



CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY
IGR, GLASGOW UNIVERSITY, GEO 600 GROUP

DRWG NO. REV GID
E030508 - A - D
SHEET SEE BOTTOM LEFT
ASSEMBLY NO:
D040391

MATERIAL LIST (or overall BOM)

TITLE:

Assembly of the Mode Cleaner Suspension & Assembly Fixtures



ITEM NO	REQ.	SPARE	TOT.	PART NUMBER	DESCRIPTION					
		APPROVALS:		DATE:	REV	DCN NO.	BY	CHECK	DCC	DATE
DRAWN / AUTHOR:		Calum I. Torrie		June 25th 2004	A	E040303				
CHECKED:										
APPROVED:										
DCC RELEASE										
ITEM NO	REQ.	SPARE	TOT.	PART NUMBER	DESCRIPTION					
1	1	0	1	D040391	Assembly of the Mode Cleaner Suspension & Assembly Fixtures					
	6	6	12	D020700	Mode Cleaner Suspension Assembly					
	1	1	2	D020661	ASSEMBLY MAGNET AND DUMBBELL					
	1	1	2	D970075	Dumbbell					
	1	1	2	D960501	GCMagnet					
	1	1	2	D020541	ASSEMBLY LOWER AND INTERMEDIATE MASS					
	2	2	4	D020234	MC OPTIC					
	4	4	8	D020316	ASSEMBLY LOWER WIRE CLAMP					
	1	1	2	D020204	LOWER WIRE CLAMP SHIM					
	1	1	2	D020203	LOWER WIRE CLAMP OUTSIDE					
	1	1	2	D020202	LOWER WIRE CLAMP INSIDE					
	2	2	4		SST SOCKET HEAD CAP SCREW #4-40 UNC-3A X 0.75 LONG					
	2	2	4		SST HEX NUT #4					
	4	4	8		FLAT WASHERS NAS 620-C4L (OR EQUIV.)					
	1	1	2		SST SOCKET HEAD CAP SCREW #4-40 UNC-3A X 0.25 LONG					
	4	4	8	D020148	MC WIRE STAND OFF					
	9	9	18		SST SOCKET HEAD CAP SCREW #4-40 UNC-3A X 0.3125 LONG					
	1	1	2		OPTICAL MIRROR (1 inch DIAMETER)					
	1	1	2		MIRROR INSERT STANDOFF					
	1	1	2		FLAT WASHERS NAS 620-C6L (OR EQUIV.)					
	2	2	4	D020319	ASSEMBLY UPPER BLADE WIRE CLAMP					
	1	1	2	D020198	UPPER BLADE WIRE CLAMP					
	2	2	4		FLAT WASHERS NAS 620-C4L (OR EQUIV.)					
	2	2	4		Ag-SST SOCKET HEAD CAP SCREW #4-40 UNC-3A X 0.3125 LONG					
	1	1	2	D030042	UPPER BLADE WIRE CLAMP PLATE					
	1	1	2	D020135	UPPER BLADE WIRE CLAMP PLATE (ALT TO D030042)					
	1	1	2	D020535	ASSEMBLY UPPER MASS + TABLE CLOTH					
	1	1	2	D020239	COIL HOLDER U (TABLE CLOTH)					
	6	6	12	D020225	ASSEMBLY COIL FORMER AND ASSOCIATED PARTS					
	1	1	2	D020282	COIL FORMER BRACKET					
	4	4	8		SST SOCKET HEAD CAP SCREW #4-40 UNC-3A X 1 LONG					
	2	2	4	D030122	SHOULDER FOR COIL FORMER BRACKET					
	1	1	2	D030105	ASSEMBLY COIL HEAD					
					REF: BILL OF MATERIALS E040326 FOR ASSEMBLY D030105					
	2	2	4	D030123	SPACER FOR COIL FORMER BRACKET					
	1	1	2	D030183	COIL FORMER CLAMP ONE PIECE					
	4	4	8		Ag-SST SOCKET HEAD CAP SCREW #4-40 UNC-3A X 0.875 LONG					
	4	4	8		FLAT WASHERS NAS 620-5L (OR EQUIV.)					
