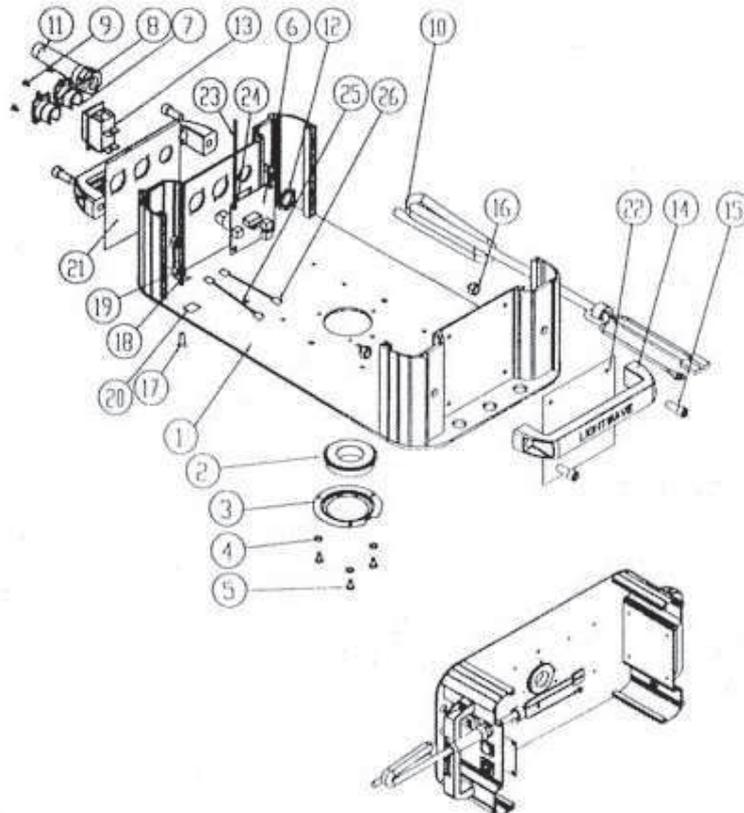


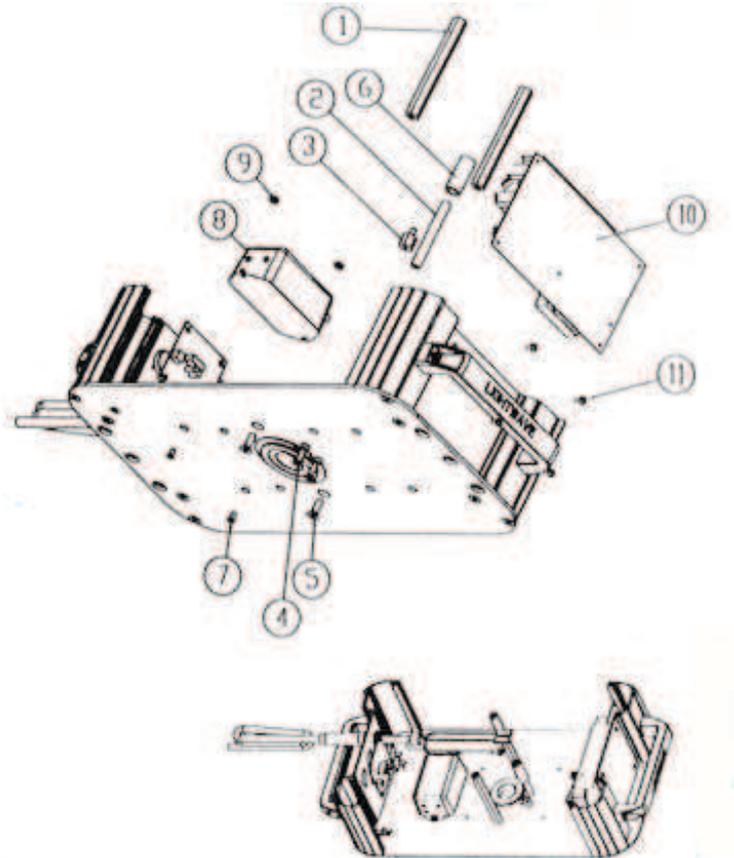
STUDIO SPOT 575

Box Exterior



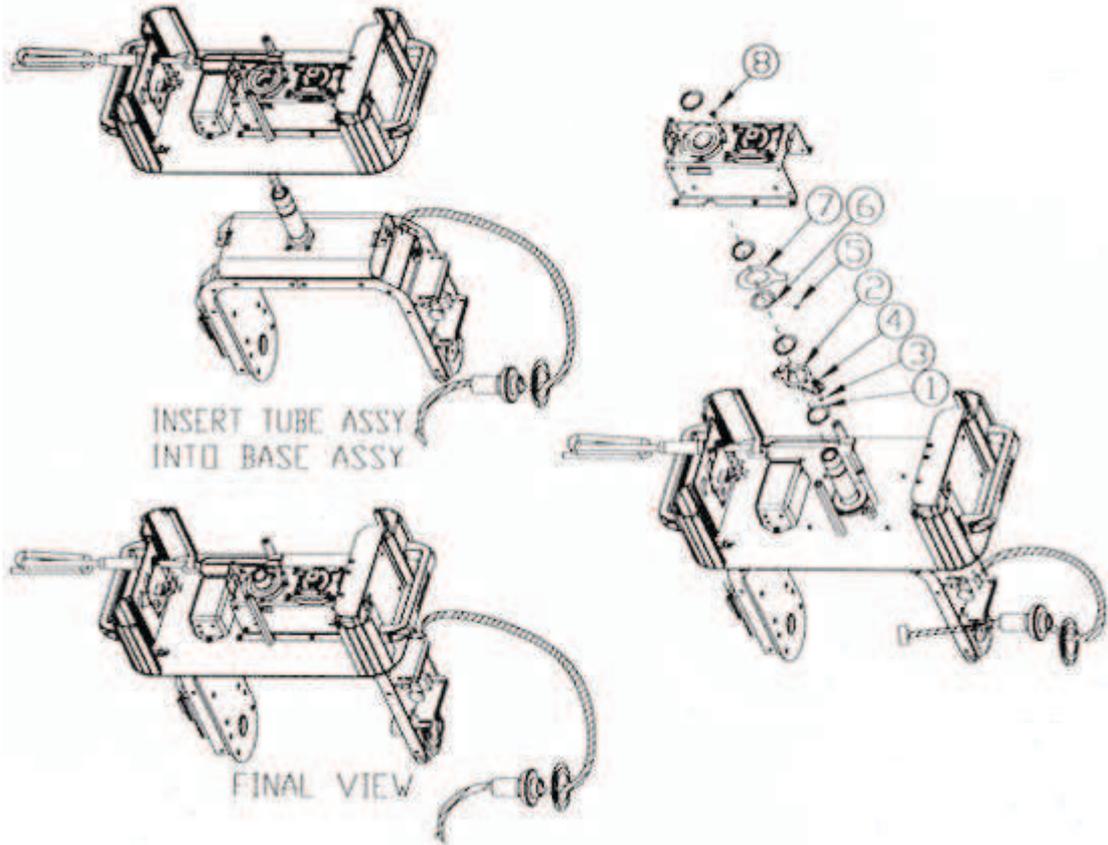
1.	80071218	Top Box Assy.
2.	90719007	Bearing, Tech 6006-2RSNR StC
3.	99260250	Cap, Bearing Support
4.	90709043	Screw, Phil Pan #8 x 3/8 Type B SS
5.	90706017	Washer, Lock #8 Int Tooth
6.	80010062	Board, Link Comm
7.	90404002	Connector, DHNF Male Housing (XLR)
8.	90404001	Connector, DHNF Female Housing (XLR)
9.	90711010	Screw, Phil Flat #4 x 1/4
10.	80470181	Cord, AC 16 ga.
11.	90414008	Strain Relief, Powergrip
12.	90703030	Nut, 1/2 NPT Strain Relief
13.	90405140	Breaker, Circuit 16 Amp
14.	90720006	Handle, Large W/Logo
15.	90707057	Socket Cap 5/16-18 x 3/4 Nickel Alloy
16.	90703033	Nut, Lock 5/16-18 Nylon Insert
17.	90711033	Screw, Phil Flat 8-32 x 5/8
18.	90408010	Terminal Block, Molex
19.	90703023	Nut, Keps 8-32
20.	99410036	Label ETL Side
21.	99310280	Label, Side Data In/Out
22.	99410006	Label, CE/UL Ground Wire
23.	80470116	Cable, Link Comm
24.	99330007	Tie Wrap
25.	80470125	Wire, Ground Logic PCB
26.	80470128	Wire, Ground Lamp Power Supply

Box Interior A



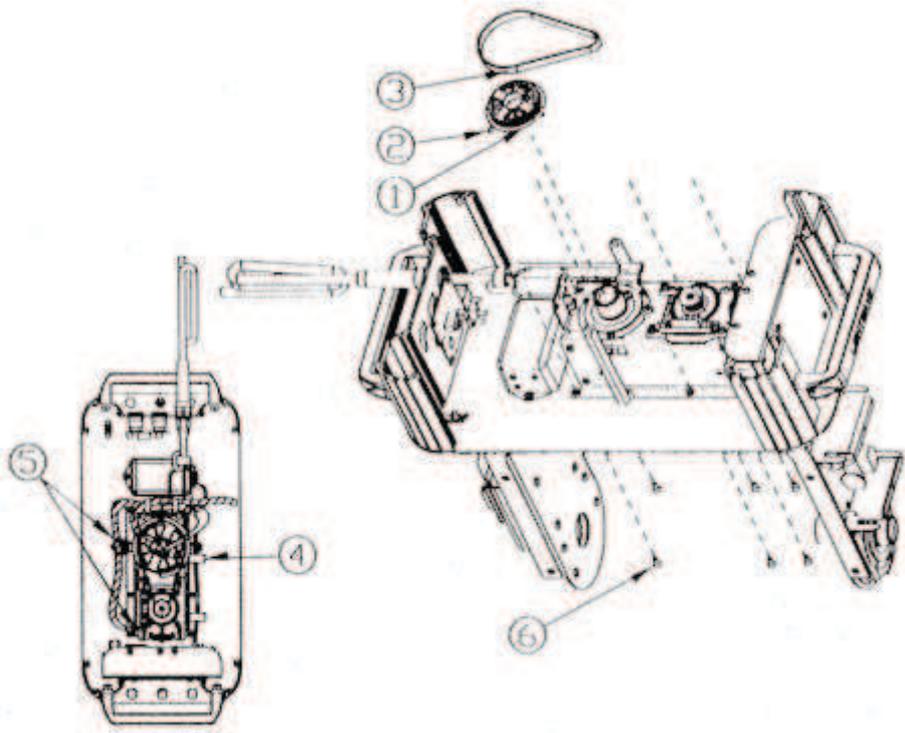
1.	90702066	Hex Housing Standoff
2.	90702001	Standoff 10 - 32 x 3/8 x 3"
3.	90702110	Standoff 1/2 Hex M-F 10 - 32 x 1/2
4.	90708009	Screw, Socket Flathead 10 - 32 x 1/2
5.	90708013	Screw, Socket Flathead 1/4 20 x 3/4
6.	90717022	Tubing, 3/8 SAE 30R7 Fuel
7.	90708005	Screw, Socket Flathead 8 -32 x 3/8
8.	90601028	Filter, 10 Amp EMI
9.	90703023	Nut, Keps 8 -32
10.	80050024	Board, Motor Power Supply
11.	90709065	Screw, Phil Pan 8 - 32 x 5/16

