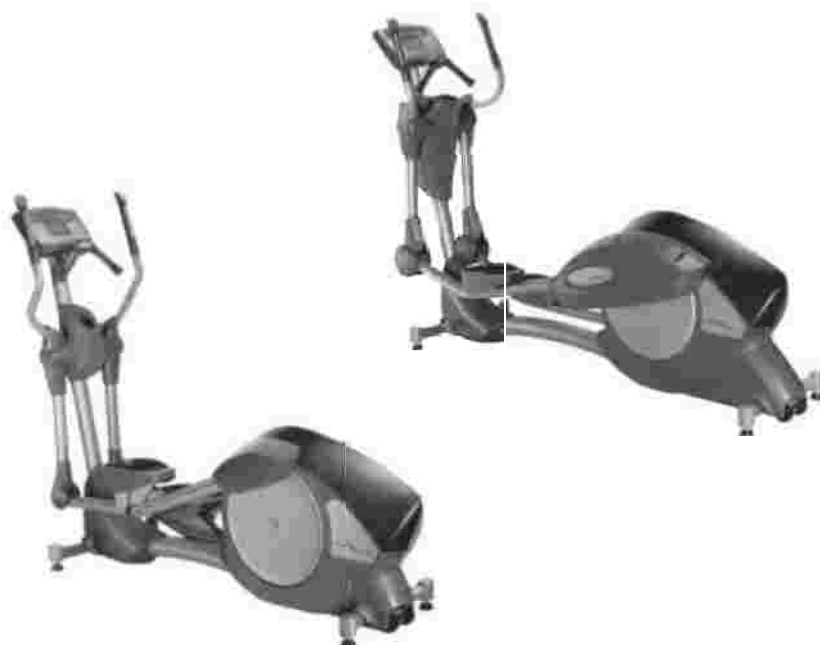


Be Strong.™

E916 and EV916 Service Manual



Important—Please Read

This manual is intended for authorized Nautilus® or Nautilus® certified service personnel and not for the consumer. There are no user serviceable parts. Servicing of the Nautilus® Commercial Series Elliptical by other than authorized Nautilus® or Nautilus® certified service personnel may result in voiding of the warranty.

If you are a consumer and require technical support to resolve a problem with your Nautilus® Commercial Series Elliptical, please call Nautilus® Customer Service at 800-864-1270 (USA) or +41 460 77 88 (outside USA).

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IMPORTANT SAFETY INFORMATION: *SAVE THESE INSTRUCTIONS*

The following definition applies to the word "Warning" found throughout this guide:

WARNING - Used to call attention to POTENTIAL hazards that could result in personal injury or loss of life.

Read All Instructions



WARNING

**THIS SYMBOL APPEARING THROUGHOUT THIS MANUAL MEANS
PAY ATTENTION! BE ALERT! YOUR SAFETY IS INVOLVED!**

1. Read, understand and carefully follow all warnings, instructions and procedures in this manual. Failure to do so can produce a serious electrical shock hazard or other serious injury.
 2. The external power supply should always be unplugged from the AC wall outlet before removing or installing parts. Never make adjustments or repairs while an exercise program is in progress.
 3. Close supervision is necessary whenever the machine is being used or serviced whenever children, invalids, or disabled persons are in the vicinity.
 4. Keep hands away from all moving parts. Keep feet on the pedals while exercising or testing the machine.
 5. Do not operate the machine with the side covers removed, or outdoors.
 6. Use this machine only for its intended use as described in this Manual. Do not use parts, attachments, or accessories other than those provided by Nautilus, Inc.
 7. Do not use the external power supply if it has a damaged cord or plug, it is not working properly, if it has been dropped or damaged, or dropped in water. Contact our Technical Service Department to arrange for the return of damaged parts.
 8. To avoid potential safety and electrical problems, replace with manufacturer's specified parts only.
 9. Connect the external power supply to a properly grounded AC wall outlet.
 10. Keep all cords away from heated surfaces.
 11. To disconnect the external power supply, remove the plug from the AC wall outlet.
 12. Do not let liquid enter the console. If liquid does enter the console, the console must be inspected and tested for safety by an approved technician before it can be used again.
 13. Never drop or insert any object into any opening on the machine.
 14. Keep the area underneath and around the machine clear.
 15. Do not operate where aerosol (spray) products are being used.
 16. Always wear insulated gloves when handling batteries.
 17. Do not crush, incinerate, or dismantle the battery.
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WARNING

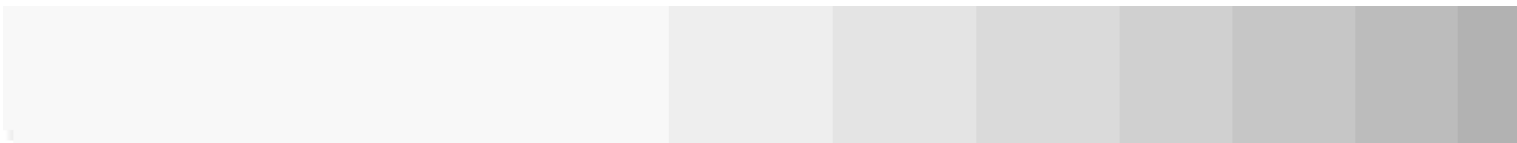
THE ELECTROLYTE CONTAINS SULFURIC ACID, WHICH CAN CAUSE SERIOUS DAMAGE TO EYES AND SKIN. SHOULD THIS OCCUR, FLUSH PROFUSELY WITH WATER AND SEEK MEDICAL ATTENTION.
18. The safety level provided by the design of this equipment can only be maintained when the equipment is regularly examined for damage and wear. Inoperable components should be replaced immediately or the equipment be put out of use until it is repaired.
 19. Failure to follow the guidelines may compromise the effectiveness of the exercise experience, expose you (and possibly others) to injury, and reduce the longevity of the machine. Follow all training instructions listed in the manual and/or on the machine.
- Failure to follow the conditions set forth below shall limit, to the extent allowed by law, Nautilus, Inc. responsibility for the safety, reliability, and performance of this equipment.
- The operator manual must be read in full by each owner and trainer before the product is first used. Each user must be instructed in the proper use of the elliptical and its accessories.
 - The equipment must be used in accordance with the instructions for use.
 - Only Nautilus-trained or Nautilus-authorized personnel should carry out assembly operations, extensions, readjustments, modifications, or repairs.
 - For further information or instruction on use, maintenance or specifications, please contact your Authorized Nautilus Fitness Dealer or Service Technician.

Specifications - EV916 Elliptical Trainer with MyStride® Technology

Electrical	Power	Cordless, or 108-132VAC, 50/60 Hz, 20 watts maximum (operation with charger connected)
	Battery Type	6VDC sealed lead-acid
	Battery Charge Time	8 hours to full charge, starting with discharged battery
	Display	C51 blue/white LCD with backlight Tactile membrane keypad
Physical	Length	94 in. (239 cm)
	Width	28 in. (71 cm)
	Height	62 in. (157.5 cm)
	Weight	350 lb. (147 kg)
	Max User Weight Supported	400 lb. (181 kg)
	Belt(s)	Two: 10-groove drive belt and 6-groove alternator belt
Functionality	Ellipse Stride Length	Dynamically variable up to 30" (76 cm)
	Number of Functions	Ten: Heart rate, elapsed time, calories burned, calories burned per hour, watts, METS, resistance level, rpm, distance, and workout profile
	Heart Rate Monitoring	Integrated heart rate monitoring system with polar-compatible wireless and contact HR
	Workout Programs	Twelve: Quick Start, Manual, Fat Burner, Calorie Burner, Intervals, HR Zone Trainer, multi-stage Fit Test®, Custom Intervals, HR Intervals, Random Play
	Resistance Range	Twenty: 20 watts (level 1, 20 rpm) to 300 watts (level 20, 100 rpm)
	Language Options	English, German, French, Spanish, Italian, Dutch, Portuguese
	C-Safe Compatible	Level 2 compatible. Owner/manager will be able to customize console.
Environmental	Operating Temperature	50–90 °F (10–32 °C)
	Storage Temperature	-25–50 °C
	Operating Humidity (non-condensing)	3–95% relative humidity
	Storage Humidity (non-condensing)	3–95% relative humidity

Specifications - E916 Elliptical Trainer with SyncLink™ Stride Technology

Electrical	Power	Cordless, or 108-132VAC, 50/60 Hz, 20 watts maximum (operation with charger connected)
	Battery Type	6VDC sealed lead-acid
	Battery Charge Time	8 hours to full charge, starting with discharged battery
	Display	C51 blue/white LCD with backlight Tactile membrane keypad
Physical	Length	82 in. (208 cm)
	Width	28 in. (71 cm)
	Height	62 in. (157.5 cm)
	Weight	325 lb. (147 kg)
	Max User Weight Supported	400 lb. (181 kg)
	Belt(s)	Two: 10-groove drive belt and 6-groove alternator belt
Functionality	Ellipse Stride Length	18" (46 cm)
	Number of Functions	Ten: Heart rate, elapsed time, calories burned, calories burned per hour, watts, METS, resistance level, rpm, distance, and workout profile
	Heart Rate Monitoring	Integrated heart rate monitoring system with polar-compatible wireless and contact HR
	Workout Programs	Twelve: Quick Start, Manual, Fat Burner, Calorie Burner, Intervals, HR Zone Trainer, multi-stage Fit Test*. Custom Intervals, HR Intervals, Random Play
	Resistance Range	Twenty: 20 watts (level 1, 20 rpm) to 300 watts (level 20, 100 rpm)
	Language Options	English, German, French, Spanish, Italian, Dutch, Portuguese
	C-Safe Compatible	Level 2 compatible. Owner/manager will be able to customize console.
Environmental	Operating Temperature	50–90 °F (10–32 °C)
	Storage Temperature	-25–50 °C
	Operating Humidity (non-condensing)	3–95% relative humidity
	Storage Humidity (non-condensing)	3–95% relative humidity

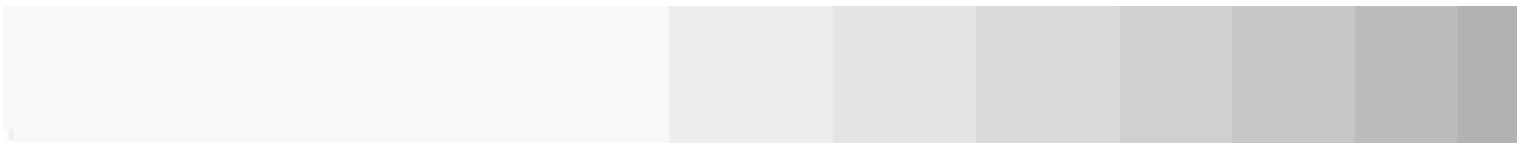


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Console Codes

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Overview

To enter a Service Mode, the unit must be in IDLE DISPLAY state or an ERROR. The service screens cannot be entered during a workout, paused or in a WARNING state. (If the unit is in a Warning state, you must press [CLEAR] before entering the Service Modes.) To access the console codes, press the Level Up button (▲), the group number code, and [ENTER]. Then use the arrow buttons to scroll through the menu options for each group. The procedures are outlined in the tables below.

There are six groups of Service Mode console codes: Defaults (codes starting with 2), Customize (codes starting with 3), Machine Status (codes starting with 4), Diagnostics (codes starting with 6), Maintenance Logs (codes starting with 7), and Change Machine (codes starting with 8). Each group of codes is defined below.

Defaults

You can customize several workout parameters on the E916/EV916 Elliptical with default values to conform to your individual requirements, including:

- % target heartrate (10-90%)
- age (10-99)
- workout time (5-99 min)
- workout level (1-20)
- weight (50-400 lbs. or 25-180 kg)

Refer to the following table to scan through and customize the settings:

Table 2–1. Defaults

Step No.	Press Keys	Display (What you will see)
1	▲, 2, ENTER	DEFAULTS
2	▼ or ▲	CHR PERCENT, AGE, TIME, LEVEL, WEIGHT
3	ENTER	Selected choice
4	▼ or ▲ (or numeric keypad)	Default value changes
5	ENTER	DEFAULTS
6	CLEAR	SELECT WORKOUT

Customize

You can customize several console settings on the E916/EV916 Elliptical with default values to conform to your individual requirements, including:

- resetting all configurable settings to factory defaults (see below)
- adjusting lower screen contrast (0-15)
- adjusting upper screen contrast (0-15)
- console language
- choosing type of heartrate inputs (description below)

Machine Status

- change units (USA units or metric units)
- cooldown time (1-10 min)
- maximum time limit (10-99 min or OFF)

Refer to the following table to scan through and customize the settings:

Table 2–2. Customize

Step No.	Press Keys	Display (What you will see)
1	▲, 3, ENTER	CUSTOMIZE
2	▼ or ▲	SET DEFAULTS, CONTRAST ADJ LOWER, CONTRAST ADJ UPPER, LANGUAGE, SELECT STATS*, HR INPUTS, CHANGE UNITS, COOL DOWN, MAX TIME LIMIT
3	ENTER	Selected choice
4	▼ or ▲ (or numeric keypad)	Default value changes
5	ENTER	CUSTOMIZE
6	CLEAR	SELECT WORKOUT

*The SELECT STATS menu display option is not active for the E916 and EV916.

Set Defaults – resets the machine to the factory defaults for all configurable values. Please note that selecting this option will require the machine to be reconfigured (see Change Machine section).

NOTE: All error and history counter data (Maint Hours, Distance, Workouts, Run Hours, Error Log, and QA ID Number) will be lost if Set Defaults is selected.

HR Inputs – enables the various heart rate inputs that can be used. Heart rate configurations include: Locked Inputs (both heart rate monitors are read until it detects a valid signal to lock on, at which point the other HR inputs are ignored), HR PRGM OFF, Both HR OFF, Hand Only, Telemetry Only, and Either Input (if one input is lost, then the other input may become active).

Change Units - changes all displayed data (service information and user data) to the selected units. Units are: Miles or Kilometers, MilesPerHour or KilometersPerHour, Pounds (LB) or Kilograms (KG), MinutesPerMile or MinutesPerKM.

Machine Status

Use the machine status codes to view maintenance information such as:

- maintenance hours
- machine type (Elliptical)
- console software version
- distance traveled
- number of workouts
- machine run-time hours

Refer to the following table to scan through and customize the settings:

Table 2–3. Machine Status

Step No.	Press Keys	Display (What you will see)
1	▲, 4, ENTER	MACHINE STATUS
2	▼ or ▲	MAINT HOURS, ELLIPTICAL [or other], CONS, DISTANCE, WORKOUTS, RUN HOURS
3	CLEAR	SELECT WORKOUT

Maint Hours – displays the number of hours (incremented every hour) the machine has been running. The start value is set under the Maintenance Logs service screen. (The start value can be set to any value—e.g. If the service tech had entered 100 in the Maintenance Logs service screen and there was 1 hour of running time on the machine, the value under this Maint Hours screen would read 101).

Machine Type – should display Elliptical. “NTM Config REQD” appears on the console if the software has been updated on the machine or the machine froze up and the power had to be cycled. The message also appears when the console assembly has been replaced and no configuration established. Configuring the machine will eliminate this message (see the table “Machine Configuration”).

Distance – displays the total distance in miles (or kilometers) of machine operation. This value is auto-incremented every 1/100th or 1/10th unit, depending on how many miles/km have accrued.

Workouts – displays the total number of workouts performed on the machine. This value is auto-incremented only if the user enters a workout and either completes the workout or presses the [STOP] key twice.

Run Hours – displays the total number of hours on the machine.

NOTE: The R&D options (codes starting with 5) are not used for servicing machines. Do not change these settings. If an R&D setting is inadvertently changed, it will reset when the machine is powered off and then back on.

Diagnostics

Use diagnostic codes to test various components of the machine such as the:

- tachometer
- alternator
- I/O
- sensor (for EV9.16 only)
- serial ports
- keypad
- display

Refer to the following table to scan through the diagnostic tests and view diagnostic information:

Table 2–4. Diagnostics

Step No.	Press Keys	Display (What you will see)
1	▲, 6, ENTER	DIAGNOSTICS
2	▼ or ▲	TACH TEST, ALT TEST, I/O TEST, A SENSOR B, SERIAL PORTS, KEY TEST, DISPLAY TEST
3	ENTER	Selected choice
4	CLEAR	DIAGNOSTICS
5	CLEAR	SELECT WORKOUT

Tach Test – performs a tachometer test. On the left hand side of the display the target rate of 2000 rpm is displayed. On the right hand side of the display the actual rpm is displayed. If the actual rpm is above the target rate, then the alternator field turns on (the level increases). If the actual rpm is below the target rate, then the alternator field shuts off (the level decreases).

Alt Test – performs an alternator test. By pressing the level up key, the alternator field will turn on and the steps will become harder to rotate. By pressing the level down key, the alternator field will turn off and the steps will become easier to rotate.

I/O Test – The AUX and B+ values represent the current and voltage delivered from the alternator respectively. AUX is scaled by 1000 and B+ is scaled by 300. These values will increase with the speed of the alternator (note that both values will reach 0 if the alternator is left at rest). The "---" string is displayed at all times since the ellipticals do not require a magnetic key.

A Sensor B – is used only on the EV9.16. The A Sensor B diagnostic screen ensures the optical detector is functional. The A value is displayed on the left hand side of the upper display (B is not used on the EV9.16). Under normal conditions, the A value should toggle between the "0" and "1".

Serial Ports - tests the serial ports (UARTS) for proper functionality. The tech can choose from either the CSAFE-1 Loopback or TM Loopback tests. Both of these tests result in PASS or FAIL. Please note that a null modem must be used to perform these tests.

Key Test - tests all of the user interface keys. Once a key is pressed, its value will show up on the display screen. After all keys have been pressed and are functional, a PASS message appears on the display.

Display Test - will test all segments on both the top and bottom displays.

Maintenance Logs

The MAINTENANCE LOGS settings allow you to view the quality assurance data, the machine's error log, and reset the time between service and maintenance calls.

Refer to the following table to scan through the Maintenance Logs tests and view diagnostic information:

Table 2–5. Maintenance Logs

Step No.	Press Keys	Display (What you will see)
1	▲, 7, ENTER	MAINTENANCE LOGS
2	▼ or ▲	QA ID NUMBER*, MAINT HOURS, ERROR LOG
3	ENTER	Selected choice
4	CLEAR after viewing (or reset)	MAINTENANCE LOGS
5	CLEAR	SELECT WORKOUT

* The QA ID NUMBER option is not used for servicing machines in the field.

The following tables provide the steps for resetting the time between service or maintenance calls, and for viewing the error log:

Table 2–6. Reset Maintenance Hours

Step No.	Press Keys	Display (What you will see)
1	▲, 7, ENTER	MAINTENANCE LOGS
2	▼, ▼	MAINT HOURS
3	ENTER	MAINT HOURS ####
4	CLEAR to exit after viewing, or 0, ENTER to reset	MAINTENANCE LOGS
5	CLEAR	SELECT WORKOUT

Maint Hours – lets the service technician enter a value representing the maintenance hours.

Table 2–7. Error Log

Step No.	Press Keys	Display (What you will see)
1	▲, 7, ENTER	MAINTENANCE LOGS
2	▼, ▼, ▼	ERROR LOG
3	ENTER	NO ERROR or the highest priority error
4	▼ or ▲	Scrolls through the error log list
5	CLEAR	SELECT WORKOUT

Error Log – displays fatal errors accrued on the system. The log holds up to 8 error entries. Errors are handled in two ways:

- First, as a non-fatal Warning, which will display the error response text but continue system operation until you press the [CLEAR] key. Warnings are not logged in the Error Log.
- The second way is a fatal Error, which will stop the exercise and return the system to an idle intensity state. The console will display the error response and a number showing how many errors were logged during the specific event. (Some errors trigger multiple responses). To view the non-displayed errors, access the Error Log. The unit will not let you restart the program unless power has been turned off and then back on.

Once you access the Error Log, you can cycle the display through 8 entries by using the up/down keys. Each entry displays the error label, its position in the log (1-8), and the time (hours) the error occurred. Note that the most recent error might not be in log position 1—as the number of errors exceeds 8, the newest error will overwrite the oldest. In addition, if a new error is identical to the log's previous entry, the system checks the time. If the time is the same (within minutes), the error is not logged, to help prevent redundant errors.

The only way to reset the Error Log is to reconfigure the machine.

Machine Configuration

Use Machine Configuration to change the machine type. The choices are:

- Stepper
- StepMill
- Bike
- Elliptical

In general, only the Elliptical machine type is used for the EV916 or E916.

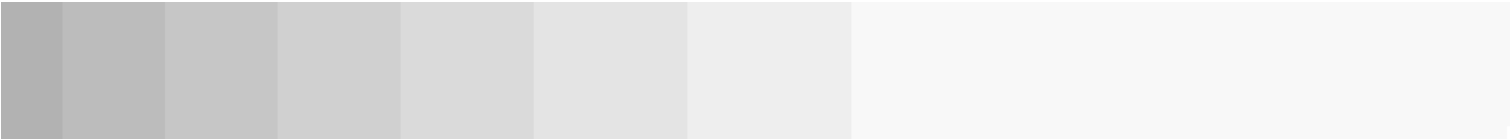
Refer to the following table to scan through and customize the settings:

Table 2–8. Machine Configuration

Step No.	Press Keys	Display (What you will see)
1	▲, 8, ENTER	CHANGE MACHINE
2	ENTER	ELLIPTICAL
3	▼ or ▲	NTM CONFIG ROD, STEPPER CL, STEPMILL, ELLIPTICAL, BIKE
4	ENTER	Selects your choice
5	CLEAR	SELECT WORKOUT

NTM Config ROD – resets the machine to a "blank" configuration. The configuration must be set to Elliptical (or other machine type) for the workout functions to operate.

Stepper CL – configures the machine as a cordless Stepper. Please note that there is a sense line to let the software know if the system is a Stepper PT (corded); if the system is indeed a Stepper PT, then Stepper PT will appear in the screen instead of Stepper CL.

