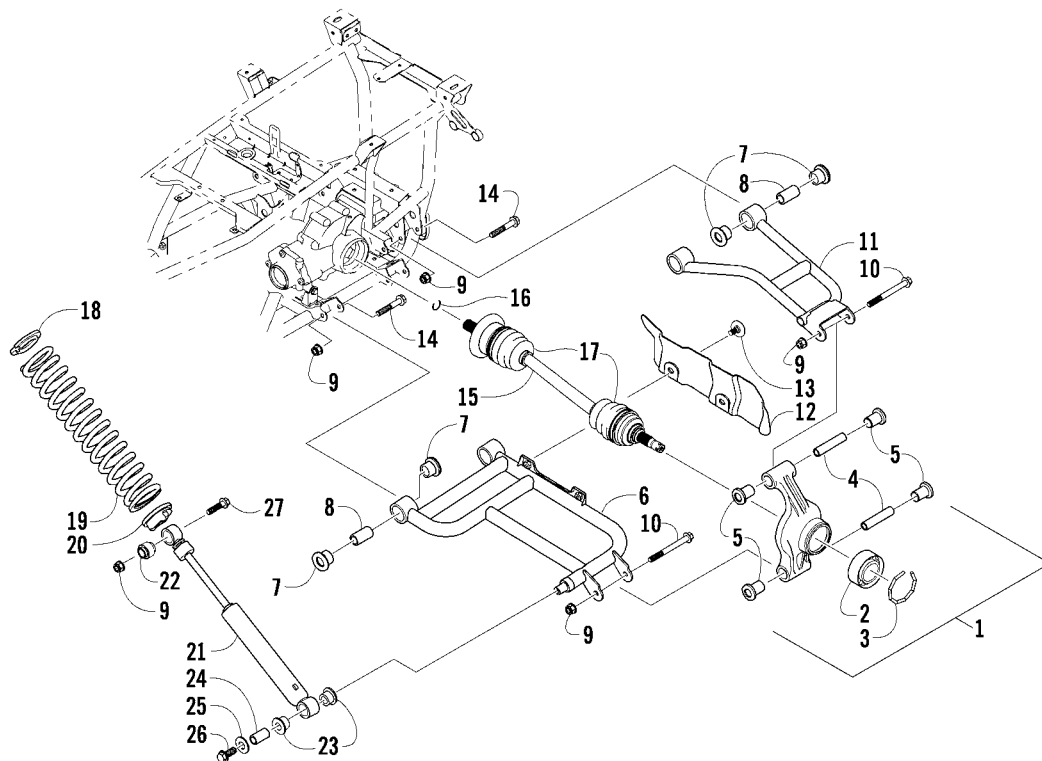
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	<u>0430-090</u>	1	Switch, Ignition - Assembly (inc. 2-4)	8	0420-065	1	Bracket, Retaining
2	0430-050	1	● Nut, Retaining	9	0423-493	2	Nut w/Washer
3	0430-042	1	● Key, Ignition (Y Series - Left-Side Cut)	10	2506-470	1	Bracket, Mounting - Instrument Pod
	0430-043	1	● Key, Ignition (Z Series - Right-Side Cut)	11	0423-535	2	Rivet, Reinstallable
4	0430-054	1	● Cover, Key	12	0409-120	1	Switch, Differential Lock
5	<u>0505-550</u>	1	Instrument Pod	13	1411-824	1	Decal, Instrument Pod
6	0641-897	1	Outlet, Accessory - 12V	14	8611-267	1	Decal, AirCat
7	<u>0520-051</u>	1	Speedometer/Tachometer				



FRONT SUSPENSION ASSEMBLY

0743-897

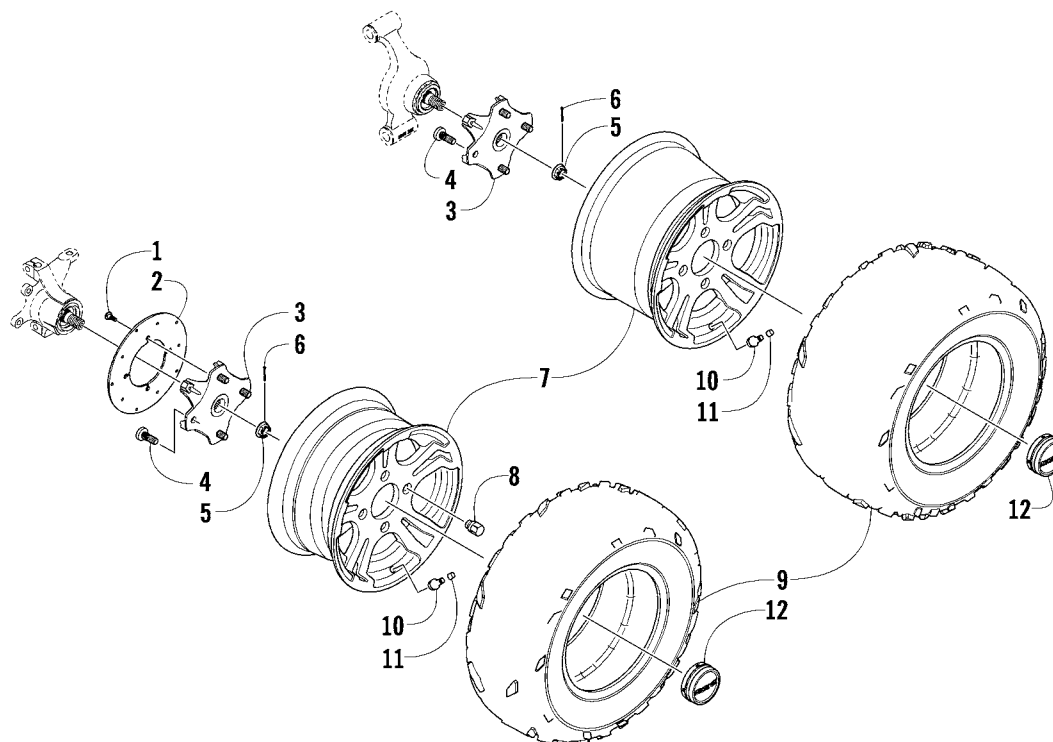
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0403-188	2	Shock Absorber (inc. 2)	14	0403-115	8	● Bushing
2	0403-182	4	● Bushing	15	0403-114	4	● Axle
3	0403-102	2	Cam, Spring Adjuster	16	0505-506	1	Knuckle - Assembly - Right (inc. 17-18)
4	0503-346	2	Spring, Suspension - Green		0505-507	1	Knuckle - Assembly - Left (inc. 17-18)
5	1603-889	2	Retainer, Spring	17	1402-027	2	● Bearing
6	8409-040	4	Screw, Cap	18	0423-423	2	● Ring, Retaining
7	0423-744	10	Nut, Lock	19	8409-030	4	Screw, Cap
8	0503-364	1	A-Arm, Upper Right - Platinum (inc. 9-12)	20	0423-334	2	Screw, Cap
	0503-365	1	A-Arm, Upper Left - Platinum (inc. 9-12)	21	8409-075	4	Screw, Cap
9	0403-081	4	● Bushing	22	<u>1502-344</u>	1	Axle, Drive - Front - Right (inc. 23-24)
10	0403-080	2	● Axle		<u>1502-345</u>	1	Axle, Drive - Front - Left (inc. 23-24)
11	0423-009	4	● Ring, Retaining	23	<u>0423-844</u>	2	● Ring, Retaining
12	0405-115	4	● Ball Joint - Front	24	0436-276	2	● Repair Kit, Boot - Front Axle
13	0503-342	1	A-Arm, Lower Right - Platinum	25	1441-084	1	Guard, Boot - Right - Silver
			(inc. 14-15 and one No. 11-12)		1441-085	1	Guard, Boot - Left - Silver
	0503-343	1	A-Arm, Lower Left - Platinum	26	0423-545	4	Screw, Shoulder
			(inc. 14-15 and one No. 11-12)				



REAR SUSPENSION ASSEMBLY

0743-915

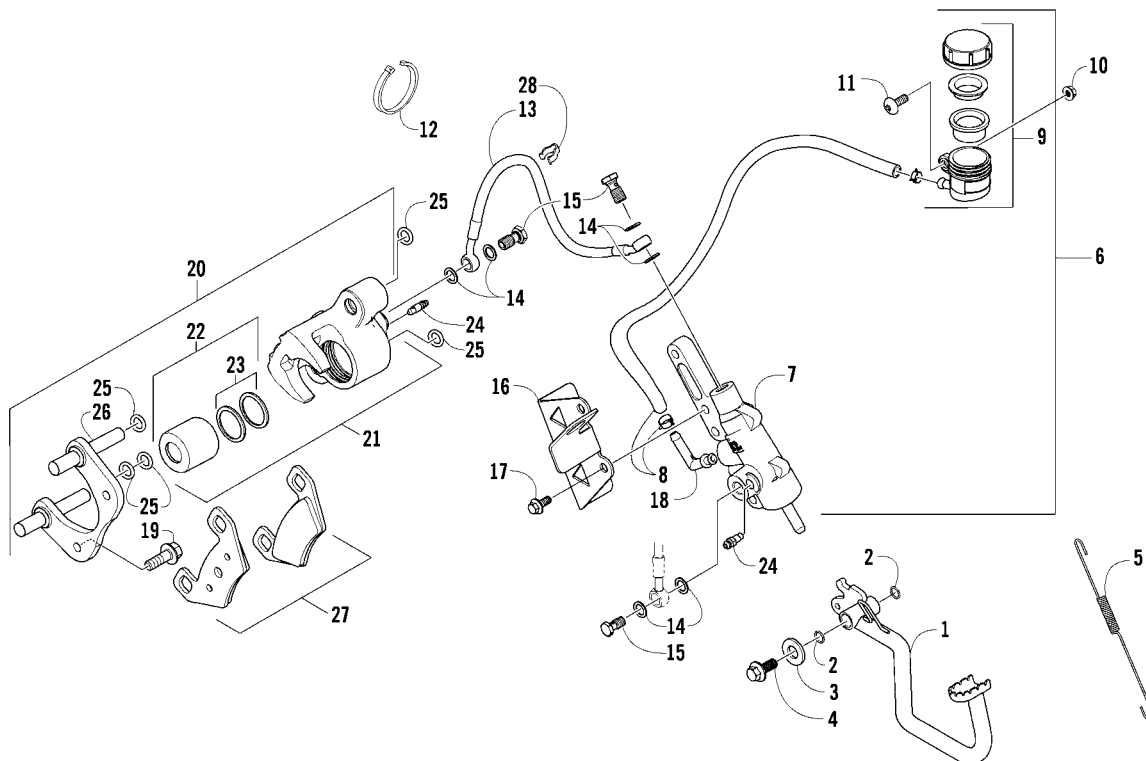
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0504-493	1	Knuckle, Right Rear - Assembly (inc. 2-5)	12	1441-086	1	Guard, Boot - Right - Silver
	0504-389	1	Knuckle, Left Rear - Assembly (inc. 2-5)		1441-087	1	Guard, Boot - Left - Silver
2	1402-027	2	● Bearing	13	0423-545	4	Screw, Shoulder
3	0423-423	2	● Ring, Retaining	14	8409-075	8	Screw, Cap
4	0403-038	4	● Axle	15	<u>1502-343</u>	2	Axle, Drive (inc. 16-17)
5	0403-032	8	● Bushing	16	<u>0423-845</u>	2	● Ring, Retaining
6	0504-526	1	A-Arm, Rear - Lower Right - Platinum (inc. 7-8)	17	0436-276	2	● Repair Kit, Boot - Rear Axle
	0504-527	1	A-Arm, Rear - Lower Left - Platinum (inc. 7-8)	18	1603-889	2	Retainer, Spring
7	0403-115	16	● Bushing	19	<u>0504-534</u>	2	Spring, Suspension - Green
8	0403-114	8	● Axle	20	0404-057	2	Cam, Spring Adjuster
9	0423-744	14	Nut, Lock	21	0404-158	2	Shock Absorber (inc. 22-24)
10	8409-000	4	Screw, Cap	22	0403-182	2	● Bushing
11	0504-512	1	A-Arm, Rear - Upper Right - Platinum (inc. 7-8)	23	0603-955	4	● Bushing
	0504-513	1	A-Arm, Rear - Upper Left - Platinum (inc. 7-8)	24	1603-219	2	● Sleeve
				25	0423-087	2	Washer
				26	8408-820	2	Screw, Cap
				27	8409-040	1	Screw, Cap - Right
					8409-050	1	Screw, Cap - Left



WHEEL AND TIRE ASSEMBLY

0743-839

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0423-557	12	Screw, Shoulder	8	0423-618	16	Nut, Lug - Chrome
2	1436-164	3	Disc, Brake	9	1402-699	2	Tire - Front
3	<u>1502-437</u>	4	Hub, Wheel (inc. 4)		1402-700	2	Tire - Rear
4	0402-974	16	● Stud, Wheel Hub	10	0402-064	4	Stem, Valve (inc. 11)
5	0423-607	4	Nut, Castle	11	0402-140	4	● Cap, Valve Stem
6	0423-407	4	Pin, Cotter	12	<u>1402-736</u>	4	Cap, Wheel
7	<u>1402-730</u>	2	Wheel - Front				
	<u>1402-731</u>	2	Wheel - Rear				

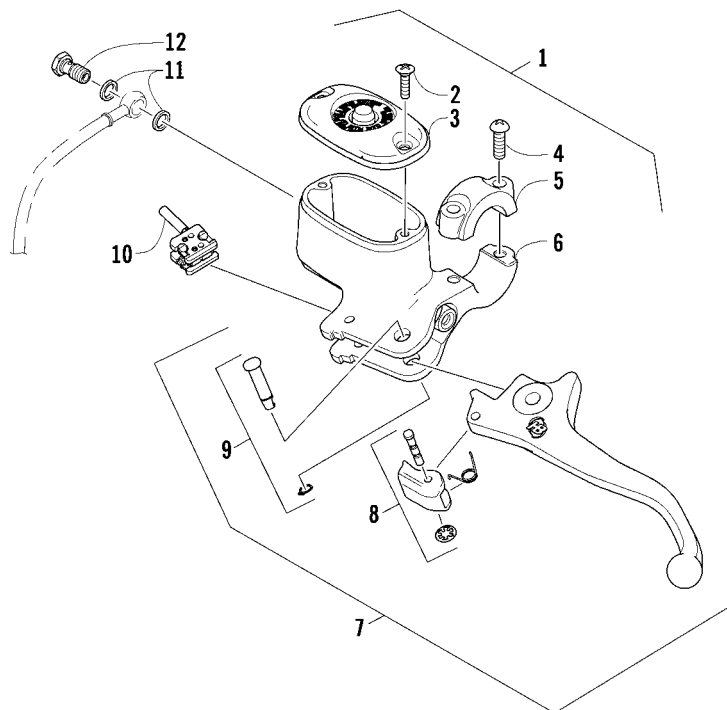


AUXILIARY BRAKE ASSEMBLY

(Master Cylinder Replacement Kit p/n 1502-295)

