

CHAPTER 9

PARTS

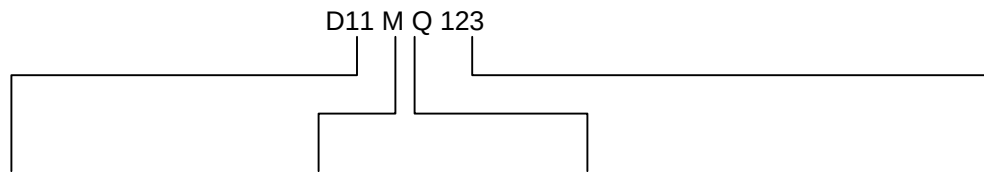
GENERAL

This chapter describes the assemblies, subassemblies and parts considered field replaceable at on-site field installations.

Serial numbers for each Dyno Module should be matched and are located on the lower half of each module.

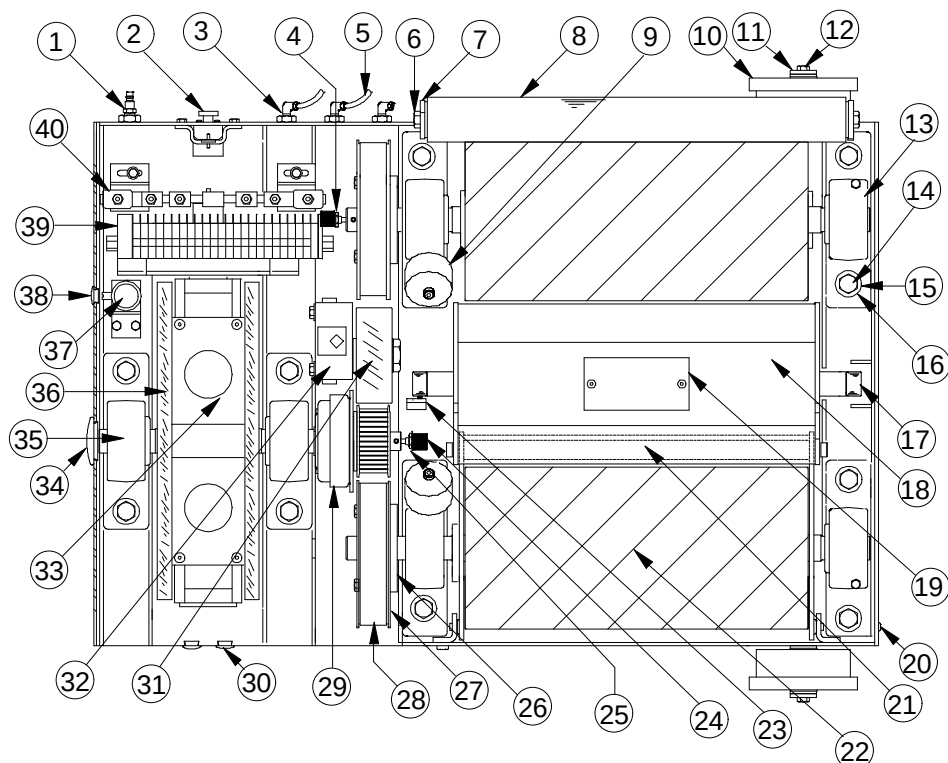
Serial number breakdown is as follows:

Example:



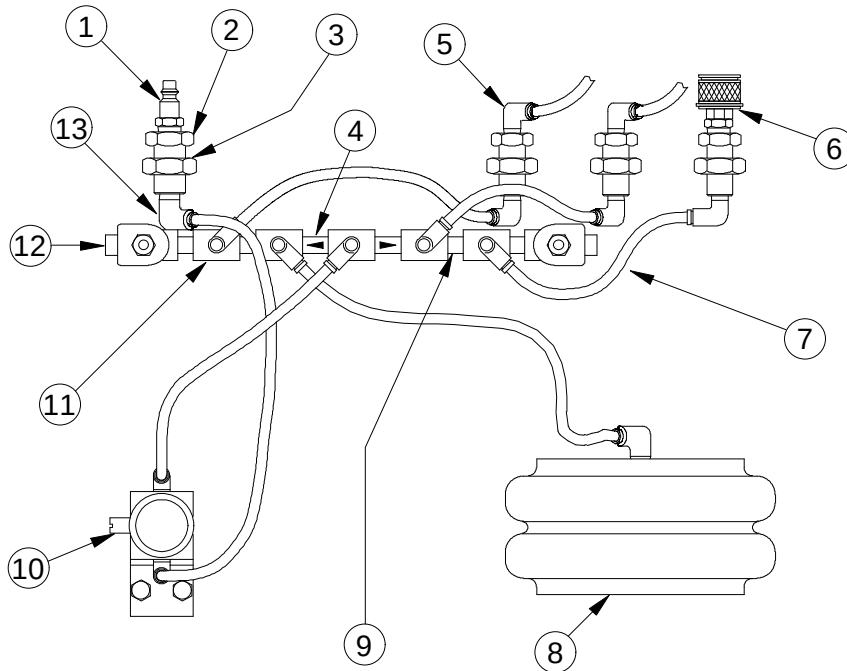
Line Model (Dyno 11), Month Manufactured (no "I" used), Year Manufactured (from 1980), Unit series

PARTS BY PICTORIAL

OVERHEAD VIEW, LEFT MODULE

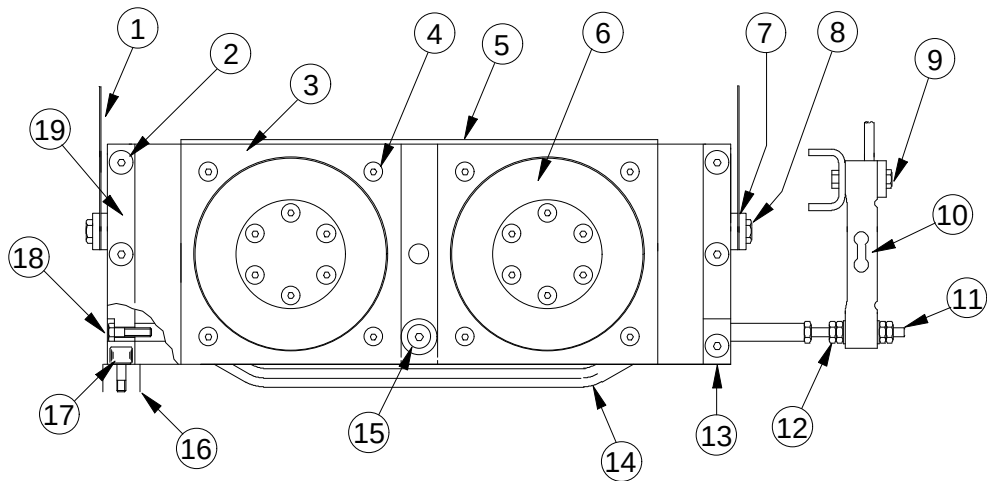
ITEM	DESCRIPTION	PART NUMBER	ITEM	DESCRIPTION	PART NUMBER
1	Fitting, Air, Male	00040112000	21	Pivot Link, Lift	00040028000
2	Solenoid, Track Lock	00040185000	22	Roller, Dyno	00040011000
3	Fitting, Push Lock	00040118000	23	Switch, Lift-Up	00040076000
4	Bracket, Roll Encoder	00040044000	24	Encoder, Optical	00040082000
5	Tubing, Air, 1/4" O.D.	01122470000	25	Bracket, Flywheel Encoder	00040045000
6	Bolt, 1/2 - 13 x 1"	01100054000	26	Bushing, Sure-grip	00040064000
7	Bracket, Safety Roller	00040024000	27	Pulley, Roller	00040065000
8	Roller, Front Safety	00040014000	28	Belt	00040072000
9	Roller, Safety, Sidewall	00040060000	29	Clutch	00040075000
10	Wheel, Track	00040062000	30	Plug, 1"	01122410000
11	Bearing, Thrust	00040063000	31	Idler Assembly	00040074000
12	Bolt, 3/8 - 16 x 3/4"	01106915000	32	Mount, Idler, Left	00040046000
13	Bearing Assembly, Fixed	00040069000	32a	Mount, Idler, Right	00040025000
14	Bolt, 5/8 - 11 x 2"	01100087000	33	Coil Box, See Subassemblies page 5-4	
15	Washer, Flat, 5/8"	01100266000	34	Plug, 2"	01122408000
16	Washer, Lock, 5/8"	01100247000	35	Bearing Assembly, floating	00040066000
17	Roller, Lift Platform	00040061000	36	Flywheel Assembly	00040005000
18	Platform, Lift	00040027000	37	Solenoid, Main	00040116000
19	Cover, Access	00040049000	38	Plug, 3/4"	01122409000
20	Screw, S.T., 1/4 - 20 x 3/4	01101988000	39	Terminal Block	00040094000
			40	Manifold, See Subassemblies page 5-3	