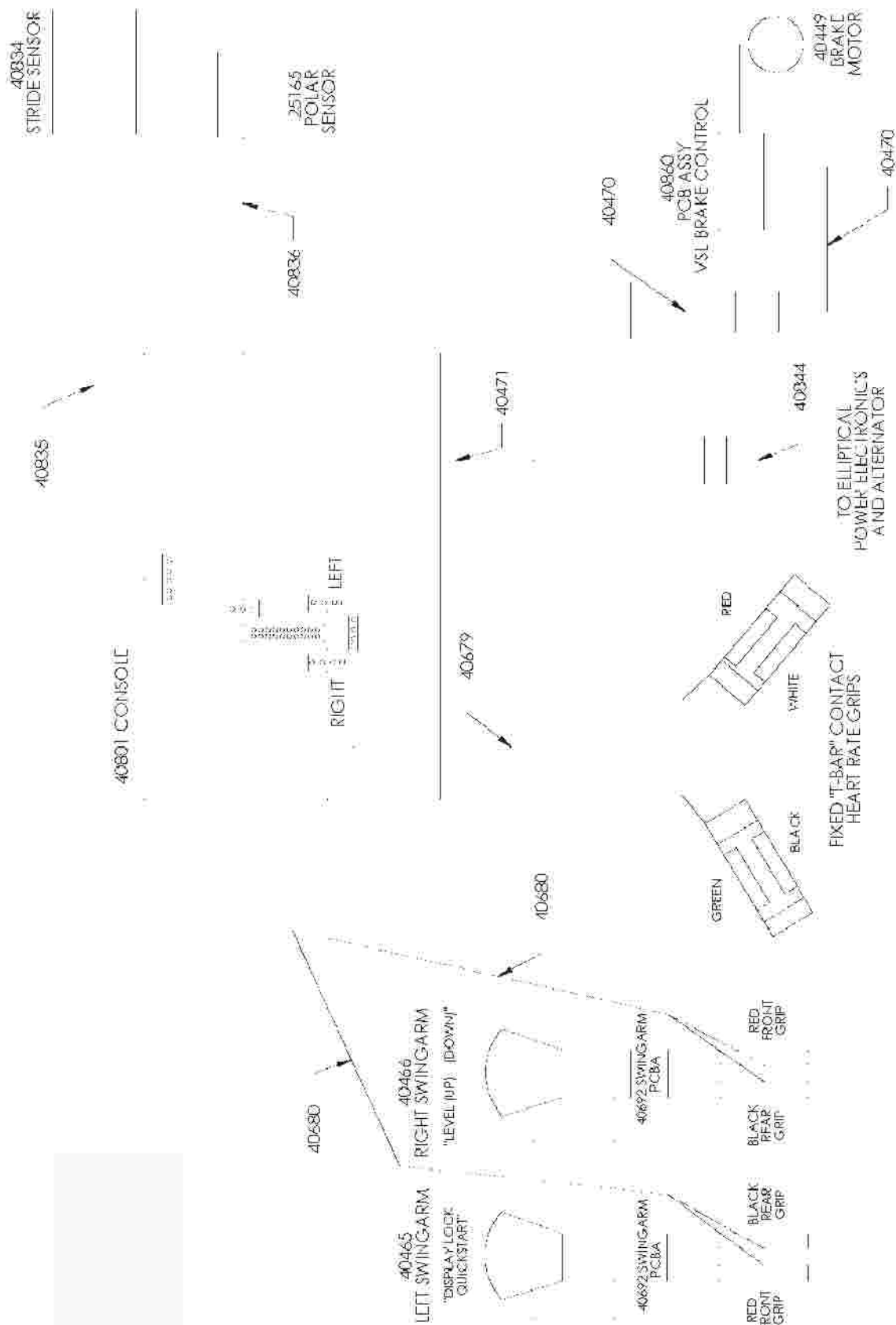


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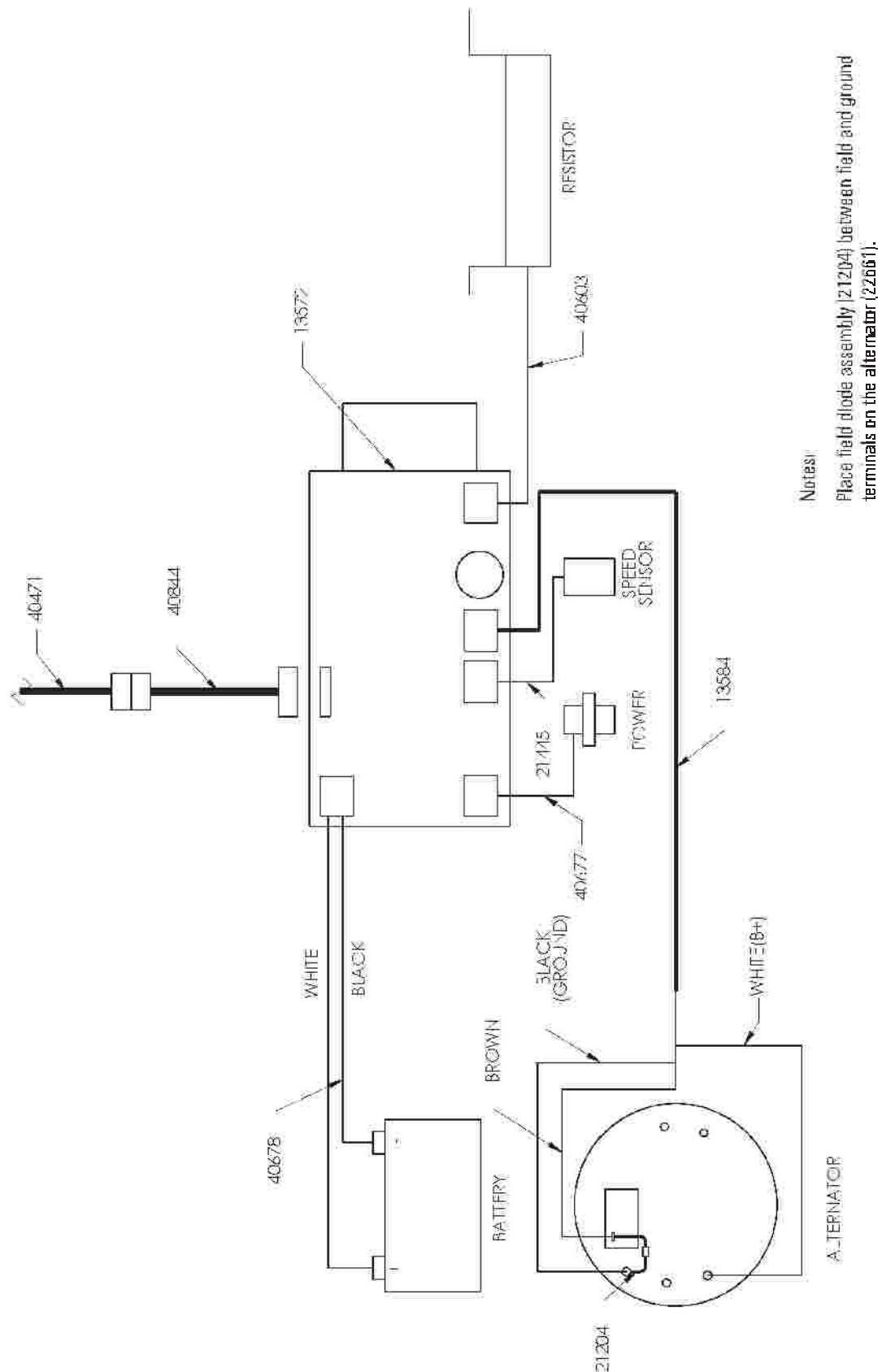
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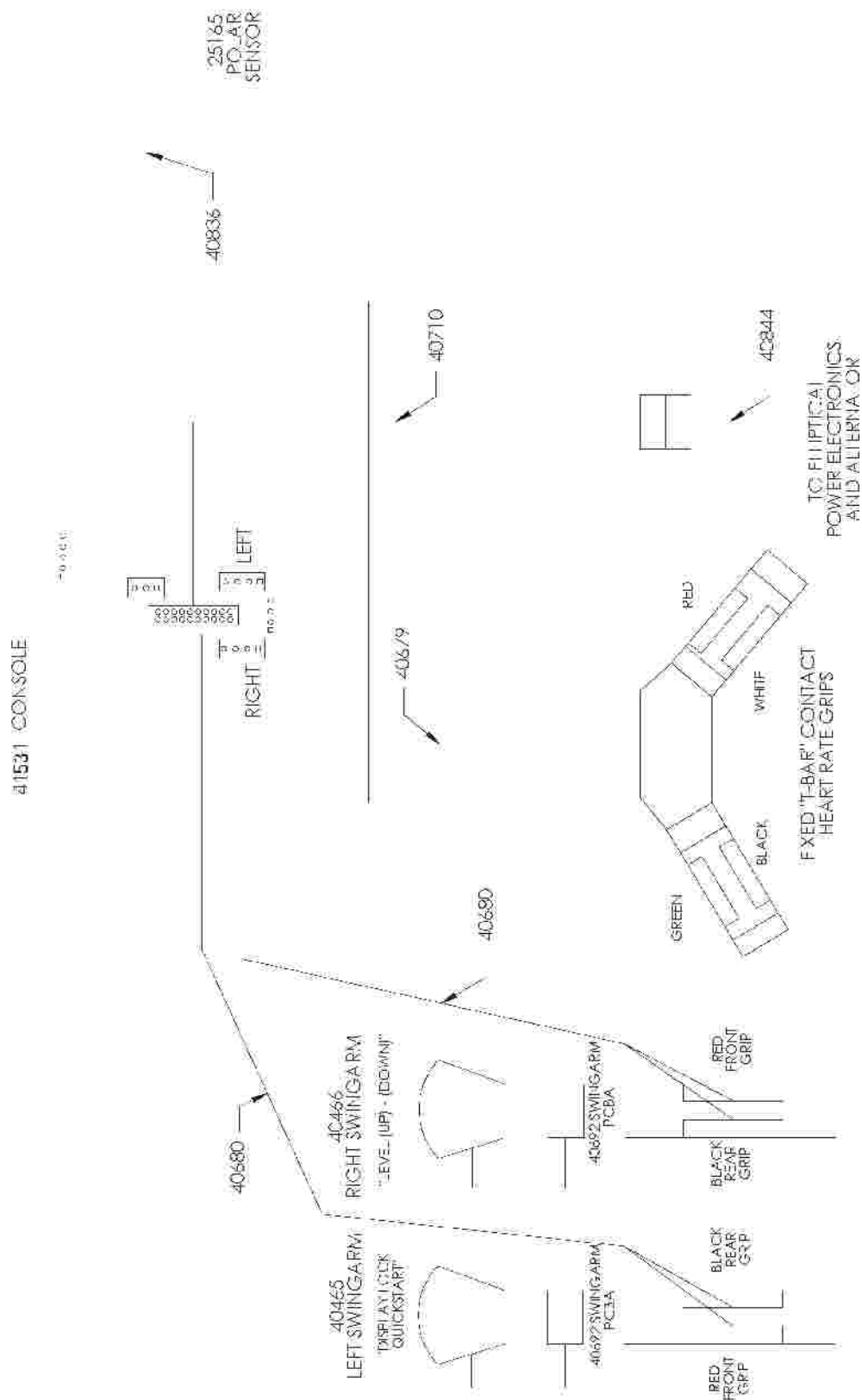
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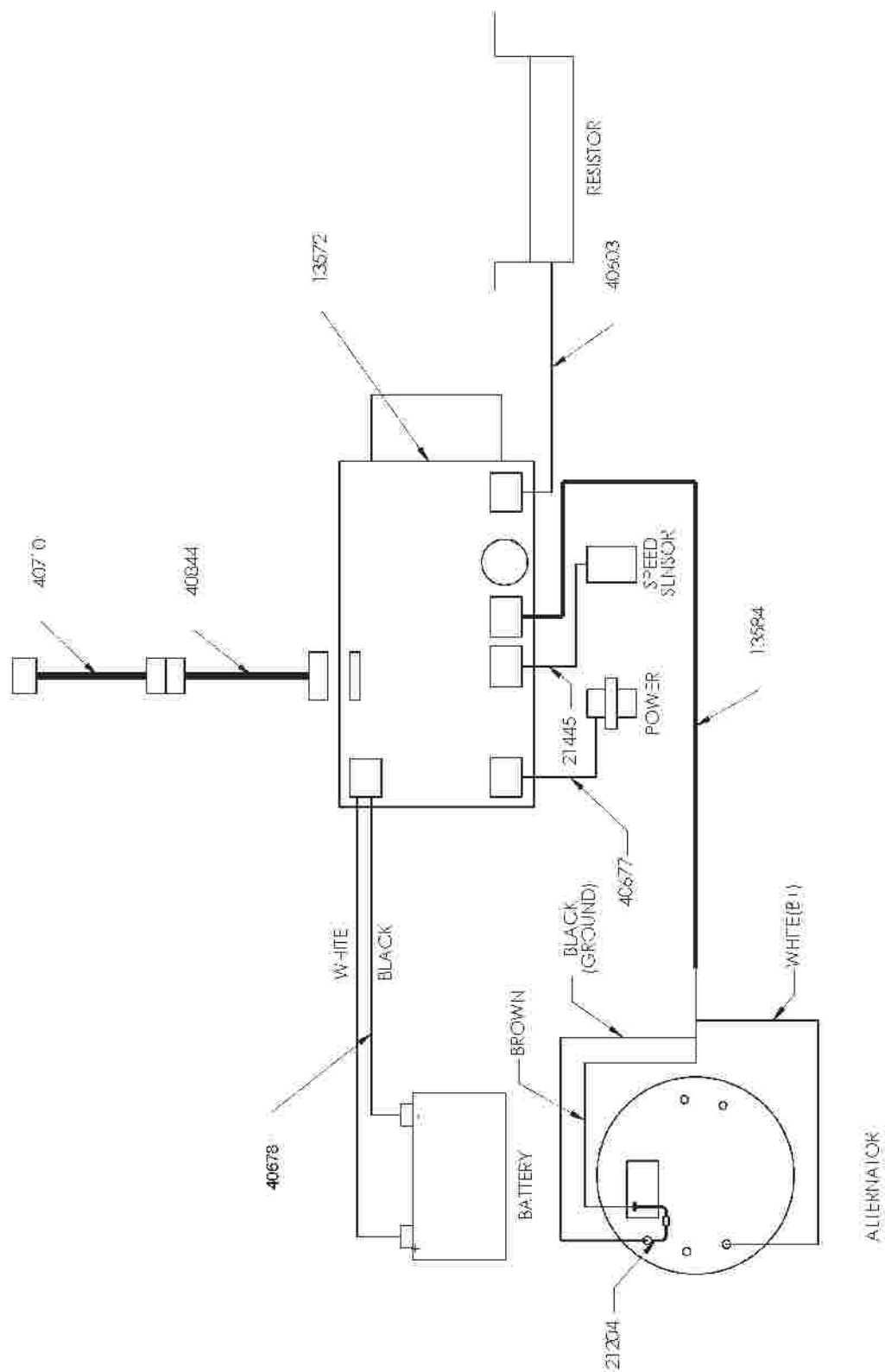
EV016 Elliptical Top Level Wiring Diagram



EV916 Elliptical Power Electronics and Alternator Wiring Diagram



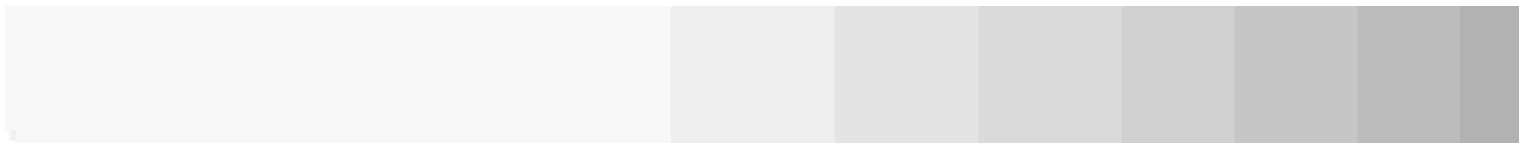
E916 Elliptical Console Heart Rate Wiring Diagram



Notes:

Place field diode assembly (21204) between field and ground terminals on the alternator (22661).

E916 Elliptical Main Power Wiring Diagram



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Assembly Illustrations

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Assembly Parts List - EV916

Part number information in the following table is meant to help you identify the parts in the drawings for ordering replacement parts. Call an authorized Nautilus representative at 1-800-NAUTILUS (624-8458) to order replacement parts and get assistance with your specific replacement or service requirements. Items with no warranty code or part number are replaceable only as part of a higher-level assembly.

WARRANTY NOTES (FOR UNITS IN USA ONLY):

- 1 - Part covered under standard 3-year parts warranty for replacement.
- 2 - Part covered under standard 1-year wear item warranty for replacement.
- 3 - Part covered under standard 15-year frame warranty for replacement.

Table 5-1. Part Identifier List – EV916 Elliptical

SRVC#	WRNTY-CODE	PART NO./ LEVEL				DESCRIPTION			
		1	2	3	4				
SM25067	1	25067				ASSY, BC-1, POWER SUPPLY			
NA			14029			PINS, CPC			
NA			21179			CONNECTOR, CPC 11-4 PLUG REVRSE			
NA			21184			CONNECTOR, BACKSHELL			
NA			21757			DECAL, WARNING, BATTERY CHARGER			
NA			25066			POWER SUPPLY, BC-1, 1A WALL PACK			
SM27857	2	27857				COMMERCIAL PRODUCT WARRANTY			
NA	2	40334				MANUAL, OWNERS, CD, EV916/E916			
NA	2	40335				MANUAL, OWNERS, EV916/E916			
NA	2	40388				MANUAL, ASSY, E916/EV916			
SM12212	1	12212				KEY, .250 SQUARE X .75 LONG			
SM13584	1	13584				CABLE, ALTERNATOR, 3300CE/3900RC			
SM22242	1	22242				SCREW, .375-16X.75, HEX HD CAP			
SM22030	1	22030				WASHER, 3/8 USS FLAT			
SM22046	1	22046				WASHER, FLAT, .562x1.375 x .109			
SM22663	1	22663				SCREW, #6 X .50 PHIL, TYPE T			
SM23081	1	23081				SCREW, .500-13X4.00, HEX HD CAP			
SM23729	1	23729				WASHER, 3/8 SPLIT LOCK			
SM40305	1	40305				ASSEMBLY, CRANK ARM, 5300			
SM22036			22036			NUT, .250-20, NYLON INSERT			
SM22047			22047			WASHER, FLAT, 1/4 ID X 5/8 OD			
NA			40303			WELDMENT, CRANK ARM ASSEMBLY			
SM40562			40562			SCREW, 5/16-18 X 1.50 SHC W/NYL			
SM40697			40697			SCREW, 1/4-20 X 3.50, HEX HD CAP			
SM40767			40767			BRACE, CRANK COVER			

SRVC#	WRNTY- CODE	PART NO./ LEVEL				DESCRIPTION			
		1	2	3	4				
SM40306		40306				ASSEMBLY, REAR DRIVE, VSL			
SM12221	1		12221				INTERMEDIATE PULLEY, MOLDED		
SM12419	1		12419				KEY, .250 SQ X 2.50 LONG		
SM20205	1		20205				ALTERNATOR, PRESTOLITE, 1992		
SM21445	1		21445				ASSY.,SPEED SENSOR,CLIM.SYS,CL		
SM21448	1		21448				SCREW,.375-16 x 4.50 HEX HD CP		
SM21774	1		21774				PIN,HITCH		
SM21778	1		21778				NUT, FLANGE (ALT-FLYWHEEL)		
SM22029	1		22029				NUT,.375-16,NYLON INSERT		
SM22030	1		22030				WASHER, 3/8 USS FLAT		
SM22047	1		22047				WASHER,FLAT,1/4 ID X 5/8 OD		
SM22070	1		22070				WASHER,.312 SPLIT LOCK		
SM22093	1		22093				SCREW,.312-18X.75,HEX HD CAP		
SM22116	1		22116				SCREW,.250-20X2.50,HEX HD CAP		
SM22191	1		22191				WASHER,SHOULDER,.38 I.D.		
SM22214	1		22214				WASHER, FLAT, .312 SAE		
SM22326	1		22326				PIN,CLEVIS		
SM22516	1		22516				CLAMP, CABLE,.75 DIA		
SM22517	1		22517				DISK, SPEED SENSOR, 4400 CL		
SM22878	1		22878				SCREW,SET,SOCKET,.250-28 X .38		
SM22883	1		22883				SCREW, SET,SOCKET,3/8-16 X .38		
SM22937	1		22937				SCREW,.375-16 X 3.50,HX HD CAP		
SM23322	1		23322				BEARING, BALL 17MM X 40MM		
SM23729	1		23729				WASHER, 3/8 SPLIT LOCK		
SM24640	1		24640				SCREW,.375-16 X 1.75 HX HD CAP		
SM25978	1		25978				WHEEL, 3" DIA.		
SM27654	1		27654				LEVELING PAD (.500-13UNC-2A X 1.88 BASE)		
SM40301	3		40301				WELDMENT, REAR FRAME, STRIDEMASTER		
SM40530	1		40530				PULLEY, DRIVE, MACHINED		
SM40598	3		40598				WELDMENT, ALTERNATOR, TENSIONER		
SM40605	3		40605				WELDMENT, INTERMED PULLEY TENSIONER		
SM40608	1		40608				SHAFT, INTERMEDIATE PULLEY		
SM40609	1		40609				SPACER, INTERMEDIATE SHAFT, LEFT		
SM40610	1		40610				SPACER, INTERMEDIATE SHAFT, RIGHT		
SM40611	1		40611				SHAFT, CRANK		
SM40618	1		40618				BELT, POLY-V,.61",J, 16 RIB		
SM40619	1		40619				BELT, POLY-V,.38",J, 8 RIB		

SRVC#	WRNTY- CODE	PART NO./LEVEL				DESCRIPTION			
		1	2	3	4				
SM40734	1		40734						BEARING,1" PILLOW BLOCK,NO GOL
SM40329	1		40329						FLYWHEEL, CAST, 530J
SM40307		40307							ASSEMBLY, FRONT MAST, VSL
SM12497	2		12497						CONTACT PLATE, CHR
SM12506	2		12506						ADHESIVE TRANSFER TAPE, 5 MIL
SM13582	1		13582						WASHER,FLAT,#4 TYPEB,.125x.250
SM21135	1		21135						LOOM, FLEXIBLE .350 I.D.
NA	1		21607						TAPE,DOUBLE SIDED FOAM
SM22027	1		22027						WASHER,.250 SPLIT LOCK
SM22028	1		22028						SCREW,.250-20X.63,HEX HD CAP
SM22043	1		22043						SCREW,.500-13X2.00,HEX HD CAP
SM22046	1		22046						WASHER,FLAT,.562x1.375 x .109
SM22047	1		22047						WASHER,FLAT,1/4 ID X 5/8 OD
NA	1		22603						RIVNUT, #10-32 UNF, .020-.130 GRIP
SM23092	1		23092						SCREW,.500-13X2.50,HEX HD CAP
SM24049	1		24049						SNAP RING, EXTERNAL, 1.50 DIA.
SM27557	1		27557						RETAINING RING 5100-98
SM27654	1		27654						LEVELING PAD (.500-13UNC-2A X 1.88 BASE)
SM40302	3		40302						WELDMENT, CONSOLE MOUNT
SM40312	3		40312						WELDMENT, SWING ARM, LEFT
SM40313	3		40313						WELDMENT, SWING ARM, RIGHT
SM40315	3		40315						WELDMENT, RIGHT MOVING HANDLEBAR
SM40316	3		40316						WELDMENT, LEFT MOVING HANDLEBAR
SM40317	3		40317						LINK, DEPENDENCY, CAST
SM40321	3		40321						WELDMENT, TURNBUCKLE
SM40396	1		40396						SPACER, DEPENDENCY ROD-END
SM40400	1		40400						PCBA, STRIDE SENSOR
SM40401	1		40401						BRACKET, STRIDE SENSOR, SIGNAL
SM40464	2		40464						DECAL, CONSOLE BACK
SM40551	2		40551						COVER, ERGOBAR, FRONT
SM40552	2		40552						COVER, ERGOBAR, BACK
SM40564	1		40564						BEARING,IGUS JFI-2428-16
SM40576	2		40576						HOUSING, CHR, FIXED, TOP
SM40577	2		40577						HOUSING, CHR, FIXED, BOTTOM
SM40578	2		40578						KEYPANEL,HANDRAIL,RIGHT,5100
SM40579	2		40579						KEYPANEL,HANDRAIL,LEFT,5100
SM40639	1		40639						SCREW,6-32 X .438 LG SHC

SRVC#	WRNTY- CODE	PART NO./ LEVEL				DESCRIPTION			
		1	2	3	4				
SM40642	2		40642				CONTACT PLATE, CHR, LONG		
SM40643	2		40643				HOUSING, CHR, DYNAMIC, FRONT		
SM40644	2		40644				HOUSING, CHR, DYNAMIC, REAR		
SM40651	1		40651				WASHER,NYLATRON,1.505 X 2.250		
SM40652	1		40652				WASHER,WAVE,1.560 X 1.8750 X .		
SM40654	1		40654				SCREW,10-32X.75,PANHD W/LK WASHER		
SM40655	1		40655				NUT,LOCK,CONICAL TOP,1/2-13		
SM40679	1		40679				CABLE,ASSY,T-BAR GRIP TO CONSOLE		
SM40680	1		40680				ASSY,CABLE,ELLIPTICAL SWINGARM		
SM40692	1		40692				PCB ASSEMBLY,ELLIPT SWINGARM		
SM40696	1		40696				CABLE,C41 SWINGARM INTERMEDIATE		
SM40760	1		40760				LABEL,SWING ARM,WIRE,RH		
SM40761	1		40761				LABEL,SWING ARM,WIRE,LH		
SM40776	2		40776				ADHESIVE,TRANSFER TAPE,25 MIL		
SM40777	1		40777				SCREW,6-32X1.25 LG HEX SHC		
SM41269	1		41269				GROMMET, 2870, 7/8" ID		
SM40318		40318					ASSEMBLY, FOOT LINK, RIGHT		
SM22027	1		22027				WASHER,.250 SPLIT LOCK		
SM22028	1		22028				SCREW,.250-20X.63,HEX HD CAP		
SM22032	1		22032				NUT,5/16-18 NC NYLON INSRT HEX		
SM22047	1		22047				WASHER,FLAT,1/4 ID X 5/8 OD		
NA	3		40309				WELDMENT, MAIN FOOTLINK RIGHT		
SM40424	2		40424				HOUSING, FOOT PAD, RIGHT		
SM40434	2		40434				FOOT PAD, RIGHT		
SM40443	1		40443				SCREW, 10-32 X 1.00 LG, OVAL HD PH, SS		
SM40450	1		40450				RUBBER, BRAKE		
SM40457	1		40457				DIA. 3/8 X 1/2 LG SHOULDER; 5/16 - 18 UNC X 1/2 LG THREADS; SOCKET HEAD		
SM40460	1		40460				BRKT, BRAKE RUBBER MNTG, LEFT, OUTSIDE		
SM40461	1		40461				BRKT, BRAKE RUBBER MNTG, LEFT, INSIDE		
SM40319		40319					ASSEMBLY, FOOT LINK, LEFT		
SM22032	1		22032				NUT,5/16-18 NC NYLON INSRT HEX		
SM22027	1		22027				WASHER,.250 SPLIT LOCK		
SM22028	1		22028				SCREW,.250-20X.63,HEX HD CAP		
SM22047	1		22047				WASHER,FLAT,1/4 ID X 5/8 OD		
SM22120	1		22120				WASHER, #6 INTERNAL TOOTH LOCK		
NA	2		40310				WELDMENT, MAIN FOOTLINK LEFT		