0742-961 *Not a Service Part

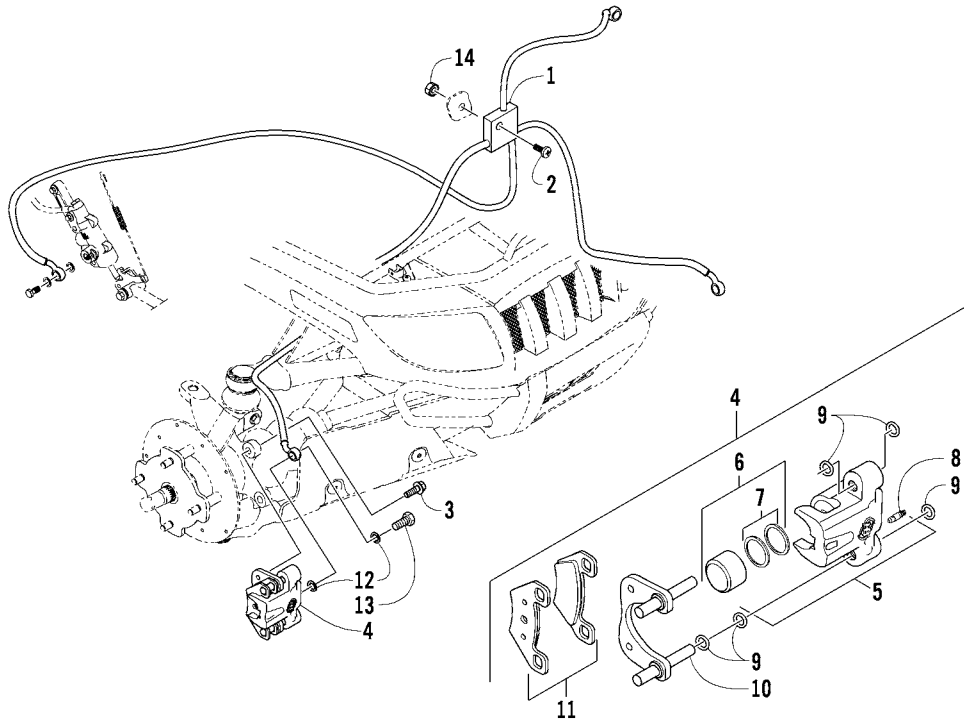
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	1502-162	1	Lever, Brake	16	1502-164	1	Bracket, Switch
2	1602-213	2	O-Ring	17	8408-625	2	Screw, Cap
3	8050-252	1	Washer	18	1502-296	1	Adapter, Hose
4	8408-816	1	Screw, Cap	19	8408-821	2	Screw, Cap
5	0502-785	1	Spring, Brake Switch	20	1436-162	1	Caliper, Brake
6	1502-293	1	Brake Assembly (inc. 7-9 and one No. 24)				(inc. 21-23, one No. 24, and 25-27)
7	*	1	● Master Cylinder	21	1436-160	1	● Housing, Caliper - Assembly - Right Rear
8	*	1	● Hose, Brake Reservoir w/Clamps				(inc. 22-23 and one No. 24)
9	1502-155	1	● Reservoir, Brake w/Clamp	22	0502-606	1	● ● Piston/Seal Set (inc. 23)
10	0623-038	1	Nut w/Washer	23	0502-607	1	● ● ● Seal Set
11	8476-616	1	Screw, Machine	24	0502-609	2	● ● Valve, Bleed
12	0123-788	AR	Tie, Cable - 8 in.	25	0502-608	1	● O-Ring, Guide - Set
13	1502-139	1	Hose, Brake	26	0502-605	1	● Bracket Assembly
14	0423-178	6	Washer, Crush	27	1436-165	1	● Pad, Brake - Set
15	0423-413	3	Bolt, Banjo-Fitting	28	1502-115	2	Clip, Retaining



HYDRAULIC HAND BRAKE ASSEMBLY

0742-962

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, Machine - Kit	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, Machine - Kit	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



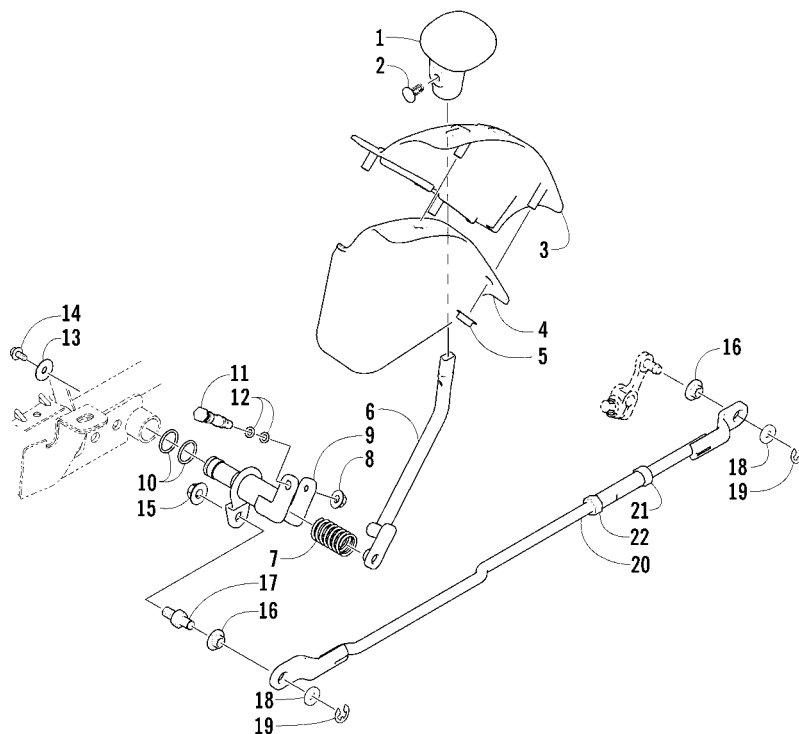
HYDRAULIC BRAKE ASSEMBLY

0742-383

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	1502-015	1	Hose, Brake - Assembly	6	0502-606	2	●● Piston/Seal Set (inc. 7)
2	8476-625	1	Screw, Machine	7	0502-607	2	●●● Seal Set
3	8408-821	4	Screw, Cap	8	0502-609	2	●● Valve, Bleed
4	1436-162	1	Caliper, Brake - Right Front (inc. 3 and 5-11)	9	0502-608	2	● O-Ring, Guide - Set
	1436-163	1	Caliper, Brake - Left Front (inc. 3 and 5-11)	10	0502-605	2	● Bracket Assembly
5	1436-160	1	● Housing, Caliper - Assembly - Right Front (inc. 6-8)	11	1436-165	2	● Pad, Brake - Set
	1436-161	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 w/Washer

0742-963 *Not a Service Part

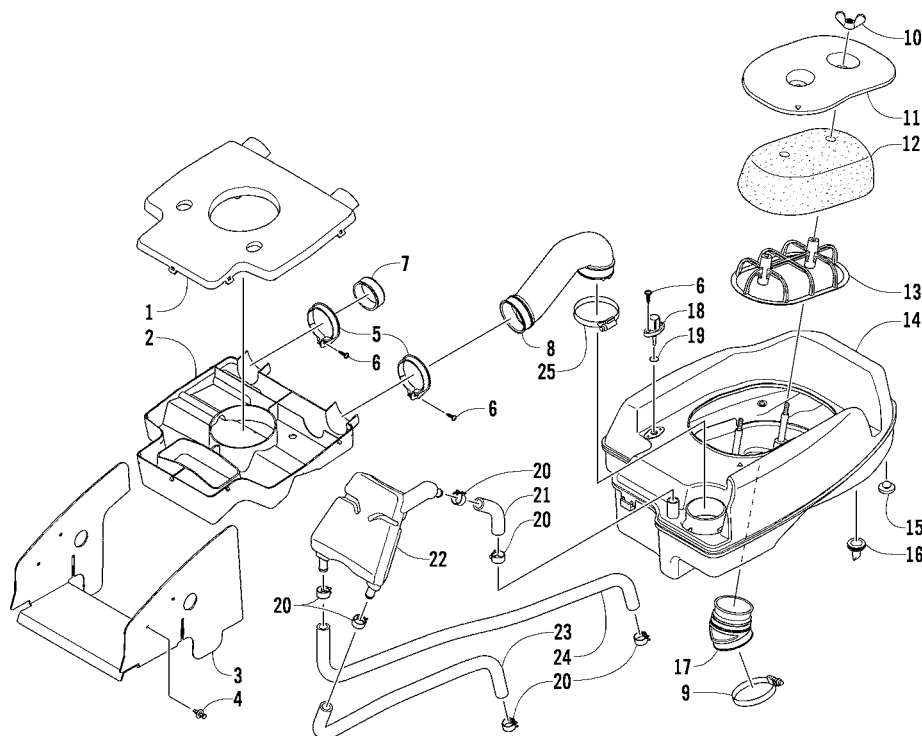
15



SHIFT LEVER ASSEMBLY

0742-964

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, Retaining	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
5	0423-357	4	Nut, Stamped	16	0423-091	2	Bushing
6	0502-659	1	Lever, Shift	17	1402-621	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	<u>1502-332</u>	1	Actuator, Shift Lever	20	1502-227	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

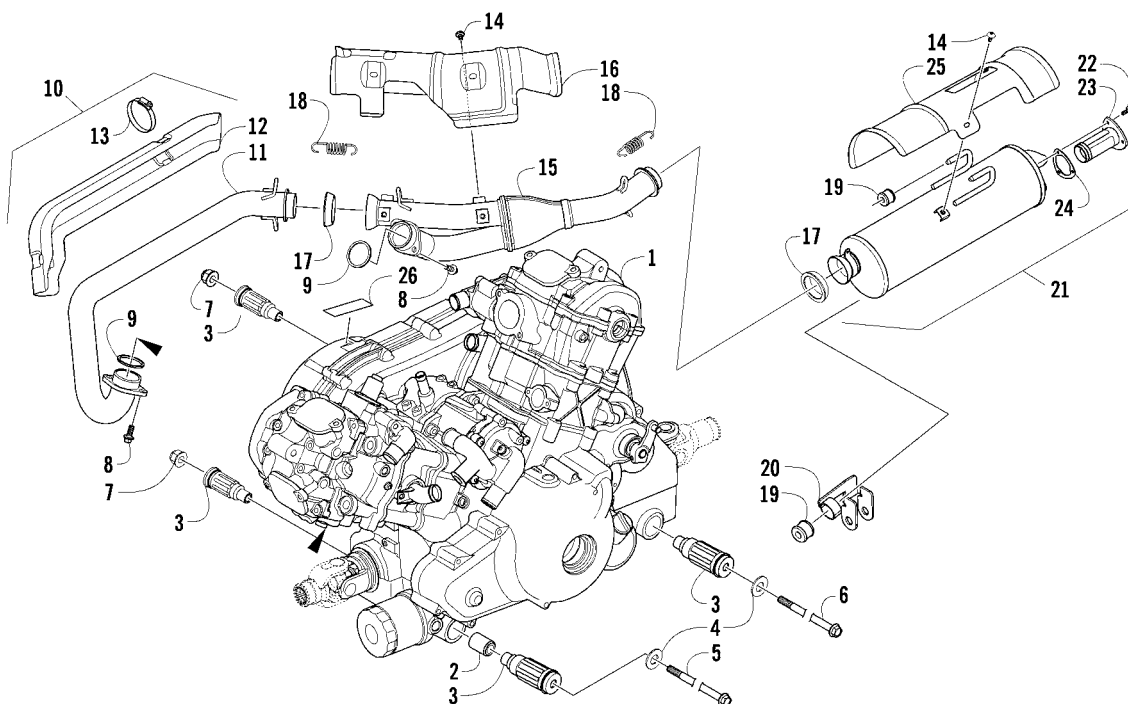


AIR INTAKE ASSEMBLY

0743-898

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0413-091	1	Diverter, Air - Top	14	0570-221	1	Housing, Air Intake
2	0413-093	1	Diverter, Air - Bottom	15	0406-877	4	Bumper
3	2406-509	1	Shroud, Splash	16	0470-442	2	Valve, Drain
4	0623-362	2	Rivet, Reinstallable	17	0470-638	1	Boot, Throttle Body
5	0423-551	2	Clamp	18	0430-055	1	Sensor, Air Temperature (inc. 19)
6	0423-342	4	Screw, Self-Tapping	19	5507-224	1	● O-Ring
7	0413-096	1	Cap, Air Intake - Diverter	20	1623-285	6	Clamp, Hose
8	0470-583	1	Boot, Air Intake	21	0410-152	1	Hose, Separator Tank
9	0423-019	1	Clamp	22	0470-718	1	Tank, Separator
10	0423-716	2	Wing Nut	23	0410-150	1	Hose, Crankcase
11	0470-832	1	Cover, Air Intake	24	0410-151	1	Hose, Crankcase
12	0470-828	1	Filter, Air	25	0423-066	1	Clamp, Hose
13	0470-731	1	Support, Air Filter				