SUBASSEMBLIES, PNEUMATIC MANIFOLD (00040096000) AND RELATED HARDWARE



ITEM	DESCRIPTION	PART NUMBER	ITEM	DESCRIPTION	PART NUMBER
1	Fitting, Air, Male	00040112000	8	Air Bag	00040071000
2	Coupling, Anchor	00040113000	9	Bushing, Brass	00040141000
3	Coupling, Anchor	00040142000	10	Solenoid, Main	00040116000
4	Valve, Check	00040140000	11	Fitting, Tee	00040119000
5	Fitting, Push Lock	00040118000	12	Solenoid, Vent	00040115000
6	Coupler, Quick Disconnect	01122501000	13	Elbow, Brass, Male	00040114000
7	Tubing, Air, 1/4 " O.D.	01122470000			

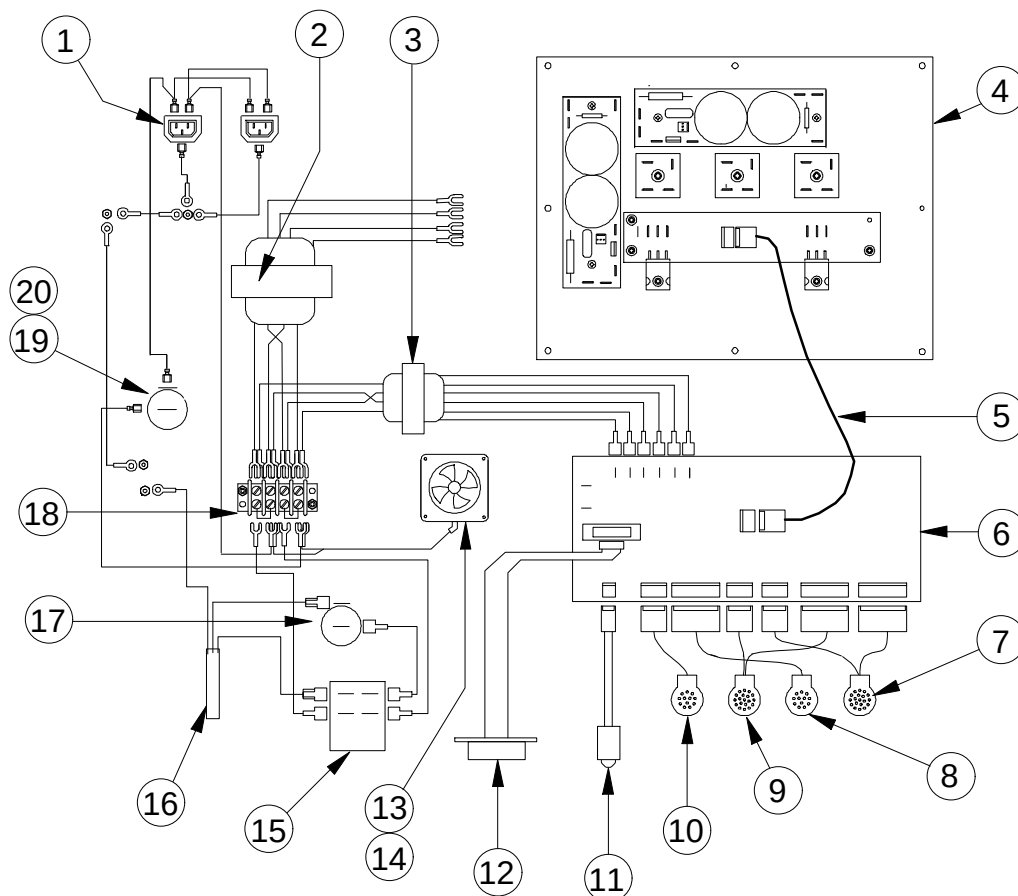
SUBASSEMBLIES, COIL BOX (00040004000) AND LOAD MEASUREMENT ASSEMBLY



ITEM	DESCRIPTION	PART NUMBER