Box Interior B



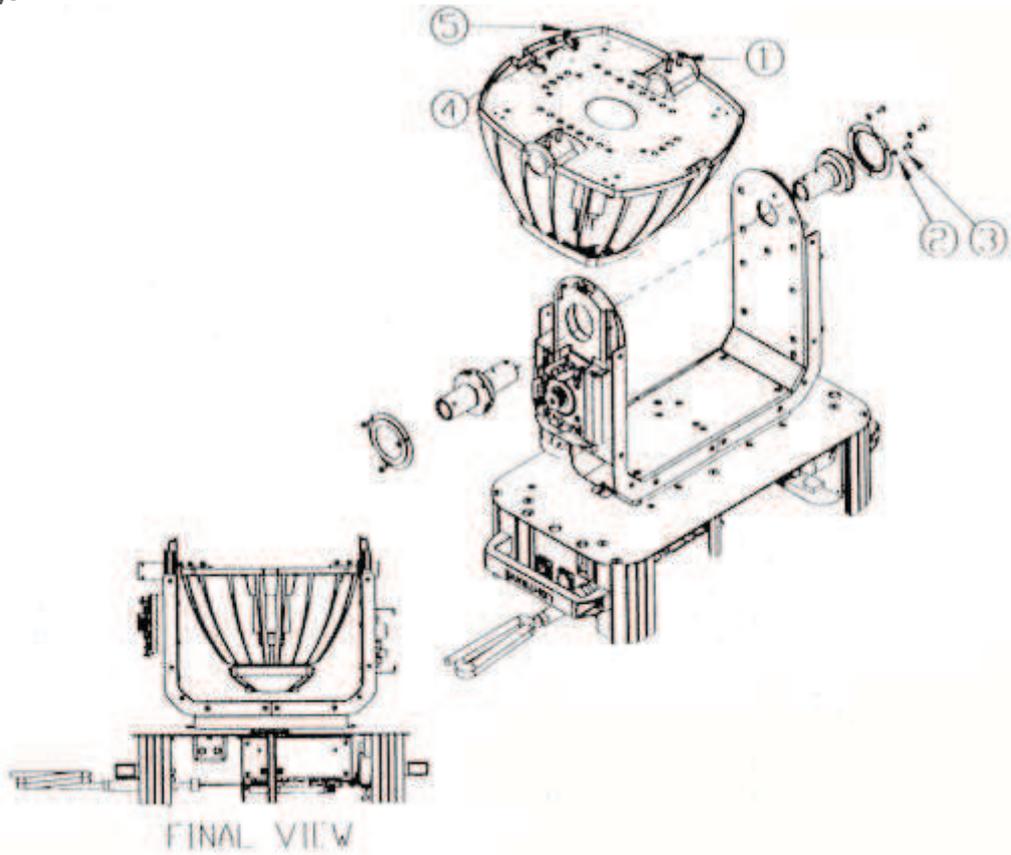
1.	90701071	Retainer Ring, Zinc Yellow
2.	80140028	Damper, Shaft Tensioner (Pan/Tilt)
3.	90702135	Spacer, .188 x 3/16 ID, 1/4 OD
4.	90703011	Nut, Lock 10 - 32 Nylon Insert
5.	90707086	Socket Cap, 6 -32 x 3/16
6.	90706058	Washer, Spring Stainless
7.	85000062	Stop, Pan
8.	90709020	Screw, Phil Pan 10 -32 x 3/8

Box Interior C



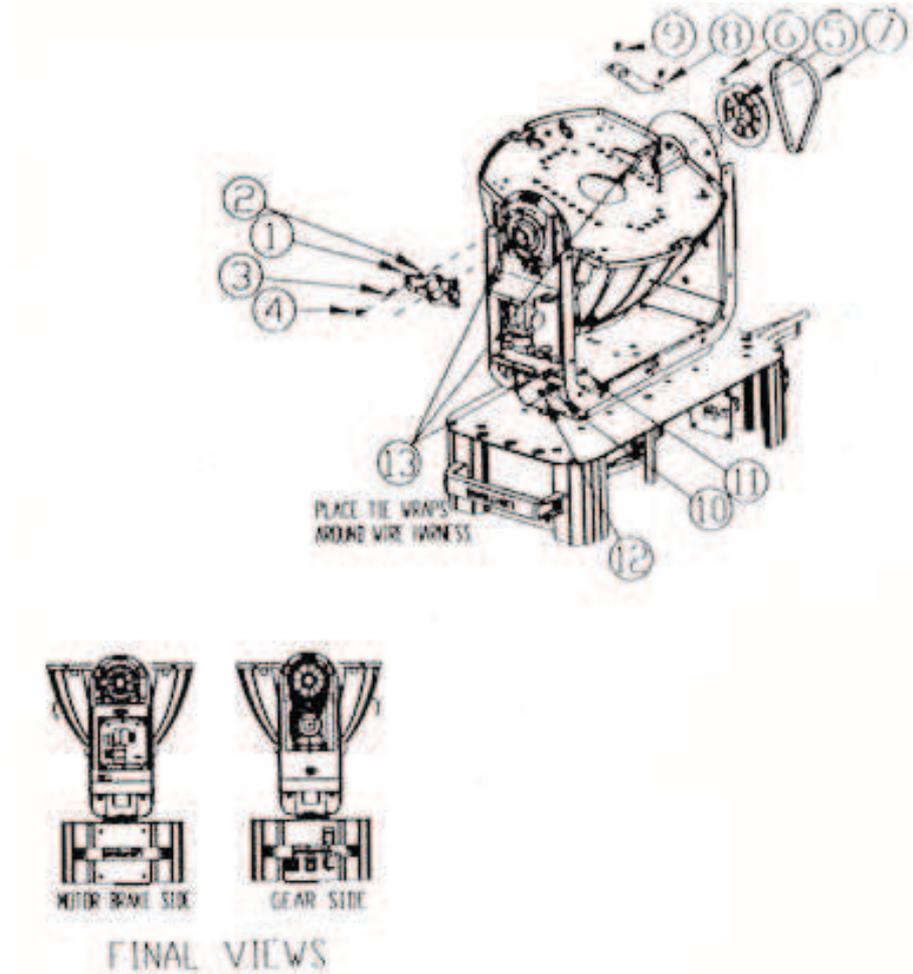
1.	99290011	Gear, Pan/Tilt Molded
2.	90701083	Set Screw, Cup Pt. 10 - 32 x 3/8
3.	99360013	Belt 3/8 W 68 Tooth
4.	90701082	Clip, Snap
5.	99330007	Tie Wrap
6.	90708005	Screw, Socket Flathead 8 - 32 x 3/8

Tilt Assy.



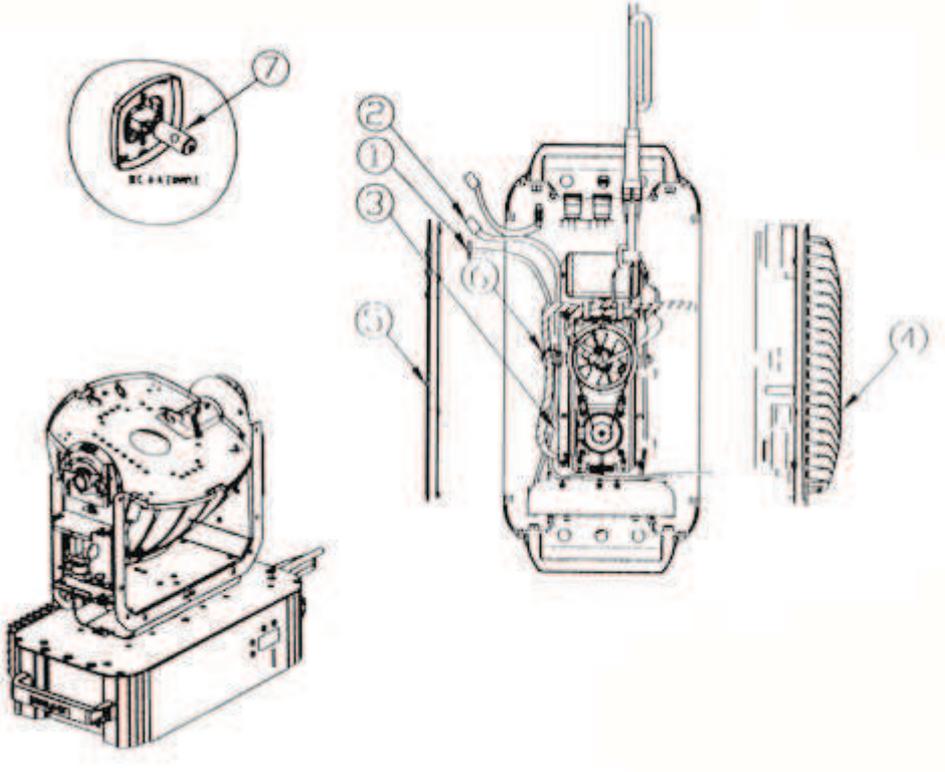
1.	90707033	Socket Cap 10 - 32 x 1/2 BZ Patch
2.	90706017	Washer, Lock #8 Int Tooth
3.	90709043	Screw, Phil Pan #8 x 3/8
4.	85000082	Strain Relief, Aluminum With Wings
5.	90703005	Keps Nut, 6 - 32