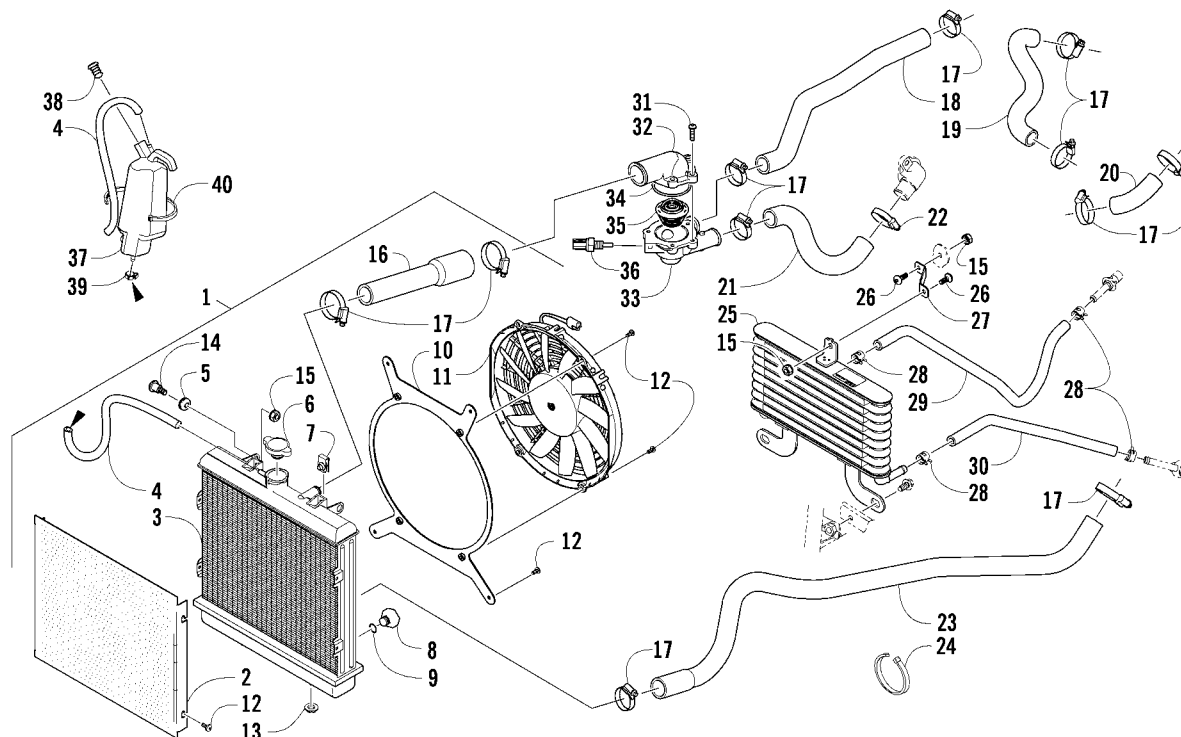
18



ENGINE AND EXHAUST

0742-236

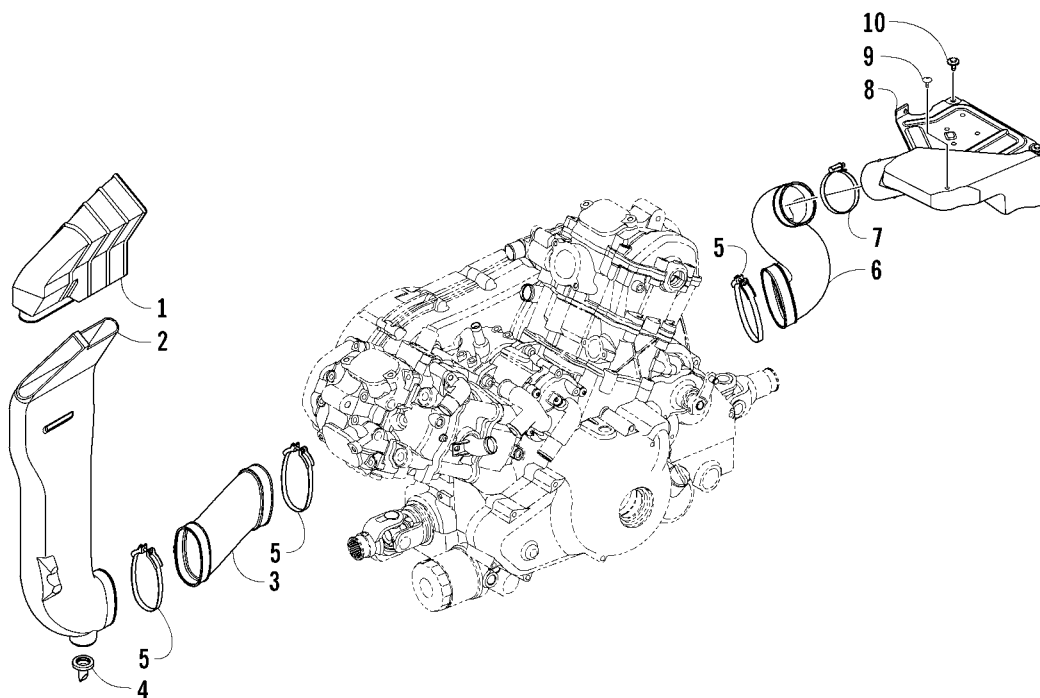
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0800-069	1	Engine, AGZa (inc. 2-3)	14	8477-610	7	Screw, Machine
2	0801-128	1	● Spacer, Engine Mount	15	0512-477	1	Pipe, Exhaust - Rear
3	0801-091	4	● Mount, Engine	16	0412-403	1	Shield, Exhaust Pipe - Rear
4	0423-426	2	Washer	17	0412-375	2	Seal, Exhaust Pipe
5	0423-734	1	Screw, Cap	18	0612-668	4	Spring, Extension
6	0423-451	1	Screw, Cap	19	0412-215	3	Bushing
7	8428-002	2	Nut, Lock	20	2506-631	1	Channel, Muffler Support
8	8408-820	4	Screw, Cap	21	0512-355	1	Muffler - Assembly (inc. 22-24)
9	0412-338	2	Gasket, Exhaust Pipe	22	8408-616	3	● Screw, Cap
10	0512-433	1	Pipe, Exhaust - Assembly (inc. 11-13)	23	0512-219	1	● Arrestor, Spark - Assembly
11	0512-349	1	● Pipe, Exhaust	24	0412-313	1	● Gasket, Spark Arrestor
12	0412-400	1	● Shield, Exhaust Pipe	25	0412-373	1	Cover, Muffler
13	0423-317	2	● Clamp	26	0411-426	1	Decal, Warning - Clutch Cover



COOLING ASSEMBLY

0743-628

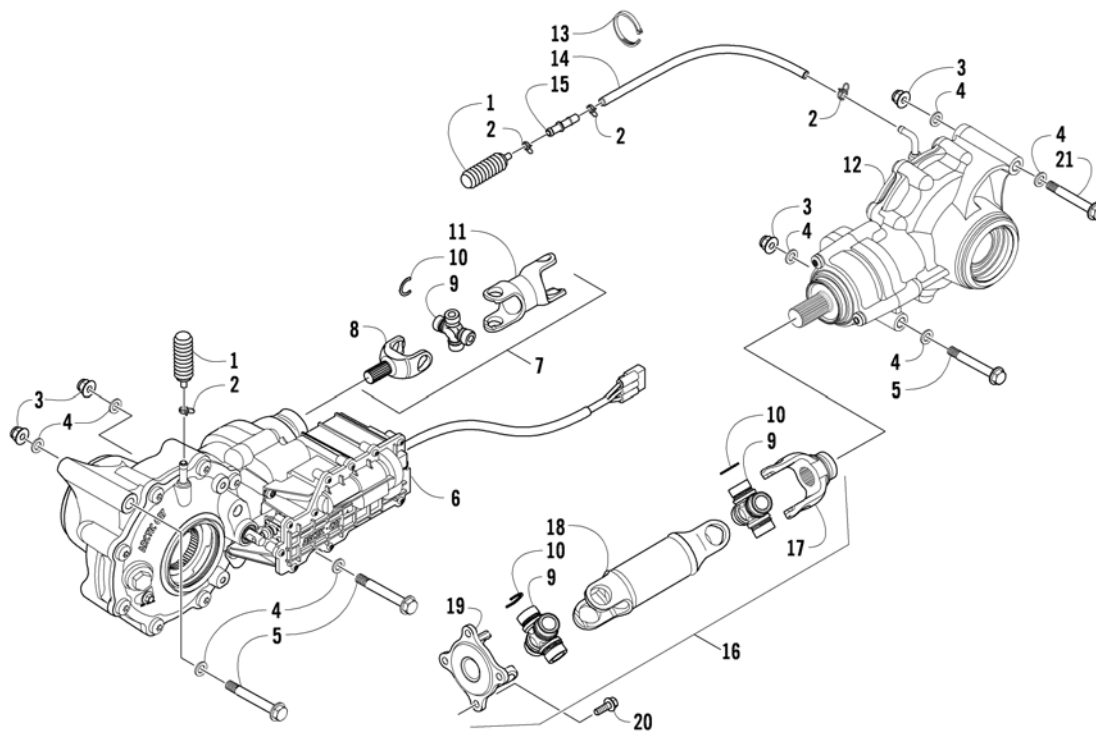
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0413-212	1	Radiator Assembly (inc. 2-12)	21	0410-117	1	Hose, Coolant - No. 1
2	0413-214	1	● Screen, Radiator	22	1623-093	1	Clamp, Hose
3	0413-216	1	● Radiator	23	0410-119	1	Hose, Coolant - Suction Pump - Lower
4	0610-011	AR	● Hose - 25 ft	24	0123-788	AR	Cable Tie - 8 in.
5	0423-030	2	● Grommet	25	0413-211	1	Cooler, Oil
6	0413-002	1	● Cap, Radiator	26	8476-612	2	Screw, Machine
7	1623-637	4	● Clip, U-Nut	27	0513-022	1	Bracket, Mounting - Oil Cooler - Upper
8	0413-195	1	● Plug, Drain	28	0423-632	4	Clamp, Hose
9	1602-213	1	● O-Ring	29	0410-168	1	Hose, Oil Cooler - Out
10	0413-217	1	● Bracket, Mounting - Fan	30	0410-149	1	Hose, Oil Cooler - In
11	0413-123	1	● Fan, Cooling	31	8470-520	4	Screw, Machine
12	8470-510	12	● Screw, Machine	32	0808-092	1	Cover, Thermostat
13	0423-028	2	Bushing, Stem	33	0808-091	1	Housing, Thermostat
14	0423-484	2	Screw, Shoulder	34	0830-173	1	O-Ring
15	0623-038	4	Nut w/Washer	35	0808-093	1	Thermostat
16	0410-120	1	Hose, Coolant - Radiator/Thermostat - Upper	36	0808-124	1	Sensor, Engine Coolant Temperature
17	0423-496	11	Clamp, Hose	37	0413-086	1	Bottle, Overflow
18	0410-118	1	Hose, Coolant - No. 2	38	0413-087	1	Plug
19	0410-116	1	Hose, Coolant	39	0124-045	1	Clamp, Hose
20	0410-115	1	Hose, Coolant - Crossover	40	0623-316	AR	Tie, Cable - 14 in.



CASE/BELT COOLING ASSEMBLY

0742-968

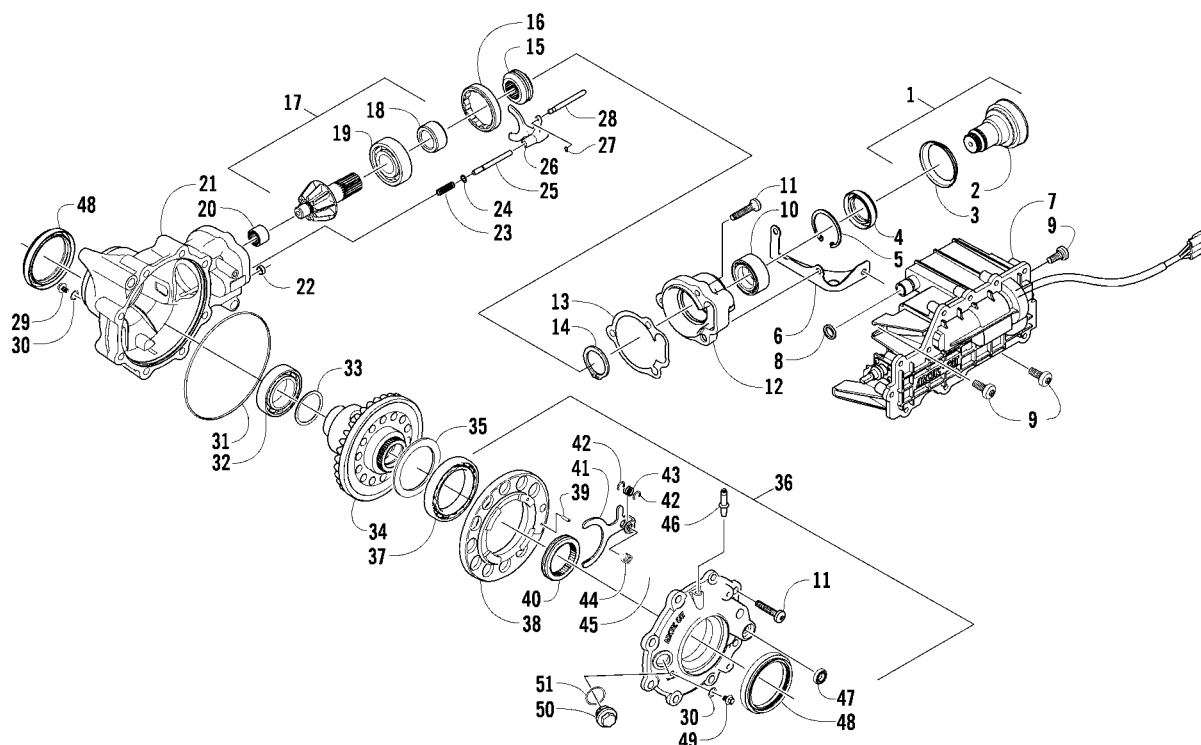
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0413-137	1	Shroud, Air - Air In	6	0413-135	1	Boot, Cooling - Air Out
2	0413-138	1	Duct, Cooling - Air In	7	0423-019	1	Clamp
3	0413-139	1	Boot, Cooling - Air In	8	0413-194	1	Duct, Cooling - Air Out
4	0470-442	1	Valve, Drain	9	0623-797	1	Screw, Self-Tapping
5	0423-730	3	Clamp	10	0623-362	2	Rivet, Reinstallable