	2	2	4		SST VENTED SOCKET HEAD CAP SCREW #4-40 UNC-3A X 0.625 LONG					
	2	2	4		FLAT WASHERS NAS 620-C4L (OR EQUIV.)					
	1	1	2	D030710	COIL FORMER CLAMP ONE PIECE ALT					
	2	2	4	D020532	ASSEMBLY MAGNET AND FLAG (FOR PITCH)					
	1	0	1	D020197	FLAG (FOR MAGNET D020466)					
	1	1	2	D020466	NICKEL PLATED MAGNET					
	1	0	1	D020210	BRIDGE SPACER FOR MAGNET					
	4	4	8	D020533	ASSEMBLY MAGNET AND FLAG					
	1	0	1	D020197	FLAG (FOR MAGNET D020466)					
	1	1	2	D020466	NICKEL PLATED MAGNET					
	1	0	1	D020196	MAGNET SPACER					
	1	1	2	D020534	ASSEMBLY UPPER MASS					
	1	1	2	D020137	PITCH INSERT FOR T SECTION					



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Assembly of the Mode Cleaner Suspension & Assembly Fixtures

ITEM NO	REQ.	SPARE	TOT.	PART NUMBER	DESCRIPTION
ALT	1	1	2	D020136	T SECTION FOR UPPER MASS
	4	4	8	D020201	LowerBlade
	1	1	2	D020134	UPPER MASS MAIN SECTION
	4	4	8	D020308	lowerbladeclamp lowerside
	4	4	8	D020119	LOWER BLADE CLAMP UPPER SIDE
	4	4	8	D020318	ASSEMBLY LOWER BLADE WIRE CLAMP
	1	1	2	D020132	LOWER BLADE WIRE CLAMP
	2	2	4		Ag-SST SOCKET HEAD CAP SCREW #2-56 UNC-3A X 0.25 LONG
	2	2	4		Ag-SST SOCKET HEAD CAP SCREW #2-56 UNC-3A X 0.1875 LONG
	4	4	8		FLAT WASHERS NAS 620-C2 (OR EQUIV.)
	1	1	2	D020133	LOWER BLADE WIRE CLAMP PALTE
	1	1	2	D030044	LOWER BLADE WIRE CLAMP PLATE THICK (ALT TO D020133)
	2	2	4	D020199	MAGNET HOLDER (TRANSVERSE)
	4	4	8	D020211	FIT FOR MAGNET HOLDER
	4	4	8	D020200	MAGNET HOLDER (LONGITUDINAL AND YAW)
	3	3	6	D030076	MAGNET SPACER (STEEL)
	2	2	4	D020499	ASSEMBLY UPPER WIRE CLAMP (WITH PITCH ADJUSTMENT)
	1	1	2	D020481	UPPER MASS C CLAMP
	1	1	2	D020309	UPPER MASS WIRE CLAMP PLATE (WITH GROOVE)
	1	1	2	D020139	UPPER MASS WIRE CLAMP PLATE
	2	2	4		SST SOCKET HEAD CAP SCREW #4-40 UNC-3A X 0.5 LONG
	2	2	4		FLAT WASHERS NAS 620-C4L (OR EQUIV.)