Tilt Assy. B



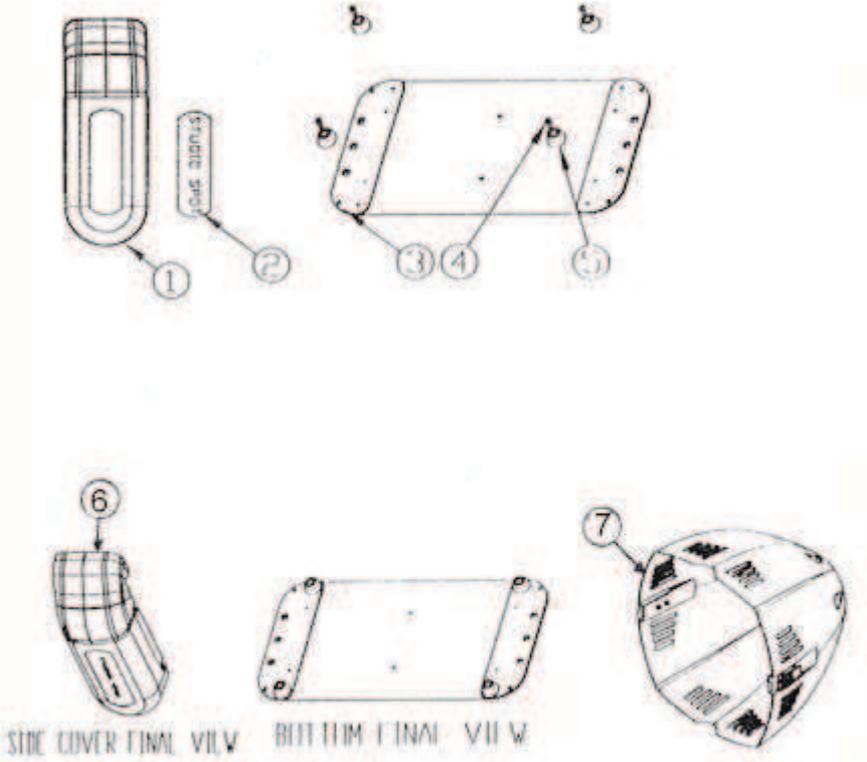
1.	80140028	Damper, Shaft Tensioner, Pan/Tilt
2.	90706078	Washer, #10 x .35OD x .203ID
3.	90702135	Spacer, .188 x 3/16ID, 1/4OD
4.	90709020	Screw, Phil Pan 10 - 32 x 3/8
5.	99290011	Gear, Molded Pan/ Tilt
6.	90701083	Set Screw, 10 - 32 x 3/8
7.	99360013	Belt, 3/8 68 Tooth
8.	80071278	Plate, Cable Harness Cover
9.	90711034	Screw, Phil Flat #8 x 3/8
10.	90701146	Clamp, Cable Steel/Vinyl
11.	90709121	Screw, Phil Truss Head 8 - 32 x 3/8
12.	90703023	Keps Nut 8 - 32
13.	99330007	Tie Wrap

Circuit Boards



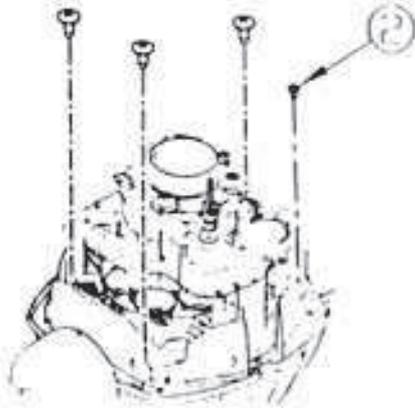
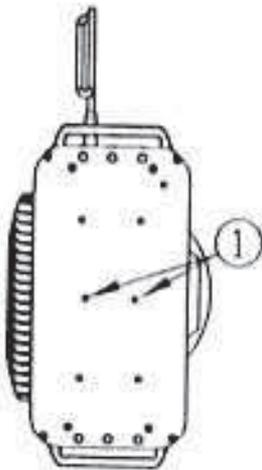
1.	80470117	Cable, Lamp-Logic
2.	80470118	Cable, 40V Motor Power
3.	90701082	Clip, Snap
4.	80050034	Lamp Switching Power Supply
5.	80010124	Board, Logic
6.	99330007	Tie Wrap
7.	55030052	Lamp, MSR 575/2

Bezel, Box Cover, Yoke Arm Cover



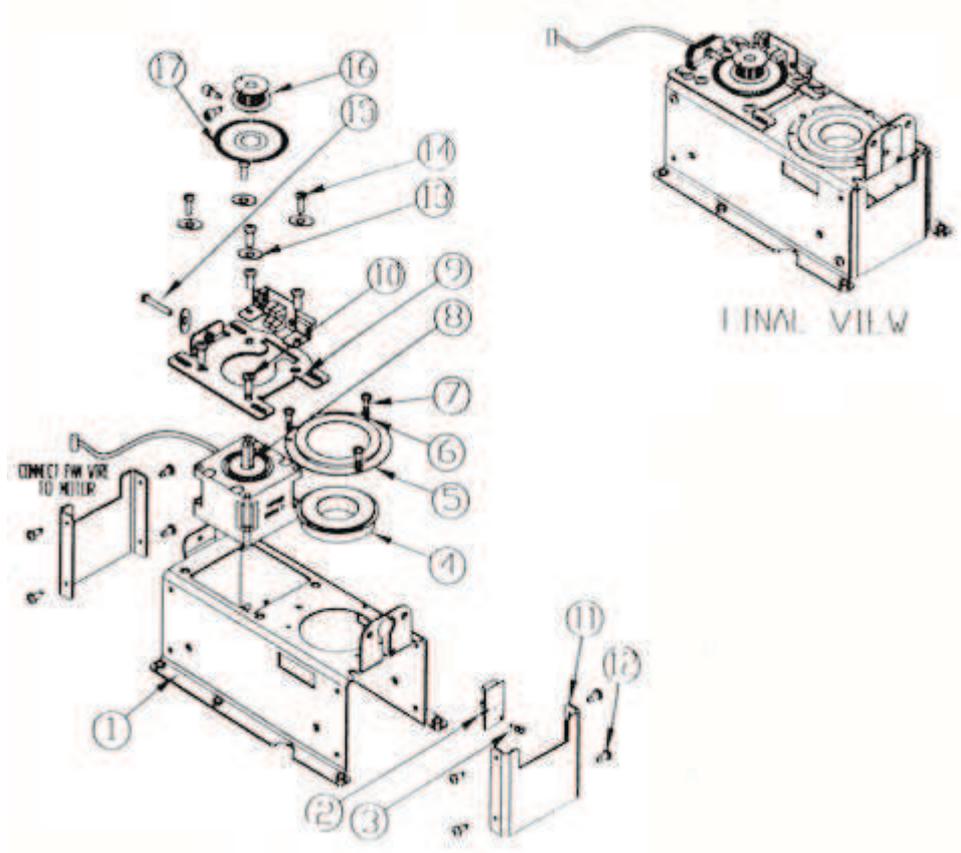
1.	99240017	Yoke Arm Cover
2.	99310312	Label, Yoke Arm 575
3.	80070366	Cover With Support
4.	90709062	Screw, Phil Pan #10 x 1/2
5.	90410089	Foot, Rubber
6.	99240021	Yoke Arm Cover Assy.
7.	80450056	Bezel Assy.

Optical Module, Box Cover



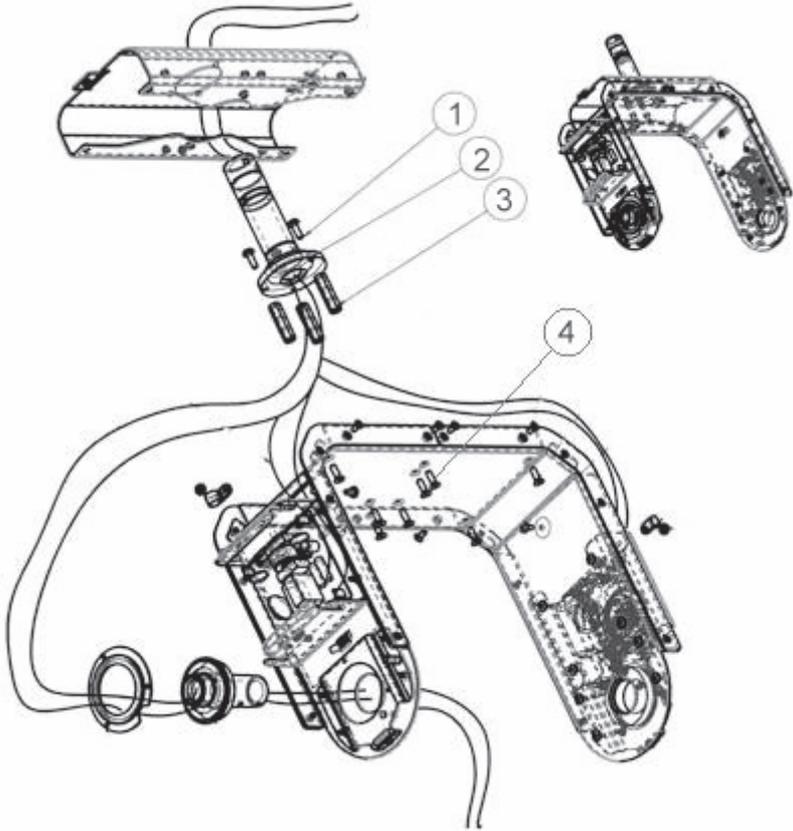
1.	90710009	Socket Button Head 1/4 - 20 x 3/4
2.	90709136	Screw, Phil Pan 8 - 32 x 5/16 With Star Washer

Pan Assy.