DRIVE TRAIN ASSEMBLY

0743-252

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	1402-620	2	Bladder, Gearcase	12	1502-403	1	Gearcase, Rear
2	0423-315	4	Clamp, Fitting	13	0123-788	AR	Tie, Cable - 8 in.
3	8428-002	4	Nut, Lock	14	0410-070	AR	Hose, Vent - 25 ft
4	0423-426	8	Washer	15	0470-702	1	Fitting, Vent
5	0423-404	3	Screw, Cap	16	1502-098	1	Driveshaft, Rear - Assembly
6	1502-395	1	Gearcase, Front				(inc. two No. 9, eight No. 10, and 17-19)
7	1502-342	1	Driveshaft, Front - Assembly	17	1402-567	1	● Yoke, Slip
			(inc. 8, one No. 9, four No. 10, and 11)	18	1502-099	1	● Driveshaft, Rear
8	1402-701	1	● Yoke, Slip	19	1402-689	1	● Yoke, Flange
9	0402-944	3	● Joint, Universal (inc. four No. 10)	20	8408-820	4	Screw, Cap
10	0423-395	12	● Ring, Retaining	21	0423-830	1	Screw, Cap
11	1502-341	1	● Driveshaft, Front				

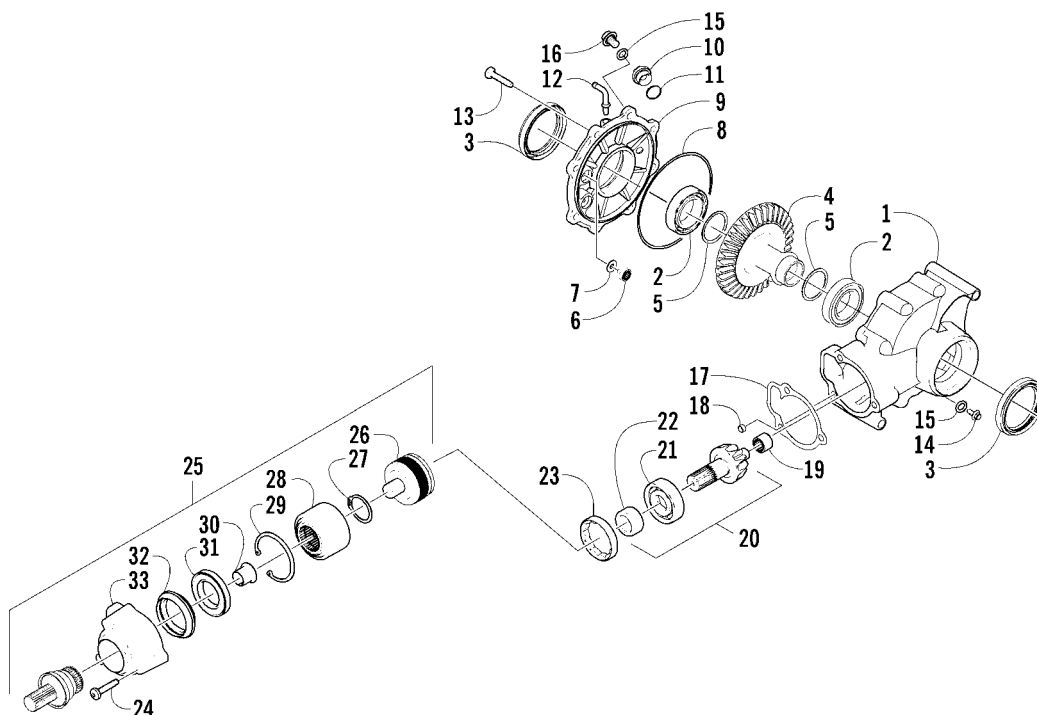


FRONT DRIVE GEARCASE ASSEMBLY

(Complete Assembly p/n 1502-395)

0743-254

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0502-923	1	Shaft, Propeller - Assembly (inc. 2-3)	31	0423-149	1	O-Ring
2	1402-438	1	● Shaft, Input	32	0402-393	1	Bearing
3	1402-168	1	● Deflector	33	0402-405	AR	Shim
4	1402-011	1	Seal		0402-406	AR	Shim
5	0423-423	1	Ring, Retaining		0402-407	AR	Shim
6	<u>1502-237</u>	1	Bracket, Actuator		0402-408	AR	Shim
7	<u>0502-585</u>	1	Actuator		0402-409	AR	Shim
8	<u>0423-892</u>	1	O-Ring	34	<u>1502-506</u>	1	Gear, Ring - 34T
9	0423-396	3	Screw, Self-Tapping	35	1402-074	AR	Shim
10	1402-043	1	Bearing		1402-075	AR	Shim
11	0423-118	11	Screw, Self-Tapping		1402-076	AR	Shim
12	0502-528	1	Housing, Pinion		1402-077	AR	Shim
13	0402-947	1	Gasket		1402-078	AR	Shim
14	0423-417	1	Ring, Retaining	36	<u>1502-389</u>	1	Cover, Gearcase
15	0402-413	1	Coupler, Drive				(inc. one No. 30 and 37-49)
16	0402-357	1	Collar, Lock	37	1402-053	1	● Bearing
17	0502-784	1	Gear, Pinion - Assembly - 11T (inc. 18-19)	38	0502-413	1	● Flange, Bearing
18	0402-336	1	● Collar, Retaining	39	1402-079	1	● Pin, Alignment
19	0402-327	1	● Bearing	40	1402-042	1	● Collar, Sliding
20	0402-328	1	Bearing	41	1402-054	1	● Fork
21	0502-514	1	Housing, Gearcase	42	1402-058	2	● Ring, Retaining
22	0402-411	1	Pin, Dowel	43	1402-057	1	● Spring
23	0402-999	1	Spring, Return	44	1402-063	1	● Spring
24	0423-147	1	O-Ring	45	<u>1402-656</u>	1	● Shaft, Lock
25	0402-417	1	Shaft, Shuttle	46	1402-104	1	● Fitting
26	0402-998	1	Fork, Selector	47	1402-056	1	● Seal
27	0423-402	1	Ring, Retaining	48	<u>1402-713</u>	2	● Seal
28	0402-997	1	Shaft, Selector	49	1402-211	1	● Plug, Oil Level (inc. one No. 30)
29	1402-210	1	Plug, Magnetic (inc. one No. 30)	50	0402-333	1	Plug, Fill (inc. 51)
30	0423-153	2	● O-Ring	51	0423-154	1	● O-Ring

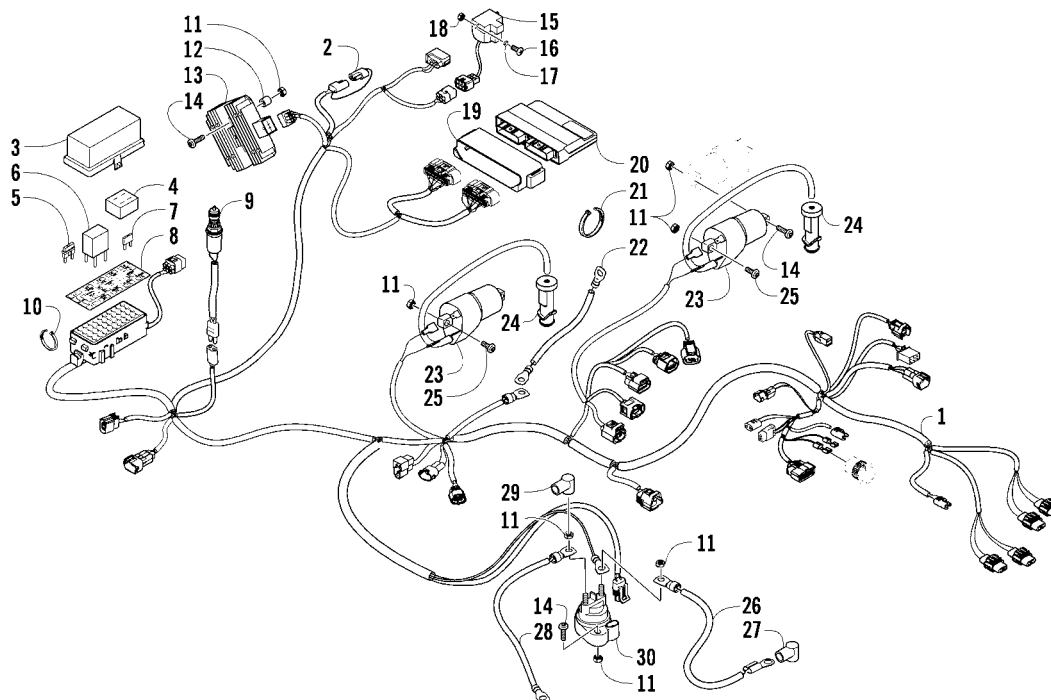


REAR DRIVE GEARCASE ASSEMBLY

(Complete Assembly p/n 1502-403)

0742-972

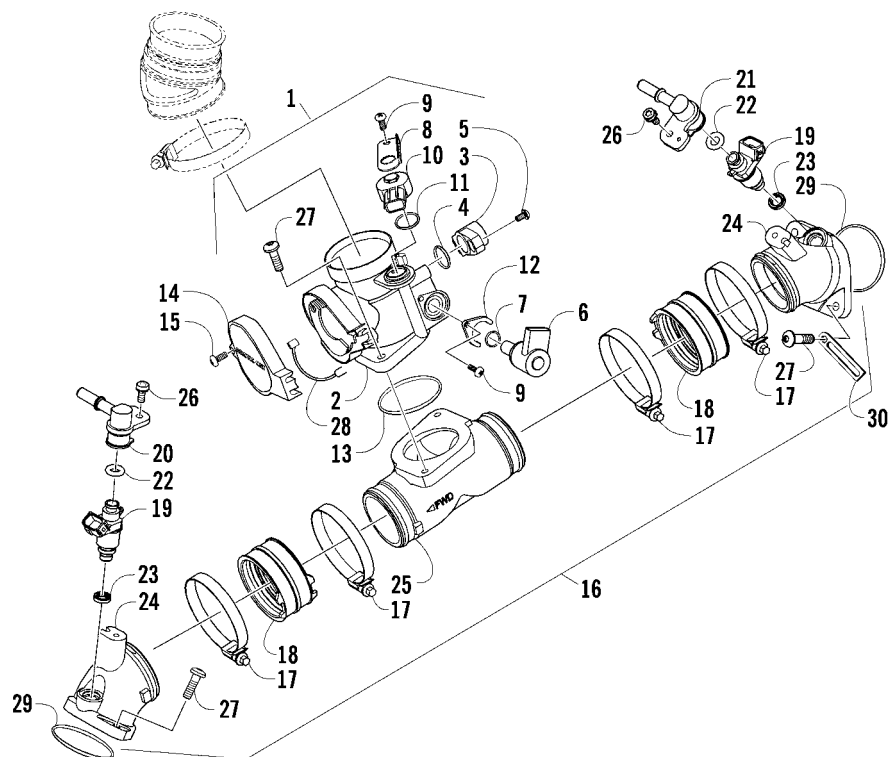
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	1502-317	1	Housing, Gearcase	14	0402-450	1	Plug, Magnetic (inc. one No. 15)
2	0402-393	2	Bearing	15	0423-153	2	● O-Ring
3	<u>1402-713</u>	2	Seal	16	1402-211	1	Plug, Oil Level (inc. one No. 15)
4	1402-033	1	Gear, Ring - 34T	17	0402-947	1	Gasket
5	0402-405	AR	Shim	18	0402-411	1	Pin, Dowel
	0402-406	AR	Shim	19	0402-328	1	Bearing
	0402-407	AR	Shim	20	0502-784	1	Gear, Pinion - Assembly - 11T (inc. 21-22)
	0402-408	AR	Shim	21	0402-327	1	● Bearing
	0402-409	AR	Shim	22	0402-336	1	● Collar, Retaining
6	0402-326	1	Button, Thrust	23	0402-331	1	Collar, Lock
7	0402-429	AR	Shim	24	0423-834	3	Screw, Self-Tapping
	0402-430	AR	Shim	25	1502-284	1	Shaft, Input (inc. 26-33)
	0402-431	AR	Shim	26	1502-287	1	● Cartridge, Clutch - Assembly
	0402-432	AR	Shim	27	0423-799	1	● Ring, Retaining - External
	0402-433	AR	Shim	28	1402-682	1	● Basket, Clutch
8	0423-149	1	O-Ring	29	0423-798	1	● Ring, Retaining - Internal
9	1502-082	1	Cover, Gearcase	30	1402-678	1	● Bearing, Flange
10	0402-333	1	Plug, Fill (inc. 11)	31	1402-677	1	● Bearing
11	0423-154	1	● O-Ring	32	1402-687	1	● Seal
12	1402-102	1	Fitting	33	1502-285	1	● Housing, Input
13	0423-118	8	Screw, Self-Tapping				