	4	4	8	D020482	UPPERMASS SCREW DRIVE SYSTEM
	1	1	2	D020676	ROLL INSERT TSECTION
	11	11	22		SST SOCKET HEAD CAP SCREW #8-32 UNC-3A X 0.75 LONG
	2	2	4		Ag-SST SOCKET HEAD CAP SCREW 0.25-20 UNC-3A X 1.125 LONG
	8	8	16		Ag-SST SOCKET HEAD CAP SCREW #8-32 UNC-3A X 1 LONG
	4	4	8		Ag-SST VENTED SOCKET HEAD CAP SCREW #4-40 UNC-3A X 0.5 LONG
	3	3	6		SST SOCKET HEAD CAP SCREW #4-40 UNC-3A X 0.5 LONG
	2	2	4		Ag-SST SOCKET HEAD CAP SCREW 0.25-20 UNC-3A X 0.375 LONG
	8	8	16		Ag-SST VENTED SOCKET HEAD CAP SCREW #4-40 UNC-3A X 1.25 LONG
	1	1	2		SST SOCKET HEAD CAP SCREW #8-32 UNC-3A X 0.625 LONG
	4	4	8		SST SOCKET HEAD CAP SCREW #4-40 UNC-3A X 0.75 LONG
	4	4	8		Ag-SST SOCKET SET SCREW 0.25-20 X 0.25 LONG
	16	16	32		FLAT WASHERS NAS 620-C8L (OR EQUIV.)
	14	14	28		FLAT WASHERS NAS 620-C4L (OR EQUIV.)
	2	2	4		HEX NUT 1/4
	1	1	2		SST SOCKET SET SCREW 0.5-20 X 2 LONG
	4	4	8		SST VENTED SOCKET HEAD CAP SCREW #4-40 UNC-3A X 0.5 LONG
	4	4	8		Ag-SST SOCKET HEAD CAP SCREW #4-40 UNC-3A X 0.3125 LONG
	12	12	24	D030025	STAINLESS SHCS, 1/4-20X2.5, ROUNDED END
	7	7	14		FLAT WASHERS NAS 620-C4L (OR EQUIV.)
	4	4	8		Ag-SST SOCKET SET SCREW 0.25-20 X 1.5 LONG
	12	12	24		SST HEX NUT #8
	1	1	2	D020542	ASSEMBLY UPPER BLADE GUARD
	1	1	2	D020236	MC STRUCTURE GUARD TOP PLATE
	1	1	2	D020463	LOS WINCH FIXTURE ADAPTER PLATE
	2	2	4	D020443	UPPER BLADE CATCHER ASSEMBLY PLATE
	2	2	4	D020562	UPPER BLADE CATCHER ASSEMBLY GUARD
	2	2	4	D970180	winch fixture
	4	4	8	D960134	WINCH FIXTURE SUSPENSION BLOCK
	2	2	4		SST SOCKET SET SCREW #8-32 X 1 LONG
	4	4	8		SST SOCKET HEAD CAP SCREW 0.25-20 UNC-3A X 0.625 LONG
	2	2	4		COMPRESSION SPRING OD 0.25 X 1" LONG (CSC CORP)
	1	1	2	D030075	LOS WINCH FIXTURE ADAPTER PLATE
	2	2	4		SST SOCKET HEAD CAP SCREW 0.25-20 UNC-3A X 1.25 LONG
	2	2	4	D030022	STAINLESS SHCS, 1/4-20X2.5, ROUNDED END
	4	4	8		SST SOCKET HEAD CAP SCREW 0.25-20 UNC-3A X 0.375 LONG
	4	4	8		Ag-SST SOCKET HEAD CAP SCREW #4-40 UNC-3A X 0.75 LONG
	4	4	8	D030198	TABLE LEGS FOR UPPER BLADE CATCHER
	4	4	8		SST SOCKET HEAD CAP SCREW 0.25-20 UNC-3A X 2.5 LONG
	8	8	16	D000069	LIGO1 Osem[REF]
	4	4	8	D020346	MCStructure Tablecloth Bracket



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ITEM NO	REQ.	SPARE	TOT.	PART NUMBER	DESCRIPTION
	1	1	2	D020023	MC STRUCTURE MAIN STRUCTURE
	2	2	4	D020418	Structure Stiffener, Small