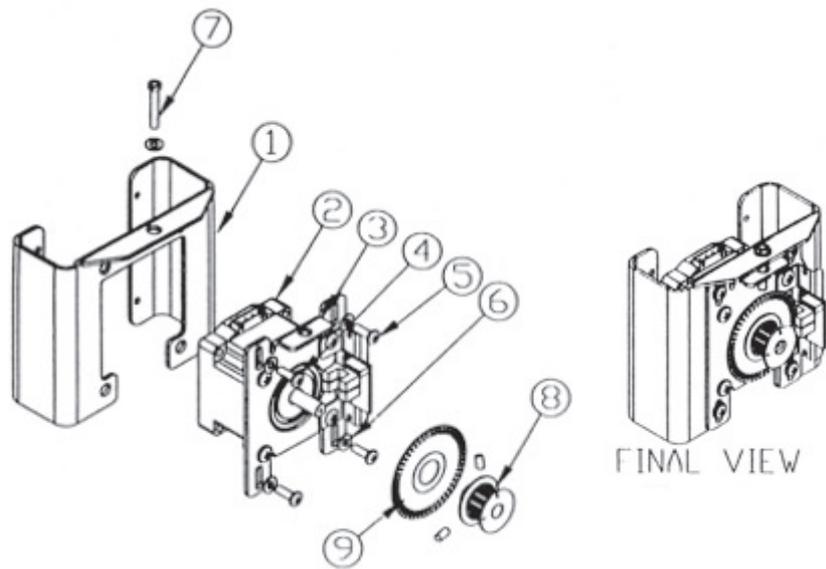
1.	99260262	Bracket, Pan Bearing
2.	80040017T	Board, Sensor Pan/Tilt
3.	90709030	Screw, Phil Pan #4 x 1/4
4.	90719068	Bearing
5.	99260250	Cap, Bearing Support
6.	90706017	Lock Washer, #8 Int Tooth
7.	90709043	Screw, Phil Pan #8 x 3/8
8.	99270028	Motor
9.	85000184	Plate, Pan/Tilt Motor
10.	90709124	Screw, Phil Pan 10 - 14 x 3/8
11.	99080065	Plate, Support Pan Motor Bracket
12.	90709024	Screw, Phil Pan #8 x 1/4
13.	90709090	Screw, Phil Pan 8 - 32 x 1/2
14.	90706012	Washer, Flat #10
15.	90704023	Bolt, Hex 8 - 32 x 5/8
16.	80150010	Gear with Encoder (included screws)
17.	99180029	Encoder wheel

Pan Tube- New Style (Standoffs)



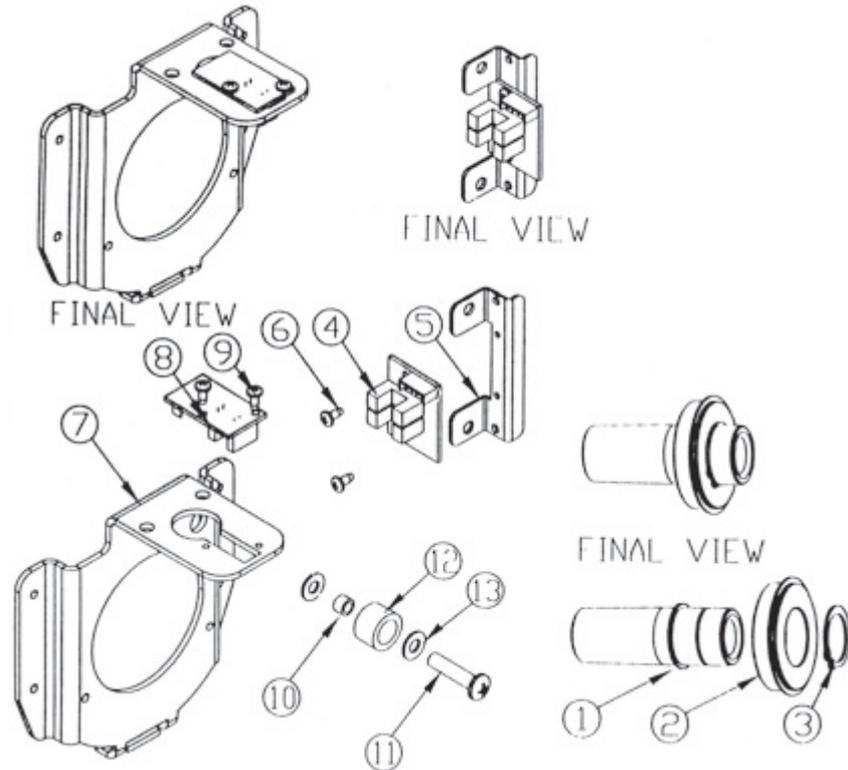
1.	90710014	Screw, Socket Button Head 10 -32 x 3/4
2.	99140016	Pan Tube
3.	90702143	Standoff, Hex 10 - 32 x 1.5
4.	90708009	Screw, Socket Flat Head 10 -32 x 1/2

Tilt Motor Assy



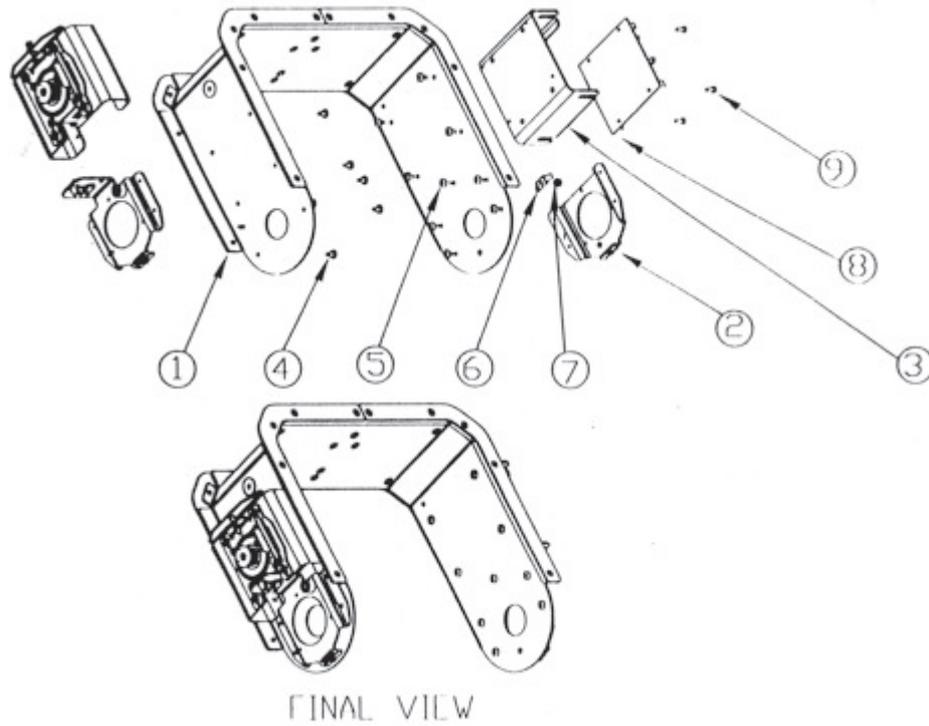
1.	99260263	Bracket, Tilt Motor
2.	99270028	Motor
3.	85000184	Plate, Pan/Tilt Motor
4.	90709124	Screw, Phil Pan 10 - 14 x 3/8
5.	90709090	Screw, Phil Pan 8 - 32 x 1/2
6.	90706012	Washer, Flat #10
7.	90704035	Bolt, Hex 8 - 32 x 1
8.	99430017	Pinion Gear
9.	99180029	Encoder Wheel
	90707091	Pinion Gear Set Screw
	80150010	Pinion Gear & Encoder Assembly

Tilt Bearing Assy. & Tilt Sensor



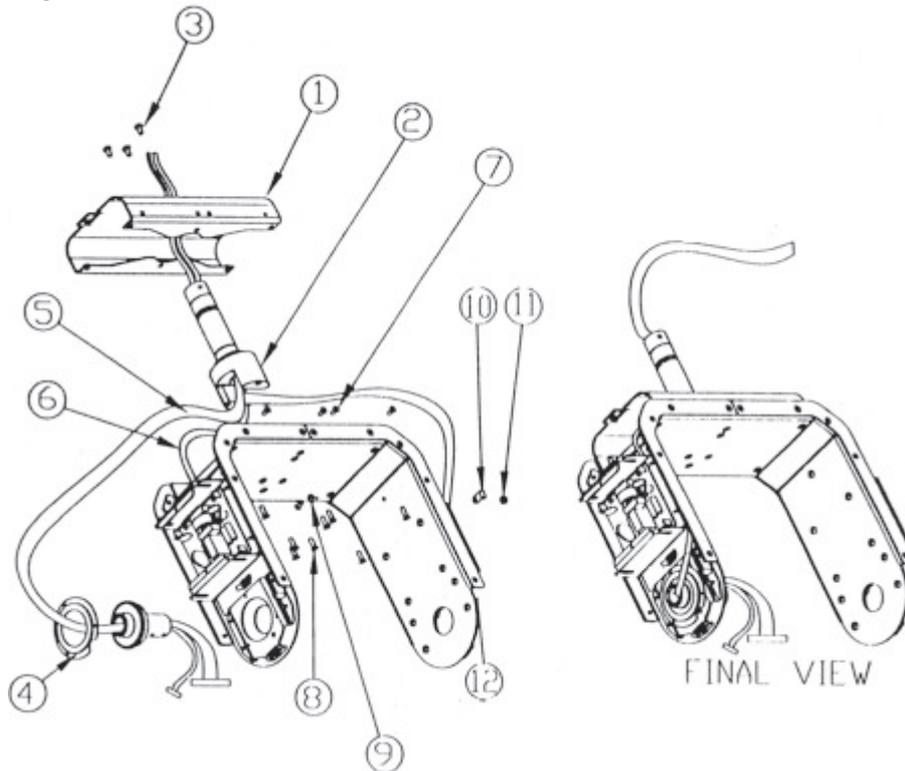
1.	99140011	Tube, Tilt Short With Shoulder
2.	90719068	Bearing
3.	90701071	Retainer Ring, Zinc
4.	80010085	Board, Dual Sensor
5.	99260261	Bracket, Encoder Sensor Board
6.	90709030	Screw, Phil Pan #4 x 1/4
7.	99260159	Bracket, Tilt Bearing Right
8.	80040017T	Board, Sensor Pan/Tilt
9.	90709030	Screw, Phil Pan #4 x 1/4
10.	90702070	Standoff, Pan/Tilt Stop
11.	90709103	Screw, Phil Pan 10 - 32 x 7/8
12.	90717022	Tubing, 3/8" Fuel
13.	90706056	Washer, Flat #10

Yoke Tilt Assy.