1	Flexure	00040020000
2	Screw, 5/16-18 x 1"	01122397000
3	Plate, Side	00040021000
4	Screw, 1/4-20 x 5/8"	01122398000
5	Plate, Cover	00040030000
6	Coil, Eddy Brake	00040003000
7	Spacer	00040018000
8	Screw, 3/8-16 x 1"	01100046000
9	Screw, 1/4-20 x 1-3/4"	01111601000
10	Loadcell	00040047000

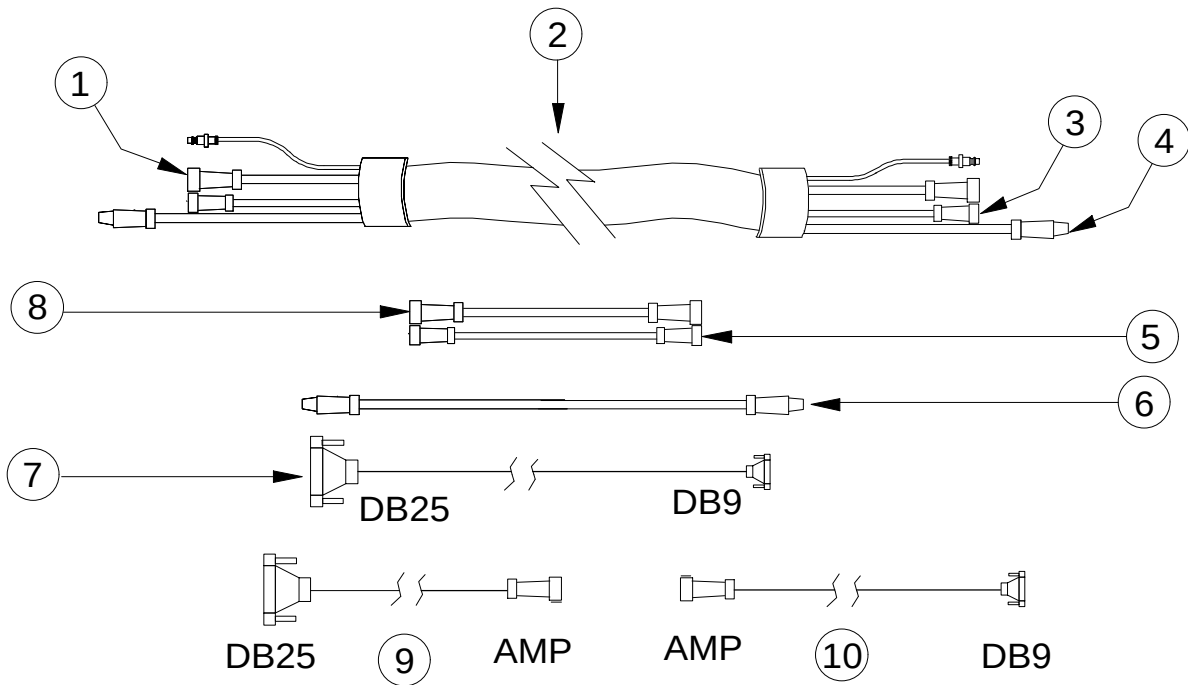
ITEM	DESCRIPTION	PART NUMBER
11	Rod, Threaded	00040080000
12	Nut, Jam, 1/4-28	01109585000
13	Plate, End	00040023000
14	Actuator, Loadcell	00040048000
15	Stiffener	00040026000
16	Block, Adjusting	00040037000
17	Roller, Cam	00040079000
18	Screw, 1/4-28 x 1"	01122483000
19	Plate, End	00040022000

SUBASSEMBLIES, CONTROL BOX (00040137000)