	4	4	8	D020420	Crossbar for Stops
	2	2	4	D020417	Sensor/Actuator Bracket, LIGO1
	2	2	4	D030017	LIGO1 SENSOR/ACTUATOR BRACKET 2
	4	4	8	D030018	LIGO1 SENSOR/ACTUATOR BRACKET 3
	2	2	4	D020422	Side X Stiffener
	2	2	4	D020425	X Stiffener, Front
	10	10	20	D030041	TABLE CLAMP (STRUCTURE SHIM TO OPTICAL TABLE)
	8	8	16	D030014	CROSSBAR BRACKET TWO
	4	4	8	D020522	Crossbar Bracket
	4	4	8	D020523	FACE BRACKET
	2	2	4	D030015	FACE BRACKET 2
	2	2	4	D030016	FACE BRACKET 3
	16	16	32	D030022	STAINLESS SHCS, 1/4-20X2.5, ROUNDED END
	4	4	8	D020526	CROSSBAR FOR STOPS 2
	16	16	32	D030023	STAINLESS SHCS, 1/4-20X2.5, ROUNDED END
	1	1	2	D020405	Structure Brace
	2	0	2	D030451	Rotational Adjuster Assembly
	4	2	6	D030448	BASE PLATE
	4	2	6	D030447	ROTATING PLATE
	1	6	7	D020205	UPPER BLADE
	4	2	6	D030450	PULL PLATE
	4	2	6	D030449	PUSH PLATE
	1	1	2	D030459	RA UPPER BLADE CLAMP LOWER SIDE 0.0 DEGREE
	1	1	2	D020116	UPPER BLADE CLAMP UPPER SIDE 0.0 DEGREE
	1	1	2		SST SOCKET HEAD CAP SCREW 0.25-20 UNC-3A X 0.375 LONG
	3	3	6		Ag-SST SOCKET HEAD CAP SCREW #8-32 UNC-3A X 0.75 LONG
	2	2	4		SST SOCKET HEAD CAP SCREW 0.25-20 UNC-3A X 0.5 LONG
	2	2	4		FLAT WASHERS NAS 620-C416 (OR EQUIV.)
	2	2	4		SST SOCKET HEAD CAP SCREW #8-32 UNC-3A X 1 LONG
	1	1	2		Ag-SST SOCKET HEAD CAP SCREW #8-32 UNC-3A X 1 LONG
	1	1	2		M4 (1 MM THICK) FLAT WASHER Metric-DIN 125 (OR EQUIV.)
	4	1	5	D020680	UPPER BLADE CLAMP LOWERSIDE SHIM 2mm
	2	2	4		Ag-SST SOCKET HEAD CAP SCREW 0.25-20 UNC-3A X 1.125 LONG
	3	3	6		FLAT WASHERS NAS 620-C416L (OR EQUIV.)
	4	4	8		SST SOCKET HEAD CAP SCREW #8-32 UNC-3A X 0.375 LONG
	18	18	36		SST SOCKET HEAD CAP SCREW #8-32 UNC-3A X 0.75 LONG
	4	4	8		SST SOCKET HEAD CAP SCREW 0.25-20 UNC-3A X 0.75 LONG
2	2	2	4	D020494	ALIGNMENT TARGET (FOR LOCAL SENSORS)
3	1	0	1	D020162	ASSEMBLY LOWER WIRE JIG
	1	1	2	D020157	TEST MASS JIG
	1	1	2	D020155	SPACER FOR MASS JIG
	4	4	8	D020156	CLAMP MASS JIG
	8	8	16		SST SOCKET HEAD CAP SCREW #4-40 UNC-3A X 0.625 LONG
	4	4	8		SST SOCKET HEAD CAP SCREW 0.25-20 UNC-3A X 0.625 LONG
	2	2	4		SST SOCKET HEAD CAP SCREW 0.25-20 UNC-3A X 0.75 LONG
	2	2	4	D980184	LOS CLAMP LONG
	2	2	4		SST SOCKET HEAD CAP SCREW 0.25-20 UNC-3A X 1.125 LONG
	1	1	2	D030048	SPACER FOR MASS JIG (LOWER WIRE)
	4	4	8	D030047	CLAMP MASS JIG (WITH GROOVE)
4	2	2	4	D030028	Brass Pusher Fixture