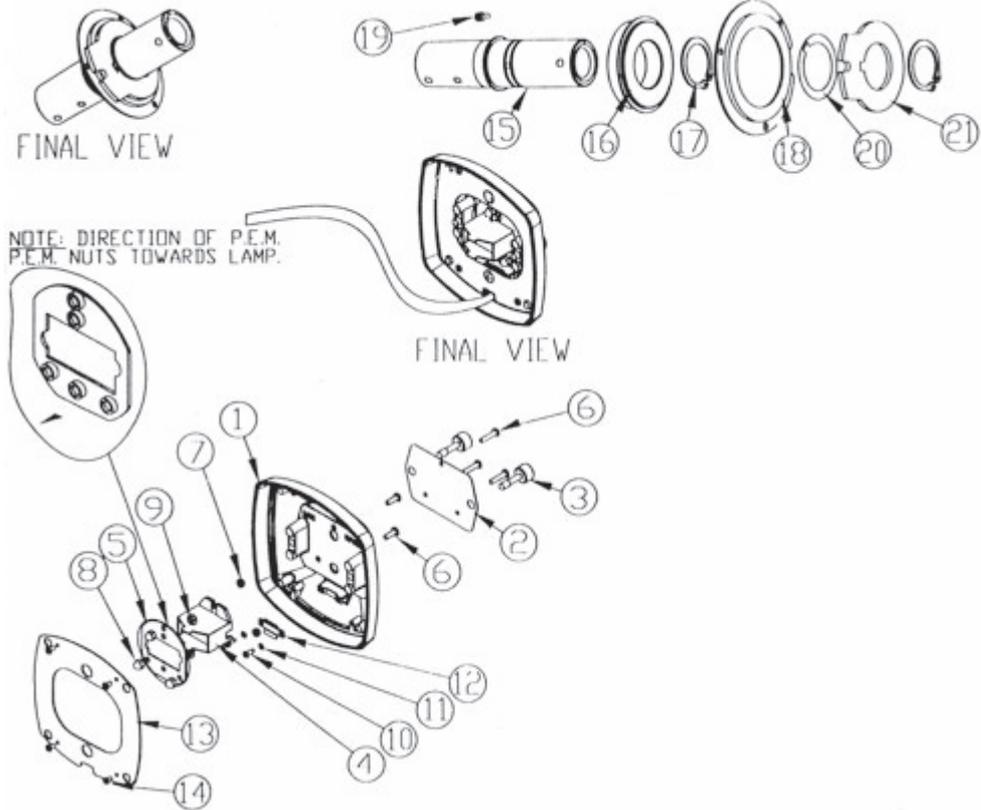
1.	80071276	Yoke Assy.
2.	99260158	Bracket, Tilt Bearing Left
3.	99260173	Bracket, Ignitor Board
4.	90709036	Screw, Phil Truss #8 x 3/8
5.	90709121	Screw, Phil Truss 8 - 32 x 3/8
6.	90408010	Terminal Block, Molex
7.	90703023	Keps Nut 8 - 32
8.	80060002T	Board, Ignitor 575
9.	90709039	Screw, Phil Pan 6 - 32 x 7/16

Yoke Pan Assy.



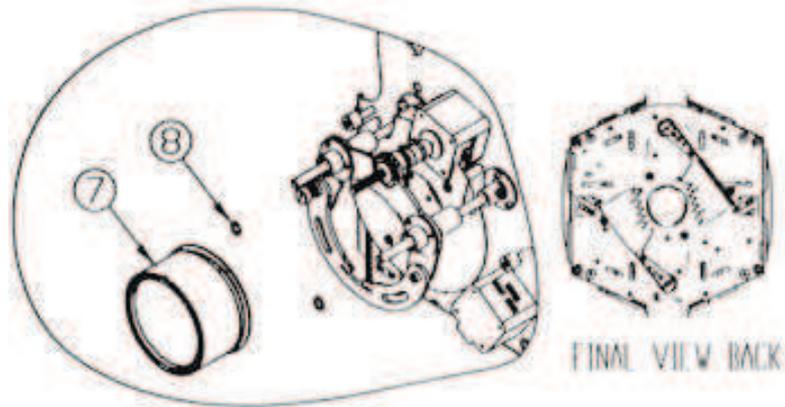
1.	80071239	Bracket, Top Yoke
2.	99260259	Shaft, Pan Tube
3.	90709020	Screw, Phil Pan 10 - 32 x 3/8
4.	99260250	Cap, Bearing Support
5.	80470161	Wire Harness, Main Electrical Board
6.	80470150	Wire Harness, Ignitor
7.	90708005	Screw, Socket Flathead 8 - 32 x 3/8
8.	90708009	Screw, Socket Flathead 10 - 32 x 1/2
9.	90709121	Screw, Phil Truss Head 8 - 32 x 3/8
10.	90410023	Cable Clamp, 3/16" Nylon
11.	90703023	Nut, Keps 8 - 32
12.	99330007	Tie Wrap

Lamp Cap, Tilt Bearing Assy.

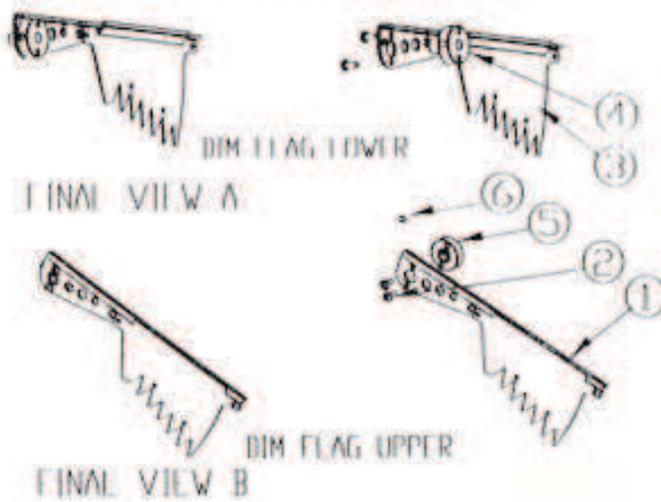


1.	90411023	Cap, Heatsink Studio Spot
2.	99310292	Label, Lamp Cap
3.	90705024	Thumbscrew, 1/4 Hex With Countersink
4.	80470149	Wire Harness, Lamp Socket
5.	99080078	Plate, Lamp Adjust
6.	90709090	Screw, Phil Pan 8 - 32 x 1/2
7.	90701002	Spring, #88
8.	90703055	Nut, Cap 8 - 32
9.	90703023	Nut, Keps 8 - 32
10.	90709016	Screw, Phil Pan #6 x 3/8
11.	90706012	Washer, Flat #10
12.	85000082	Strain Relief, Aluminum With Wings
13.	99220013	Plate, End Cap
14.	90709063	Screw, Phil Pan 8 - 32 x 3/4
15.	99140010	Tube, Tilt Long With Shoulder
16.	90719068	Bearing
17.	90701071	Retaining Ring, Zinc
18.	99260250	Cap, Bearing Support
19.	90707045	Socket Cap 6 - 32 x 1/4
20.	90706058	Washer, Spring Stainless
21.	85000137	Tilt Stop

Spot: Dim Flags

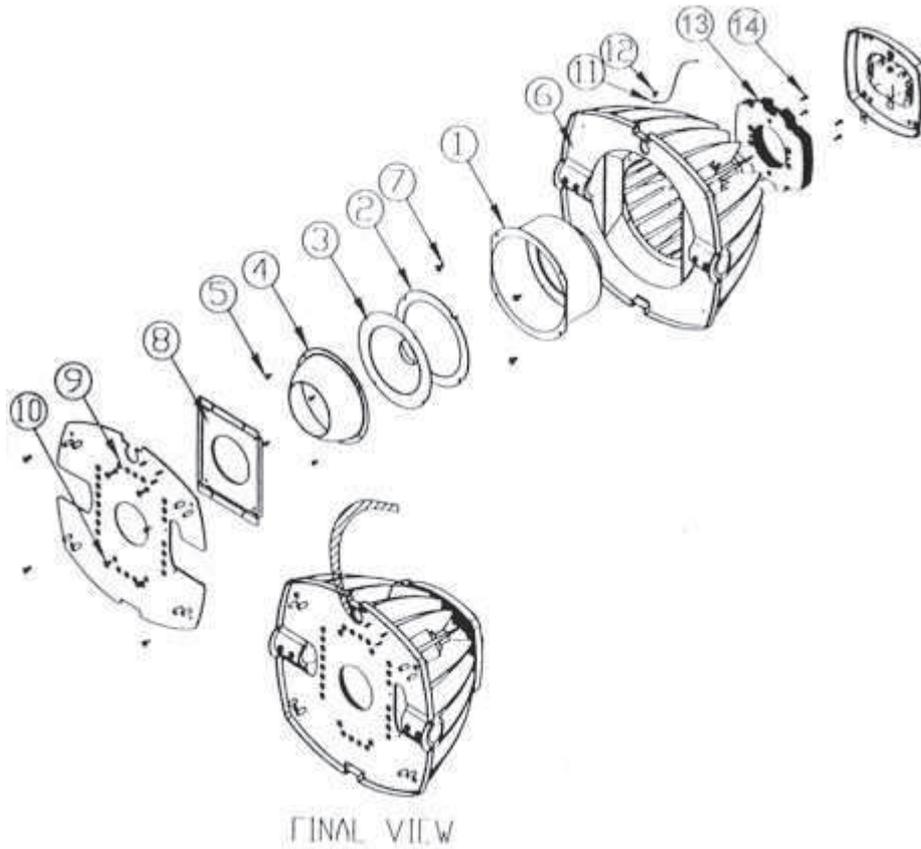


TOP VIEW SHOWN ONLY FOR ASSY OF LENS.