WIRING HARNESS ASSEMBLY

0743-256

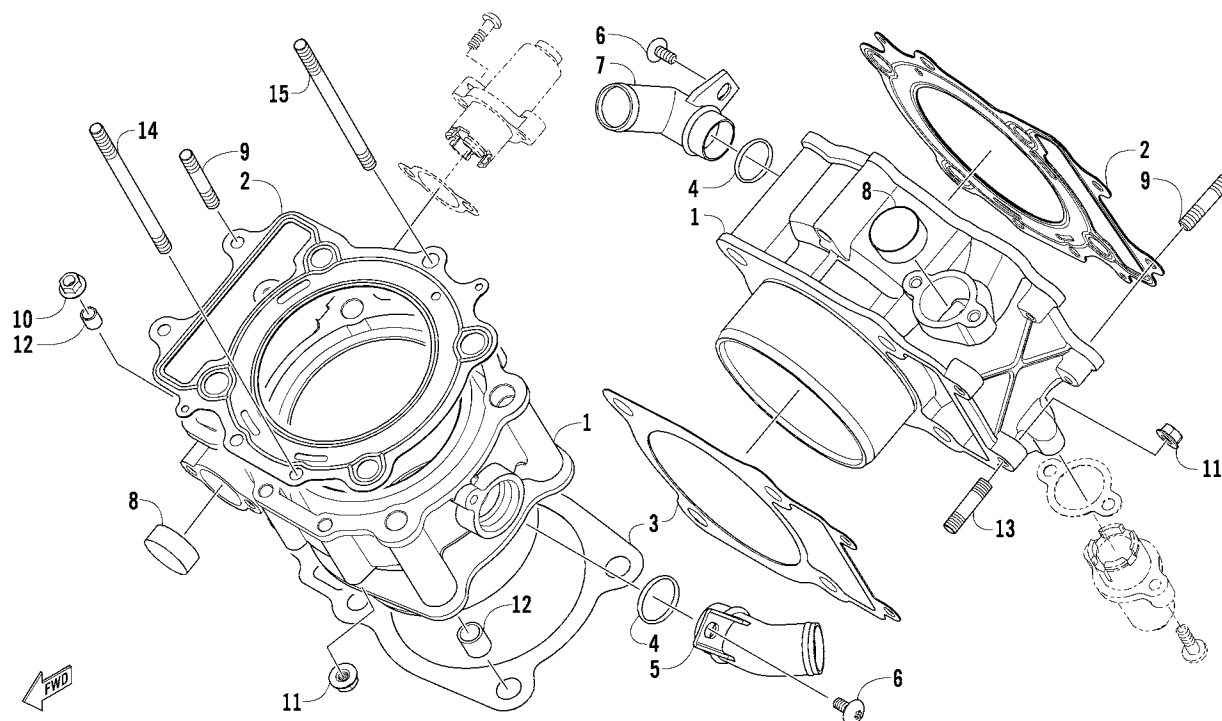
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0486-284	1	Harness, Main (inc. 2-8)	15	0409-064	1	Switch, Tilt Sensor
2	0486-164	1	● Tether, Accessory Connector	16	8468-425	2	Screw, Machine
3	0530-008	1	● Cover, Fuse Block	17	0123-802	2	Washer
4	0430-037	1	● Holder, Fuse	18	0423-493	2	Nut w/Washer
5	0430-034	2	● Diode	19	0430-059	1	Cushion, ECU
6	0430-045	5	● Relay (4-Pin) - 20 Amp	20	0530-024	1	ECU
7	0430-032	5	● Fuse - 10 Amp	21	0123-903	AR	Tie, Cable - 11.5 in.
	0430-031	3	● Fuse - 15 Amp	22	0445-071	1	Cable, Battery/Ground
	0430-030	2	● Fuse - 30 Amp	23	0824-043	2	Coil, Ignition - Assembly
8	1411-526	1	● Decal, Fuse Block	24	0824-049	2	Cap, Spark Plug
9	0409-089	1	Switch, Brake - Assembly	25	8476-620	2	Screw, Machine
10	0123-788	AR	Tie, Cable - 8 in.	26	0445-066	1	Cable, Solenoid/Starter (inc. 27)
11	0623-038	10	Nut w/Washer	27	0645-019	1	● Boot, Terminal
12	0423-036	2	Spacer	28	0445-062	1	Cable, Battery/Solenoid
13	0824-037	1	Regulator, Voltage	29	0645-327	1	Boot, Terminal - Solenoid
14	8476-630	5	Screw, Machine	30	0445-058	1	Solenoid



THROTTLE BODY ASSEMBLY

0742-977 *Not a Service Part

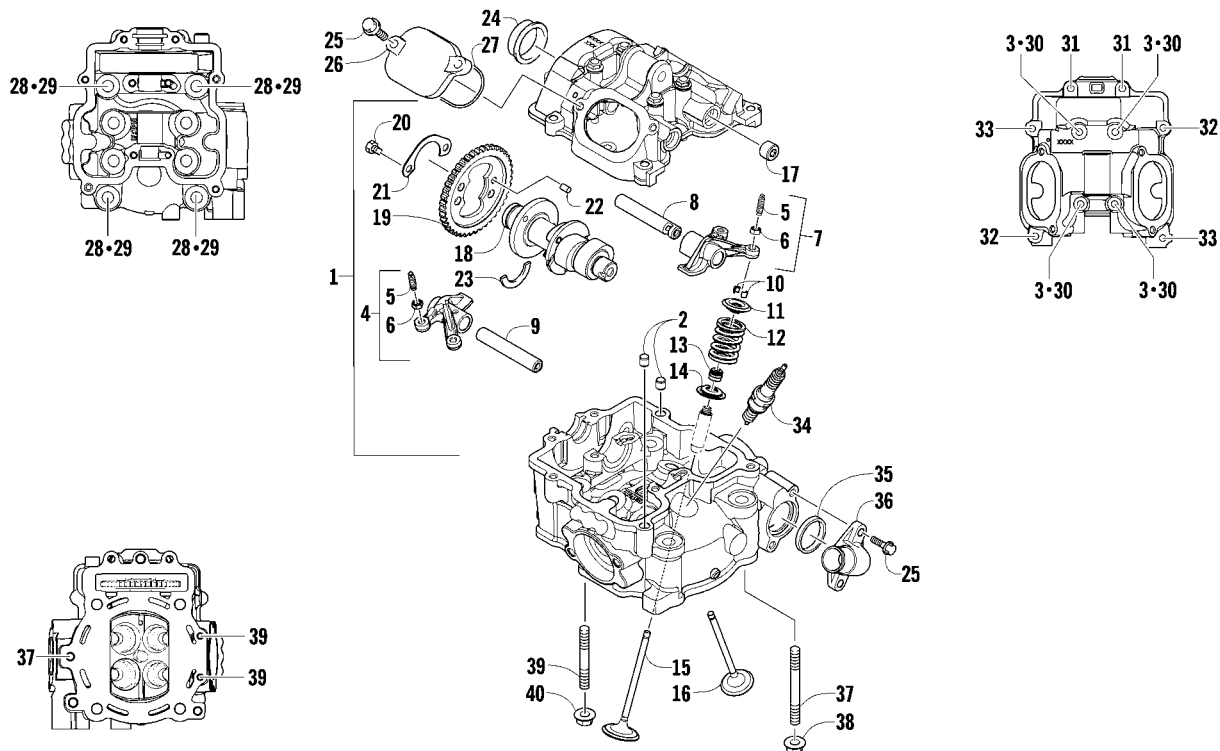
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0470-686	1	Throttle - Assembly (inc. 2-15)	16	0570-230	1	Manifold, Intake - Assembly (inc. 17-26)
2	*	1	● Throttle Body	17	0423-066	4	● Clamp
3	0430-072	1	● Sensor, Throttle Position	18	0470-660	2	● Boot, Intake - Manifold
4	5507-234	1	● O-Ring, Throttle Position Sensor	19	0470-688	2	● Injector, Fuel
5	5507-231	1	● Screw, Machine	20	0470-763	1	● Rail, Fuel - Front Cylinder
6	0430-074	1	● Valve, ISC	21	0470-764	1	● Rail, Fuel - Rear Cylinder
7	5507-233	1	● O-Ring, ISC Valve	22	0470-767	2	● O-Ring, Fuel Injector
8	5507-227	1	● Bracket, MAP Sensor	23	0470-768	2	● Ring, Seal - Fuel Injector
9	5507-117	2	● Screw, Machine	24	0570-140	2	● Manifold, Intake
10	0430-073	1	● Sensor, MAP	25	0570-156	1	● Plenum, Intake
11	5507-232	1	● O-Ring, MAP Sensor	26	0423-371	2	● Screw, Machine
12	5507-229	1	● Plate, ISC Valve	27	0826-008	6	Screw, Machine
13	5507-235	1	● O-Ring	28	0487-046	1	Cable, Throttle
14	5507-223	1	● Cover	29	0830-090	2	O-Ring
15	5507-037	1	● Screw, Machine	30	3002-964	1	Clamp, Wire



CYLINDER ASSEMBLY

0743-910

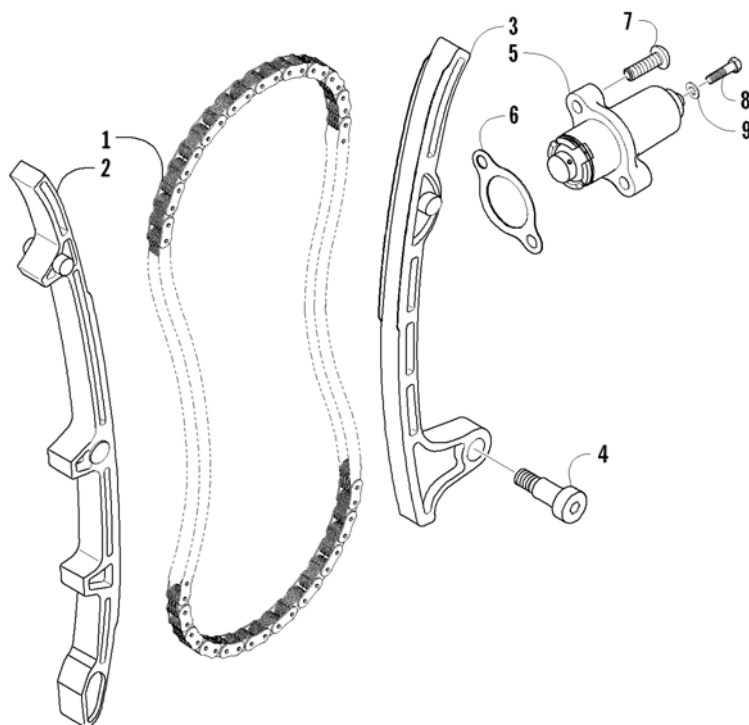
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0804-031	2	Cylinder	9	0827-002	4	Bolt, Stud
2	0830-126	2	Gasket, Head	10	8424-804	2	Nut
3	0830-127	2	Gasket, Base	11	8424-604	8	Nut
4	0830-007	2	O-Ring	12	0829-002	8	Pin, Dowel
5	0804-046	1	Union, Coolant Hose	13	0827-018	4	Bolt, Stud
6	8468-612	2	Screw, Machine	14	0827-030	4	Bolt, Stud
7	0804-030	1	Union, Coolant Hose	15	0827-031	2	Bolt, Stud
8	0804-037	2	Plug, Cylinder				



CYLINDER HEAD AND CAMSHAFT/VALVE ASSEMBLY

0743-989

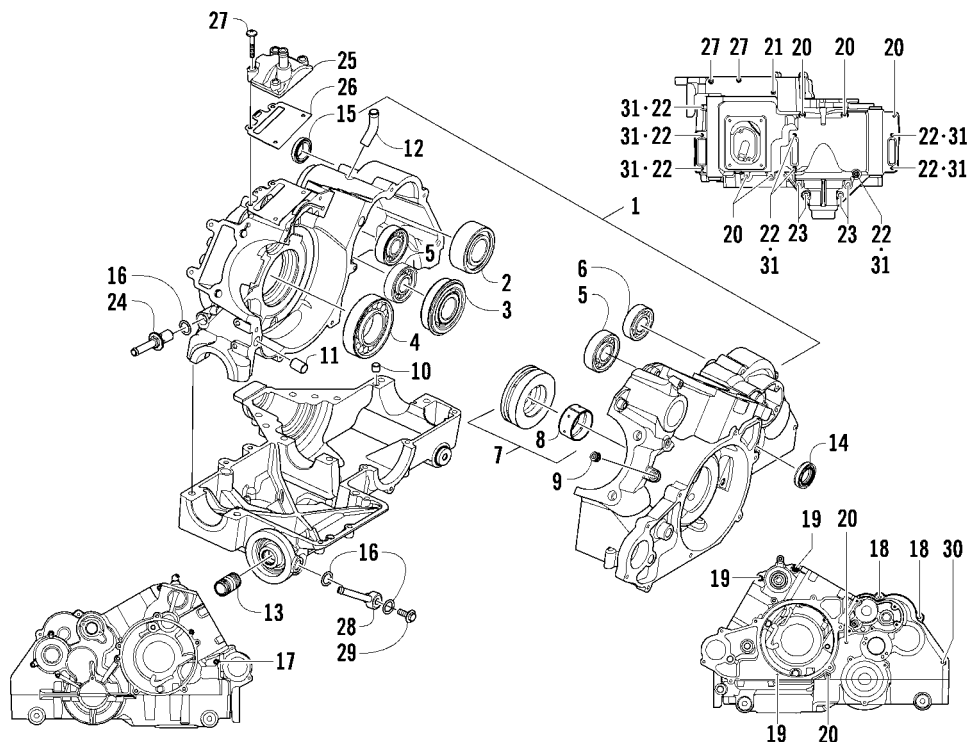
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0808-135	2	Head, Cylinder - Assembly (inc. 2-17)	20	0826-034	4	Screw, Cap
2	0829-001	4	● Pin, Dowel	21	0828-004	2	Plate, Retainer
3	0826-001	8	● Screw, Cap	22	0829-049	2	Pin, Dowel
4	0809-202	2	● Arm, Valve Rocker - Intake (inc. two No. 5-6)	23	0809-003	2	C-Ring
5	0809-033	8	● ● Screw, Adjuster	24	0808-077	2	Plug, Cylinder Head
6	0827-007	8	● ● Nut	25	0826-007	12	Screw, Cap
7	0809-205	2	● Arm, Valve Rocker - Exhaust (inc. two No. 5-6)	26	0808-003	4	Cap, Inspection
8	0809-008	2	● Shaft, Rocker Arm - Exhaust	27	0830-167	4	O-Ring
9	0809-007	2	● Shaft, Rocker Arm - Intake	28	0808-090	8	Screw, Cap
10	0809-014	16	● Cotter, Valve	29	0830-147	8	Washer
11	0809-013	8	● Retainer, Spring	30	0830-107	8	Gasket
12	0809-138	8	● Spring, Valve	31	0826-002	4	Screw, Cap
13	0830-016	8	● Seal, Oil	32	0826-005	4	Screw, Cap
14	0809-006	8	● Seat, Spring - Valve	33	0826-006	4	Screw, Cap
15	0809-040	4	● Valve, Exhaust	34	0217-799	2	Spark Plug (CPR8E)
16	0809-039	4	● Valve, Intake	35	0830-120	2	Seal
17	0831-066	4	● Plug, Shaft	36	0808-008	2	Cover, Thermostat
18	0809-246	1	Camshaft, Front Cylinder	37	0827-031	2	Bolt, Stud
	0809-210	1	Camshaft, Rear Cylinder	38	8424-804	2	Nut
19	0809-002	2	Sprocket	39	0827-002	4	Bolt, Stud
				40	8424-604	4	Nut