5	1	0	1	D020161	ASSEMBLY UPPER WIRE JIG
	1	1	2	D020153	BAR JIG (UPPER AND INT. WIRE)
	1	1	2	D020158	ANGLED ATTACHMENT FOR UPPER BLADE WIRE CLAMP
	1	1	2	D020154	BAR JIG STEP PLATE
	1	1	2	D020440	UPPER WIRE HEIGHT BALANCE
	1	1	2	D020540	WIRE START MATCHED HEIGHT (GROOVED CLAMP)
	1	1	2	D020380	WIRE START CLAMP UPPER
	1	1	2	D020501	BAR JIG ADJUSTER
	2	2	4		SST SOCKET HEAD CAP SCREW #8-32 UNC-3A X 1.125 LONG
	4	4	8		SST SOCKET HEAD CAP SCREW #8-32 UNC-3A X 0.625 LONG
	2	2	4		Ag-SST SOCKET HEAD CAP SCREW #4-40 UNC-3A X 0.75 LONG



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ITEM NO	REQ.	SPARE	TOT.	PART NUMBER	DESCRIPTION
6	2	2	4		SST SOCKET HEAD CAP SCREW #4-40 UNC-3A X 1.25 LONG
	2	2	4		SST SOCKET HEAD CAP SCREW #8-32 UNC-3A X 0.875 LONG
	2	2	4		SST SOCKET HEAD CAP SCREW #8-32 UNC-3A X 0.75 LONG
	4	4	8	D980184	LOS CLAMP LONG
	4	4	8		SST SOCKET HEAD CAP SCREW 0.25-20 UNC-3A X 1.125 LONG
	2	0	2	D020677	ASSEMBLY LIBRARY OF CLAMPS (INCLUDING CLAMPS 4 ROT ADJ)
	1	1	2	D020678	Adapter Plate for Library of Clamps
	1	1	2	D020307	upperbladeclamp lowerside
	1	1	2	D020116	UPPER BLADE CLAMP UPPER SIDE 0.0 DEGREE
	1	1	2	D020321	upperbladeclamp lowerside ANGLED 0.5degree
	1	1	2	D020325	upperbladeclamp upperside ANGLED 0.5degree
	1	1	2	D020324	upperbladeclamp lowerside ANGLED 2.5degree
	1	1	2	D020328	upperbladeclamp upperside ANGLED 2.5degree
	1	1	2	D020312	upperbladeclamp upperside ANGLED
	1	1	2	D020311	upperbladeclamp lowerside ANGLED
	1	1	2	D020323	upperbladeclamp lowerside ANGLED 1.5degree
	1	1	2	D020327	upperbladeclamp upperside ANGLED 1.5degree
	1	1	2	D020322	upperbladeclamp lowerside ANGLED 1.0degree
	1	1	2	D020326	upperbladeclamp upperside ANGLED 1.0degree
	8	1	9	D020679	UPPER BLADE CLAMP LOWERSIDE SHIM 1mm
	4	1	5	D020680	UPPER BLADE CLAMP LOWERSIDE SHIM 2mm
	2	2	4	D020340	lowerbladeclamp upperside angled 2.5degree
	2	2	4	D020336	lowerbladeclamp lowerside angled 2.5degree
	2	2	4	D020313	lowerbladeclamp lowerside angled
	2	2	4	D020314	lowerbladeclamp upperside angled
	2	2	4	D020339	lowerbladeclamp upperside angled 1.5degree
	2	2	4	D020335	lowerbladeclamp lowerside angled 1.5degree
	2	2	4	D020334	lowerbladeclamp lowerside angled 1.0degree
	2	2	4	D020338	lowerbladeclamp upperside angled 1.0degree
	2	2	4	D020333	lowerbladeclamp lowerside angled 0.5degree