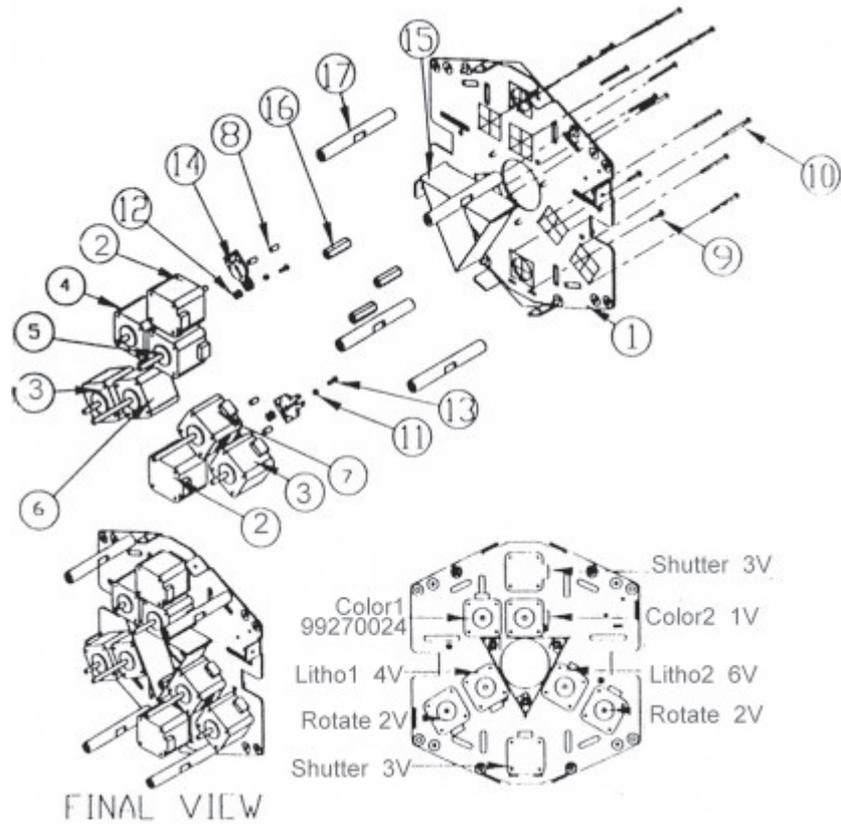
1.	80560018	Flag, Dim/Strobe Upper Assy.
2.	90709118	Screw, Phil Pan4 - 40 x 5/16
3.	80560017	Flag, Dim/Strobe Lower Assy.
4.	99400035	Hub, Dim/Strobe Flag
5.	99400035	Hub, Dim/Strobe Flag
6.	90707091	Socket Set Screw 8 - 32 x 1/4
7.	39060002	Lens Assy, 18 Degree
8.	90701139	Clip, Retaining Ring 1/4" Grooveless

Spot: Reflector & Heatsink Assy.



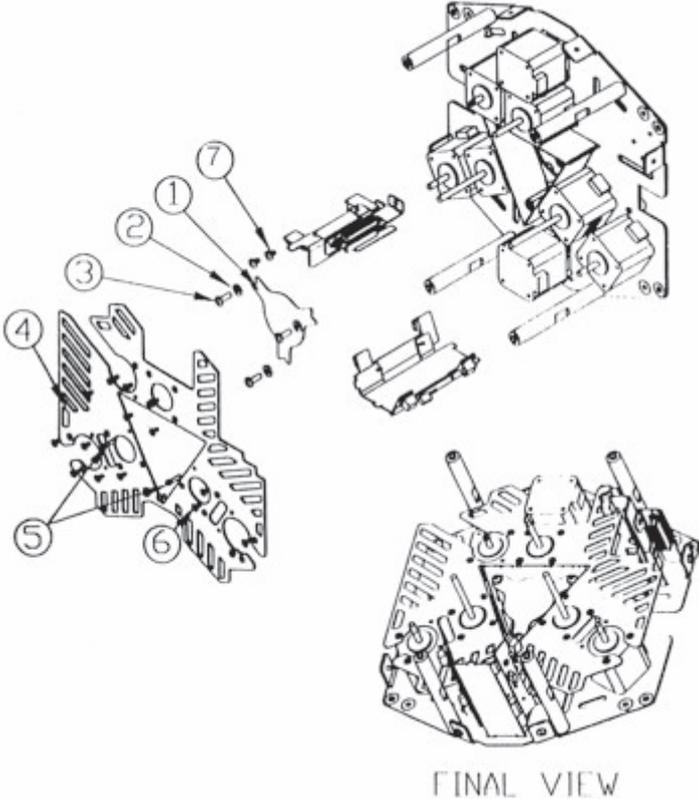
1.	80071291	Housing, Reflector Can
2.	90702119	Spacer, Reflector
3.	99130016	Reflector, Rear
4.	99130013	Reflector, Front
5.	90709113	Screw, Phil Low Truss 4 - 20 x 5/16
6.	80071217	Heatsink, Reflector
7.	90709016	Screw, Phil Pan #6 x 3/8
8.	80580024	Heat Filter
9.	80071398	Plate, Hot
10.	90711034	Screw, Phil Flat #8 x 3/8
11.	90409024	Safety Cable With Clip
12.	90701003	Rivet, #52
13.	80071272	Counterweight, Heatsink Assy.
14.	90709079	Screw, Phil Pan 6 - 32 x 3/8

Spot: Optical Module Base



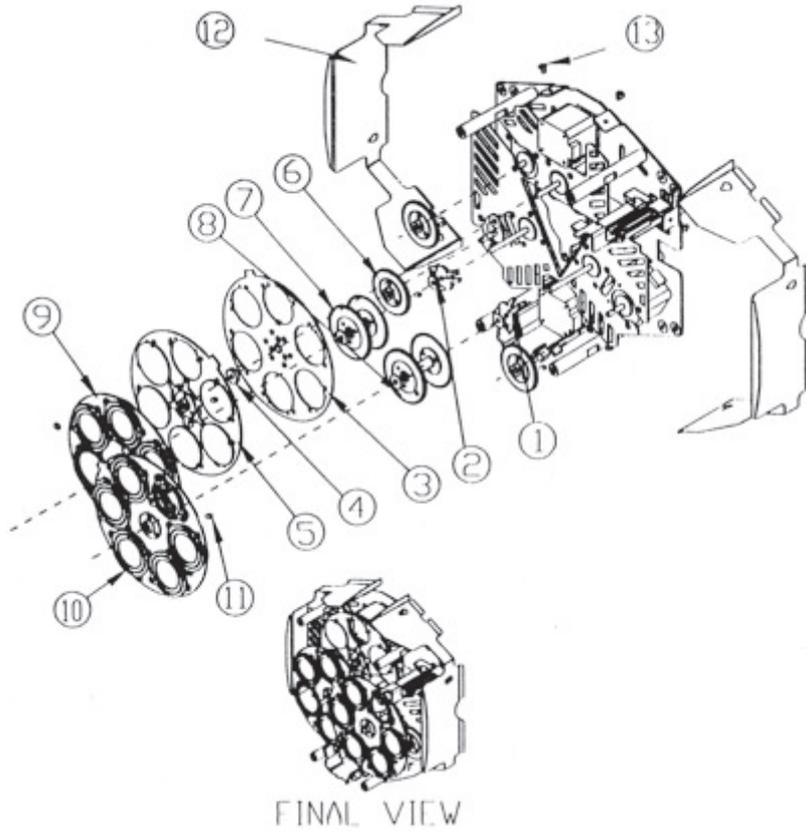
1.	99080081	Plate, Motor Optical Module
2.	99270071	Motor, 3V
3.	99270070	Motor, 2V
4.	80140024	Motor, Cut Shaft
5.	99270072	Motor, 1V
6.	99270073	Motor, 4V
7.	99270074	Motor, 6V
8.	90702118	Spacer 5/16 Round #4 x 3/8
9.	90709039	Screw, Phil Pan 6 - 32 x 7/16
10.	90711030	Screw, Phil Flat 4 - 40 x 1 3/8
11.	90702122	Standoff, Motor Damper
12.	90706032	Washer, #4 Flat
13.	90707035	Socket Cap, 4 - 40 x 3/8
14.	80140026	Damper, Motor Brake Assy.
15.	99130015	Reflector, Heat/Light
16.	90702102	Standoff, Diffusion Lens Mount
17.	90702100	Standoff, Optical Module

Spot: Optical Module Mid



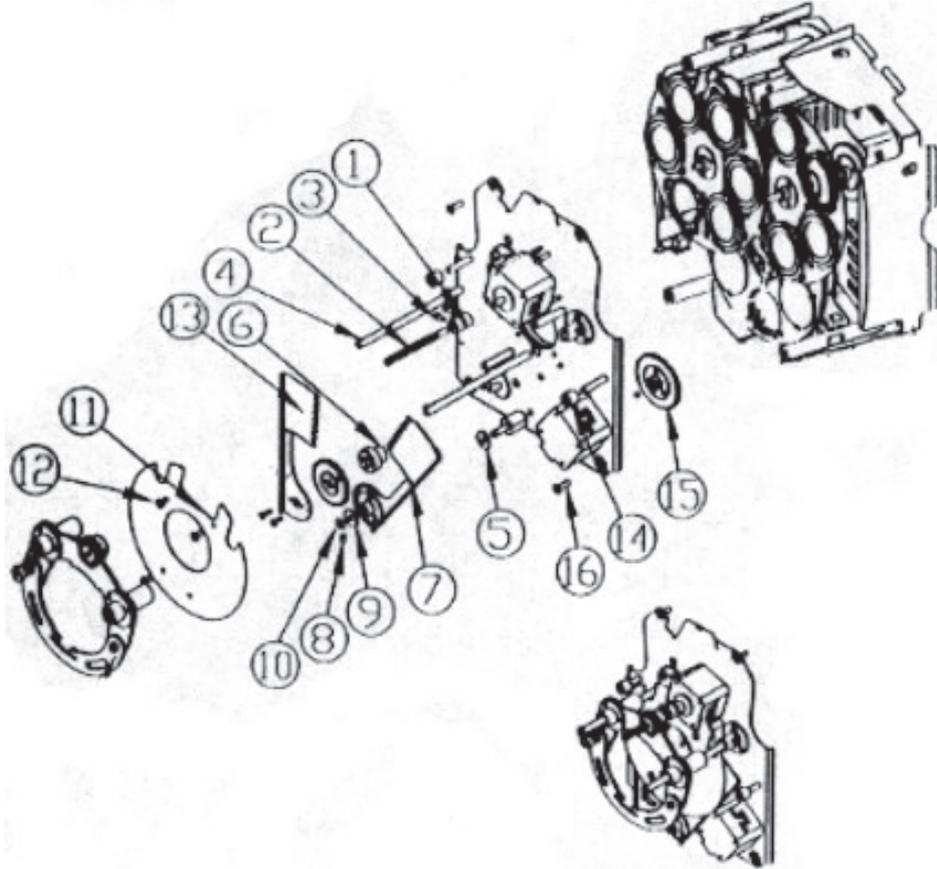
1.	80530035	Diffusion Glass
2.	90706009	Washer, #8 Flat
3.	90709025	Screw, Phil Pan 8 - 32 x 3/8
4.	90411047	Heatsink, Motor Optical Module
5.	90707036	Socket Cap, 4 - 40 x 1/4
6.	90711003	Screw, Phil Flat 4 - 40 x 1/4
7.	90709024	Screw, Phil Pan #8 x 1/4