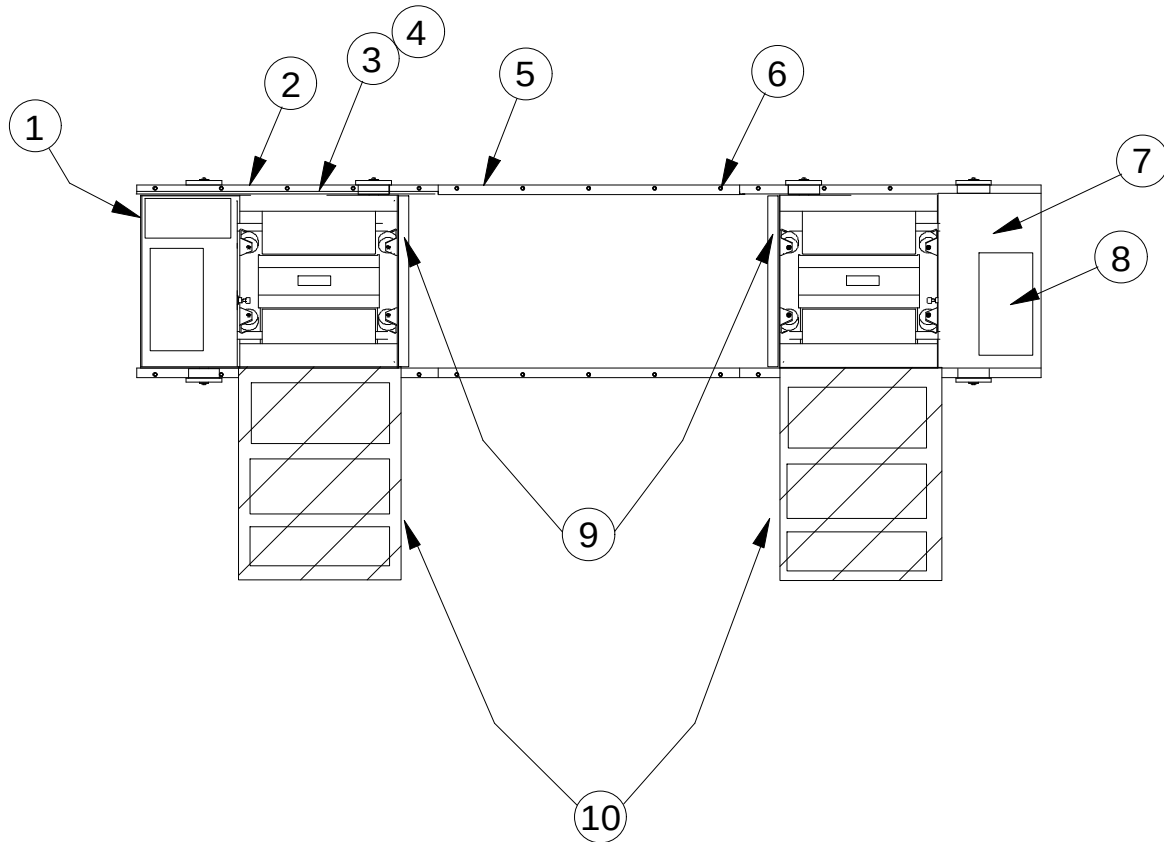
ITEM	DESCRIPTION	PART NUMBER	ITEM	DESCRIPTION	PART NUMBER
1	Connector ,AC Output	01122508000	12	Wiring Harness	00040130000
2	Transformer, Power (T1)	00040324000	13	Fan, Cooling	00040325000
3	Transformer, PCB (T2)	00040139000	14	Filter Assembly, Fan	00040328000
4	Assembly, Coil Driver	00040123000	15	Switch, Power (S1)	00083048000
5	Wire Harness (W2)	00040131000	16	Cord, Power	00040319000
6	Board, Controller	00040122000	17	Fuse, 15 A (F1), 250v Fast Blow	00074085000
7	Wiring Harness, Internal Signal, Left (A Module)	00040317000	18	Terminal Block	01122440000
8	Wiring Harness, Internal Power, Left (A Module)	00040132000	19	Fuse, 2 A (F2), 250v Fast Blow	00074110000
9	Wiring Harness, Internal Signal, Right (B Module)	00040135000	20	Fuse Holder	00064087000
10	Wiring Harness, Internal Power, Right (B Module)	00040133000	NS	Wiring Harness, Internal, Signal (A Module, left)	00040101000
11	LED Assembly	00075170000	NS	Wiring Harness, Internal, Power (B Module, right)	00040106000