CAM CHAIN ASSEMBLY

0742-979

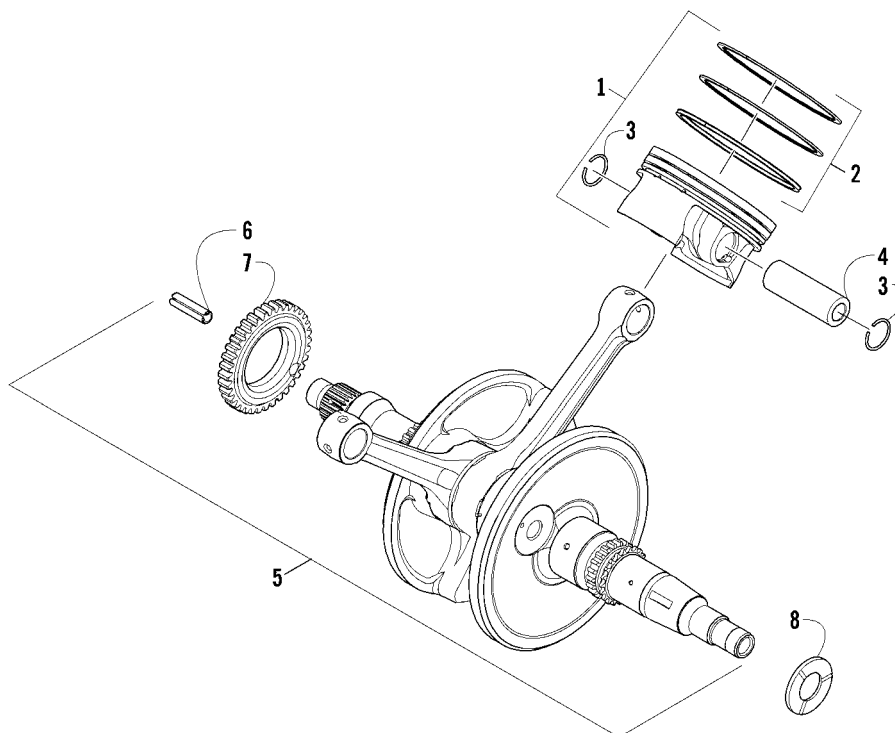
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0810-001	2	Chain, Cam	6	0830-134	2	Gasket
2	0810-046	2	Guide, Chain	7	8468-620	4	Screw, Machine
3	0810-049	2	Tensioner, Chain	8	8400-610	2	Screw, Cap
4	0826-106	2	Pivot, Tensioner	9	<u>0828-129</u>	2	Washer
5	0810-004	2	Adjuster, Tensioner - Assembly				



CRANKCASE ASSEMBLY

0743-990

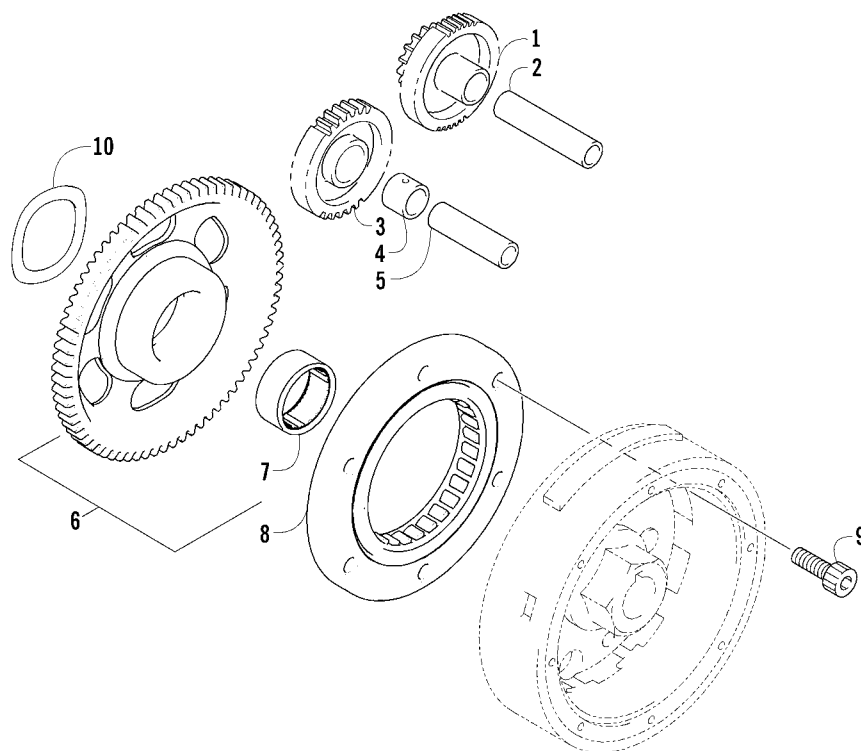
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0801-074	1	Crankcase - Assembly (inc. 2-15)	17	8468-685	1	Screw, Machine
2	0832-048	1	● Bearing	18	8468-650	2	Screw, Machine
3	0832-058	1	● Bearing	19	8468-625	3	Screw, Machine
4	0832-042	1	● Bearing	20	8468-665	7	Screw, Machine
5	0832-050	3	● Bearing	21	8468-640	1	Screw, Machine
6	0832-049	1	● Bearing	22	8412-870	7	Screw, Cap
7	0832-055	1	● Bearing - Assembly (inc. 8)	23	8412-830	4	Screw, Cap
8	0832-057	1	● ● Bearing	24	0812-051	1	Fitting, Oil - Threaded
9	0801-002	1	● Plug, Engine Case	25	0801-088	1	Cover, Breather
10	0829-001	2	● Pin, Dowel	26	0830-160	1	Gasket, Breather
11	0829-002	2	● Pin, Dowel	27	8468-630	6	Screw, Machine
12	0801-118	1	● Pipe, Breather	28	0812-028	1	Fitting, Oil - 40°
13	0812-008	1	● Union, Oil Filter	29	0812-025	1	Bolt, Oil
14	0822-052	1	● Seal, Countershaft - Right	30	8468-670	1	Screw, Machine
15	0830-035	1	● Seal, Driveshaft	31	0830-008	7	Washer
16	0812-026	3	Gasket, Washer				



CRANKSHAFT AND PISTON ASSEMBLY

0742-235

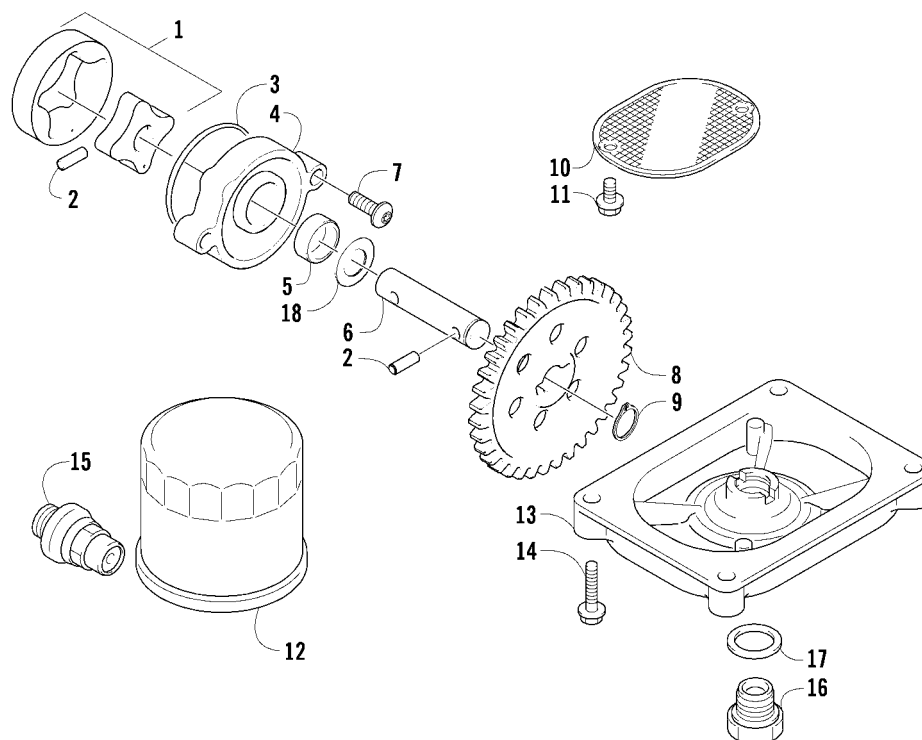
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0805-299	2	Piston Set - Assembly (inc. 2-4)	5	0805-200	1	Crankshaft - Assembly (inc. 6-7)
2	0805-164	2	● Ring, Piston - Set	6	0805-204	1	● Pin, Spring
3	0805-199	4	● Circlip, Piston Pin	7	0805-201	1	● Gear, Crankshaft
4	0805-198	2	● Pin, Piston	8	0805-273	1	Washer, Thrust



STARTER CLUTCH ASSEMBLY

0743-009

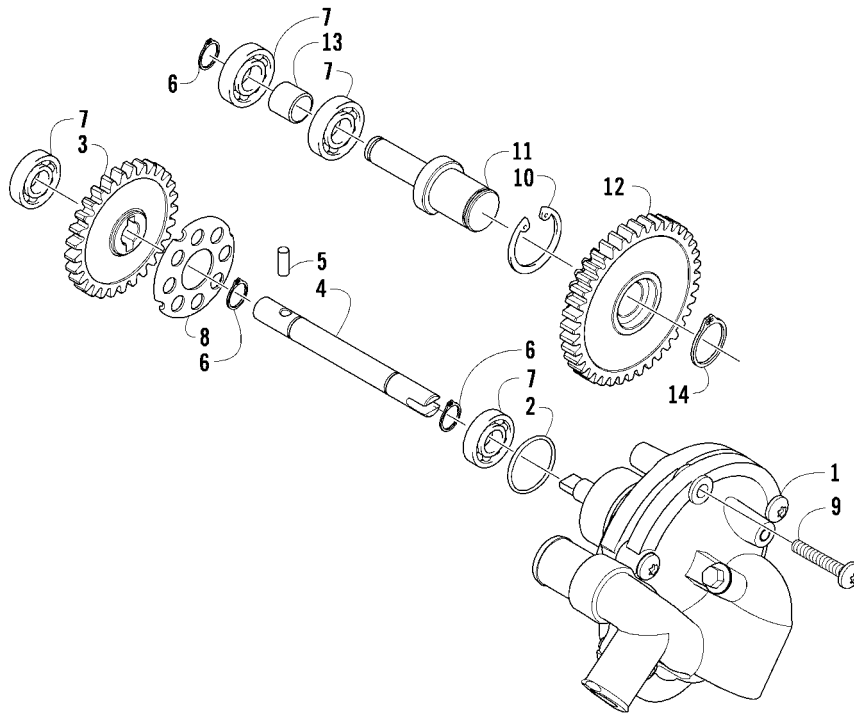
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0815-001	1	Gear, Starter Idler - No. 1	6	0815-004	1	Gear, Starter Clutch (inc. 7)
2	0829-031	1	Shaft, Starter Gear	7	0832-004	1	● Bearing
3	0815-002	1	Gear, Starter Idler - No. 2	8	0802-035	1	Clutch, Starter
4	0815-003	1	Spacer, Starter Idler Gear No. 2	9	0826-069	6	Screw, Machine
5	0829-032	1	Shaft, Starter Gear	10	0828-113	1	Washer, Wave



OIL FILTER/PUMP ASSEMBLY

0742-986

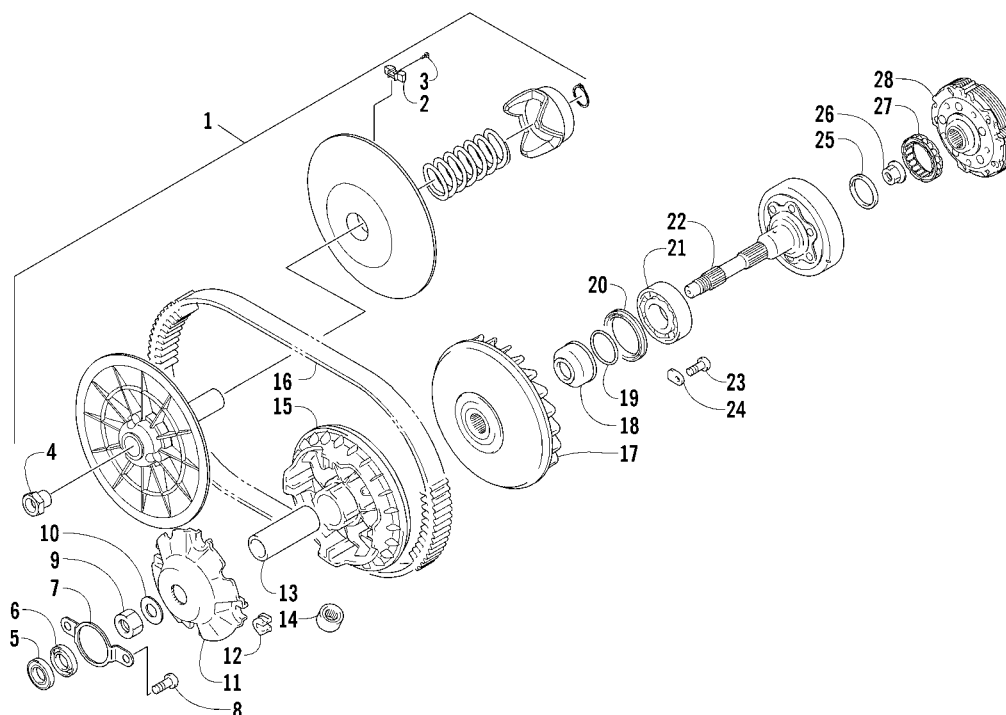
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0812-041	1	Gerotor - Set	10	0812-057	1	Strainer, Oil
2	0829-009	2	Pin, Dowel	11	0826-040	2	Screw, Machine
3	0812-048	1	O-Ring	12	0812-029	1	Filter, Oil
4	0812-040	1	Housing, Oil Pump	13	0812-053	1	Cap, Oil Strainer
5	0812-047	1	Seal, Oil Pump	14	8468-625	4	Screw, Machine
6	0812-046	1	Shaft, Oil Pump	15	0812-052	1	Valve, Oil-Relief - Assembly
7	8468-620	2	Screw, Machine	16	0812-006	1	Plug, Drain
8	0812-045	1	Gear, Driven	17	0830-017	1	Gasket, Drain Plug
9	0831-002	1	Ring, Retaining	18	0828-007	1	Shim