Spot: Optical Module Wheels



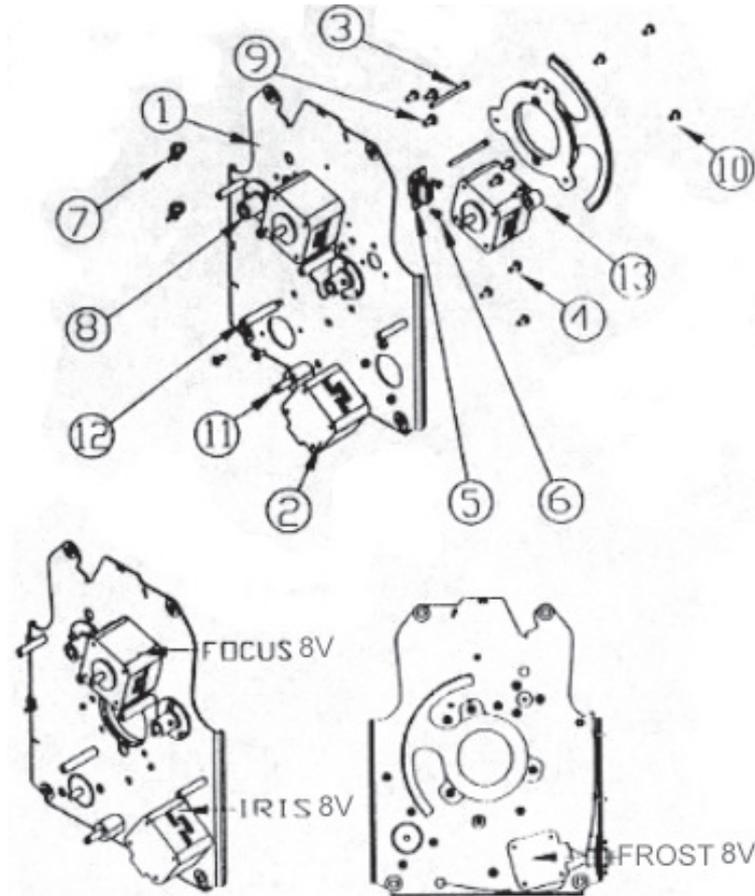
1.	80140026	Damper, Motor Brake Assy.
2.	90706083	Washer, Thrust .050
3.	80190041	Wheel, Color Assy. Lower
4.	90706086	Washer, Thrust .140
5.	80190040	Wheel, Color Assy. Upper
6.	99430018	Gear, 45 Tooth With Hub
7.	99430019	Gear, Drive Assy. Litho Lower
8.	99430020	Gear, Drive Assy. Litho Upper
9.	80190038	Wheel, Litho Assy. Lower
10.	80190039	Wheel, Litho Assy. Upper
11.	90707090	Set Screw, Socket 8 - 32 x 1/8
12.	80071243	Light Block, Optical Module
13.	90709024	Screw, Phil Pan #8 x 1/4

Spot: Optical Module Front



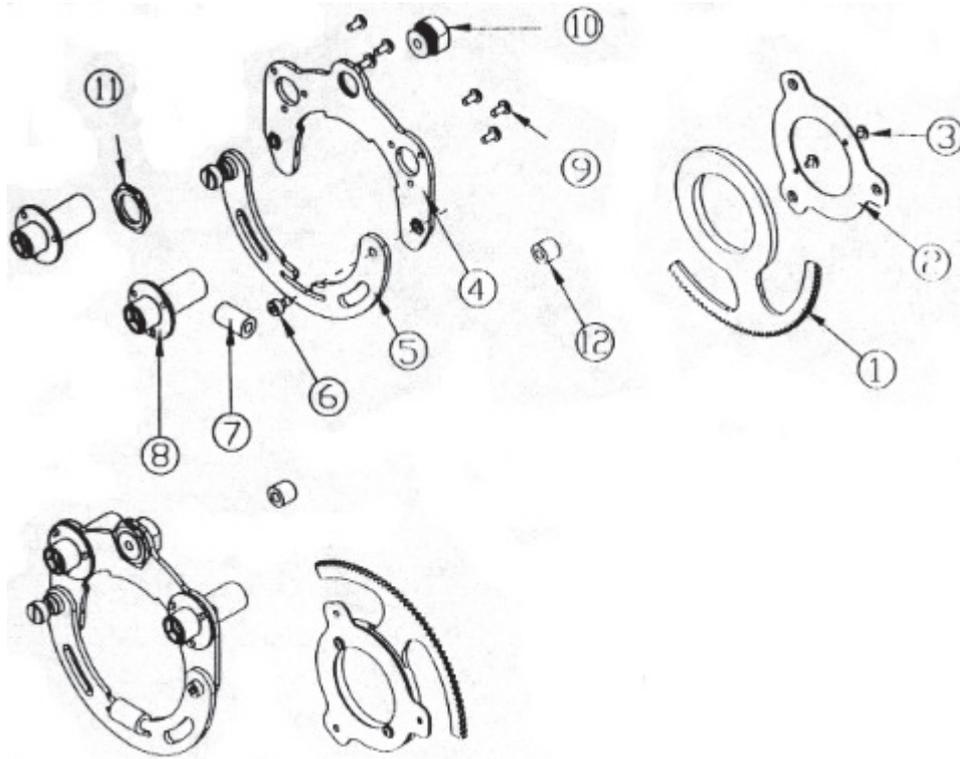
1.	90701149	Coupler, Slim Line .88
2.	90721006	Screw, Focus Drive .280 Shank
3.	90707045	Socket Cap 6 - 32 x 1/4
4.	80071233	Shaft, Linear Slide
5.	90702113	Spacer, Frost Flat .060
6.	99400024	Hub, Frost Flag Standoff
7.	80560014	Frost Flag Left Assy.
8.	90707090	Set Screw, Socket 8 - 32 x 1/8
9.	90706083	Washer, Thrust .050
10.	90701105	Clip, Retaining Ring E-Style
11.	80071260	Plate, Aperture Light Block
12.	90709135	Screw, Phil Pan With Star washer 6 - 32 x 5/16
13.	80560016	Frost Flag Assy. Right, Flush Gear Mount (gear 99430022)
14.	90717024	Tubing, Red Silicone 3/16" ID
15.	99430041	Gear, 45 Tooth With Hub (Iris)
16.	90709136	Screw, Phil Pan With Star Washer 8 - 32 x 5/16

Spot: Iris Assy.



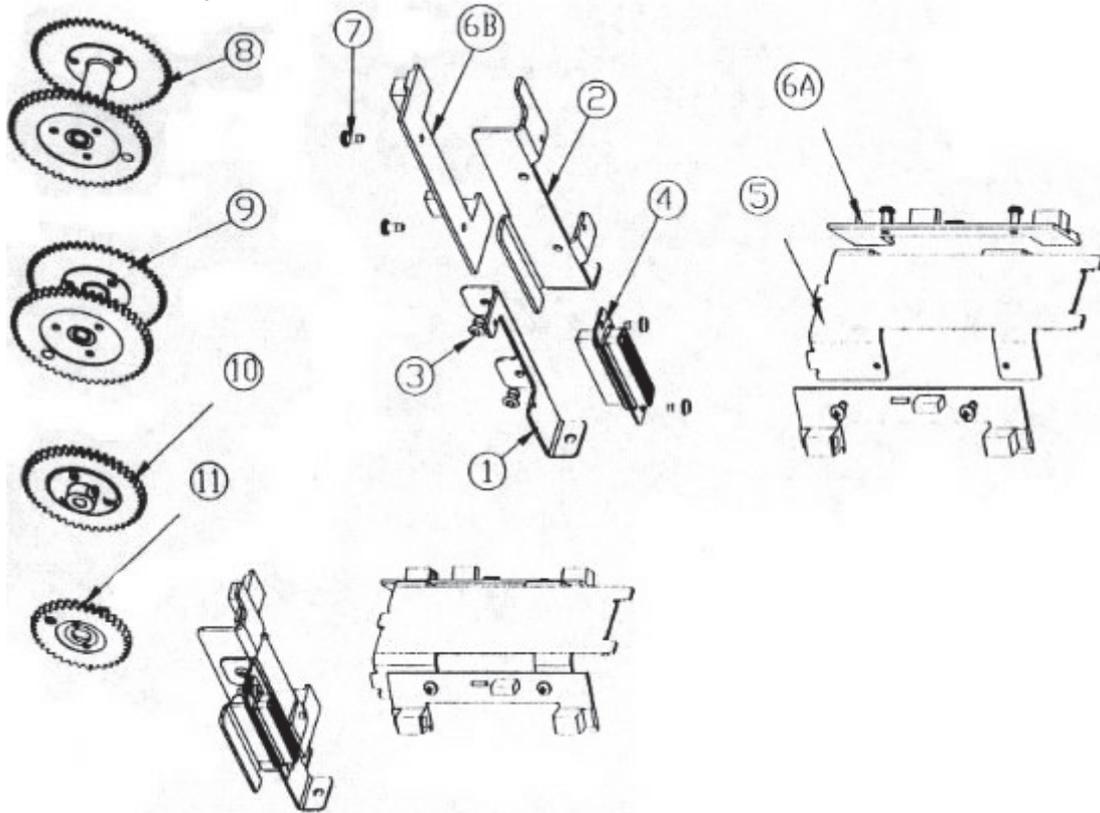
1.	80071390	Plate, Lens/ Frost Assy.
2.	99270026	Motor, 8V
3.	90707052	Socket Cap, 4 - 40 x 1 3/8
4.	90709118	Screw, Phil Pan 4 - 40 x 5/16
5.	80470163	Wire Harness, Upper Motors
6.	90709030	Screw, Phil Pan #4 x 1/4
7.	99330007	Tie Wrap
8.	80071259	Collar, Mount Linear Slide
9.	90709135	Screw, Phil Pan With Star Washer 6 - 32 x 5/16
10.	90709012	Screw, Phil Pan 6 - 32 x 1/4
11.	99260147	Shaft, Frost Flag Mount
12.	90702114	Standoff, 6 - 32 x 1.25 x 1/4 Round
13.	90717024	Tubing, Red Silicone