CABLES



ITEM	DESCRIPTION	PART NUMBER	ITEM	DESCRIPTION	PART NUMBER
1	Cable, Signal, Long	00040107000	6	Cable, Power, Fan, 54"	00040347000
2	Cable, Assembly, Main	00040349000	7	Cable, DB9 to DB25	EAW0079K00A
3	Cable, Power, Long	00040108000	8	Cable, Signal, Short	00040315000
4	Cord, power, Fan, 18' 2"	00040348000	9	Cable, Adapter	EAW0179C00A
5	Cable, Power, Short	00040104000	10	Cable, Adapter	00040292000

MISCELLANEOUS



ITEM	DESCRIPTION	PART NUMBER	ITEM	DESCRIPTION	PART NUMBER
1	Cover, Left	00040043000	6	Bolt, Concrete	01122474000
2	Rail, Lock	00040194000	7	Cover, Right	00040041000
3	Rack, Lock	00040038000	8	Cooling Assembly, Flywheel	00040361000
4	Screw, 10-32 x 1"	01102277000	9	Cover, End	00040033000
5	Kit, Rail	00040278000	10	Kit, Ramp	00040277000

PARTS IN ALPHABETIC ORDER

DESCRIPTION	PART NUMBER	COMMENTS
Actuator, Load Cell	00040048000	
Air Bag	00040071000	
Assembly, Coil Driver	00040123000	
Bearing Assembly, Fixed	00040069000	All bearings except outer Flywheel Shaft
Bearing Assembly, Floating	00040066000	One per Module, on outer Flywheel Shaft
Bearing, Thrust	00040063000	
Belt	00040072000	
Block, Adjusting	00040037000	
Block, Terminal	01122440000	
Board, Controller	00040122000	
Bolt, 1/2 - 13 x 1"	01100054000	
Bolt, 3/8 - 16 x 3/4"	01106915000	
Bolt, 5/8 - 11 x 2"	01100087000	
Bolt, Concrete, 5/16 x 2 x 3/8	01122474000	
Bracket, Flywheel Encoder	00040045000	
Bracket, Roll Encoder	00040044000	
Bracket, Safety Roller	00040024000	
Bushing, Brass	00040141000	
Bushing, Sure-grip	00040064000	
Cable, Adapter, Amp-DB9	00040292000	
Cable, Adapter, DB25-Amp	EAW0179C00A	
Cable, Assembly, Main	00040349000	
Cable, DB9 to DB25	EAW0079K00A	
Cable, Power, Fan, 54"	00040347000	
Cable, Power, Long	00040108000	
Cable, Power, Short	00040104000	External, left, A Module
Cable, Signal, Long	00040107000	
Cable, Signal, Short	00040315000	External, left, A Module
Clutch	00040075000	
Coil, Eddy Brake	00040003000	
Connector ,AC Output	01122508000	
Cooling Assembly, Flywheel	00040361000	Fits either side
Cord, Power	00040319000	
Cord, power, Fan, 18' 2"	00040348000	
Coupler, Quick Disconnect	01122501000	
Coupling, Anchor	00040113000	
Coupling, Anchor	00040142000	
Cover, Access	00040049000	
Cover, End	00040033000	Fits either side
Cover, Left	00040043000	
Cover, Right	00040041000	
Elbow, Brass, Male	00040114000	
Encoder, Optical	00040082000	
Fan, Cooling	00040325000	
Filter Assembly, Fan	00040328000	
Fitting, Air, Male	00040112000	
Fitting, Push Lock	00040118000	
Fitting, Tee	00040119000	
Flexure	00040020000	
Flywheel Assembly	00040005000	
Fuse Holder	00064087000	
Fuse, 15 A (F1)	00074085000	250v Fast Blow
Fuse, 2 A (F2)	00074110000	250v Slow Blow