WATER PUMP ASSEMBLY

0742-981

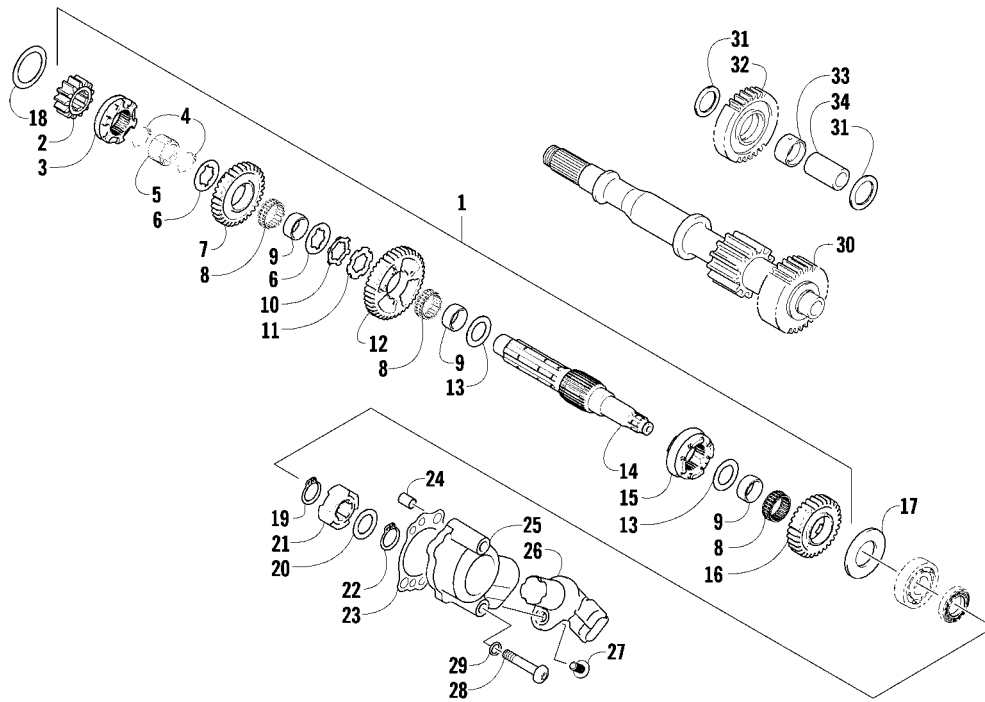
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0813-036	1	Pump, Water - Assembly (inc. 2)	8	0801-089	1	Disc, Breather
2	0830-029	1	● O-Ring	9	8468-650	2	Screw, Machine
3	0813-029	1	Gear, Driven	10	0831-004	1	Ring, Retaining
4	0813-030	1	Shaft, Driven Gear	11	0813-026	1	Shaft, Water Pump Idler Gear
5	0829-009	1	Pin, Dowel	12	0813-027	1	Gear, Idler - Water Pump - Drive
6	0831-002	3	Ring, Retaining	13	0813-028	1	Spacer, Idler - Water Pump
7	0832-046	4	Bearing	14	0831-040	1	Ring, Retaining



TRANSMISSION ASSEMBLY

0742-982

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0823-157	1	Pulley, Driven - Assembly (inc. 2-4)	15	0823-159	1	Face, Movable Drive
2	0823-176	3	● Shoe, Cam	16	0823-231	1	Belt, Drive
3	0823-177	3	● Screw, Machine	17	0823-156	1	Face, Fixed Drive
4	0823-178	1	● Nut, Driven Pulley	18	0823-015	1	Spacer, Fixed Drive Face
5	0832-060	1	Bearing	19	0470-531	1	O-Ring
6	0830-176	1	Seal	20	0830-188	1	Seal, Clutch Housing - Right
7	0823-020	1	Retainer, Bearing	21	0832-047	1	Bearing
8	0826-031	2	Screw, Machine	22	0823-096	1	Housing, Clutch
9	0827-010	1	Nut	23	0826-029	2	Screw, Machine
10	0828-106	1	Washer	24	0822-010	2	Retainer, Bearing
11	0823-008	1	Plate, Movable Drive Face	25	0830-189	1	Seal, Clutch Housing - Left
12	0823-010	4	Damper, Movable Drive Face	26	0827-011	1	Nut
13	0823-265	1	Spacer, Movable Drive Face	27	0823-018	1	Clutch, One-Way
14	0823-170	8	Roller, Movable Drive Face	28	0823-098	1	Clutch, Centrifugal - 6 Plate

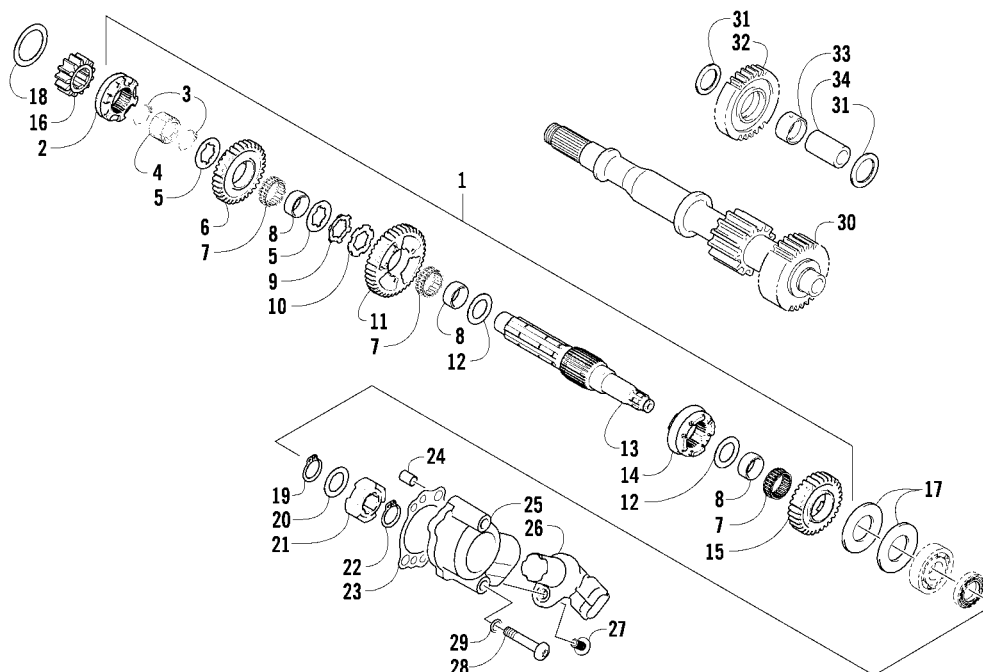


SECONDARY TRANSMISSION ASSEMBLY

(Engine Serial No. Up to 0900T10142249)

0743-968

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0822-048	1	Countershaft Assembly (inc. 2-16)	18	0828-019	1	Washer, Thrust
2	0822-008	1	● Gear, Drive	19	0831-040	1	Ring, Retaining
3	0822-014	1	● Gear Select, Reverse	20	0828-069	1	Washer, Thrust
4	0831-011	2	● Ring, Retaining	21	0822-050	1	Trigger, Speedometer Sensor
5	0822-045	1	● Spacer, Reverse Driven Gear	22	0831-039	1	Ring, Retaining
6	0828-008	2	● Washer	23	0830-129	1	Gasket
7	0822-013	1	● Gear, Reverse Driven	24	0829-023	2	Pin, Dowel
8	0832-011	3	● Bearing	25	0822-049	1	Housing, Speedometer Sensor
9	0822-005	3	● Bushing	26	0824-042	1	Sensor, Speedometer
10	0828-014	1	● Washer, Lock	27	8468-620	1	Screw, Machine
11	0828-015	1	● Washer, Lock	28	8468-645	2	Screw, Machine
12	0822-004	1	● Gear, Driven - Low	29	0830-107	2	Seal
13	0822-046	2	● Washer, Driven Gear	30	0822-001	1	Driveshaft
14	0822-003	1	● Countershaft	31	0828-016	2	Washer, Thrust
15	0822-007	1	● Gear Select, Sliding	32	0822-011	1	Gear, Reverse Idle
16	0822-006	1	● Gear, Driven - High	33	0822-012	1	Bushing
17	0828-011		Washer	34	0822-015	1	Shaft, Reverse Idle

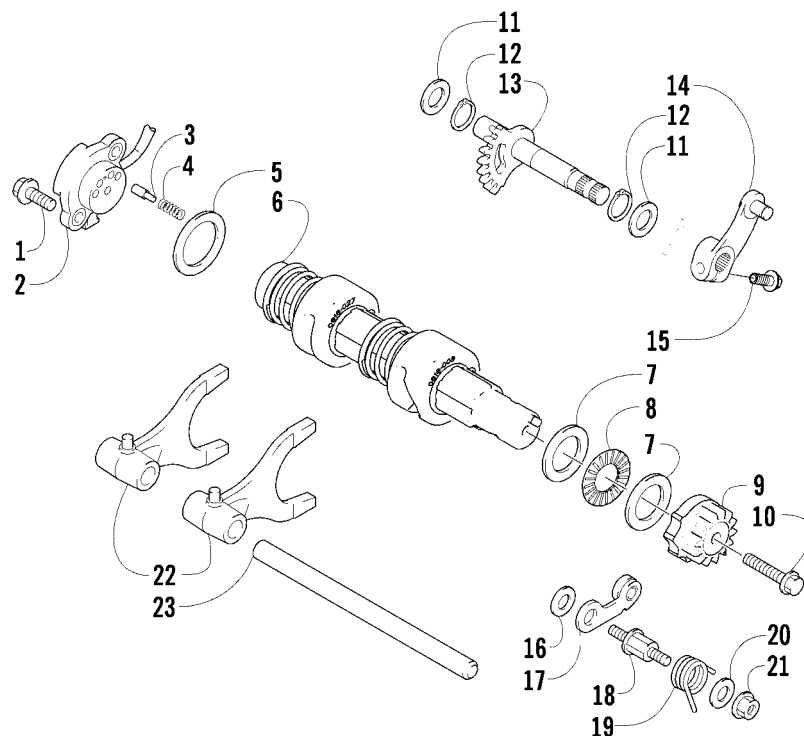


SECONDARY TRANSMISSION ASSEMBLY

(Engine Serial No. 0900T10142250 and Up)

0743-914

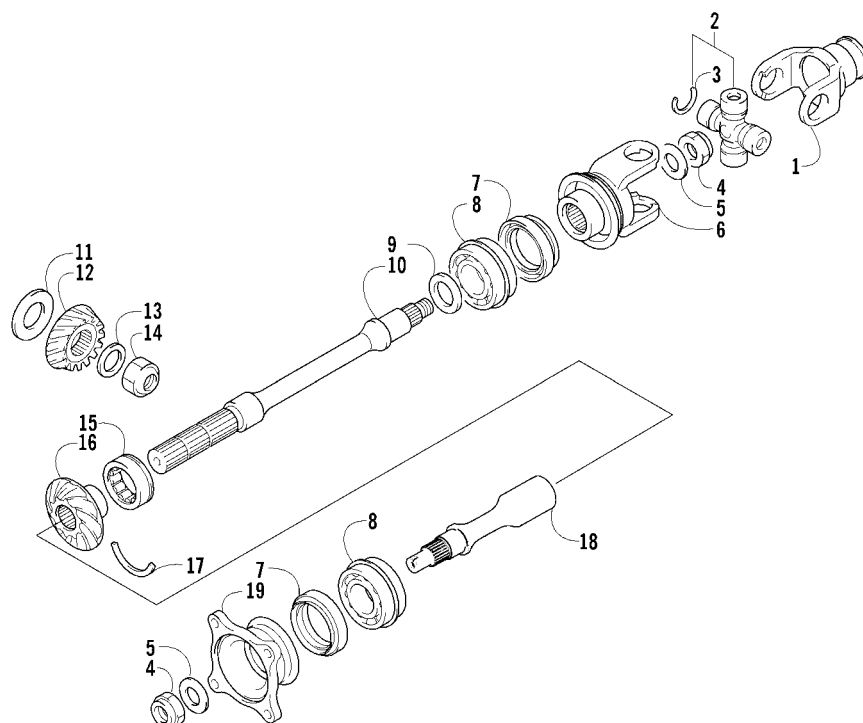
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	1502-149	1	Countershaft Assembly (inc. 2-15)	18	0828-019	1	Washer, Thrust
2	0822-014	1	● Gear Select, Reverse	19	0831-040	1	Ring, Retaining
3	0831-011	2	● Ring, Retaining	20	0828-069	1	Washer, Thrust
4	0822-045	1	● Spacer, Reverse Driven Gear	21	0822-050	1	Trigger, Speedometer Sensor
5	0828-008	2	● Washer	22	0831-039	1	Ring, Retaining
6	0822-013	1	● Gear, Reverse Driven	23	0830-129	1	Gasket
7	0832-011	3	● Bearing	24	0829-023	2	Pin, Dowel
8	0822-005	3	● Bushing	25	0822-049	1	Housing, Speedometer Sensor
9	0828-014	1	● Washer, Lock	26	0824-042	1	Sensor, Speedometer
10	0828-015	1	● Washer, Lock	27	8468-620	1	Screw, Machine
11	0822-004	1	● Gear, Driven - Low	28	8468-645	2	Screw, Machine
12	0822-046	2	● Washer, Driven Gear	29	0830-107	2	Seal
13	0822-003	1	● Countershaft	30	0822-001	1	Driveshaft
14	0822-007	1	● Gear Select, Sliding	31	0828-016	2	Washer, Thrust
15	0822-006	1	● Gear, Driven - High	32	0822-011	1	Gear, Reverse Idle
16	0822-089	1	Gear, Drive	33	0822-012	1	Bushing
17	0828-011	2	Washer	34	0822-015	1	Shaft, Reverse Idle



GEAR SHIFTING ASSEMBLY

0742-985

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	8470-520	2	Screw, Machine	13	0818-007	1	Shaft, Sub-Gear Shift
2	0409-091	1	Switch, Gear Shift Position	14	0818-014	1	Arm, Shift
3	0818-013	2	Contact	15	8468-620	1	Screw, Machine
4	0818-017	2	Spring	16	0828-038	1	Washer
5	0828-040	1	Washer	17	0818-002	1	Stopper, Cam
6	0818-046	1	Shaft, Gear Shift - Assembly	18	0818-004	1	Support, Cam Stopper
7	0828-095	2	Washer, Thrust	19	0818-090	1	Spring
8	0832-052	1	Bearing, Thrust	20	0828-035	1	Washer
9	0818-055	1	Cam, Gear Shift	21	8424-602	1	Nut
10	0826-006	1	Screw, Cap	22	0818-072	2	Fork, Shift
11	0828-036	2	Washer	23	0818-006	1	Shaft, Shift Fork
12	0831-010	2	Ring, Retaining				