SRVC#	WRNTY- CODE	PART NO./ LEVEL				DESCRIPTION			
		1	2	3	4				
SM40425	2		40425						HOUSING, FOOT PAD, LEFT
SM40435	2		40435						FOOT PAD, LEFT
SM40443	1		40443						SCREW, 10-32 X 1.00 LG, OVAL HD PH, SS
SM40447	1		40447						SPRING, RETURN
SM40449	1		40449						MOTOR, BRAKE
SM40450	1		40450						RUBBER, BRAKE
SM40451	1		40451						BRKT, BRAKE RUBBER MNTG, LEFT, OUTSIDE
SM40452	1		40452						BRKT, BRAKE RUBBER MNTG, LEFT, INSIDE
SM40453	1		40453						CAM, BRAKE
NA	1		40454						GUIDE, BRAKE CAM
SM40455	1		40455						SCREW, SET, #10-32 X .1875,
SM40456	1		40456						SCREW, #6-32 X .25, THR FORM, PAN HD PH
SM40457	1		40457						DIA. 3/8 X 1/2 LG SHLDR; 5/16 - 18 UNC X 1/2 LG THREADS; SOCKET HEAD
SM40458	1		40458						SCREW, #5-40 X .25, THR FORM, PAN HD PH
SM41269	1		41269						GROMMET, 2870, 7/8" ID
SM40358	1	40358							SHAFT, SWING ARM, BOTTOM, 5300
SM40364	1	40364							ROLLER, CAM
SM40381	1	40381							COVER, CRANK, STEEL
SM40416	2	40416							COVER, RIGHT REAR, FRONT
SM40417	2	40417							COVER, RIGHT REAR, BACK
SM40418	2	40418							COVER, LEFT REAR, FRONT
SM40419	2	40419							COVER, LEFT REAR, BACK
SM40420	2	40420							COVER, CAM, OUTSIDE, RIGHT
SM40421	2	40421							COVER, CAM, OUTSIDE, LEFT
SM40422	2	40422							COVER, CAM, INSIDE, RIGHT
SM40423	2	40423							COVER, CAM, INSIDE, LEFT
SM40426	2	40426							COVER, KNUCKLE, #1
SM40427	2	40427							COVER, KNUCKLE, #2
SM40428	2	40428							COVER, DEPENDENCY, UPPER, FRONT
SM40430	2	40430							COVER, DEPENDENCY LEFT, FRONT
SM40431	2	40431							COVER, DEPENDENCY, RIGHT, FRONT
SM40436	2	40436							DECAL, ID, RIGHT, 5300
SM40437	2	40437							DECAL, ID, LEFT, 5300
SM40438	2	40438							BRACKET, FRONT PLASTIC, SUPPORT
SM40439	2	40439							COVER, UPPER SWING ARM, #1
SM40440	2	40440							COVER, UPPER SWING ARM, #2

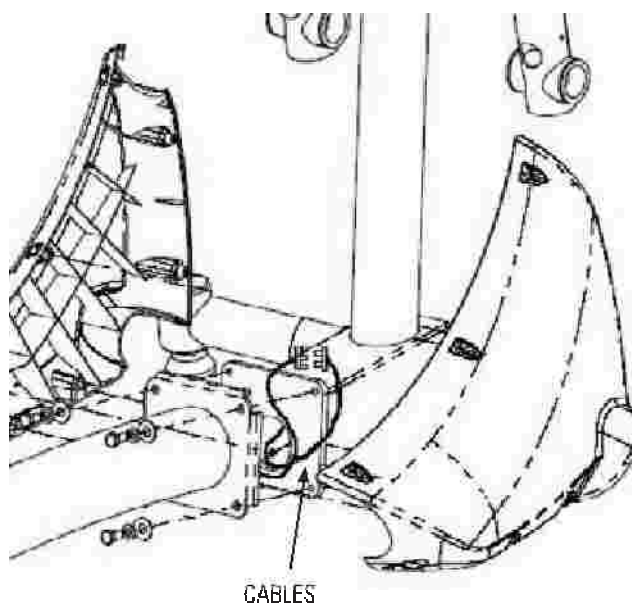
SRVC#	WRNTY-CODE	PART NO./ LEVEL				DESCRIPTION			
		1	2	3	4				
SM40441	2	40441				COVER, UPPER SWING ARM, RIGHT			
SM40442	2	40442				COVER, UPPER SWING ARM, LEFT			
SM40462	1	40462				ASSY, CABLE, BRAKE MOUNT			
SM40527	2	40527				COVER, DRIVETRAIN, TOP			
SM40556	2	40556				COVER, FRONT, BOTTOM, LEFT			
SM40558	2	40558				COVER, FRONT, BOTTOM, RIGHT			
SM40601		40601				ASSEMBLY, LOWER CONTROL BOARD			
SM13572	1		13572			ASSY, PCB, POWER CONTROL BOARD			
SM14123	1		14123			BATTERY, 6V			
SM22109	1		22109			WASHER, #8 INTERNAL TOOTH LOCK			
SM22133	1		22133			SCREW, #8-32 X .75, PHIL PAN HD			
SM22938	1		22938			FASTENER, HOOK			
SM22939	1		22939			FASTENER, LOOP			
SM24279	1		24279			TYRAP, 14x11.0			
SM25206	1		25206			SIL PAD			
SM40635	1		40635			ASSY, LOWER CONTROL BOARD BRACKET			
SM40603		40603				ASSEMBLY, RESISTOR AND BRACKET, STRIDEMASTER			
SM22022	1		22022			NUT, 1/4-20 NC FINISH HEX			
SM22027	1		22027			WASHER, .250 SPLIT LOCK			
SM22047	1		22047			WASHER, FLAT, 1/4 ID X 5/8 OD			
SM25611	1		25611			ASSEMBLY, RESISTOR, 3800			
SM13580	1			13580		WASHER, #8 SAE FLAT			
SM22109	1			22109		WASHER, #8 INTERNAL TOOTH LOCK			
SM22110	1			22110		NUT, #8-32, HEX MACH			
SM22134	1			22134		SCREW, #8-32 X .38, PHIL PAN HD			
SM23783	1			23783		ASSY, CABLE, RESISTOR			
SM24989	1			24989		RESISTOR, 0.5 OHM, 240 WATT			
SM40604	1		40604			BRACKET, RESISTOR, HEAT SHIELD			
SM40632	1		40632			SCREW, .250-20UNC X .75LG SHC			
SM40616	1	40616				SPACER, CRANK SHAFT			
SM40651	1	40651				WASHER, NYLATRON, 1.505 X 2.250			
SM40654	1	40654				SCREW, 10-32X.75, PANHD W/LK WASHER			
SM40655	1	40655				NUT, LOCK, CONICAL TOP, 1/2-13			
SM40667	1	40667				SCREW, 5/16-18X.75, BH CAP, SS			
SM40668	1	40668				WASHER, FLAT, 11/32ID X 3/4OD X .050			
SM40669	1	40669				WASHER, SPRING LOCK, 5/16, SS			
SM40670	1	40670				SCREW, 1/4-20X.75, PAN HD, W/LOCK			

SRVC#	WRNTY-CODE	PART NO. / LEVEL				DESCRIPTION			
		1	2	3	4				
SM40671	1	40671				SCREW, 10-32X.50, PAN HEAD, SS, BL			
SM40676	1	40676				CABLE ASSY, INLINE TO PWR PCBA			
SM40677	1	40677				ASSY, MAIN POWER, ELLIPTICAL			
SM40678	1	40678				CABLE, ASSY, BATTERY, ELLIPTICAL			
SM40679	1	40679				CABLE, ASSY, T-BAR GRIP TO CONSOLE			
SM40680	1	40680				ASSY, CABLE, ELLIPTICAL SWINGARM			
SM40681	1	40681				ASSY, CABLE, C41 CHR BREAKOUT			
SM40710	1	40710				CABLE ASSY, CONSOLE TO INLINE			
SM40801	1	40801				ASSY, CONSOLE, C51, LCD			

Cable Connections - EV916

Two of the main cable connections for the EV916 elliptical are shown below. Wiring diagrams for the EV916 console, handles and main power are provided in Section 2.

Front Mast to Main Frame Connection:



CONNECT CABLE (PN 40471) FROM FRONT MAST TO CABLE (PN 40844) FROM MAIN FRAME CENTER TUBE BEFORE SECURING FLANGES TOGETHER. THE COLOR-CODED CABLES SNAP TOGETHER WITH THE M/F CONNECTORS FOR THE CORRESPONDING CABLE COLORS.

NOTE: TAKE CARE NOT TO PINCH CABLES WHEN ASSEMBLING.

Left Swing Arm to Foot Link Connection:

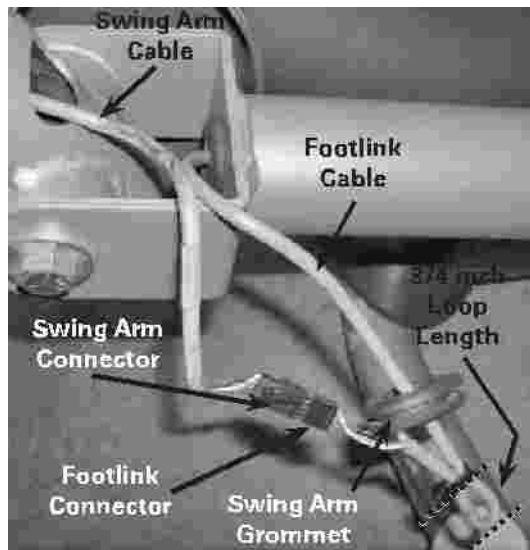


Figure 1

CONNECT THE FOOTLINK AND SWING ARM CABLE (PN 40470) USING M/F CONNECTORS FOR CORRESPONDING COLORS. (SEE **FIGURE 1**.)



Figure 2

CAREFULLY INSERT THE CONNECTORS AND ZIP-TIED LOOP INTO THE SWING ARM (PN 40312) TUBE OPENING. (SEE **FIGURE 2**.)

NOTE: If connectors are not inserted into the Swing Arm tube, they will be damaged during use!



Figure 3

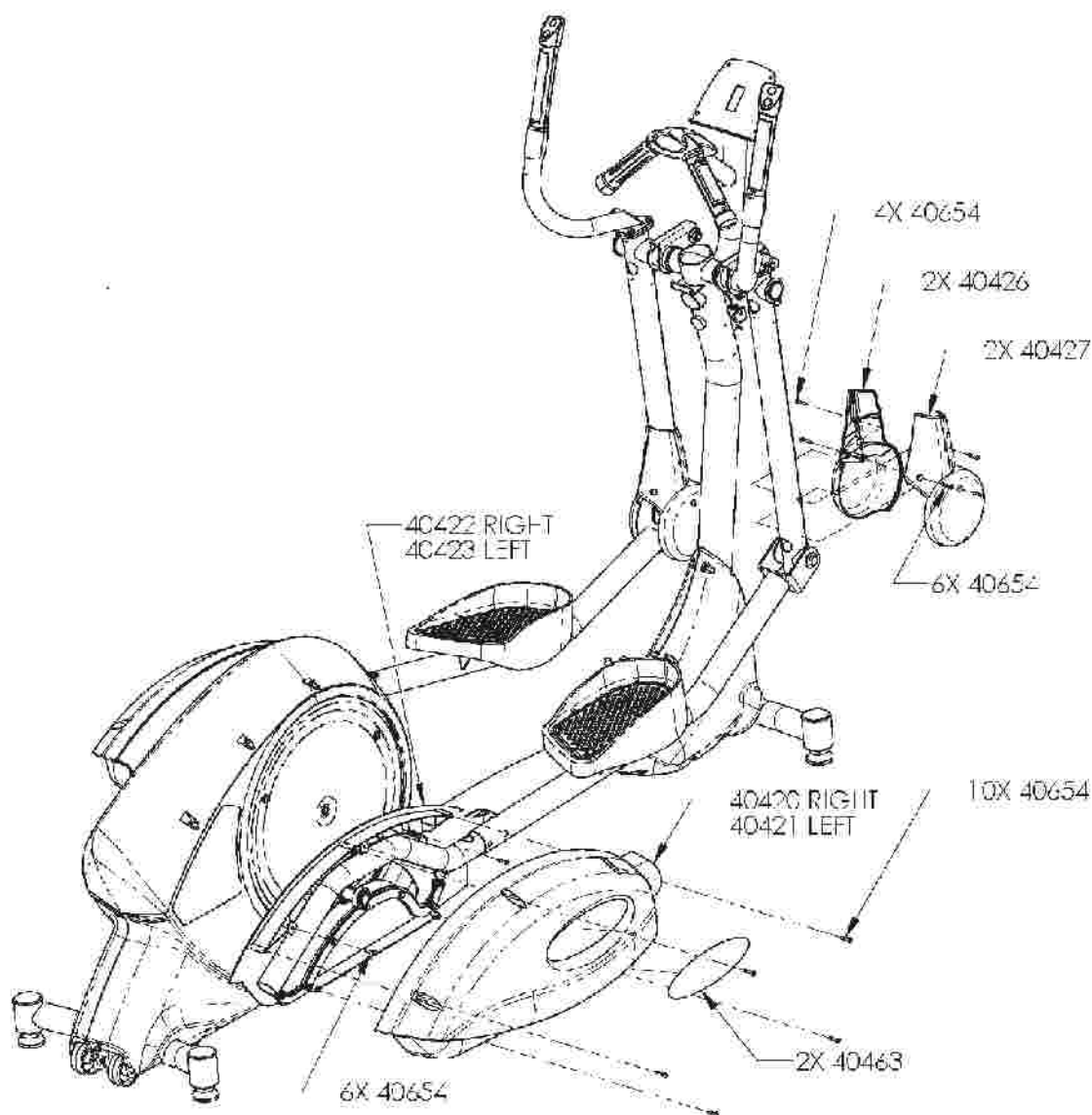
REINSTALL THE SWING ARM RUBBER GROMMET (PN 41269), AND INSERT ANY REMAINING SLACK CABLE (PN 40470) INTO EITHER TUBE. MAKE SURE THE SWING ARM GROMMET (PN 41269) IS FULLY INSTALLED AND THAT ONLY THE SHEATHED CABLE (PN 40470) IS EXPOSED. (SEE **FIGURE 3**.)

Assembly Drawings Overview - EV916

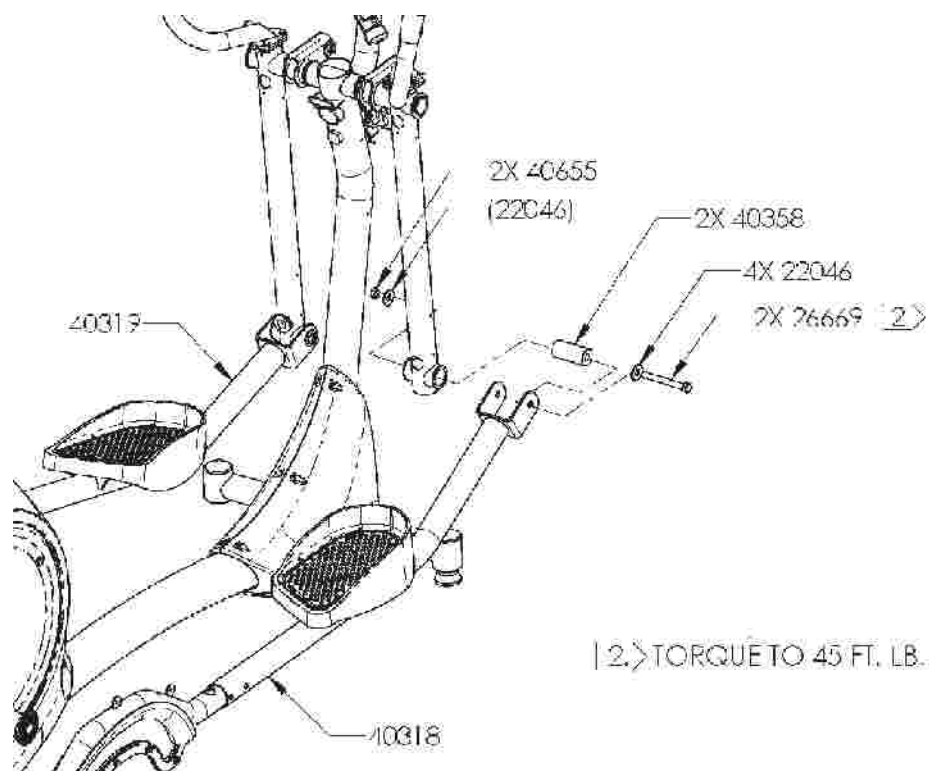
Some drawings include specific notes, represented by . Refer to these notes when replacing parts because they mention critical torque specs and other important servicing information.

Refer to the Parts List in the preceding pages to locate information on the part numbers that are called out in the assembly drawings.

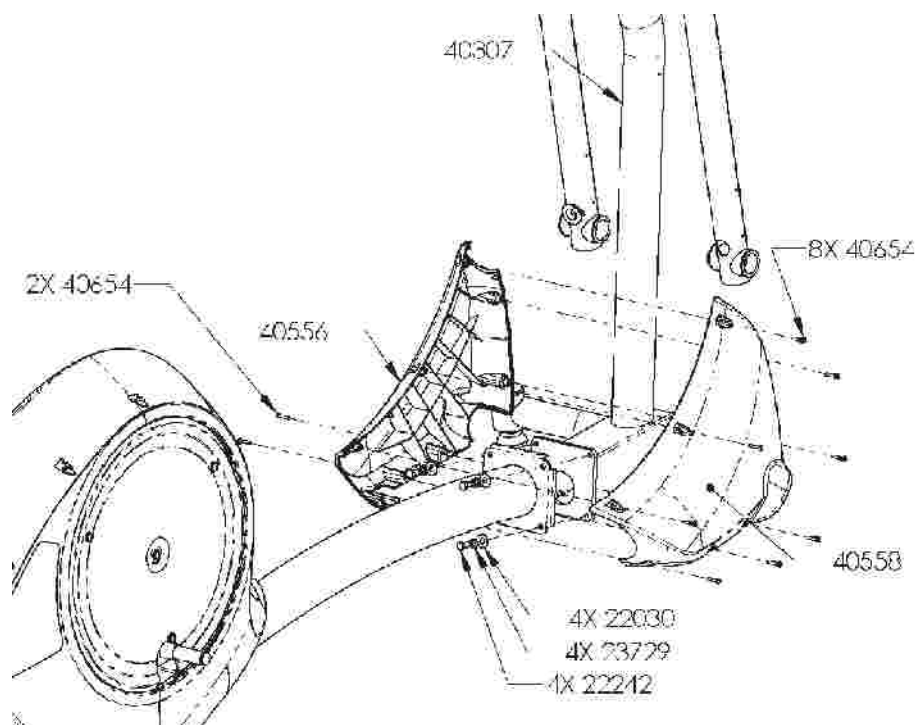
Cam Covers (Pods) and Front Knuckle Covers:



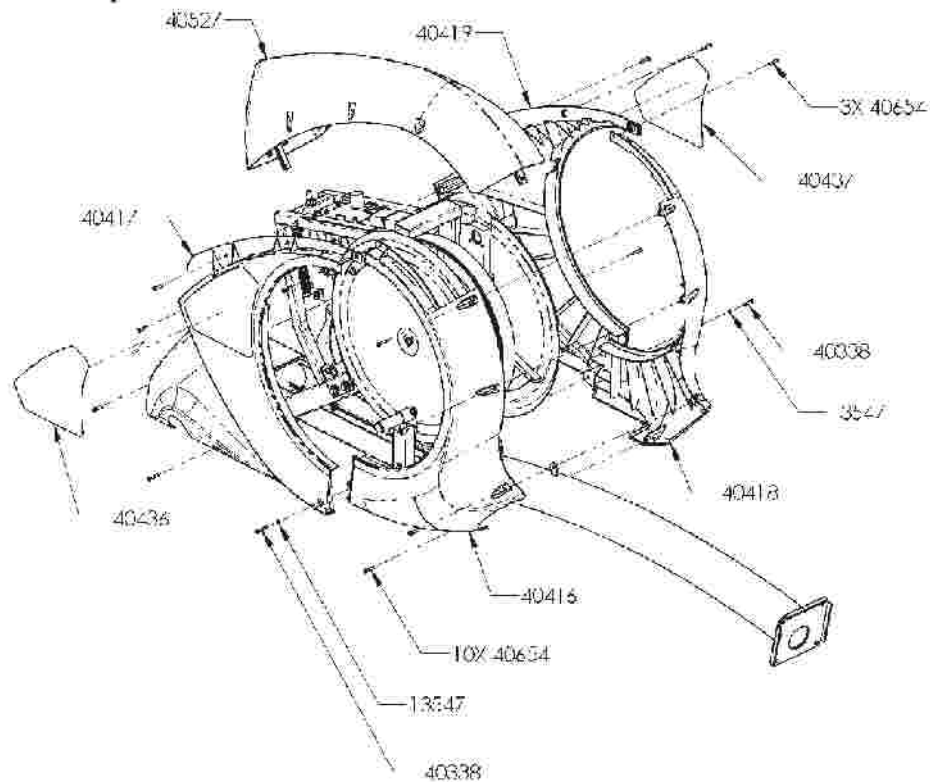
Swing Arm / Foot Link Assembly Junction:



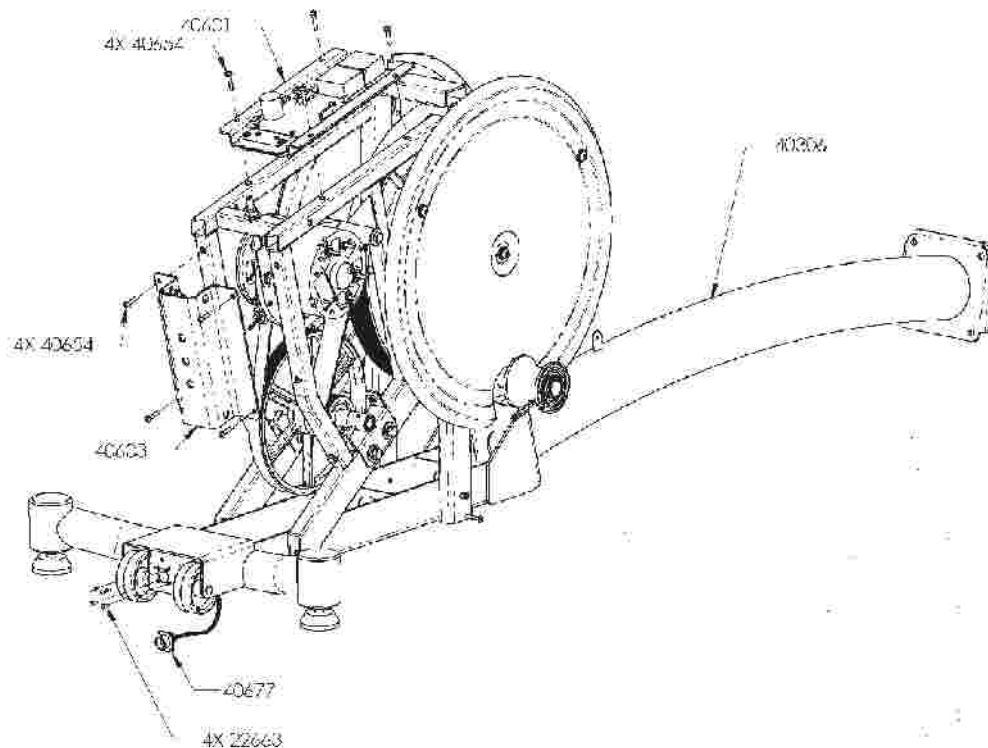
Front Mast Assembly / Main Frame Junction:



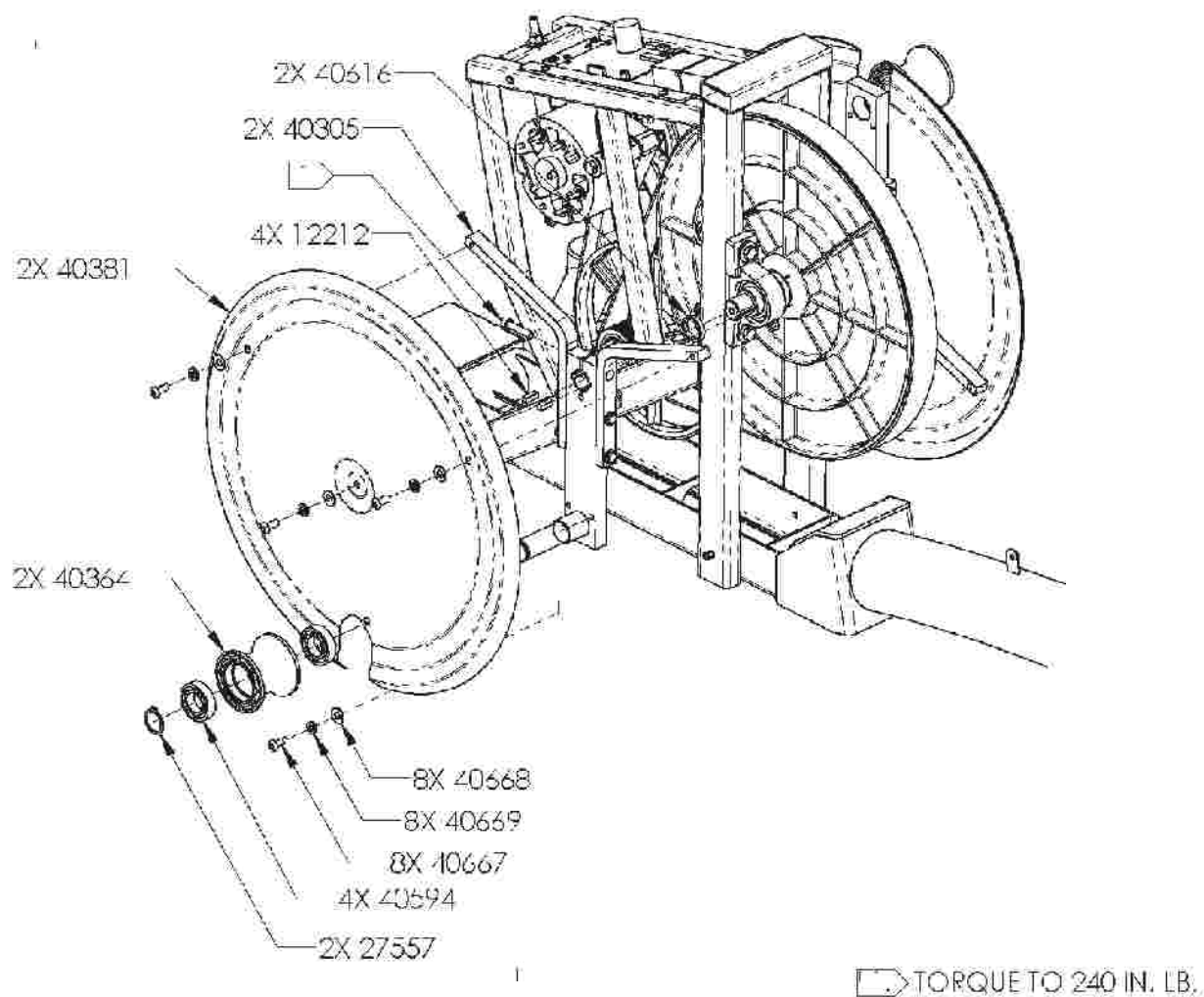
Drive Train Cover Assembly:



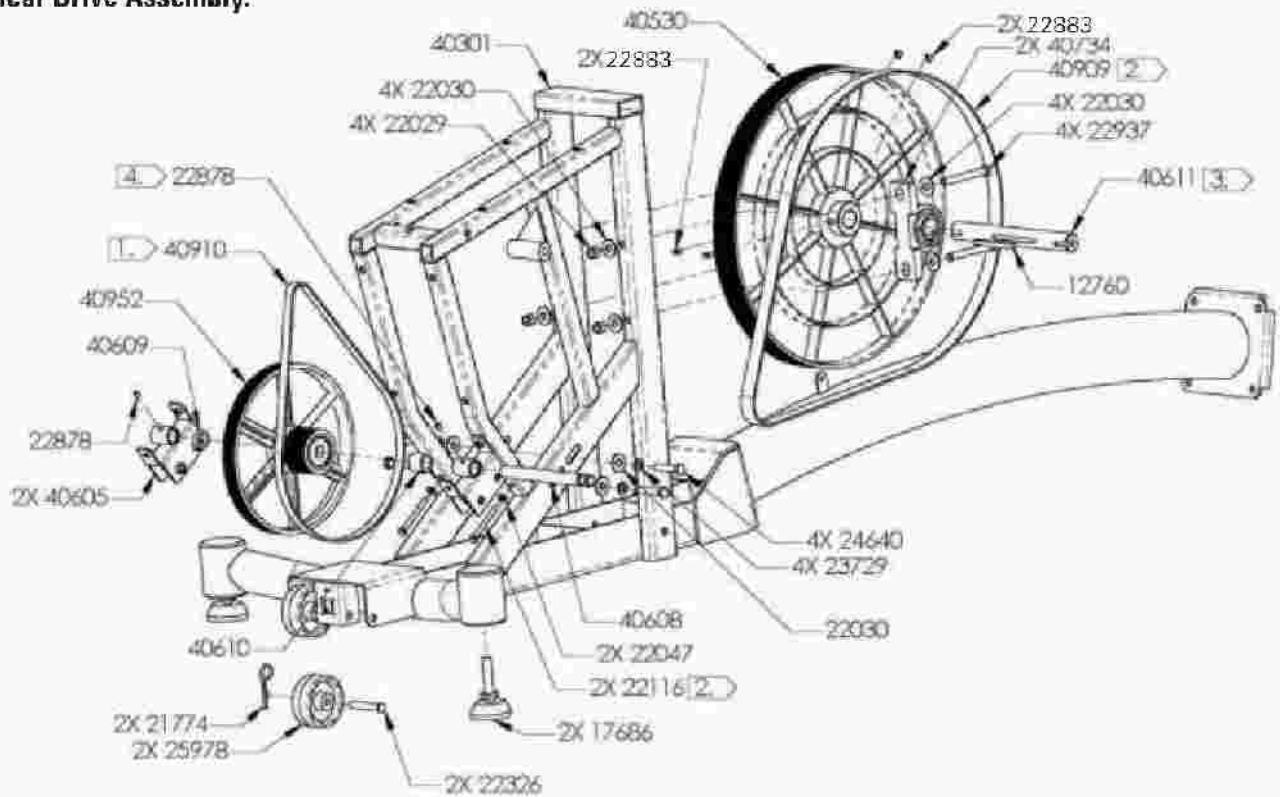
Drive Train Assembly w/ Main Power Assembly:



Crank Cover and Crank Assembly:

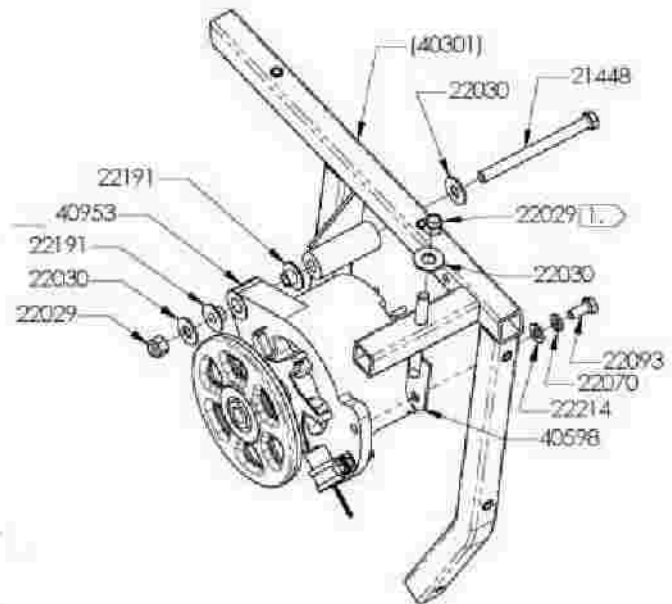


Rear Drive Assembly:

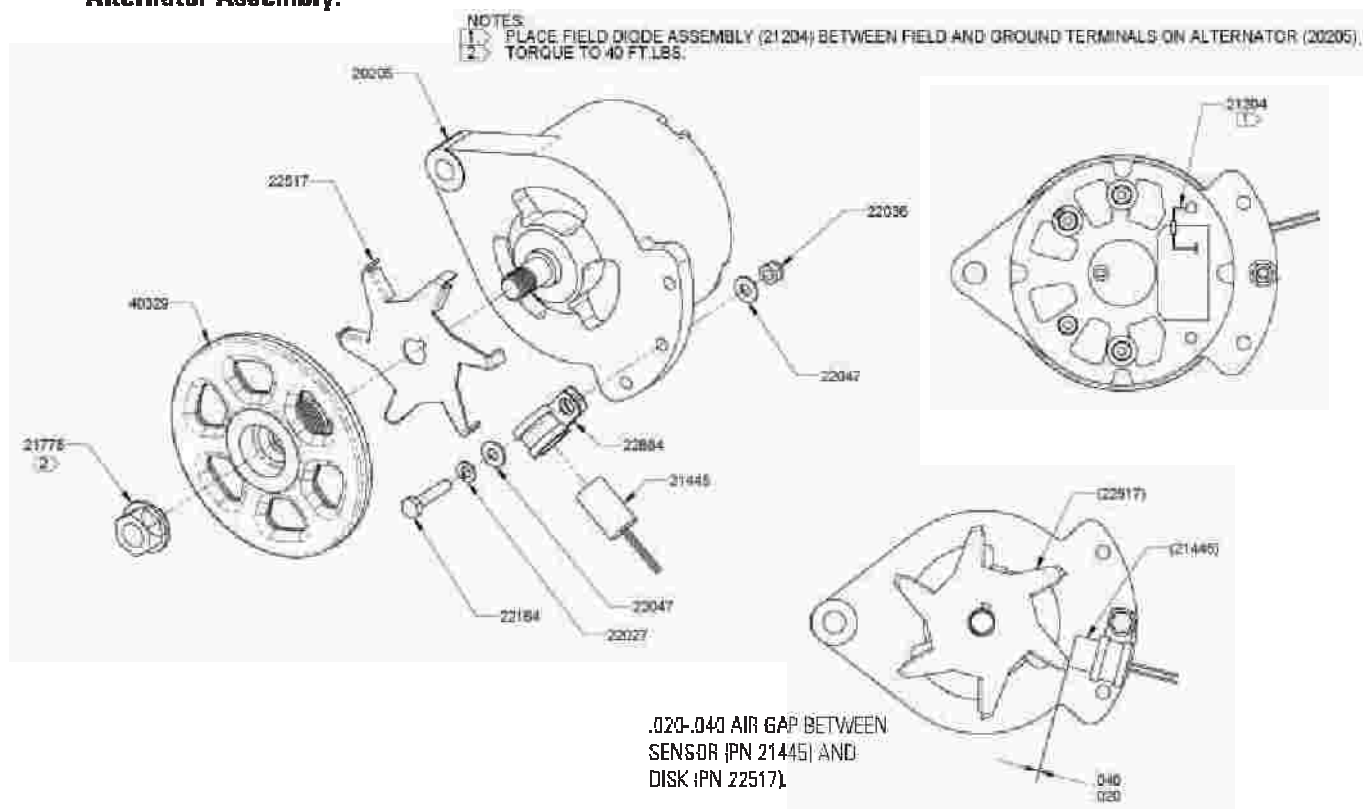


NOTES:

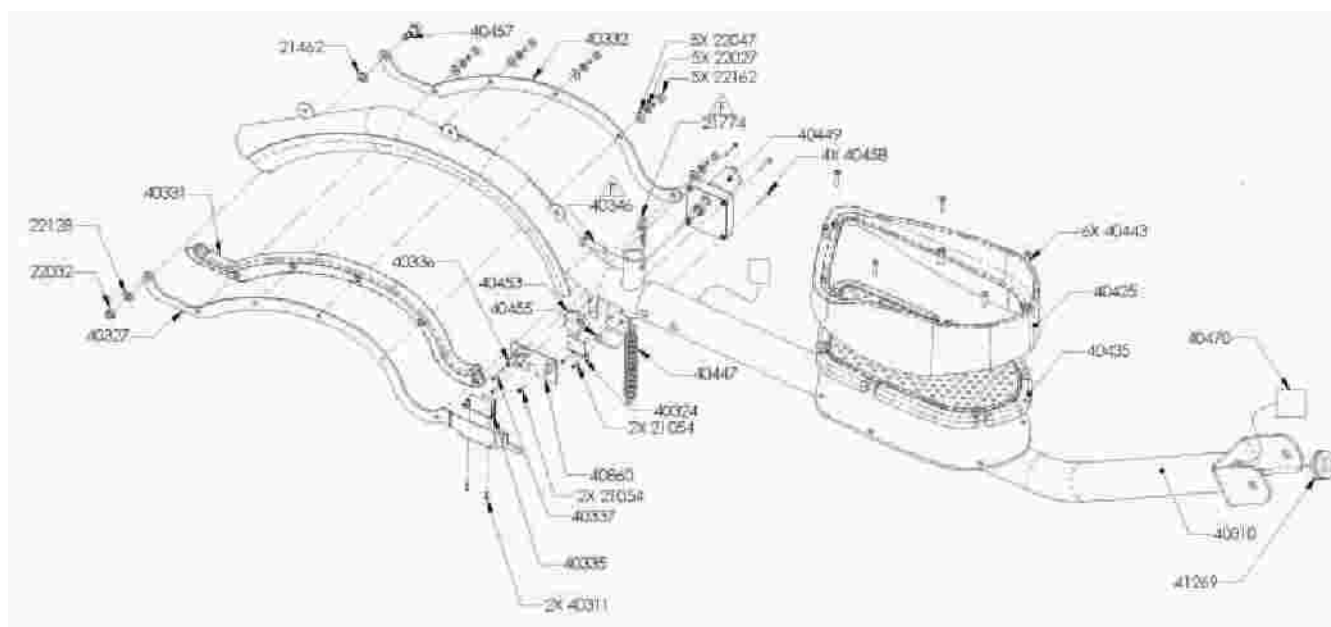
- 1 TENSION BELT TO 45-50 LBS.
- 2 TENSION BELT TO 85-95 LBS.
- 3 POSITION CRANK SHAFT WITH TO .98330.
- 4 INSTALL GROOVE SIDE SET SCREW FIRST. VERIFY THAT SCREW IS ALIGNED WITH GROOVE IN SHAFT AND TIGHT BEFORE INSTALLING SCREW IN OTHER TENSIONER BRACKET.



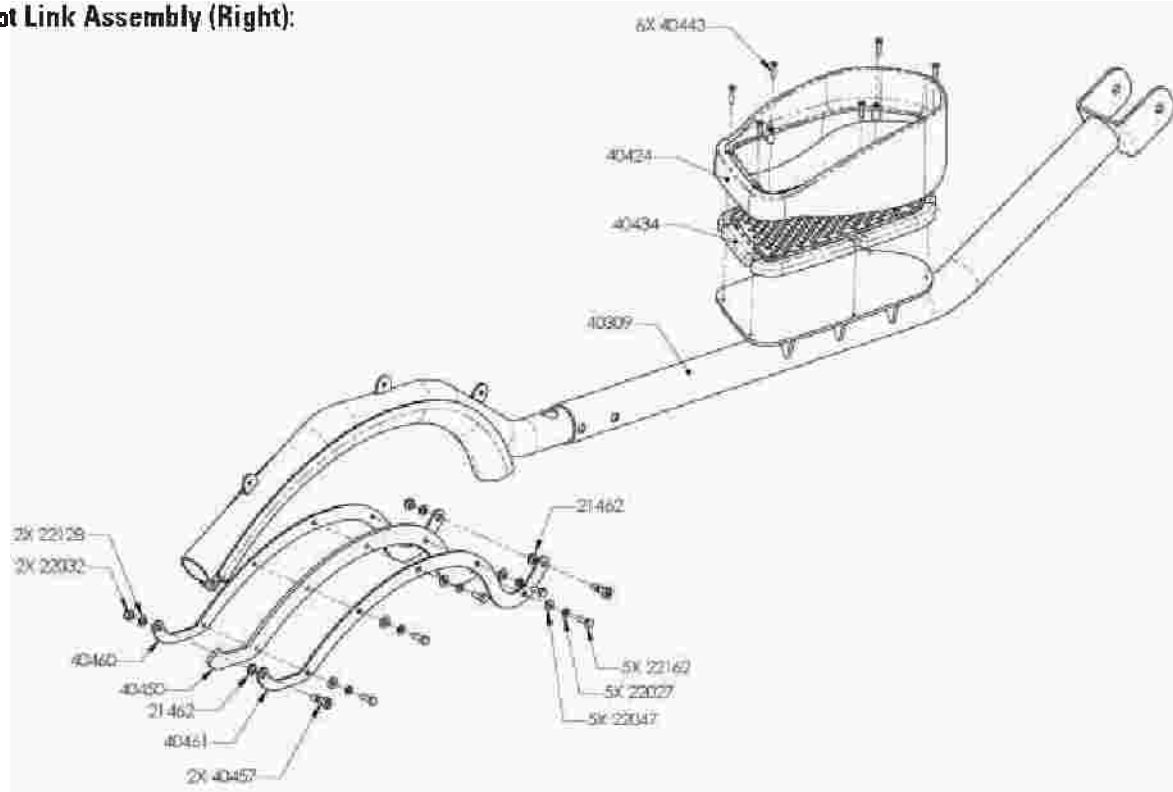
Alternator Assembly:



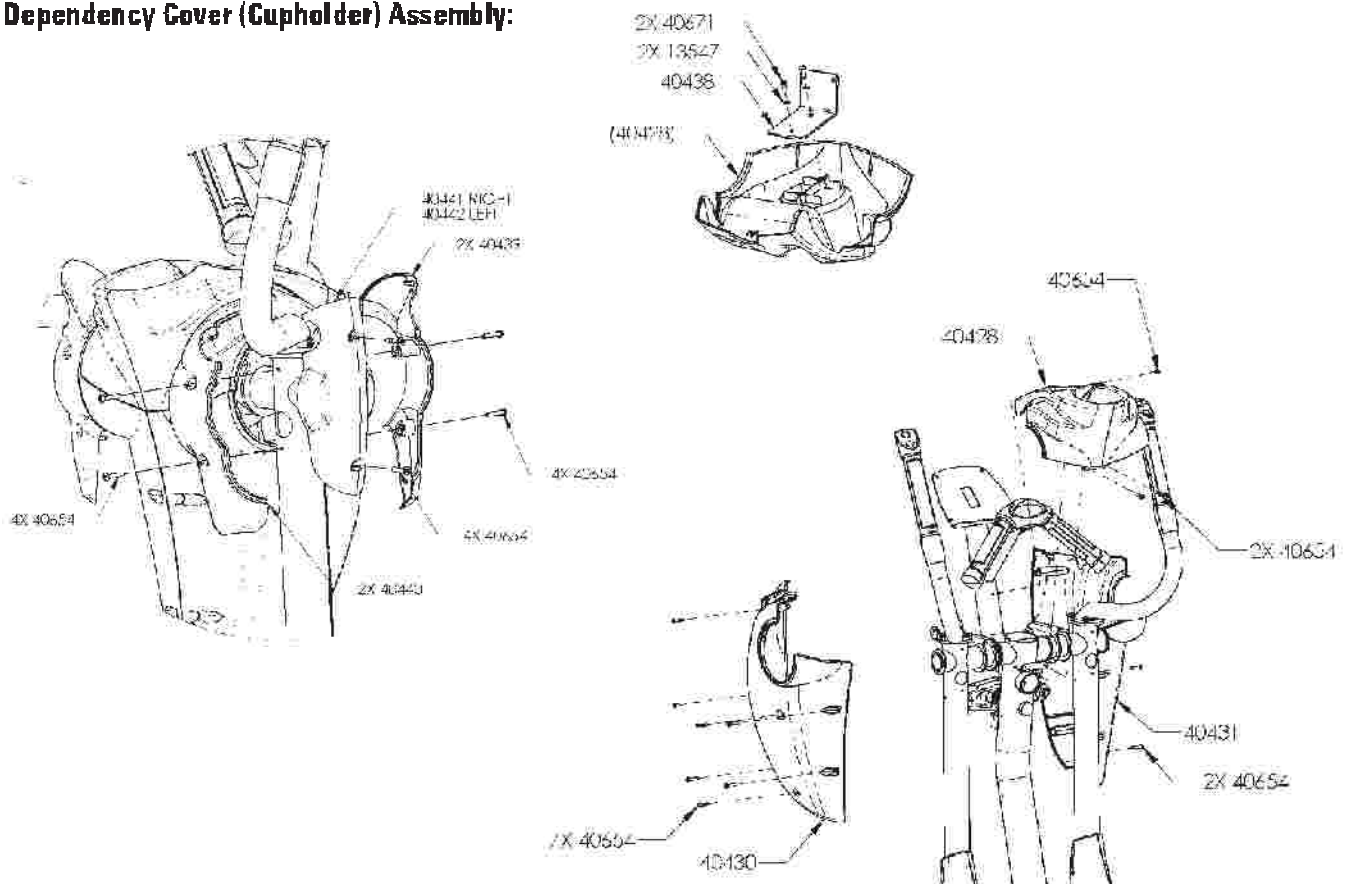
Foot Link Assembly (Left):