Spot: Focus Mount



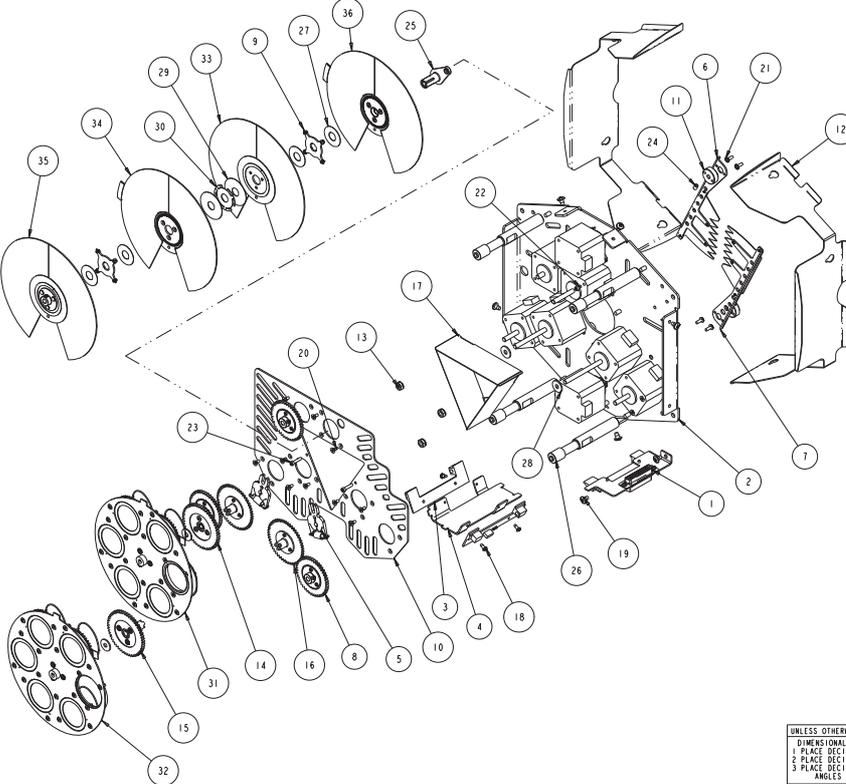
1.	99290018	Iris
2.	80071250	Plate, Iris Mount
3.	90709139	Screw, Phil Pan With Washer 4 - 40 x 3/16
4.	80071252	Plate, Lens Tube Mount
5.	99260224	Plate, Compression Lens Tube
6.	90710013	Screw, Hex Shoulder 8 - 32
7.	90717033	7/16 X 3/16 50 Dur BLK SILICONE
8.	80450053	Mount, Linear Bearing Assy.
9.	90709135	Screw, Phil Pan With Star Washer 6 - 32 x 5/16
10.	90703052	Nut, Lead Screw
11.	90703053	Nut, Brass 5/8 - 24 x 3/32
12.	90717024	Tubing, Red Silicone 3/16 ID

Spot: Rotate Gears, Sensor Brackets



1.	80071241	Bracket, Sensor Color Wheel
2.	80071249	Bracket, 44 Pin Connector Mount
3.	90701091	Rivet, 1/8"
4.	80470162	Wire Harness, Lower Motors
5.	99260164	Bracket, Sensor Litho Wheel
6.	80010080	Board, Honeywell Sensor
7.	90709030	Screw, Phil Pan #4 x 1/4
8.	99430020	Gear, Drive Assy. Litho Upper
9.	99430019	Gear, Drive Assy. Litho Lower
10.	99430041	Gear, 45 Tooth With Hub
11.	99430022	Gear, Overmolded 36 Tooth

SP500



REV.	DESCRIPTION	DATE	ENG	ECO #	APPR
A	RELEASED AT REV 'A'	16FEB00	LR		
B	REPLACE TORQUE ARM WITH MIP VERSION	04OCT00	LR	#295	RV
C	REPLACE WHEEL ASSY'S WITH SINGLE RACE VERSION: 80190039-SP058 NOW: 80200056-SP016-UPPER 80200023-SP499 NOW: 80200054-SP014-DIFFSN	15JAN03	LR	#1172	
D	CHANGE ITEM 27 TO 90706106 & ITEM 30 TO 90706104	07JAN08	KLB		CL

ANCILLARY DRAWING

ITEM NO.	QTY.	FILENAME	PART NO.	REV	DESCRIPTION
36	1	SP505	CHARTED	A	WHEEL, COLOR MAGENTA LOWER CM575 / ES-1
35	1	SP507	CHARTED	A	WHEEL, COLOR CYAN UPPER CM575 / ES-1
34	1	SP506	CHARTED	A	WHEEL, COLOR CYAN LOWER CM575 / ES-1
33	1	SP508	CHARTED	A	WHEEL, COLOR ASSY. MAGENTA UPPER CM575 / ES-1
32	1	SPA016	80200056	-	WHEEL, ASSY. LITHO UPPER SS575 SR
31	1	SPA014	80200054	-	WHEEL, ASSY LITHO W/DIFFSN SS575 SR
30	1	SP536	90706104	A	WAVE WASHER, 6 FINGER, .406 X 1.28
29	2	SP537	90706107	I	WASHER, 1.35 X .41 C X .020 TEFLON
28	4	SP132	90706083	A	WASHER, THRUST, OPTICAL MODULE ASSY
27	4	SP535	90706106	-	WASHER, .41 ID X 1.00 OD X .010 TEFLON
26	4	SP013	90702100	B	STANDOFF F/F, OPTICAL MODULE
25	1	SP532	99260311	A	SHAFT, TORQUE ARM ASSY CMT
24	2	SCREWB-32AS250FLAT-BZ	90707091	-	SCREW, B-32 SOCKET SET, 1/4 BZ FLAT PT
23	2	SCREWB-40AC380BZP	90707035	-	SCREW, 4-40 SOCKET CAP 3/8 ALLOY BZ PATCH
22	1	SCREWB-40AC180SS	90701035	-	SCREW, 4-40 SOCKET CAP 3/8 ALLOY BZ PATCH
21	4	SCREWB-40PP313W-BZ	90709118	-	SCREW, 4-40 PHIL PAN 5/16 BZ SEMS
20	15	SCREWB-40PF250SBZ	90711003	-	SCREW, 4-40 PHIL FLAT 1/4 W/S SBZ
19	8	SCREWB-18PP250BTYPE-BZ	90709024	-	SCREW, #8 PHIL PAN 1/4 B TYPE SBZ
18	4	SCREWB-20PP250BTYPE-SS	90709030	-	SCREW, #4 PHIL PAN 1/4 B TYPE SS
17	3	SP352	99130015	E	REFLECTOR, HEAT/LIGHT STUDIO SPOT
16	2	SP471	99430051	B	OUTDRIVE, ASM., W / STAMPED GEAR
15	1	SP473	99430049	A	OUTDRIVE, ASM., UPPER LITHO
14	1	SP472	99430050	-	OUTDRIVE, ASM., LOWER LITHO
13	3	NUT8-32KEP	90703023	-	NUT, 8-32 KEPS NUT SZ
12	2	SP293	80071243	C	LIGHT BLOCK, OPTICAL MODULE
11	2	SP452	99400035	A	HUB, DIM/STROBE FLAG, 8-32 THD
10	1	SP357	90411047	K	HEATSINK, MOTOR OPTICAL MODULE
9	2	SP534	99430055	-	GEAR, ASSY 4 AXLE SPIDER CMT 575
8	3	SP305	99430018	-	GEAR, 45 TOOTH, W/HUB ASSY
7	1	SP203	80560018	B	FLAG, DIM/STROBE UPPER ASSY (FLAT)
6	1	SP202	80560017	B	FLAG, DIM/STROBE LOWER ASSY (BENT)
5	2	SP207	80140022	-	DAMPER, MOTOR BRAKE ASSY RTP
4	1	SP282	99260164	B	BRACKET, SENSOR LITHO WHEEL
3	2	SP125	80050029	I	BOARD, WIDE SENSOR TESTED PROD. STC
2	1	SP459	NA	B	ASSY, MOTOR MOUNT OPT MOD
1	1	SP290	-	-	ASSEMBLY, SENSOR BOARD MOUNT COLORWHEELS

UNLESS OTHERWISE SPECIFIED: RELEASE DATE: 16FEB00
 DIMENSIONAL TOLERANCES: ENG: D FRANKLIN
 1 PLACE DECIMALS ± .010
 2 PLACE DECIMALS ± .005
 3 PLACE DECIMALS ± .002
 ANGLES ± 1.0°
 FINISH: CHARTED
 MATERIAL: OPTICAL MODULE, LOWER ASSY SP575 CMT SVC
 MIP: NA
 FINISH: NA
 MIN. DRAFT: NA
 UNLESS OTHERWISE SPECIFIED: INTERPRET DIMENSIONS PER ASME Y14.5M-1994
 FLATNESS: NA
 THICKNESS: NA
 VOLUME: NA
 DRAWING USES THIRD ANGLE PROJECTION
 DO NOT SCALE DRAWING
 SCALE: 0.500
 SHEET: 1 OF 1
 High End 2209 WEST BRAKER LANE
 AUSTIN, TEXAS 78758
 (512) 832-0363
 FAX (512) 832-6542
 http://www.highend.com
 LIGHTWAVE RESEARCH

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