	2	2	4	D020337	lowerbladeclamp upperside angled 0.5degree
	8	1	9	D020682	LowerBladeClamps Shim1mm
	1	6	7	D020205	UPPER BLADE
	1	6	7	D020205	UPPER BLADE
	2	2	4	D020119	LOWER BLADE CLAMP UPPER SIDE
	2	2	4	D020308	lowerbladeclamp lowerside
	1	1	2	D020201	LowerBlade
	1	1	2	D020201	LowerBlade
	1	1	2	D020687	UpperBladeClamp Lowerside Angled 3.0degree
	1	1	2	D020689	UpperBladeClamp Upperside Angled 3.0degree
	1	1	2	D020688	UpperBladeClamp Lowerside Angled 3.5degree
	1	1	2	D020690	UpperBladeClamp Upperside Angled 3.5degree
	1	1	2	D030459	RA UPPER BLADE CLAMP LOWER SIDE 0.0 DEGREE
	1	1	2	D030460	ROTAIONAL ADJUSTER UPPER BLADE CLAMP LOWER SIDE ANGLED 0.5 DEGREE
	1	1	2	D030461	ROTAIONAL ADJUSTER UPPER BLADE CLAMP LOWER SIDE ANGLED 1.0 DEGREE
	1	1	2	D030462	ROTAIONAL ADJUSTER UPPER BLADE CLAMP LOWER SIDE ANGLED 1.5 DEGREE
	1	1	2	D030463	ADVANCED LIGO SUS MC ROTAIONAL ADJUSTER UPPER BLADE CLAMP LOWER SIDE 2.0 DEGREE
	1	1	2	D030464	ADVANCED LIGO SUS MC ROTAIONAL ADJUSTER UPPER BLADE CLAMP LOWER SIDE ANGLED 2.5 DEGREE
	1	1	2	D030465	ADVANCED LIGO SUS MC ROTAIONAL ADJUSTER UPPER BLADE CLAMP LOWER SIDE ANGLED 3.0 DEGREE
	1	1	2	D030466	ADVANCED LIGO SUS MC ROTAIONAL ADJUSTER UPPER BLADE CLAMP LOWER SIDE ANGLED 2.5 DEGREE
7	1	0	1	D030049	ASSEMBLY INTERMEDIATE WIRE JIG
	1	1	2	D020153	BAR JIG (UPPER AND INT. WIRE)
	1	1	2	D020376	WIRE START GROOVED CLAMP
	1	1	2	D020380	WIRE START CLAMP UPPER
	2	2	4		SST SOCKET HEAD CAP SCREW #4-40 UNC-3A X 0.5 LONG
8	4	4	8		SST SOCKET HEAD CAP SCREW #8-32 UNC-3A X 0.375 LONG
	4	4	8	D980184	LOS CLAMP LONG
	4	4	8		SST SOCKET HEAD CAP SCREW 0.25-20 UNC-3A X 1.125 LONG
	2	2	4	D020159	LOWER BLADE WIRE JIG (INTERMEDIATE WIRES)
	4	4	8		Ag-SST SOCKET HEAD CAP SCREW #2-56 UNC-3A X 0.3125 LONG
	1	0	1	D020458	ASSEMBLY BASIC ALUM CATCHER INTERMEDIATE & TEST MASS
	4	4	8	D020445	V CLAMP FOR BAR CATCHER
	1	1	2	D020448	CATCHER BAR FOR INTERMEDIATE MASS



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	2	2	4	D020446	BAR ATTACH LOWER
	2	2	4	D020447	BAR ATTACH UPPER
	1	1	2	D020449	CATCHER BAR FOR TEST MASS
	8	8	16		SST SOCKET HEAD CAP SCREW 0.25-20 UNC-3A X 2 LONG
	8	8	16		SST SOCKET HEAD CAP SCREW 0.25-20 UNC-3A X 0.5 LONG
	8	8	16		SST STUDS FULLY THREADED 0.25-20 X 4 LONG
	24	24	48		HEX NUT 1/4
	24	24	48		FLAT WASHERS NAS 620-C416L (OR EQUIV.)