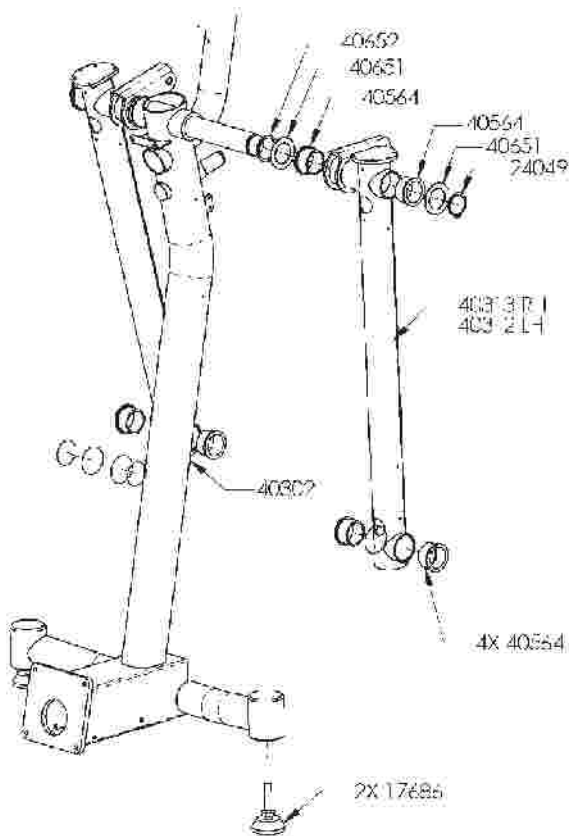
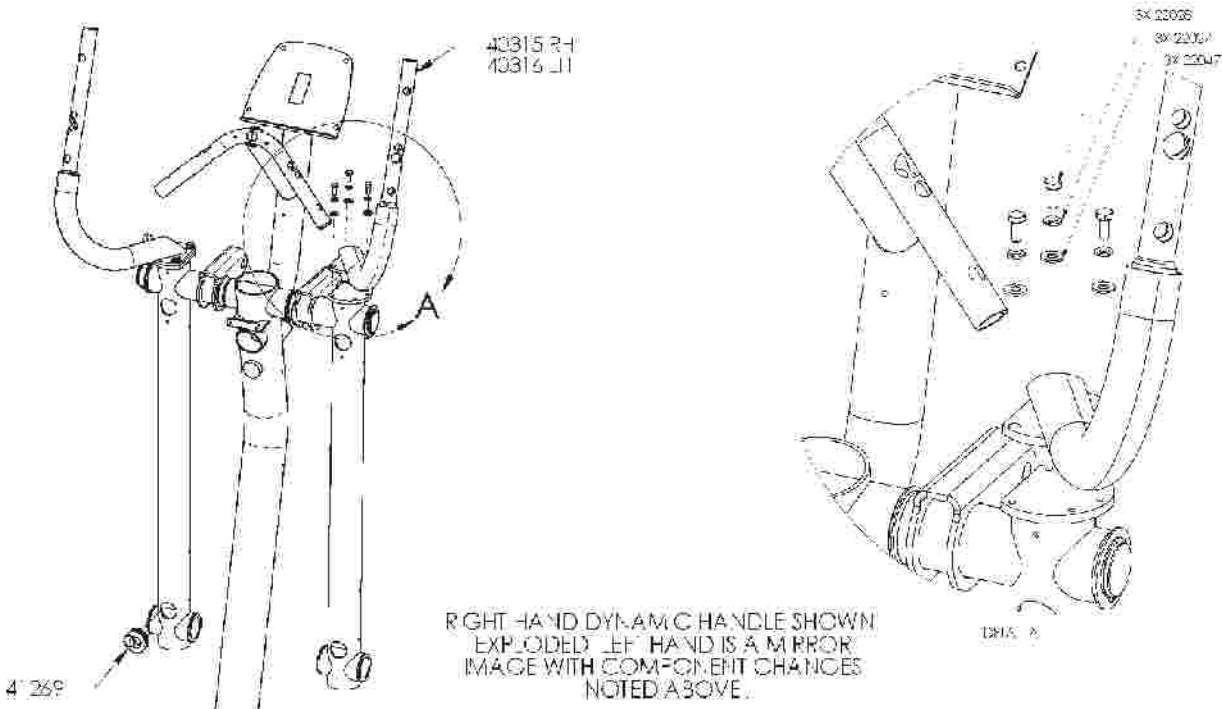
Foot Link Assembly (Right):



Dependency Cover (Cupholder) Assembly:

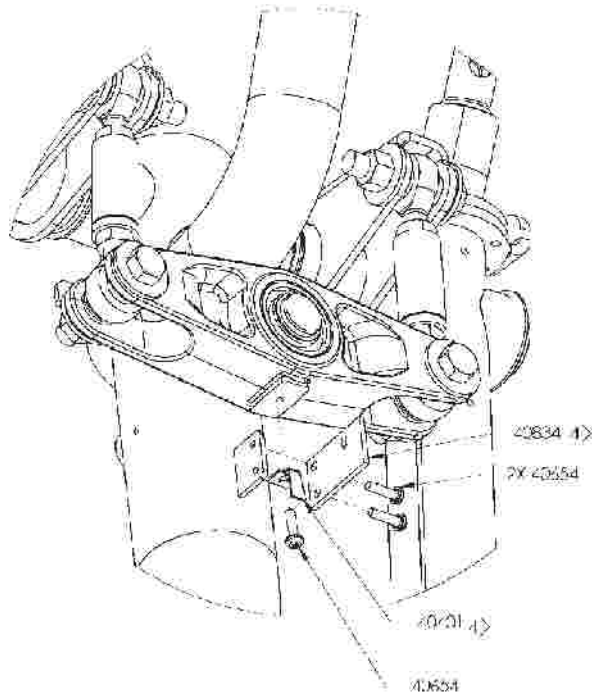


Swing Arm Assembly:



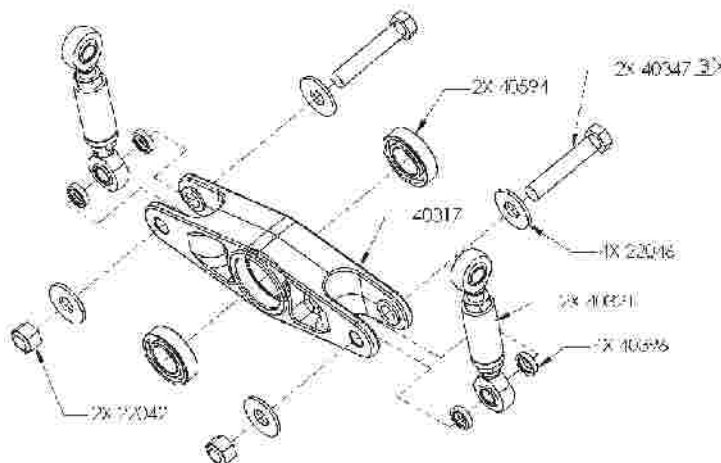
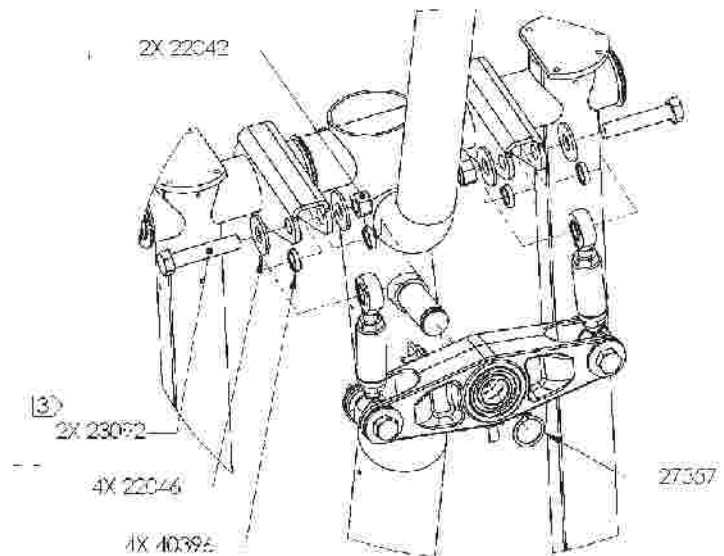
SWING ARM ASSEMBLY RIGHT SIDE
SHOWN EXPLODED. LEFT SIDE IS AN
EXACT DUPLICATE.

Dependency Link Assembly:

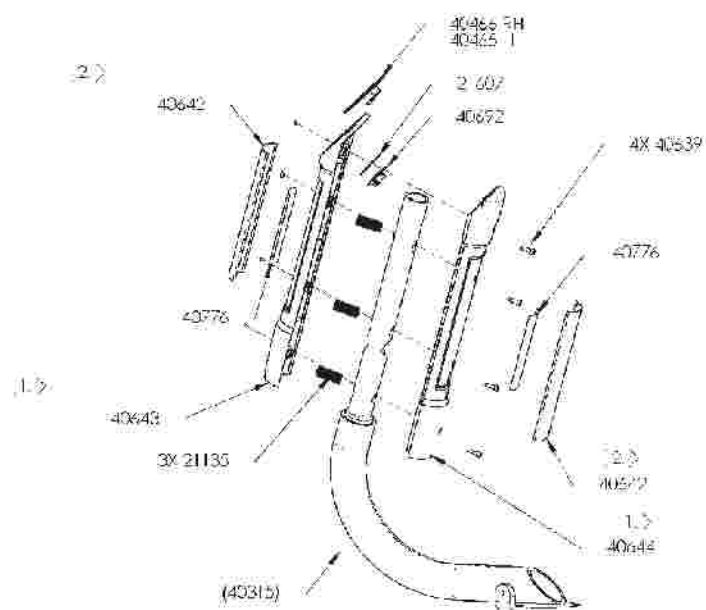


NOTES:

- 3) TORQUE TO 45 F. LBS.
- 4) ADJUST STRIDE SENSOR BRACKET (40401) AND STRIDE SENSOR PCB (40400) SO THEY DO NOT CONTACT EACH OTHER DURING OPERATION. BRACKET SHOULD BE CENTERED IN SLOT OF PCB.



Dynamic (Upper Body) Handle Assembly:



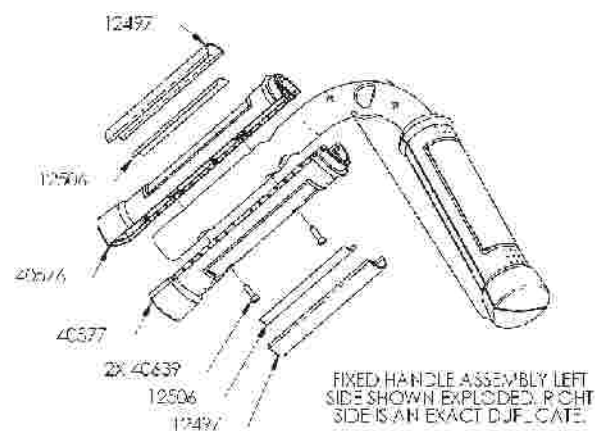
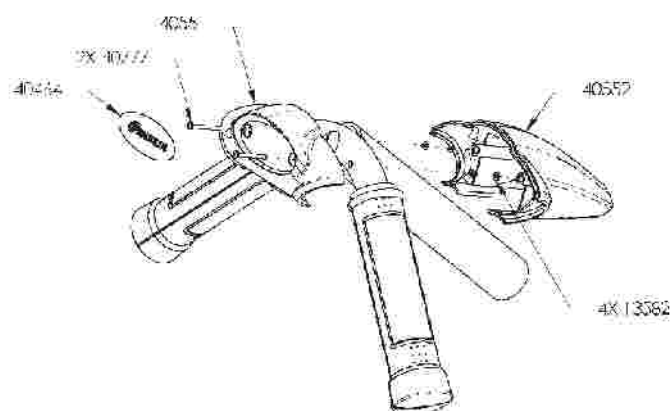
NOTES

1. BE CAREFUL NOT TO PINCH WIRES WITH PLASTIC HOUSING DURING ASSEMBLY.
2. ZIP TIL CONTACTS TO PLASTIC.

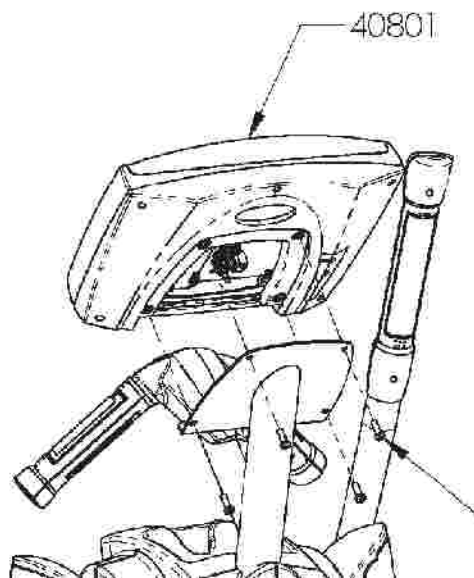
RIGHT HAND DYNAMIC HANDLE
ASSEMBLY SHOWN EXPLODED
DUPLICATE FOR LEFT - AND SIDE

ASSEMBLY SHOWN FROM RIGHT SIDE
OF FRONT MAST, LOOKING TOWARD
REAR DRIVE.

Fixed (T-Bar) Handle Assembly:



Console Mount:



POSITION CONSOLE SO THAT CABLES CAN BE
CONNECTED USING THE PROPER CONNECTORS.

4X 40670

Service Parts List - E916

Part number information in the following table is meant to help you identify the parts in the drawings for ordering replacement parts. Call an authorized Nautilus® representative at 1-800-NAUTILUS (624-8458) to order replacement parts and get assistance with your specific replacement or service requirements. Items with no warranty code or part number are replaceable only as part of a higher-level assembly only.

WARRANTY NOTES (FOR UNITS IN USA ONLY):

- 1 - Part covered under standard 3-year parts warranty for replacement.
- 2 - Part covered under standard 1-year wear item warranty for replacement.
- 3 - Part covered under standard 15-year frame warranty for replacement.

Table 5-2. Part Identifier List – E916 Elliptical

SRVC#	WRNTY-CODE	PART NO. / LEVEL				DESCRIPTION			
		-1	-2	-3	-4				
SM25067	2	25067				ASSY.,BC-1, POWER SUPPLY			
NA			14029			PINS,CPC			
NA			21179			CONNECTOR,CPC 11-4 PLUG REVRSE			
NA			21184			CONNECTOR, BACKSHELL			
NA			21757			DECAL,WARNING,BATTERY CHARGER			
NA			25066			POWER SUPPLY,BC-1,1A WALL PACK			
SM27857	2	27857				COMMERCIAL PRODUCT WARRANTY			
NA	2	40334				MANUAL, OWNERS, CD, EV916/E916			
NA	2	40335				MANUAL, OWNERS, EV916/E916			
NA	2	40388				MANUAL, ASSY, E916/EV916			
SM12212	2	12212				KEY,.250 SQUARE X .750 LONG			
SM12419	2	12419				KEY, .250 SQ X 2.50 LONG			
SM22030	2	22030				WASHER, 3/8 USS FLAT			
SM22042	2	22042				NUT,.500-13,NYLON INSERT			
SM22046	2	22046				WASHER,FLAT,.562x1.375 x .109			
SM22242	2	22242				SCREW,.375-16X.75,HEX HD CAP			
SM23729	2	23729				WASHER, 3/8 SPLIT LOCK			
SM26669	2	26669				SCREW,.500-13x4.50,HEX HD CAP			
SM29062	2	29062				SCREW,1/4-28X 5/8 SOCKET HD CP			
SM40358	2	40358				SHAFT, SWING ARM PIVOT			
SM40381	1	40381				COVER, CRANK, STEEL			
SM40426	2	40426				COVER, KNUCKLE, FRONT LEFT			
SM40427	2	40427				COVER, KNUCKLE, FRONT RIGHT			
SM40436	2	40436				DECAL,ID,RIGHT			
SM40437	2	40437				DECAL,ID,LEFT			

SRVC#	WRNTY- CODE	PART NO. / LEVEL				DESCRIPTION			
		-1	-2	-3	-4				
SM40525	2	40525				COVER,DRIVETRAIN,RIGHT			
SM40526	2	40526				COVER,DRIVETRAIN,LEFT			
SM40527	2	40527				COVER,DRIVETRAIN,TOP			
SM40556	2	40556				COVER,FRONT,BOTTOM,LEFT			
SM40558	2	40558				COVER,FRONT,BOTTOM,RIGHT			
SM40592	2	40592				COVER,POD,TOP,LEFT			
SM40593	2	40593				COVER,POD,BOTTOM,LEFT			
SM40596	2	40596				COVER,POD,TOP,RIGHT			
SM40597	2	40597				COVER,POD,BOTTOM,RIGHT			
SM40616	1	40616				SPACER,CRANK SHAFT			
SM40654	1	40654				SCREW,10-32X.75,PANHD W/LK WAS			
SM40667	1	40667				SCREW, 5/16-18X.75,BH CAP,SS			
SM40668	1	40668				WASHER,FLAT,11/32IDX3/4ODX.050			
SM40669	1	40669				WASHER,SPRING LOCK,5/16,SS			
SM40670	1	40670				SCREW,1/4-20X.75,PAN HD,W/LOCK			
SM40751	1	40751				RING,RETAINING,EXTERNAL,15MM			
SM40783	1	40783				ASSEMBLY,CRANK ARM,RIGHT,V2			
SM12212			12212			KEY,.250 SQUARE X .750 LONG			
SM22036			22036			NUT,.250-20,NYLON INSERT			
SM22047			22047			WASHER,FLAT,1/4 ID X 5/8 OD			
SM27557			27557			RETAINING RING 5100-98			
SM40562			40562			SCREW,5/16-18 X 1.50 SHC W/NYL			
SM40594			40594			BEARING, BALL, 25 X 47 X 12			
SM40647			40647			WELDMENT,PIVOT,MISALIGNMENT			
NA				40595		HOUSING,BEARING,PIVOT,MISALIGN			
NA				40648		STUD,PIVOT MISALIGNMENT			
NA			40697			SCREW,1/4-20 X 3.50,HEX HD CAP			
NA			40767			BRACE,CRANK COVER,V2			
NA			40779			SPACER,ECCENTRIC SHAFT			
NA			40780			ARM,CRANK,V3			
NA			40930			CASTING,ECCENTRIC,CRANK ARM			
SM40784	1	40784				ASSEMBLY,CRANK ARM,LEFT,V2			
SM12212			12212			KEY,.250 SQUARE X .750 LONG			
SM22036			22036			NUT,.250-20,NYLON INSERT			
SM22047			22047			WASHER,FLAT,1/4 ID X 5/8 OD			
SM27557			27557			RETAINING RING 5100-98			
SM40562			40562			SCREW,5/16-18 X 1.50 SHC W/NYL			

SRVC#	WRNTY- CODE	PART NO. / LEVEL				DESCRIPTION			
		-1	-2	-3	-4				
SM40594			40594						BEARING, BALL, 25 X 47 X 12
SM40647			40647						WELDMENT,PIVOT,MISALIGNMENT
NA				40595					HOUSING,BEARING,PIVOT,MISALIGN
NA				40648					STUD,PIVOT MISALIGNMENT
NA			40697						SCREW,1/4-20 X 3.50,HEX HD CAP
NA			40767						BRACE,CRANK COVER,V2
NA			40779						SPACER,ECCENTRIC SHAFT
NA			40780						ARM,CRANK,V3
NA			40930						CASTING,ECCENTRIC,CRANK ARM
SM40884		40884							ASSEMBLY,CONNECTING ARM, V2
SM40575	1		40575						BEARING,BALL,15MM X 35MM X14MM
NA	1		40580						RING,RETAIN,INT,35MM IR 1.375"
NA	3		40885						WELDMENT,CONNECTING ARM,V2
NA				40886					TUBE,CONNECTING ARM, V2
NA					30114				TUBING,HREW 1.00 X .120
NA				40887					WELDMENT,BEARING HSING,CONN AR
NA					40888				TUBE,BEARING HOUSING,CONN ARM
NA					40889				EXTENSION,BEARING HSING,CONN A
NA				40915					WELDMNT,BEARNG HSING,CONN AR,S
NA					40889				EXTENSION,BEARING HSING,CONN A
NA					40916				TUBE,BEARNG HSING,CONN ARM,SHO
NA	1	40890							PLUG,F/1.50 DIA.TUBING,14-20GA
SM40908	1	40908							WASHER,THRUST,.562X1.00X.062
SM40951		40951							ASSEMBLY,REAR DRIVE,E916
NA	1		12760						KEY, .250 SQ X 3.00 LONG
NA	1		13584						CABLE,ALTERNATOR,3300CE/3900RC
NA				13548					RECEPTACLE,FASTON,INS,.25 14AW
NA				13573					CONNECTOR,4 POSITION PLUG
NA				14071					CONNECTOR, SOCKET 20-14 AWG
NA				20267					TERMINAL,#10 RING,14-16 AWG1
NA				20473					TYRAP, 1/8 X 4
NA				21639					TYRAP, MARKER TIE
NA				21784					WIRE,14 AWG,WHITE
NA				21785					WIRE,14 AWG,BROWN
NA				21786					WIRE,14 AWG,BLACK
SM17686	1		17686						LEVELING PAD
SM21448	1		21448						SCREW,.375-16 x 4.50 HEX HD CP

SRVC#	WRNTY-CODE	PART NO. / LEVEL				DESCRIPTION			
		-1	-2	-3	-4				
SM21774	1		21774						PIN,HITCH
SM22029	1		22029						NUT,.375-16,NYLON INSERT
SM22030	1		22030						WASHER, 3/8 USS FLAT
SM22047	1		22047						WASHER,FLAT,1/4 ID X 5/8 OD
SM22070	1		22070						WASHER,.312 SPLIT LOCK
SM22093	1		22093						SCREW,.312-18X.75,HEX HD CAP
SM22116	1		22116						SCREW,.250-20X2.50,HEX HD CAP
SM22191	1		22191						WASHER,SHOULDER,.38 I.D.
SM22214	1		22214						WASHER, FLAT, .312 SAE
SM22326	1		22326						PIN,CLEVIS
SM22663	1		22663						SCREW,#6 X .50 PHIL,TYPE T
SM22878	1		22878						SCREW,SET,SOCKET,.250-28 X .38
SM22883	1		22883						SCREW, SET,SOCKET,3/8-16 X .38
SM22937	1		22937						SCREW,.375-16 X 3.50,HX HD CAP
SM23729	1		23729						WASHER, 3/8 SPLIT LOCK
SM24640	1		24640						SCREW,.375-16 X 1.75 HX HD CAP
SM25978	1		25978						WHEEL, 3" DIA
SM40501	3		40501						WELDMENT,REAR FRAME,STRIDEMAST
SM40530	1		40530						PULLEY,DRIVE,MACHINED
SM40528-05				40528					HUB,PULLEY,DRIVE
SM40598	3		40598						WELDMENT, ALTERNATOR TENSIONER
NA				40599					TAB,ALTERNATOR,TENSIONER
NA				40600					SHAFT,THREADED,ALTERNATOR,TENS
SM40601			40601						ASSEMBLY,LOWER CONTROL BOARD
SM13572	1			13572					ASSY,PCB,POWER CONTROL BOARD
SM14123	1			14123					BATTERY,6V
SM22109	1			22109					WASHER, #8 INTERNAL TOOTH LOCK
SM22133	1			22133					SCREW,#8-32 X .75,PHIL PAN HD
SM22938	1			22938					FASTENER,HOOK
SM22939	1			22939					FASTENER,LOOP
SM24279	1			24279					TYRAP,.14x11.0
SM25206	1			25206					SIL PAD
SM40635	1			40635					ASSY,LOWER CONTROL BOARD BRACK
SM40603			40603						ASSY,RESISTOR & BRACKET,STRIDE
NA	1			22022					NUT, 1/4-20 NC FINISH HEX
NA	1			22027					WASHER,.250 SPLIT LOCK
NA	1			22047					WASHER,FLAT,1/4 ID X 5/8 OD

SRVC#	WRNTY-CODE	PART NO. / LEVEL				DESCRIPTION			
		-1	-2	-3	-4				
NA	1			25611					ASSEMBLY, RESISTOR, 3800
SM13580	1				13580				WASHER,#8 SAE FLAT
SM22109	1				22109				WASHER, #8 INTERNAL TOOTH LOCK
SM22110	1				22110				NUT,#8-32,HEX MACH
SM22134	1				22134				SCREW,#8-32 X .38,PHIL PAN HD
SM23783	1				23783				ASSY,CABLE,RESISTOR
SM24989	1				24989				RESISTOR,0.5 OHM, 240 WATT
SM40604	1			40604					BRACKET,RESISTOR,HEAT SHIELD
SM40632	1			40632					SCREW,.250-20UNC X .75LG SHG
SM40605	3		40605						WELDMENT, INT PULLEY TENSIONER
SM40607				40607					HUB,INTERMEDIATE PULLEY SHAFT
SM40631				40631					ASSY,INTERMED PULLEY BRACKET
NA					25218				NUT,SELF CLINCHING,.250-20
NA					25325				PEM NUT, 3/8-16
NA					40606				BRACKET,INTERMED PULLEY TENSIO
SM40608	1		40608						SHAFT,INTERMEDIATE PULLEY
SM40609	1		40609						SPACER,INTERMEDIATE SHAFT,LEFT
SM40610	1		40610						SPACER,INTERMEDIATE SHAFT,RIGHT
SM40611	1		40611						SHAFT,CRANK
SM40654	1		40654						SCREW,10-32X.75,PANHD W/LK WAS
SM40678	1		40678						CABLE,ASSY,BATTERY,ELLIPTICAL
SM40734	1		40734						BEARING,1" PILLOW BLOCK,NO COL
SM40844	1		40844						CABLE ASSY,MAIN LOWER,EV916
SM40909	1		40909						BELT,POLY-V,61",J,10 RIBS
SM40910	1		40910						BELT,POLY-V,38",J,6 RIB
SM40952			40952						ASSEMBLY,INTERMEDIATE PULLEY
NA	1			12221					INTERMEDIATE PULLEY, MOLDED
NA					12347				HUB, INTERMEDIATE PULLY
SM23322	1			23322					BEARING, BALL 17MM X 40MM
SM40953			40953						ASSEMBLY,ALTERNATOR
SM20205	1			20205					ALTERNATOR,PRESTOLITE,1992
SM21204	1			21204					ASSY,FIELD,DIODE
NA					20456				CONNECTOR, LUG 18-22 AWG
NA					20751				TERMINAL,#10 RING,16-22 AWG
NA					22261				DIODE, IN5404
SM21445	1			21445					ASSY.,SPEED SENSOR,CLIM.SYS,CL
NA					21126				CONNECTOR,2-POS SOCKET HOUSING