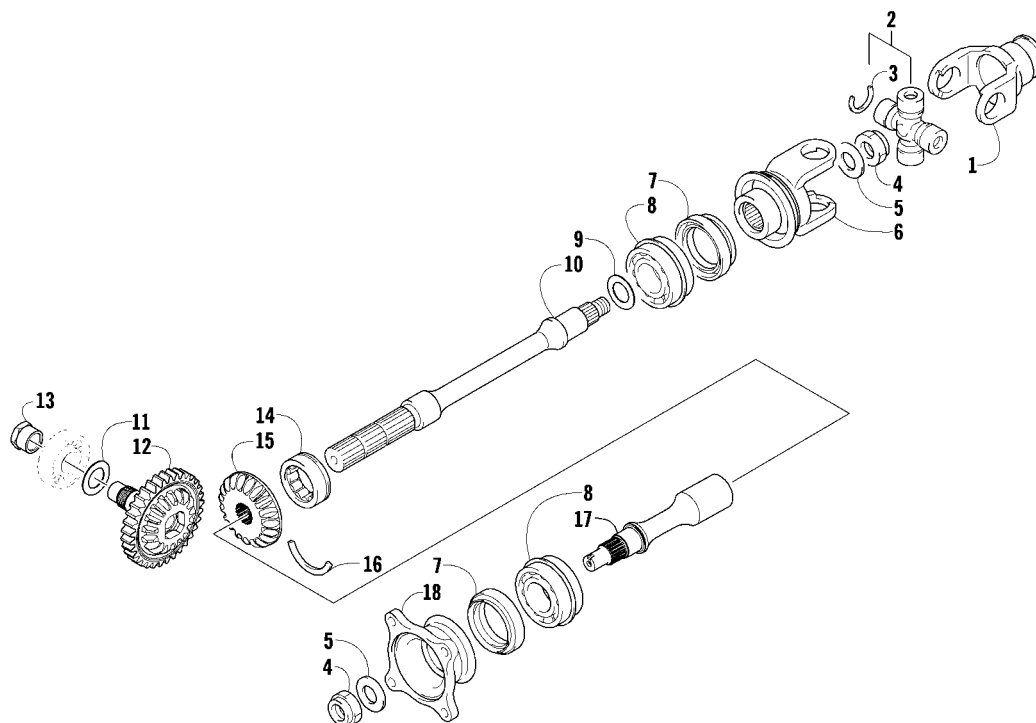


SECONDARY DRIVE ASSEMBLY

(Engine Serial No. Up to 0900T10142249)

0739-956

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	1402-164	1	Joint, Universal - Set (inc. 3)		0828-031	AR	Shim, 24 x 48 x 0.30 mm
3	0423-450	4	● Ring, Retaining		0828-032	AR	Shim, 24 x 48 x 0.35 mm
4	0827-013	2	Nut		0828-033	AR	Shim, 24 x 48 x 0.90 mm
5	0828-020	2	Washer		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		0828-063	AR	Shim, 24 x 48 x 1.05 mm
8	0832-017	2	Bearing		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
	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				

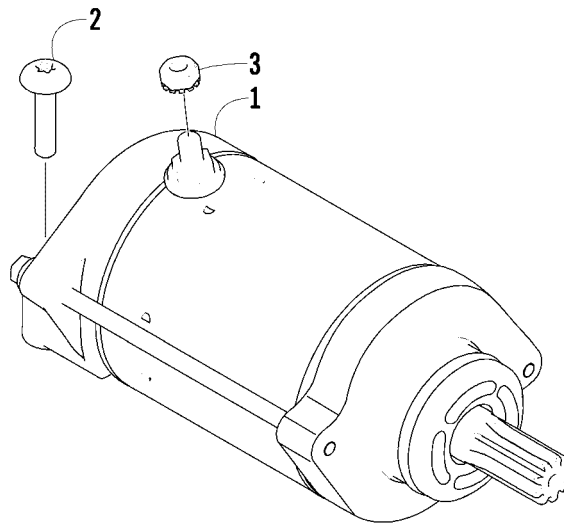


SECONDARY DRIVE ASSEMBLY

(Engine Serial No. 0900T10142250 and Up)

0744-004

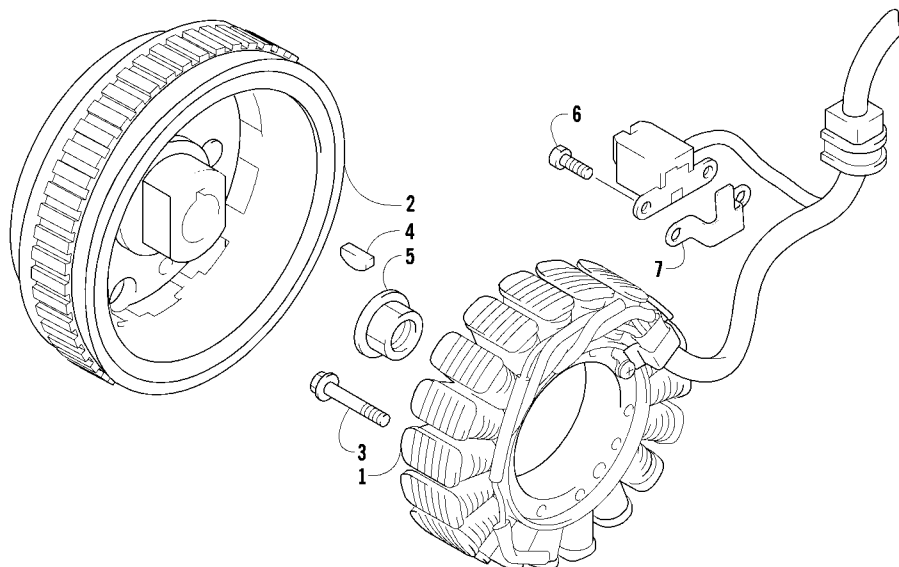
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	1502-325	1	Yoke, Propeller Shaft Joint	10	0819-003	1	Shaft, Secondary Driven - Front
2	0402-944	1	Joint, Universal - Set (inc. 3)	11	<u>0828-119</u>	AR	Shim, 30 x 48 x 0.25 mm
3	0423-395	4	● Ring, Retaining		<u>0828-120</u>	AR	Shim, 30 x 48 x 0.30 mm
4	0827-013	2	Nut		<u>0828-121</u>	AR	Shim, 30 x 48 x 0.35 mm
5	0828-020	2	Washer		<u>0828-122</u>	AR	Shim, 30 x 48 x 0.90 mm
6	0819-061	1	Yoke, Drive Output - Front		<u>0828-123</u>	AR	Shim, 30 x 48 x 0.95 mm
7	0830-043	2	Seal, Oil		<u>0828-124</u>	AR	Shim, 30 x 48 x 1.00 mm
8	0832-017	2	Bearing		<u>0828-125</u>	AR	Shim, 30 x 48 x 1.05 mm
9	0828-021	AR	Shim, 25 x 34 x 0.25 mm		<u>0828-126</u>	AR	Shim, 30 x 48 x 1.10 mm
	0828-022	AR	Shim, 25 x 34 x 0.30 mm		<u>0828-127</u>	AR	Shim, 30 x 48 x 1.15 mm
	0828-023	AR	Shim, 25 x 34 x 0.70 mm	12	<u>0822-108</u>	1	Gear, Secondary Drive
	0828-024	AR	Shim, 25 x 34 x 0.90 mm	13	<u>0827-060</u>	1	Nut
	0828-025	AR	Shim, 25 x 34 x 0.95 mm	14	0832-016	1	Bearing, Driven Gear
	0828-026	AR	Shim, 25 x 34 x 1.00 mm	15	<u>0822-106</u>	1	Gear, Secondary Driven
	0828-027	AR	Shim, 25 x 34 x 1.05 mm	16	0819-011	1	Ring, Driven Bearing
	0828-028	AR	Shim, 25 x 34 x 1.10 mm	17	0819-053	1	Shaft, Secondary Driven - Rear
	0828-029	AR	Shim, 25 x 34 x 1.15 mm	18	0819-005	1	Flange, Output Joint - Rear



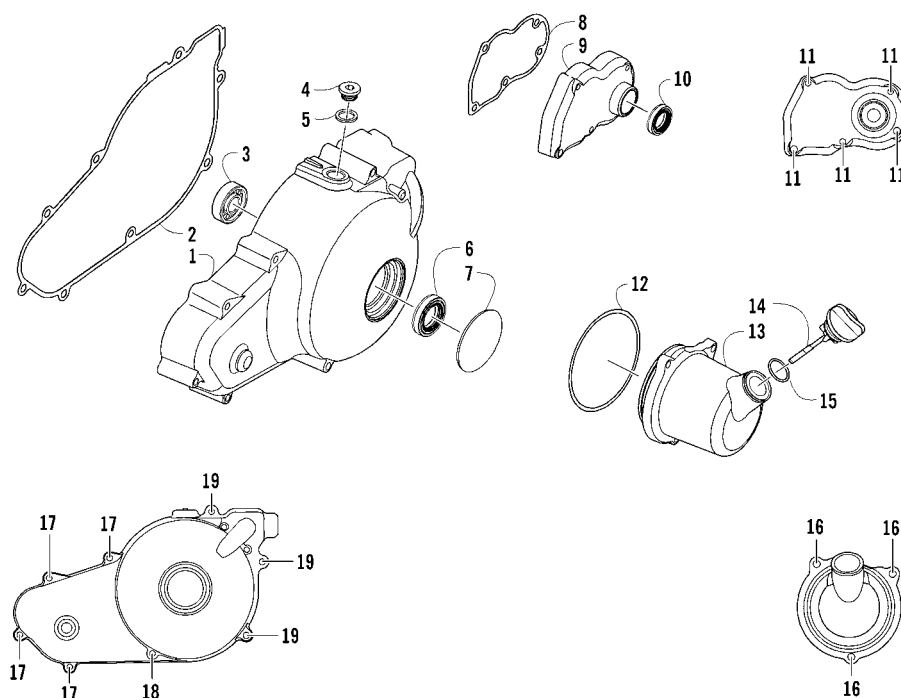
STARTER MOTOR ASSEMBLY

0743-180

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0825-013	1	Motor, Starter - Assembly	3	0623-038	1	Nut w/Washer
2	8476-625	2	Screw, Machine				



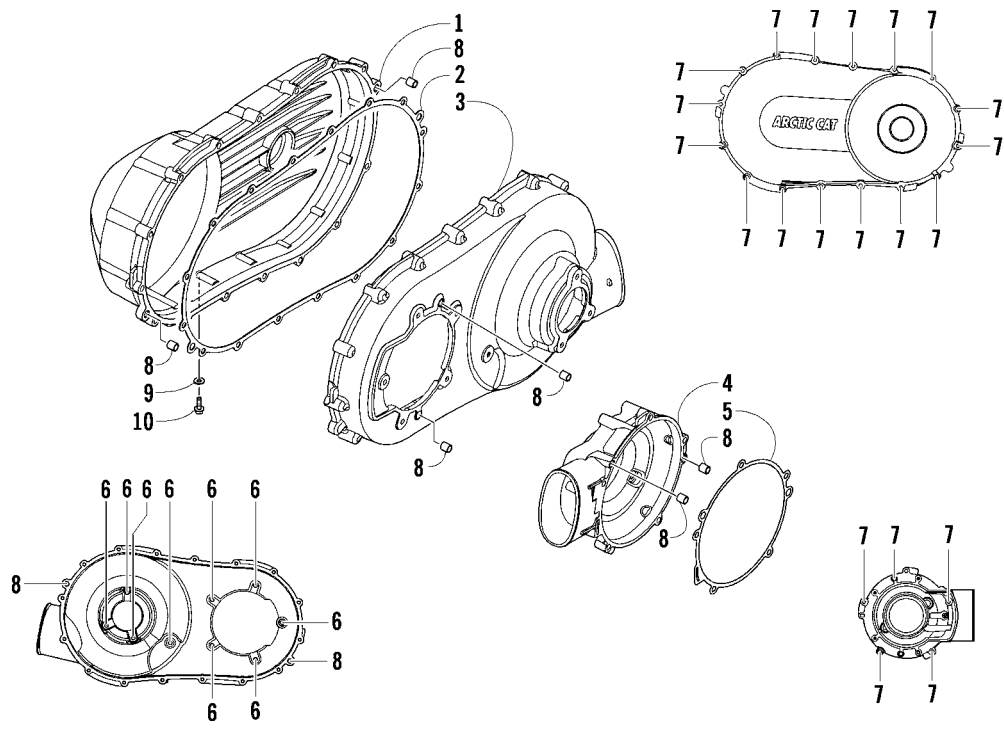
Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0802-041	1	Stator - Assembly	5	0827-010	1	Nut
2	0802-042	1	Rotor/Flywheel	6	8470-510	4	Screw, Machine
3	0826-102	3	Screw, Machine	7	0831-064	1	Clamp
4	0829-012	1	Key				



MAGNETO SIDE ENGINE COVERS

0742-239

Ref.	Part No.	Qty.	Description	Ref.	Part No.	Qty.	Description
1	0806-062	1	Cover, Magneto	11	8468-630	5	Screw, Machine
2	0830-132	1	Gasket, Magneto Cover	12	0830-162	1	O-Ring, Oil Filler Cover
3	0832-060	1	Bearing	13	0801-081	1	Cover, Oil Filler
4	0806-022	1	Plug, Check	14	0801-073	1	Stick, Oil Level (inc. 15)
5	0830-015	1	Washer, Crush	15	0830-010	1	● O-Ring
6	0830-176	1	Seal, Cap	16	8468-620	3	Screw, Machine
7	0806-066	1	Cap, Magneto Cover	17	8468-650	4	Screw, Machine
8	0830-161	1	Gasket, Gear Shift Cover	18	8468-695	1	Screw, Machine
9	0818-070	1	Cover, Gear Shift	19	8468-665	3	Screw, Machine
10	0830-044	1	Seal, Gear Shift Cover				



CLUTCH SIDE ENGINE COVERS

0742-232

Ref. Part No. Qty. Description				Ref. Part No. Qty. Description			
1	0806-068	1	Cover, Outside	6	8468-616	9	Screw, Machine
2	0830-137	1	Gasket, Cover	7	8468-630	21	Screw, Machine
3	0806-067	1	Cover, Inside	8	0829-001	6	Pin, Dowel
4	0806-064	1	Cover, Clutch	9	0830-013	1	Washer, Crush
5	0830-133	1	Gasket, Clutch Cover	10	8408-812	1	Screw, Cap