DESCRIPTION	PART NUMBER	COMMENTS
Idler Assembly	00040074000	
LED Assembly	00075170000	
Loadcell	00040047000	
Mount, Idler, Left	00040046000	Left (A) Module only
Mount, Idler, Right	00040025000	Right (B) Module only
Nut, Jam, 1/4-28	01109585000	
Pivot Link, Liftt	00040028000	
Plate, Cover	00040030000	
Plate, End	00040023000	
Plate, End	00040022000	
Plate, Side	00040021000	
Platform, Lift	00040027000	
Plug, 3/4"	01122409000	
Plug, 1"	01122410000	
Plug, 2"	01122408000	
Pulley, Roller	00040065000	
Rack, Lock	00040038000	
Rail, Guide	00040040000	
Rail, Lock	00040039000	
Ramp	00040058000	
Rod, Threaded	00040080000	
Roll, Dynamometer	00040011000	
Roller, Cam	00040079000	
Roller, Front Safety	00040014000	
Roller, Lift Platform	00040061000	
Roller, Safety, Sidewall	00040060000	
Screw, 1/4-20 x 1-3/4"	01111601000	
Screw, 1/4-20 x 5/8"	01122398000	
Screw, 1/4-28 x 1"	01122483000	
Screw, 10-32 x 1"	01102277000	
Screw, 3/8-16 x 1"	01100046000	
Screw, 5/16-18 x 1"	01122397000	
Screw, S.T., 1/4 - 20 x 3/4	01101988000	
Solenoid, Main	00040116000	
Solenoid, Main	00040116000	
Solenoid, Track Lock	00040185000	
Solenoid, Vent	00040115000	
Spacer	00040018000	
Stiffener, Coil Box	00040026000	
Switch, Lift-Up	00040076000	
Switch, Power (S1)	00083048000	
Terminal Block	00040094000	
Transformer, PCB (T2)	00040139000	
Transformer, Power (T1)	00040324000	
Tubing, Air, 1/4" O.D.	01122470000	
Valve, Check	00040140000	
Washer, Flat, 5/8"	01100266000	
Washer, Lock, 5/8"	01100247000	
Wheel, Track	00040062000	
Wire Harness (W2)	00040131000	
Wiring Harness	00040130000	
Wiring Harness, Internal Power, Left (A Module)	00040132000	Connects Power out of the Controller Board to short Power Cable
Wiring Harness, Internal Power, Right (B Module)	00040133000	Connects Power out of the Controller Board to long Power Cable

DESCRIPTION	PART NUMBER	COMMENTS
Wiring Harness, Internal Signal, Left (A Module)	00040317000	Connects short Signal Cable to Controller Board
Wiring Harness, Internal Signal, Right (B Module)	00040135000	Connects long Signal Cable to Controller Board
Wiring Harness, Internal, Power, Right (B Module)	00040106000	
Wiring Harness, Internal, Signal , Left (A Module)	00040101000	

PARTS IN NUMERIC ORDER

PART NUMBER	DESCRIPTION	COMMENTS
00040003000	Coil, Eddy	
00040005000	Flywheel Assembly	
00040011000	Roll, Dynamometer	
00040014000	Roller, Front Safety	
00040018000	Spacer	
00040020000	Flexure	
00040021000	Plate, Side	
00040022000	Plate, End	
00040023000	Plate, End	
00040024000	Bracket, Safety Roller	
00040025000	Mount, Idler, Right	Right (B) Module only
00040026000	Stiffener, Coil Box	
00040027000	Platform, Lift	
00040028000	Pivot Link, Lift, Left	
00040028000	Pivot Link, Lift, Right	
00040030000	Plate, Cover	Fits either side
00040033000	Cover, End	Fits either side
00040037000	Block, Adjusting	
00040038000	Rack, Lock	
00040039000	Rail, Lock	
00040040000	Rail, Guide	
00040041000	Cover, Right	
00040043000	Cover, Left	
00040044000	Bracket, Roll Encoder	
00040045000	Bracket, Flywheel Encoder	
00040046000	Mount, Idler, Left	Left (A) Module only
00040047000	Loadcell	
00040048000	Actuator, Loadcell	
00040049000	Cover, Access	Fits either side
00040058000	Ramp	
00040060000	Roller, Safety, Sidewall	
00040061000	Roller, Lift Platform	
00040062000	Wheel, Track	
00040063000	Bearing, Thrust	
00040064000	Bushing, Sure-grip	
00040065000	Pulley, Roller	
00040066000	Bearing Assembly, Floating	One per Module, on outer Flywheel Shaft
00040069000	Bearing Assembly, Fixed	All bearings except outer Flywheel Shaft
00040071000	Air Bag	
00040072000	Belt	
00040074000	Idler Assembly	
00040075000	Clutch	
00040076000	Switch, Lift-Up	
00040079000	Roller, Cam	
00040080000	Rod, Threaded	
00040082000	Encoder, Optical	
00040094000	Block, Terminal	
00040101000	Wiring Harness, Internal, Signal	Left A Module
00040104000	Cable, Power, Short External	Left A Module
00040106000	Wiring Harness, Internal, Power, Right (B Module)	
00040107000	Cable, Signal, Long	
00040108000	Cable, Power, Long	
00040112000	Fitting, Air, Male	