9	1	1	2	D040259	TABLE CLOTH AND UPPER MASS TABLE JIG
10	2	2	4	D020450	BAR PLATE (FIXTURE ASSEMBLY)
11	1	4	5	D020350	UPPER MASS 100g ADD ON MASS
12	1	4	5	D020351	UPPER MASS 50g ADD ON MASS
13	2	2	4	D040341	ASSEMBLY ADDED MASS AND SHCS
	1	4	5	D020351	UPPER MASS 50g ADD ON MASS
	1	1	2		Ag-SST SOCKET HEAD CAP SCREW 0.25-20 UNC-3A X 0.375 LONG
14	1	4	5	D030468	40g ADD ON MASS
15	1	4	5	D030457	SPACER 120g MASS
16	1	4	5	D030456	SPACER 75g MASS
17	1	4	5	D030455	SPACER 35g MASS
18	1	4	5	D030454	SPACER 60g MASS
19	1	4	5	D030079	UPPER MASS 10g ADD ON MASS
20	1	4	5	D030078	UPPER MASS 20g ADD ON MASS
21	2	2	4	1kg	INTERLOCKING TEST WEIGHTS
22	2	2	4	2kg	INTERLOCKING TEST WEIGHTS
23	2	2	4	500g	INTERLOCKING TEST WEIGHTS
24	2	1	3	D020660	ASSEMBLY I-BLADE DEFLECTION JIG
	1	1	2	D010264	I-BLADE WIRE CLAMP
	1	1	2	D010265	I-BLADE WIRE CLAMP PLATE
	1	1	2	D010266	I-BLADE MASS CLAMP CYLINDER
	1	1	2	D010261	I-BLADE MASS CLAMP
	2	2	4	D010268	I-BLADE MASS CLAMP PLATE
REF					14 THOU DIAMETER SPRING STEEL WIRE (CFW)
	2	2	4		SST SOCKET HEAD CAP SCREW 0.25-20 UNC-3A X 1.75 LONG
	2	2	4		Ag-SST SOCKET HEAD CAP SCREW #8-32 UNC-3A X 0.375 LONG
	4	4	8		Ag-SST SOCKET HEAD CAP SCREW #4-40 UNC-3A X 0.25 LONG
	1	1	2		HEX HEAD BOLT 3/8-16 UNC-3A X 4.5 LONG
	2	2	4		FLAT WASHERS NAS 620-C416L (OR EQUIV.)
	2	2	4		FLAT WASHERS NAS 620-C8 (OR EQUIV.)
	4	4	8		FLAT WASHERS NAS 620-C4 (OR EQUIV.)
	1	1	2		0.75in, MS 15795-822 FLAT WASHERS (OR EQUIV.)
	1	1	2		0.5in, MS 15795-818 FLAT WASHERS (OR EQUIV.)
A/R					6 THOU DIAMETER SPRING STEEL WIRE (CFW)
A/R					8 THOU DIAMETER SPRING STEEL WIRE (CFW)
A/R					14 THOU DIAMETER SPRING STEEL WIRE (CFW)
A/R					CERAMABOND
A/R					VACSEAL
30	2	2	4	D030269	BLADE DAMPER
	1	1	2	D030263	COPPER SLEEVE
	1	1	2		SST SOCKET HEAD CAP SCREW #4-40 UNC-3A X 0.75 LONG
	1	1	2	D030264	DAMPER ARM
	1	1	2	washer	washer
	1	1	2	MSHXNUT	0.112-40-S-N
	1	1	2	D020466	NICKEL PLATED MAGNET
	1	1	2	D020215	smallcatcher forlowerblades