SRVC#	WRNTY- CODE	PART NO. / LEVEL				DESCRIPTION			
		-1	-2	-3	-4				
NA					21127				CONNECTOR, SOCKET
NA					24584				SENSOR, INDUCTIVE
SM21778	1			21778					NUT,FLANGE (ALT-FLYWHEEL)
SM22027	1			22027					WASHER,.250 SPLIT LOCK
SM22036	1			22036					NUT,.250-20,NYLON INSERT
SM22047	1			22047					WASHER,FLAT,1/4 ID X 5/8 OD
SM22164	1			22164					SCREW,.250-20X1.25,HEX HD CAP
SM22517	1			22517					DISK,SPEED,SENSOR,4400CL
SM22884	1			22884					CLAMP,CABLE,11/16" DIA.
SM40329	1			40329					FLYWHEEL, CAST, 5300
SM40954		40954				ASSEMBLY,FRONT MAST			
SM12497	2		12497						CONTACT PLATE, CHR
SM12506	2		12506						ADHESIVE TRANSFER TAPE, 5 MIL
SM17686	1		17686						LEVELING PAD
SM22027	1		22027						WASHER,.250 SPLIT LOCK
SM22028	1		22028						SCREW,.250-20X.63,HEX HD CAP
SM22047	1		22047						WASHER,FLAT,1/4 ID X 5/8 OD
SM24049	1		24049						SNAP RING, EXTERNAL, 1.50 DIA.
SM24279	1		24279						TYRAP,.14x11.0
SM24432	1		24432						WASHER,#10 SAE FLAT,ZINC PLATD
SM25165	1		25165						RECEIVER,PLUG-IN,POLAR
SM40464	2		40464						DECAL,CONSOLE BACK
SM40551	2		40551						COVER,ERGOBAR,FRONT
SM40552	2		40552						COVER,ERGOBAR,BACK
SM40567	2		40567						COVER,SWING ARM,TOP
SM40568	2		40568						COVER,SWING ARM,TOP,WITH INSR
SM40576	2		40576						HOUSING,CHR,FIXED,TOP
SM40577	2		40577						HOUSING,CHR,FIXED,BOTTOM
SM40639	1		40639						SCREW,6-32 X .438 LG SHC
SM40651	1		40651						WASHER,NYLATRON,1.505 X 2.250
SM40652	1		40652						WASHER,WAVE,1.560 X 1.8750 X
SM40654	1		40654						SCREW,10-32X.75,PANHD W/LK WAS
SM40679	1		40679						CABLE,ASSY,T-BAR GRIP TO CONSO
SM40710	1		40710						CABLE ASSY,CONSOLE-INLINE,ELLI
SM40776	1		40776						ADHESIVE,TRANSFER TAPE,25 MIL
SM40777	1		40777						SCREW,6-32 X 1.5" LG HEX SHC
SM40836	1		40836						ASSY,CABLE, VSL PLUG-IN, POLAR

SRVC#	WRNTY- CODE	PART NO. / LEVEL				DESCRIPTION			
		-1	-2	-3	-4				
SM40880	2		40880						COVER, CUP HOLDER, TOP, V2
SM40881	2		40881						COVER, CUP HOLDER, BOTTOM, V2
SM40892	3		40892						WELDMENT, CONSOLE MOUNT, V2
SM40955			40955						ASSEMBLY, SWING ARM
SM40564	1			40564					BEARING, IGUS JFI-2428-16
SM40893	3			40893					WELDMENT, SWING ARM, E916, V2
SM40380					40380				HOUSING, BEARING, SWING ARM
NA					40409				PLATE, MOUNTING, UPPER HANDLE
SM40410					40410				HOUSING, BEARING, SWING ARM, LOWE
NA					40561				TUBE, SWING ARM
SM40956			40956						ASSY, UPPER BODY, ARM, RIGHT, E916
SM21135	1			21135					LOOM, FLEXIBLE .350 I.D.
NA	2			21607					TAPE, DOUBLE SIDED FOAM
NA	2			40466					KEYPANEL, HANDRAIL, RIGHT, EV9.16
NA	1			40639					SCREW, 6-32 X .438 LG SHC
NA	2			40642					CONTACT PLATE, CHR, LONG
NA	2			40643					HOUSING, CHR, DYNAMIC, FRONT
NA	2			40644					HOUSING, CHR, DYNAMIC, REAR
NA	1			40680					ASSY, CABLE, ELLIPTICAL SWINGARM
SM40692	1			40692					PCB ASSEMBLY, ELLIPT SWINGARM
SM40761	2			40761					LABEL, SWING ARM, WIRE, LH
SM40776	2			40776					ADHESIVE, TRANSFER TAPE, 25 MIL
SM40896	3			40896					WELDMENT, UPPER BODY, RIGHT, V2
NA					40571				PLATE, UPPER BODY HANDLE, TOP
NA					40653				TUBE, CHR, UPPER BODY HANDLE
NA					40906				TUBE, UPPER BODY, RIGHT, V2
SM40957			40957						ASSY, UPPER BODY, ARM, LEFT, E916
SM21135	1			21135					LOOM, FLEXIBLE .350 I.D.
NA	2			21607					TAPE, DOUBLE SIDED FOAM
SM40465	2			40465					KEYPANEL, HANDRAIL, LEFT, EV9.16
SM40639	1			40639					SCREW, 6-32 X .438 LG SHC
SM40642	2			40642					CONTACT PLATE, CHR, LONG
SM40643	2			40643					HOUSING, CHR, DYNAMIC, FRONT
SM40644	2			40644					HOUSING, CHR, DYNAMIC, REAR
SM40680	1			40680					ASSY, CABLE, ELLIPTICAL SWINGARM
SM40692	1			40692					PCB ASSEMBLY, ELLIPT SWINGARM
SM40760	2			40760					LABEL, SWING ARM, WIRE, RH

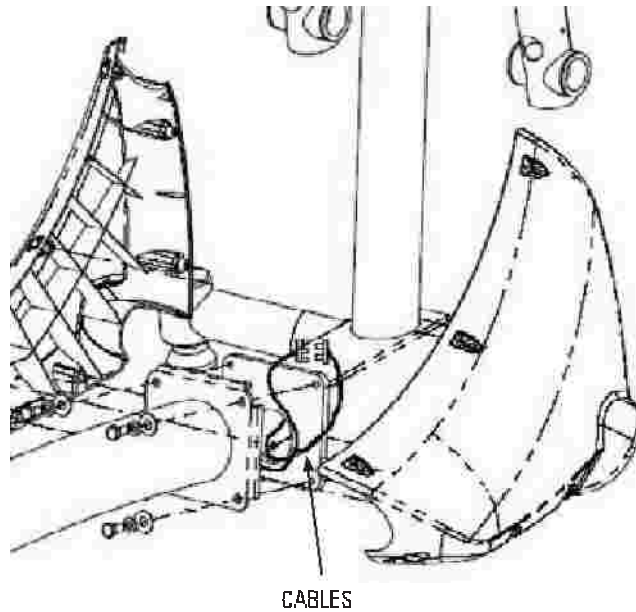
SRVC#	WRNTY-CODE	PART NO. / LEVEL				DESCRIPTION			
		-1	-2	-3	-4				
SM40776	2			40776					ADHESIVE, TRANSFER TAPE, 25 MIL
SM40895	3			40895					WELDMENT, UPPER BODY, LEFT, V2
NA					40571				PLATE, UPPER BODY HANDLE, TOP
NA					40653				TUBE, CHR, UPPER BODY HANDLE
NA					40905				TUBE, UPPER BODY, LEFT, V2
SM40958		40958							ASSEMBLY, FOOT LINK, RIGHT
SM40424	2		40424						HOUSING, FOOT PAD, RIGHT
SM40434	2		40434						FOOT PAD, RIGHT
SM40443	1		40443						SCREW, 10-32 X 1.0, OVAL HD, PHL
SM40646	1		40646						SHAFT, FOOT PIVOT
SM40667	1		40667						SCREW, 5/16-18X.75, BH CAPSS
SM40668	1		40668						WASHER, FLAT, 11/32IDX3/40DX.050
SM40669	1		40669						WASHER, SPRING LOCK, 5/16, SS
SM40877	3		40877						WELDMENT, FOOT SUPPORT, RIGHT, V5
NA				40798					BRKT, MTING, CONN ARM, FRONT, R, V2
NA				40883					SHAFT, CONNECTING ARM, FRONT, V3
NA				40914					ASSY, BRACKET, FOOT SUPRT, W/PEM, R
NA					40912				BRACKET, FOOT SUPPORT, 1 TAB, R, V2
NA					41145				NUT, SELF-CLINCHING, 10-32
SM40960			40960						ASSY, FOOT LINK W/BEARING, RIGHT
NA	1			40591					BEARING, IGUS JFI-141618-11
NA	3			40898					WELDMENT, FOOT LINK, RIGHT, V2
NA					40444				BRACKET, MOUNTING, LEG LINK
NA					40584				PLATE, SUPPORT, FOOT PIVOT, SIDE
NA					40585				HOUSING, BEARING, FOOT PIVOT
NA					40586				PLATE, SUPPORT, FOOT PIVOT, FRONT
NA					40587				PLATE, SUPPORT, FOOT PIVOT, REAR
NA					40588				BRACKET, FOOT LINK, MISALIGNMENT
NA					40589				GUSSET, FOOT LINK, MISALIGNMENT
NA					40904				TUBE, FOOT LINK, V2
SM40959		40959							ASSEMBLY, FOOT LINK, LEFT
SM40425	2		40425						HOUSING, FOOT PAD, LEFT
SM40435	2		40435						FOOT PAD, LEFT
SM40443	1		40443						SCREW, 10-32 X 1.0, OVAL HD, PHL
SM40646	1		40646						SHAFT, FOOT PIVOT
SM40667	1		40667						SCREW, 5/16-18X.75, BH CAPSS
SM40668	1		40668						WASHER, FLAT, 11/32IDX3/40DX.050

SRVC#	WRNTY- CODE	PART NO. / LEVEL				DESCRIPTION			
		-1	-2	-3	-4				
SM40669	1		40669						WASHER, SPRING LOCK, 5/16, SS
SM40876	3		40876						WELDMENT, FOOT SUPPORT, LEFT, V5
NA				40797					BRKT, MTING, CONN ARM, FRT, L, V2
NA				40883					SHAFT, CONNECTING ARM, FRONT, V3
NA				40913					ASSY, BRACKET, FOOT SUPRT, W/PEM, L
NA					40911				BRACKET, FOOT SUPPORT, 1 TAB, L, V2
NA					41145				NUT, SELF-CLINCHING, 10-32
SM40961			40961						ASSY, FOOT LINK W/BEARING, LEFT
NA	1			40591					BEARING, IGUS JFI-141618-11
NA	3			40897					WELDMENT, FOOT LINK, LEFT, V2
NA					40444				BRACKET, MOUNTING, LEG LINK
NA					40584				PLATE, SUPPORT, FOOT PIVOT, SIDE
NA					40585				HOUSING, BEARING, FOOT PIVOT
NA					40586				PLATE, SUPPORT, FOOT PIVOT, FRONT
NA					40587				PLATE, SUPPORT, FOOT PIVOT, REAR
NA					40588				BRACKET, FOOT LINK, MISALIGNMENT
NA					40589				GUSSET, FOOT LINK, MISALIGNMENT
NA					40904				TUBE, FOOT LINK, V2
SM40962	1	40962							WASHER, NEOPRENE
SM41531	1	41531							CONSOLE, C51, LCD, E916

Cable Connections - E916

The main cable connection for the E916 elliptical is shown below. Wiring diagrams for the E916 console, handles and main power are provided in Section 2.

Front Mast to Main Frame Connection:



CONNECT CABLE (43710) FROM FRONT MAST TO CABLE (43844) FROM MAIN FRAME CENTER TUBE BEFORE SECURING FLANGES TOGETHER. THE COLOR-CODED CABLES SNAP TOGETHER WITH THE M/F CONNECTORS FOR THE CORRESPONDING CABLE COLORS.

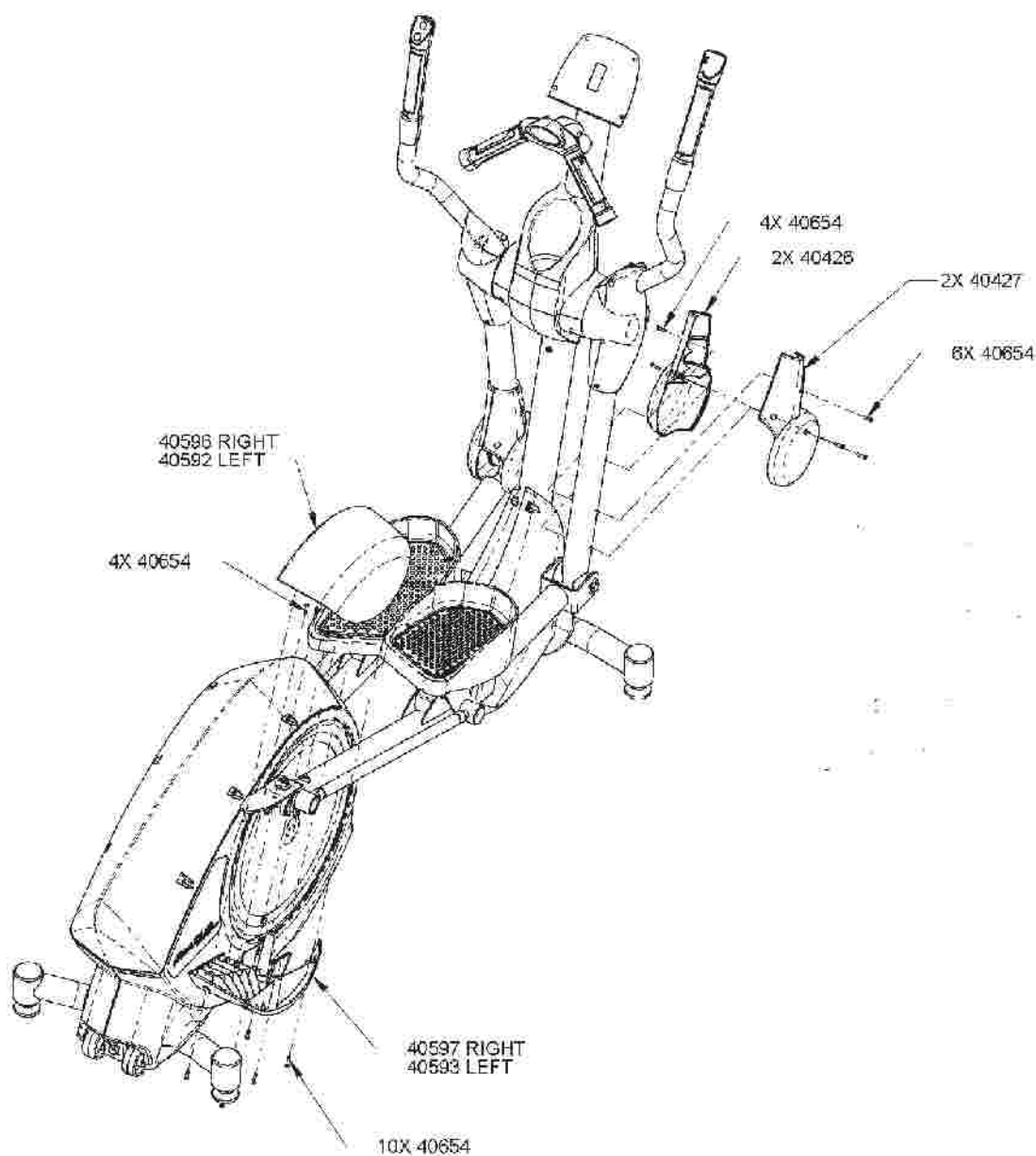
NOTE: TAKE CARE NOT TO PINCH CABLES WHEN ASSEMBLING.

Assembly Drawings Overview - E916

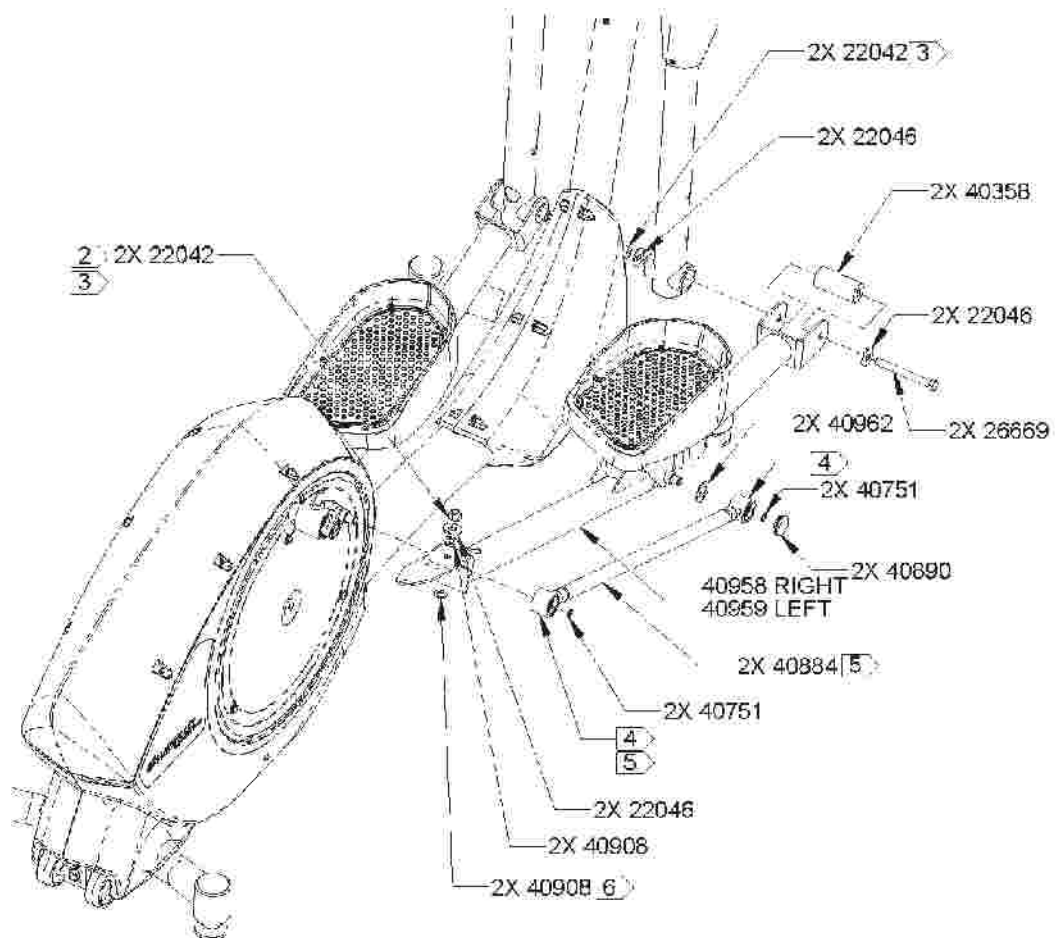
Refer to the Parts List in the preceding pages to locate information on the part numbers that are called out in the assembly drawings.

Some drawings include specific notes, represented by **1.**. Refer to these notes when replacing parts because they mention critical torque specs and other important information.

Cam Covers (Pods) and Front Knuckle Covers:



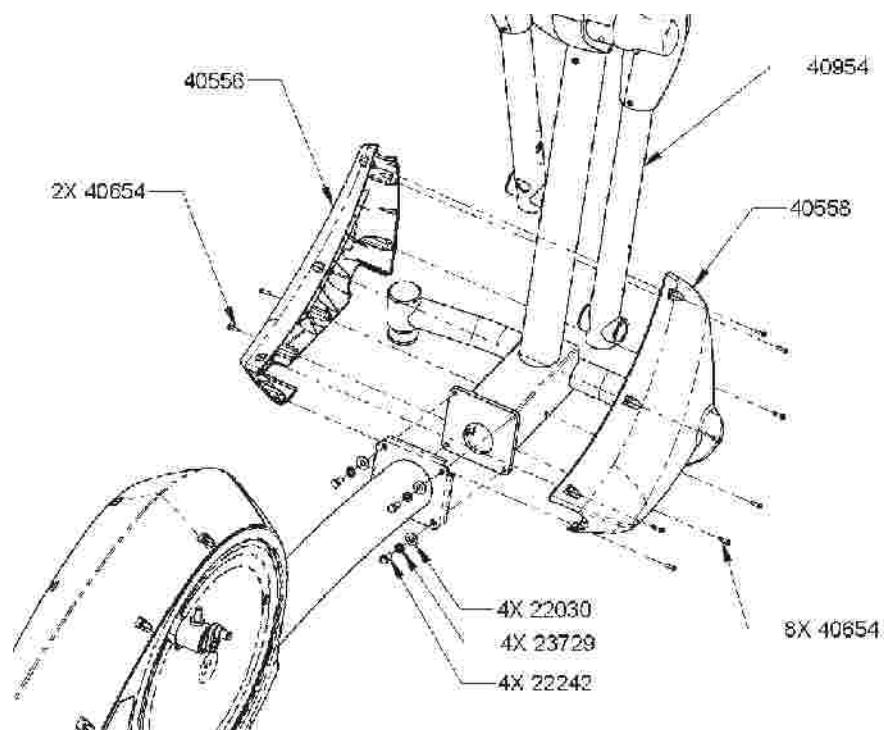
Swing Arm / Foot Link Assembly Junction:



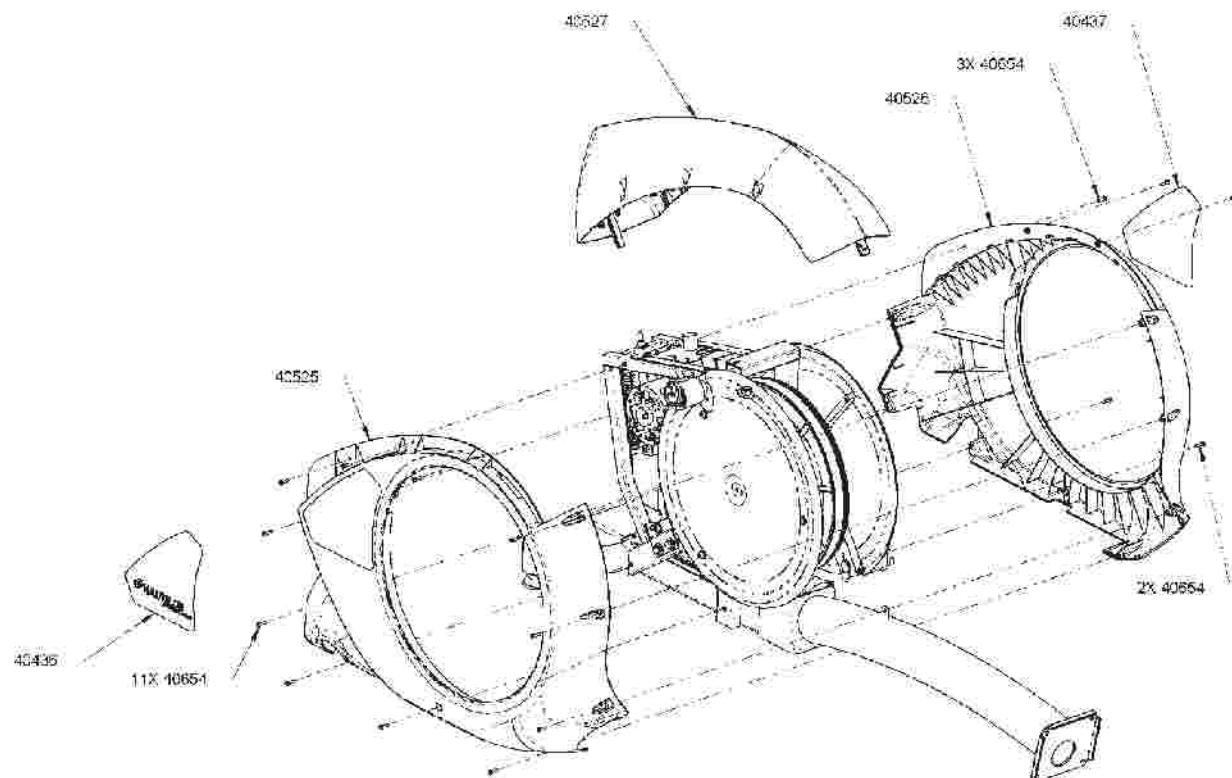
NOTES:

2. APPLY LOCTITE 272 (P/N 61309) TO THREADS.
3. TORQUE TO 45 FT-LB.
4. LARGER ID, WITH SNAP RINGS, SHOULD BE FACING OUT.
5. SHORTER BEARING HOUSING SHOULD BE AT BACK OF MACHINE.
6. APPLY BEARING GREASE TO BOTH SIDES OF WASHERS PRIOR TO ASSEMBLY.