PART NUMBER	DESCRIPTION	COMMENTS
00040113000	Coupling, Anchor	
00040114000	Elbow, Brass, Male	
00040115000	Solenoid, Vent	
00040116000	Solenoid, Main	
00040118000	Fitting, Push Lock	
00040119000	Fitting, Tee	
00040122000	Board, Controller	
00040123000	Assembly, Coil Driver	
00040130000	Wiring Harness	
00040131000	Wire Harness (W2)	
00040132000	Wiring Harness, Internal Power, Left (A Module)	Connects Power out of the Controller Board to short Power Cable
00040133000	Wiring Harness, Internal Power, Right (B Module)	Connects Power out of the Controller Board to long Power Cable
00040135000	Wiring Harness, Internal Signal, Right (B Module)	Connects long Signal Cable to Controller Board
00040139000	Transformer, PCB (T2)	
00040140000	Valve, Check	
00040141000	Bushing, Brass	
00040142000	Coupling, Anchor	
00040185000	Solenoid, Track Lock	
00040277000	Kit, Ramp	Both ramps
00040292000	Cable, Adapter	AMP to DB9
00040315000	Cable, Signal, Short, External	Left A Module
00040317000	Wiring Harness, Internal Signal, Left (A Module)	Connects short Signal Cable to Controller Board
00040319000	Cord, Power	
00040324000	Transformer, Power (T1)	
00040325000	Fan, Cooling	
00040328000	Filter Assembly, Fan	
00040347000	Cable, Power, Fan, 54"	
00040348000	Cord, power, Fan, 18' 2"	
00040349000	Cable, Assembly, Main	
00040361000	Cooling Assembly, Flywheel	Fits either side
00064087000	Fuse Holder	
00074085000	Fuse, 15 A (F1)	250v Fast Blow
00074110000	Fuse, 2 A (F2)	250v Slow Blow
00075170000	LED Assembly	
00083048000	Switch, Power (S1)	
01100046000	Screw, 3/8-16 x 1"	
01100054000	Bolt, 1/2 - 13 x 1"	
01100087000	Bolt, 5/8 - 11 x 2"	
01100247000	Washer, Lock, 5/8"	
01100266000	Washer, Flat, 5/8"	
01101988000	Screw, S.T., 1/4 - 20 x 3/4	
01102277000	Screw, 10-32 x 1"	
01106915000	Bolt, 3/8 - 16 x 3/4"	
01109585000	Nut, jam, 1/4-28	
01111601000	Screw, 1/4-20 x 1-3/4"	
01122397000	Screw, 5/16-18 x 1"	
01122398000	Screw, 1/4-20 x 5/8"	
01122408000	Plug, 2"	
01122409000	Plug, 3/4"	
01122410000	Plug, 1"	
01122440000	Terminal Block	
01122470000	Tubing, Air, 1/4" O.D.	
01122474000	Bolt, Concrete, 5/16 x 2 x 3/8	May purchase locally

PART NUMBER	DESCRIPTION	COMMENTS
01122483000	Screw, 1/4-28 x 1"	
01122501000	Coupler, Quick Disconnect	
01122508000	Connector ,AC Output	
EAW0079K00A	Cable, DB9 to DB25	
EAW0179C00A	Cable, Adapter	DB25 to AMP