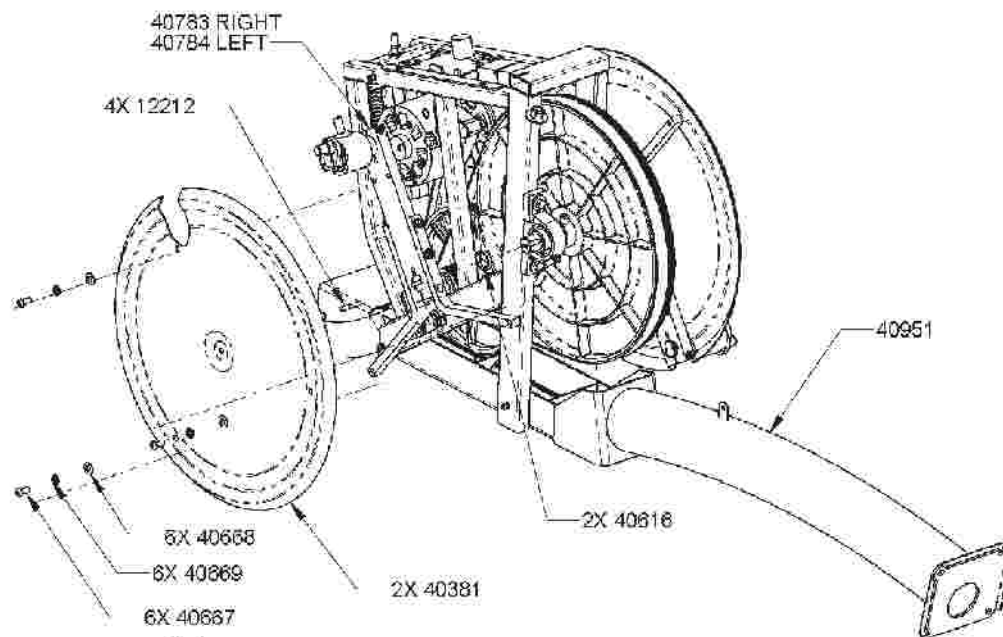
Front Mast Assembly / Main Frame Junction:



Drive Train Cover Assembly:

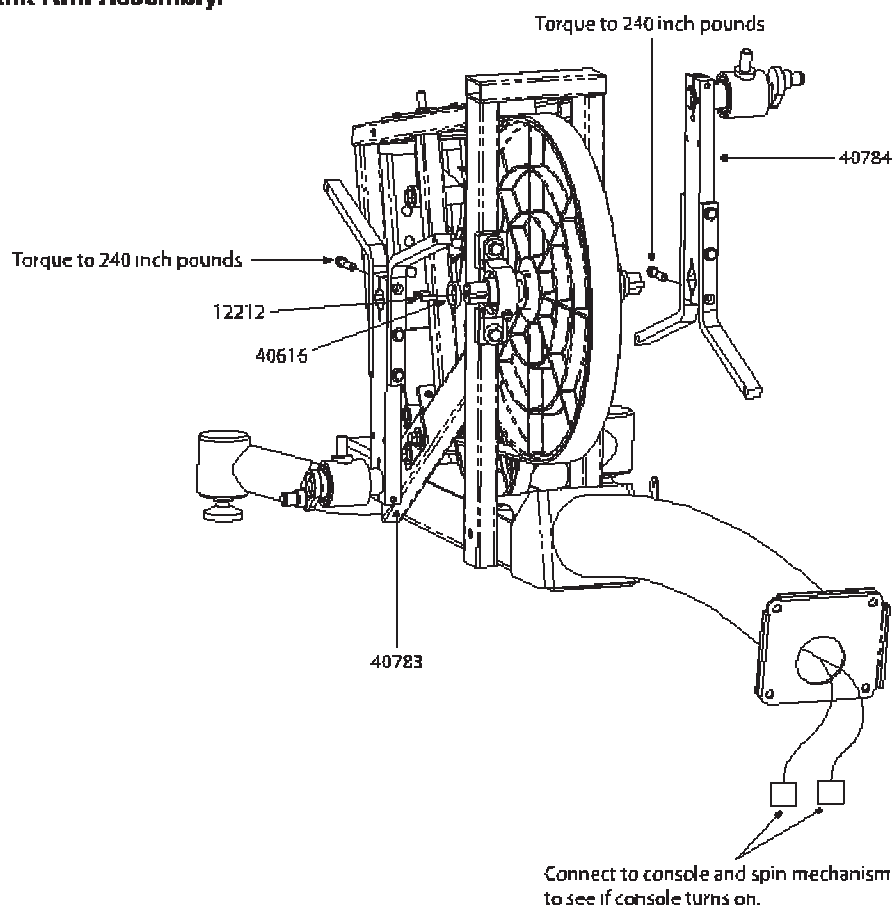


Crank Cover and Drive Train Assembly:

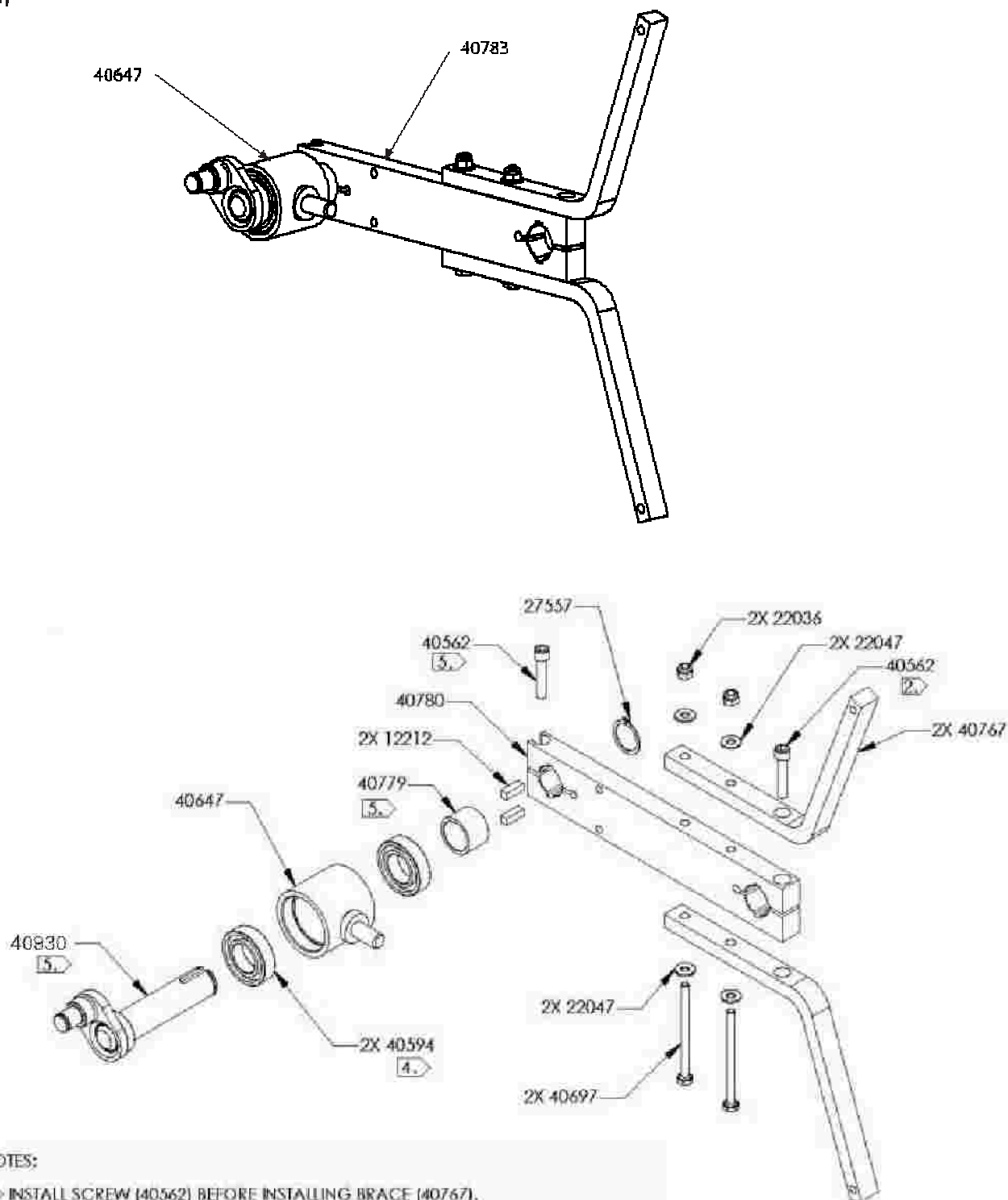


NOTES:
 [T] TORQUE TO 144 IN-LB.

Crank Arm Assembly:



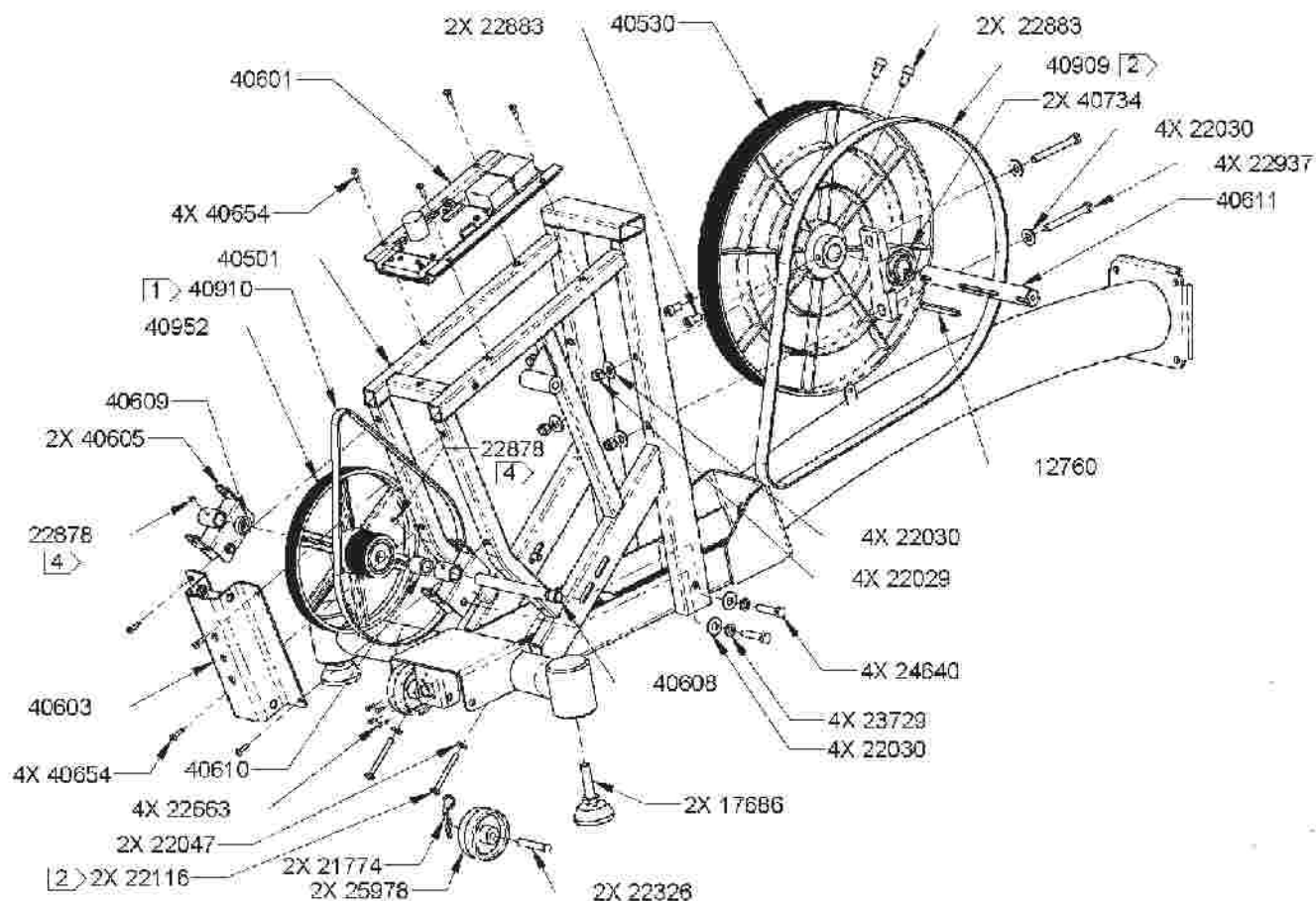
**Eccentric Crank Arm Assembly:
(detail)**



NOTES:

- ② INSTALL SCREW [40562] BEFORE INSTALLING BRACE [40767].
- ④ PRESS BEARING FLUSH TO EXTERIOR OF PIVOT MISALIGNMENT WELDMENT [40647]. PRESS ON OUTER RACE OF BEARING ONLY.
- ⑤ PRESS SHAFT UNTIL THERE IS NO IN AND OUT PLAY OF THE SPACER [40779]. VERIFY THAT KEYS [12212] ARE IN PROPER POSITION AND THEN TIGHTEN SCREW [40562] TO 240 IN. LB.

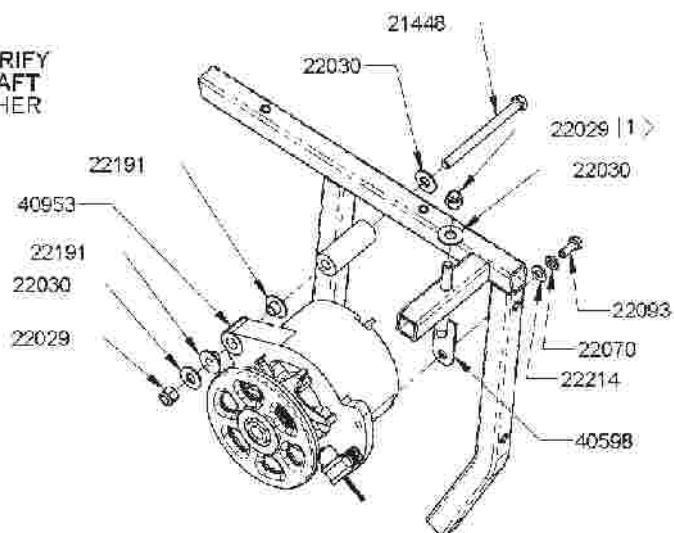
Rear Drive Assembly.



NOTES:

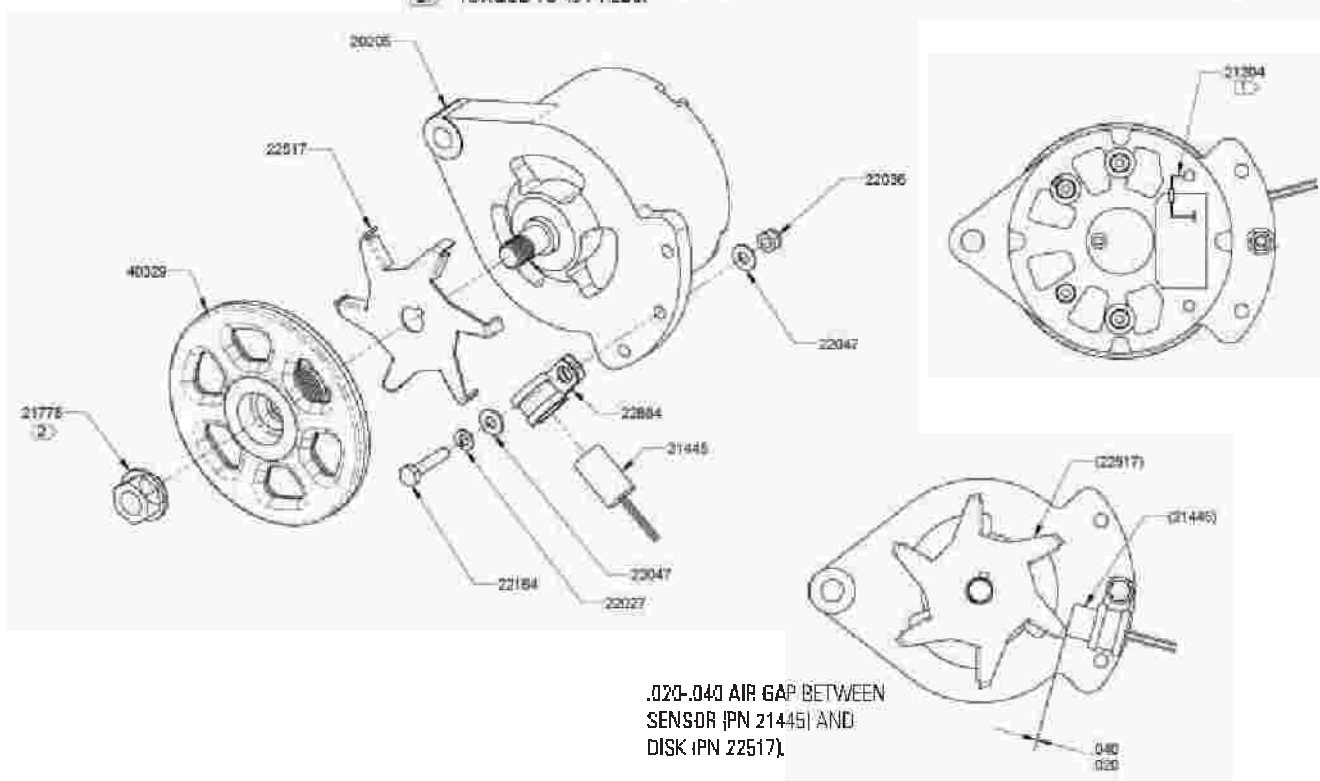
- [1] TENSION BELT TO 45-50 LBS.
- [2] TENSION BELT TO 85-95 LBS.

- [4] INSTALL GROOVE SIDE SET SCREW FIRST. VERIFY THAT SCREW IS ALIGNED WITH GROOVE IN SHAFT AND TIGHT BEFORE INSTALLING SCREW IN OTHER TENSION BRACKET.

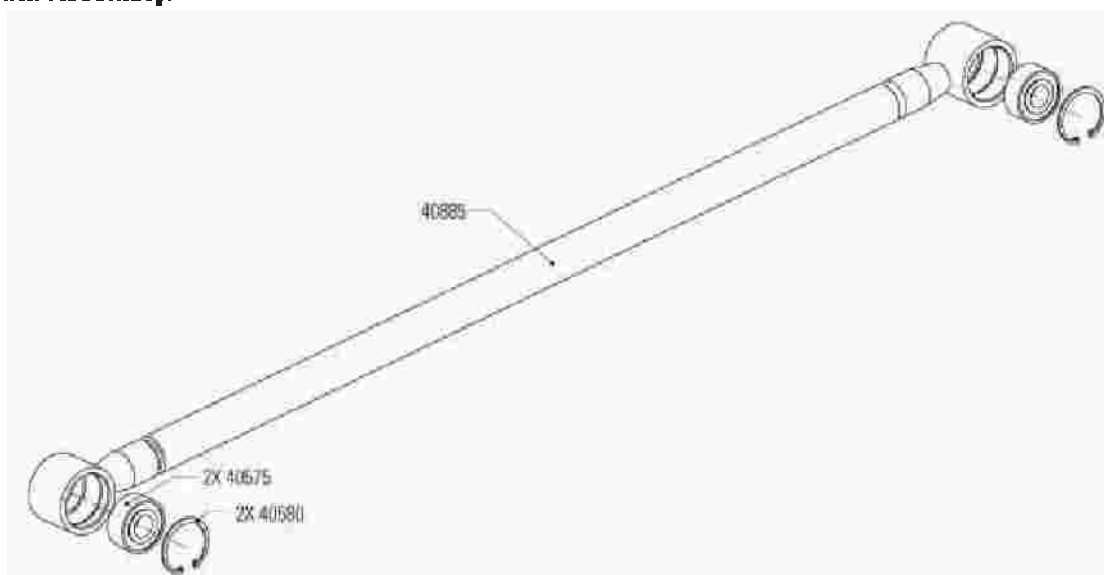


Alternator Assembly:

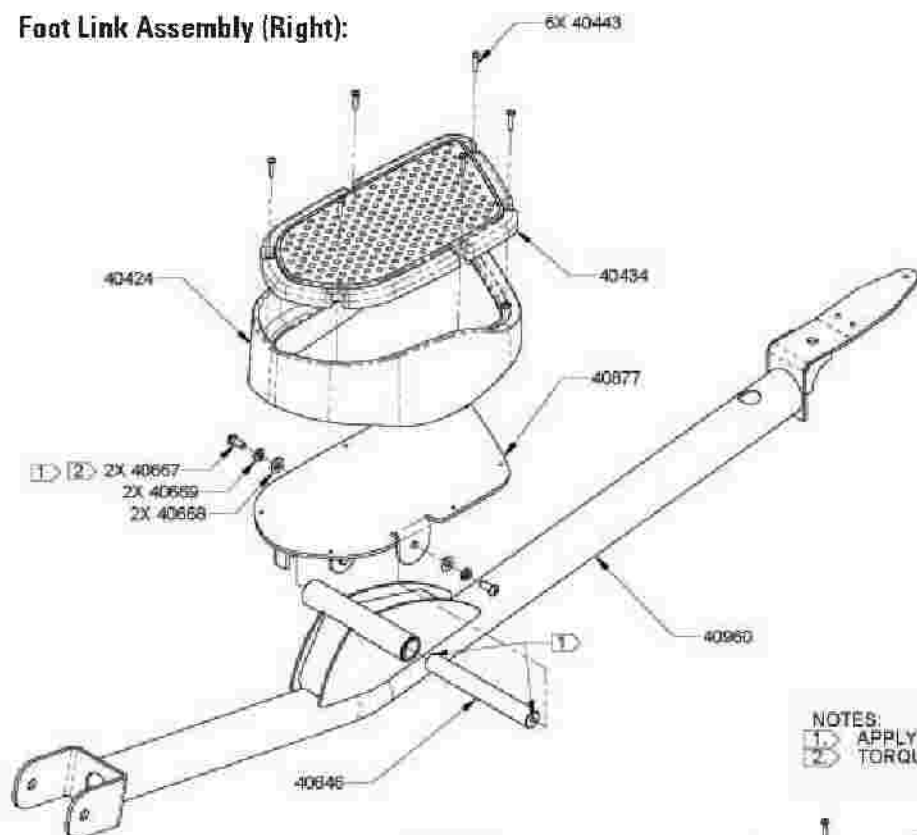
NOTES:
1 PLACE FIELD DIODE ASSEMBLY (21204) BETWEEN FIELD AND GROUND TERMINALS ON ALTERNATOR (20205).
2 TORQUE TO 40 FT.LBS.



Connecting Arm Assembly:

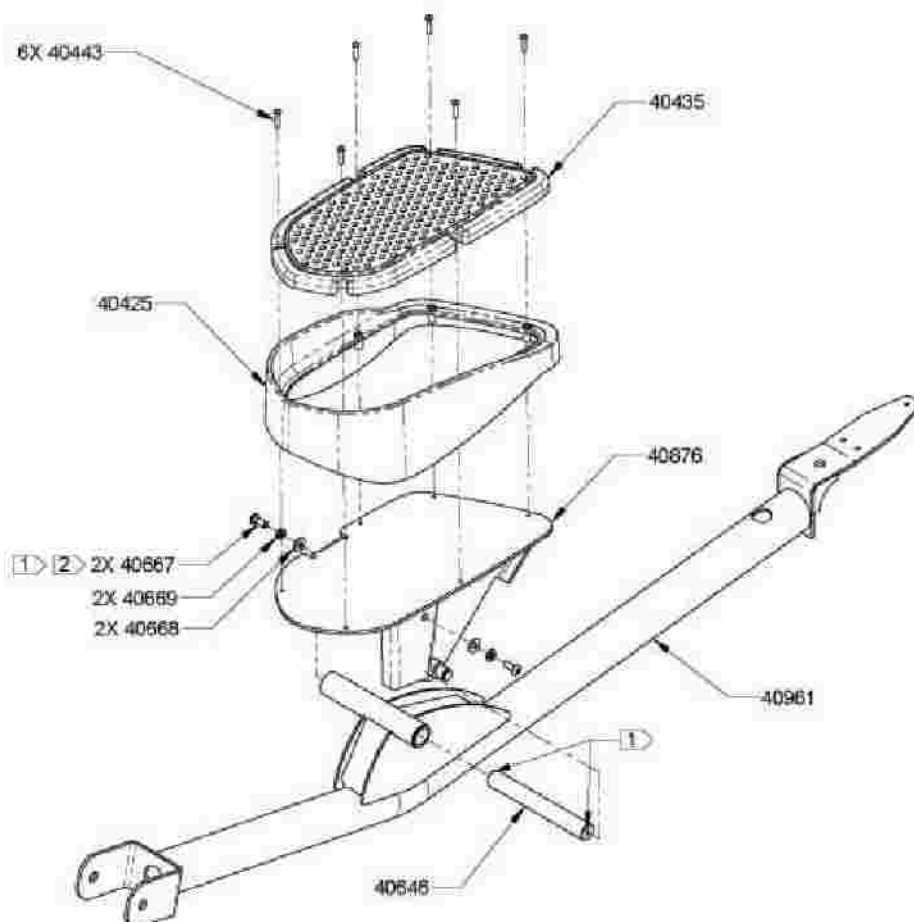


Foot Link Assembly (Right):

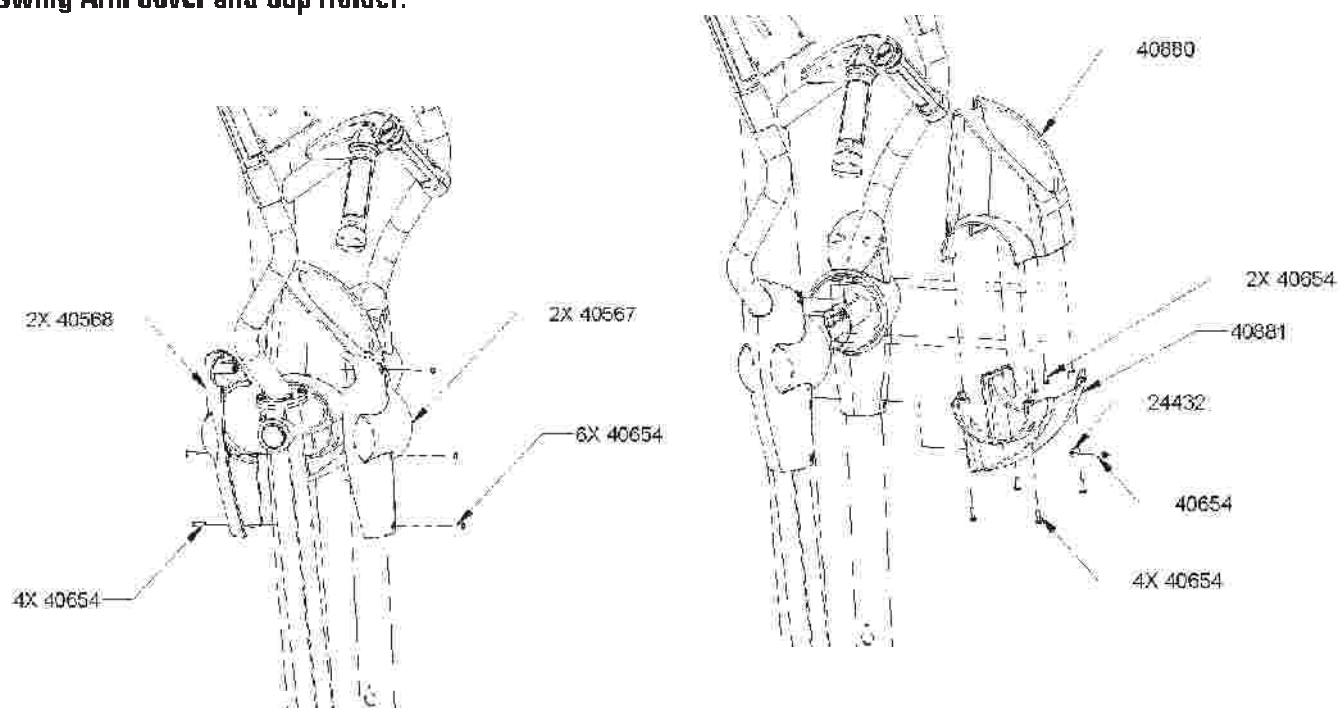


NOTES:
1. APPLY LOCTITE 243 (PN 81259) TO THREADS.
2. TORQUE TO 144 IN. LBS.

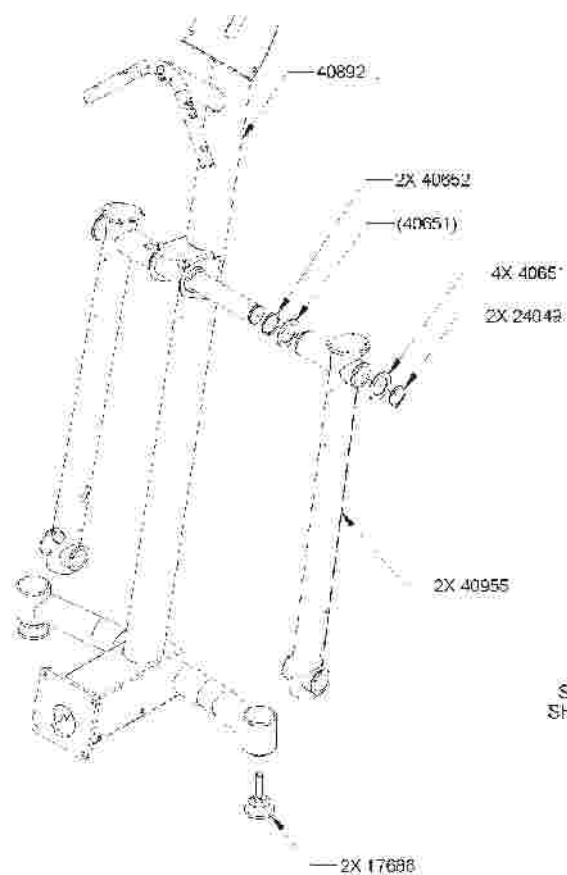
Foot Link Assembly (Left):



Swing Arm Cover and Cup Holder:

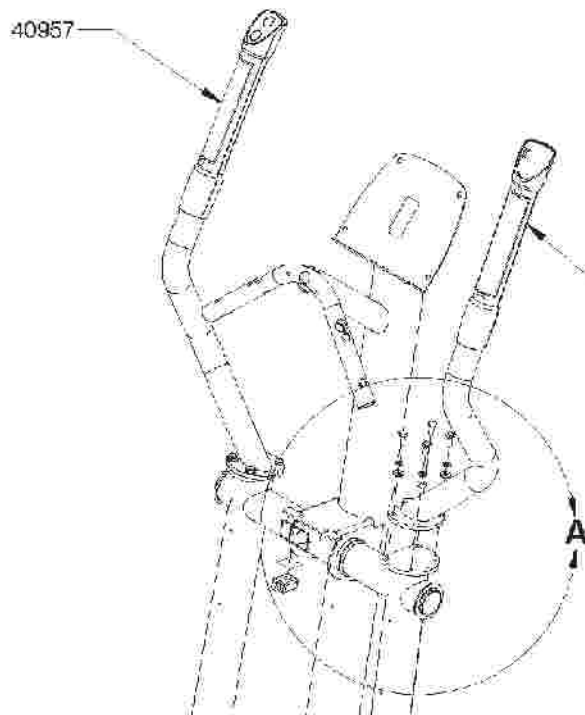


Swing Arm Assembly:

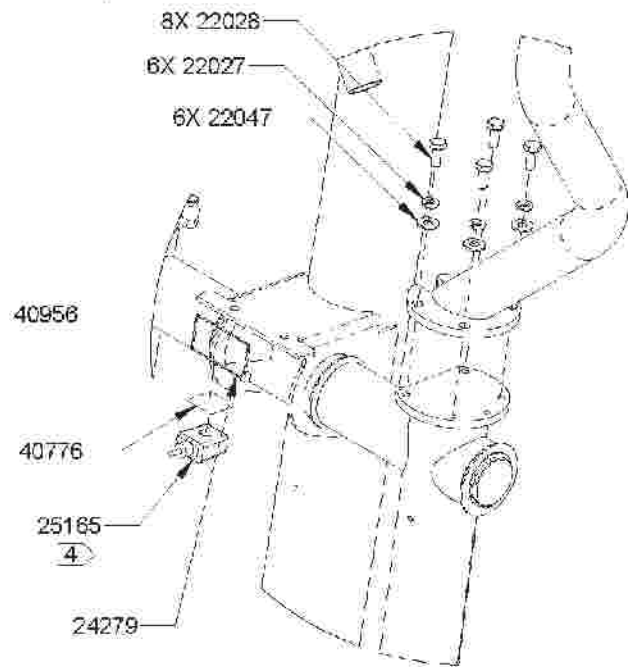


SWING ARM ASSEMBLY RIGHT SIDE
SHOWN EXPLODED. LEFT SIDE IS AN
EXACT DUPLICATE.

Dynamic Handles and Polar® Sensor:



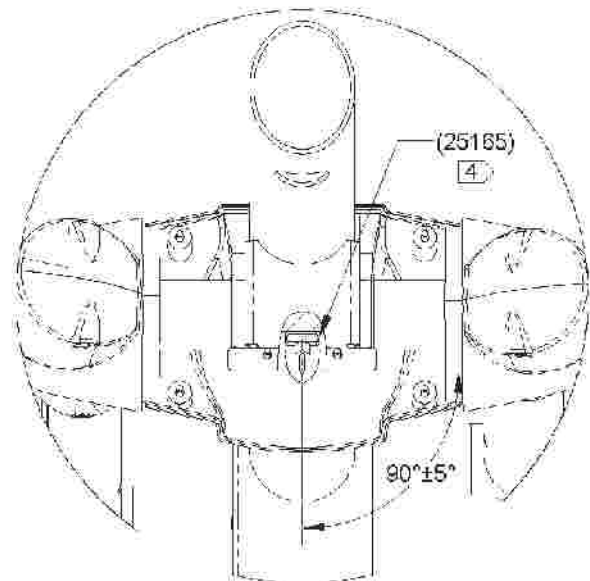
RIGHT HAND DYNAMIC HANDLE SHOWN EXPLODED. LEFT HAND IS A MIRROR IMAGE WITH COMPONENT CHANGES NOTED ABOVE.



DETAIL A

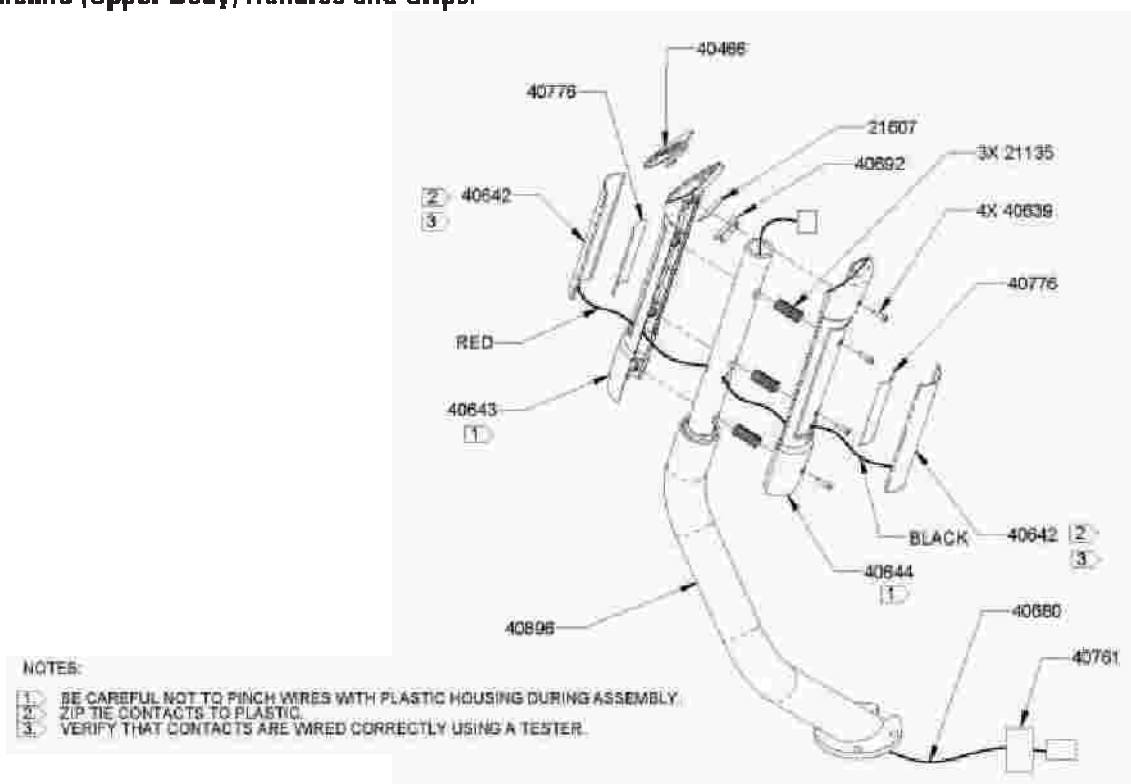
NOTE:

1. INSTALL POLAR SENSOR (25165) WITH DOT FACING UP AND PLUG POINTING TOWARDS BACK OF MACHINE.

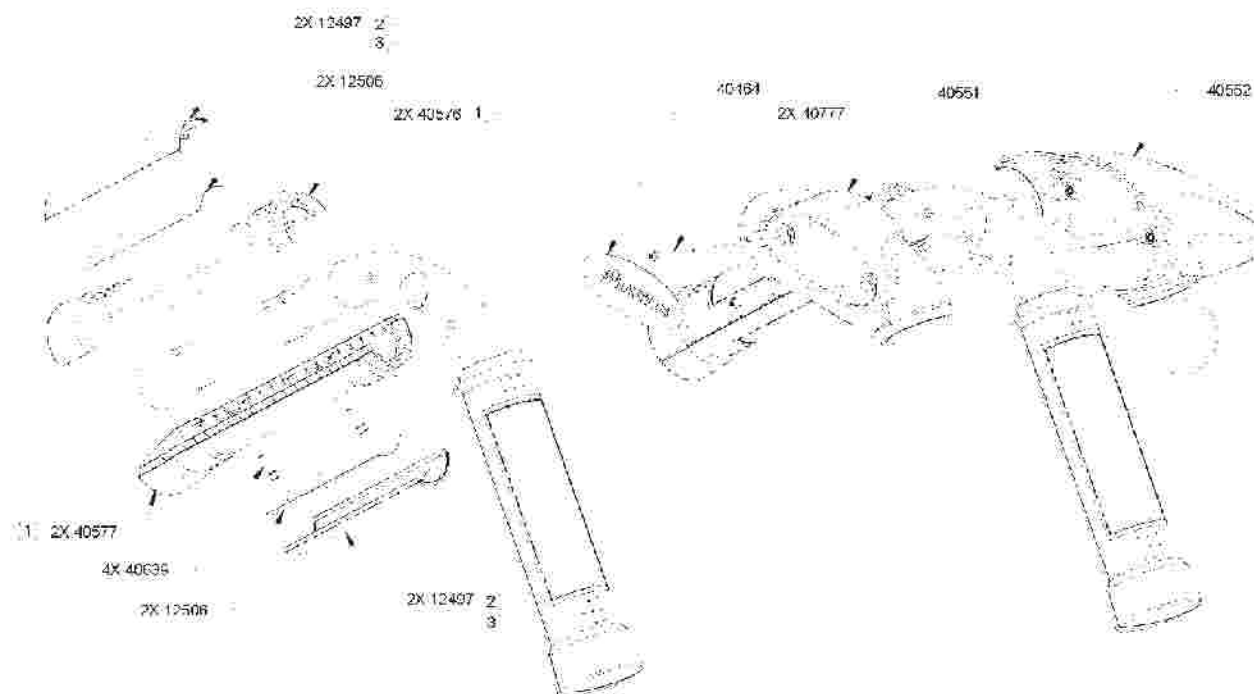


POLAR® SENSOR PLACEMENT UNDER SWING ARM BRACKET (TOP VIEW)

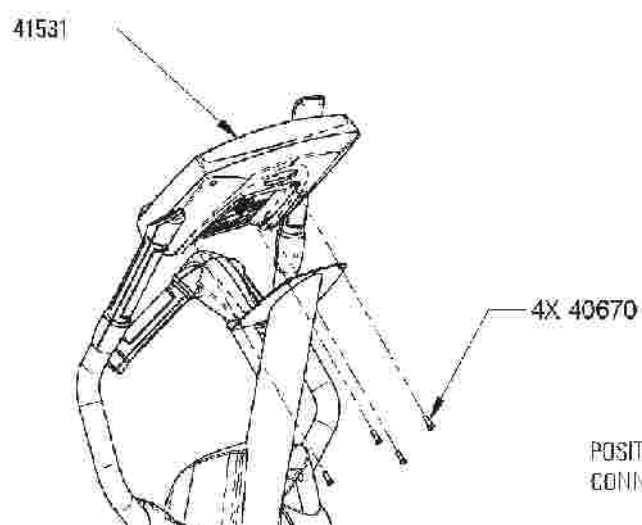
Dynamic (Upper Body) Handles and Grips:



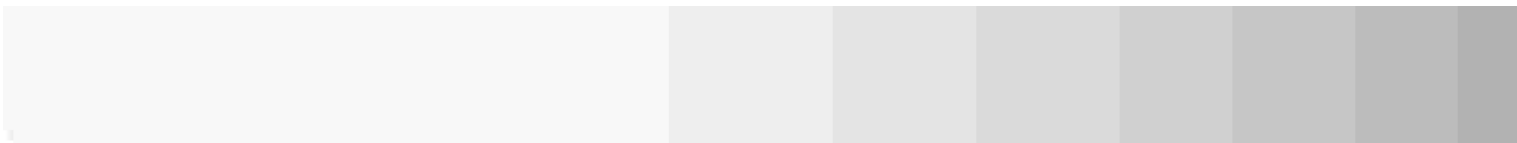
Fixed (T-Bar) Handle Assembly:



Console Mount:



POSITION CONSOLE SO THAT CABLES CAN BE
CONNECTED USING THE PROPER CONNECTORS.



Appendixes

Contents

Appendix A—Required Tools	68
Appendix B—International Power Plug Configurations	68

Required Tools

This is a list of the most common tools you will need to service the E916 and EV916 Ellipticals.

Table A-1. Required Tools and Uses

Tool	Purposes
Socket wrench	General
3/4" socket (deep well)	Removing and installing misalignment nut
3/4" open-end box wrench	Removing and installing nut on swing arm and foot link assembly
1/4" Allen wrench	Hex cap screws on crank arms
9/16" wrench	Adjusting belt tension
9/16" Allen wrench	Removing and installing screws on crank cover
7/16" Allen wrench	Adjusting belt tension
#2 Phillips screwdriver	Removing and installing screws on pod and drivetrain covers
Snap Ring Pliers	Connecting arm and eccentric crank arm
Tape Measure	Adjusting belt tension
Diagonal cutters	General
Multimeter	Electrical troubleshooting

International Power Plug Configurations

Table B-1. International Power Plugs

Power Cords	System	Country
	G	UK
	C, E, F	Europe
	J	Swiss
	K	Australia
	L	

Warranty Information

All Nautilus® exercise products are warranted to the commercial market purchaser to be free from defects in materials and workmanship. Warranty coverage valid to the original purchaser only and proof of the purchase will be required. Any product sold or placed in an application not recommended by Nautilus will void any warranty coverage set forth by Nautilus® warranty policies and procedures.

Time Period

Frame: 15 Years

Mechanical and electrical parts : 3 Years

Labor: 1 Year

Wear Items: 1 Year

Note – Warranty only applies to use of product in non-dues paying facility settings.

What This Warranty Does Not Cover

1. Any component on original equipment which carries a separate consumer warranty of the parts supplier.
2. Users weighing more than 400 lbs.
3. Any damage, failure or loss caused by accident, misuse, neglect, abuse, improper assembly, improper maintenance or failure to follow instructions or warnings in Owner's Manual, or disaster (such as floods or power surges).
4. Use of product in an application not recommended by Nautilus, Inc. or in a manner or environment for which it was not designed.
5. Damage due to normal wear and tear.

Limitations

The preceding warranties are the sole and exclusive express warranties made by Nautilus, Inc. They supersede any prior, contrary or additional representations, whether oral or written. No agent, representative, dealer or employee has the authority to alter or increase the obligation or limitations of this warranty. Any implied warranties, including the WARRANTY OF MERCHANTABILITY and any WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, are limited in duration to the term of the applicable express warranty provided

above, whichever is longer. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

What Nautilus Will Do

Nautilus, Inc.'s liability hereunder is expressly limited to the replacement of goods not complying with this warranty or, at Nautilus, Inc.'s election, to the return of the purchase price of the exercise product in question. THESE REMEDIES ARE THE EXCLUSIVE AND SOLE REMEDIES FOR ANY BREACH OF WARRANTY. Nautilus, Inc. shall in no event be liable for incidental or consequential losses, damages or expenses in connection with its exercise products. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you.

Procedures

Warranty service will in most cases be performed by an authorized Nautilus® Fitness Dealer or Service Technician. The original purchaser must provide proof of purchase, Service calls and/or transportation to and from the Nautilus® Dealer is the responsibility of the purchaser.

1. Nautilus will have the option to repair or replace any exercise product, which requires service. Nautilus, Inc. reserves the right to refund the purchase price.
2. Nautilus will replace any equipment frame that is structurally defective with a new frame or replace the unit with a unit of equal value.
3. Nautilus is not responsible for dealer labor charges for the component changeovers completed after the labor related warranty period stated herein.
4. If you elect to repair an exercise product or part yourself, using the services of someone other than an authorized Nautilus® Fitness Dealer or Service Technician, or use a replacement part not supplied by Nautilus, Nautilus shall not be liable for any cost, damage, failure or loss caused by the use of such unauthorized service or parts.

IMPORTANT CONTACT NUMBERS

If you need assistance, please have both the serial number of your machine and the date of purchase available when you contact the appropriate Nautilus office listed below.

WORLDWIDE CUSTOMER SERVICE

• NORTH AMERICA OFFICE

Nautilus, Inc.
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• CORPORATE HEADQUARTERS

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