

ADT 7120 / 7130 Dicing Series



ILLUSTRATED PARTS BOOK

Customer Support

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Introduction

This illustrated part book contains the 71XX series detailed assembly drawings, including their bill of materials.

It also includes assembly drawings for various system configuration options.

- The drawings and schematics are sorted by sections according to their functional property and by their secondary P/N (for example - XXXXX - XXXX - XXX - XX).
- Within each section the main drawing is shown, followed by all other drawings in an ascending order of the P/N secondary number (-XXXX-).



Note: In some case there may be drawings of both previous and current configurations of the same part or assembly. Verify the drawing matches your system configuration.

The following sections are included in this book:

- **71XX Mechanical Drawings**
 - Dicer on page 3
 - Axis Assemblies on page 15
 - Bench and Covers on page 19
- **Hydraulics and Pneumatics**
 - General Assembly on page 29
 - Pneumatics on page 31
 - Hydraulics on page 37
- **Configuration Options**
 - Large Area Option (0713X) on page 44
 - Tilted Spindle Option (071TS) on page 50
- **Hardware Drawings and Schematics**
 - All H/W Drawings and Schematics on page 55
- **Options and Accessories**
 - Options on page 121
 - Accessories on page 133

Section 1. **71XX MECHANICAL DRAWINGS**

- **1. Dicer**
- **2 Axis Assemblies**
- **3. Bench and Covers**

1. Dicer

1.1. X-Axis Assembly 00990-0100-000-13

EIR	REV.	DESCRIPTION	APPR.	DATE

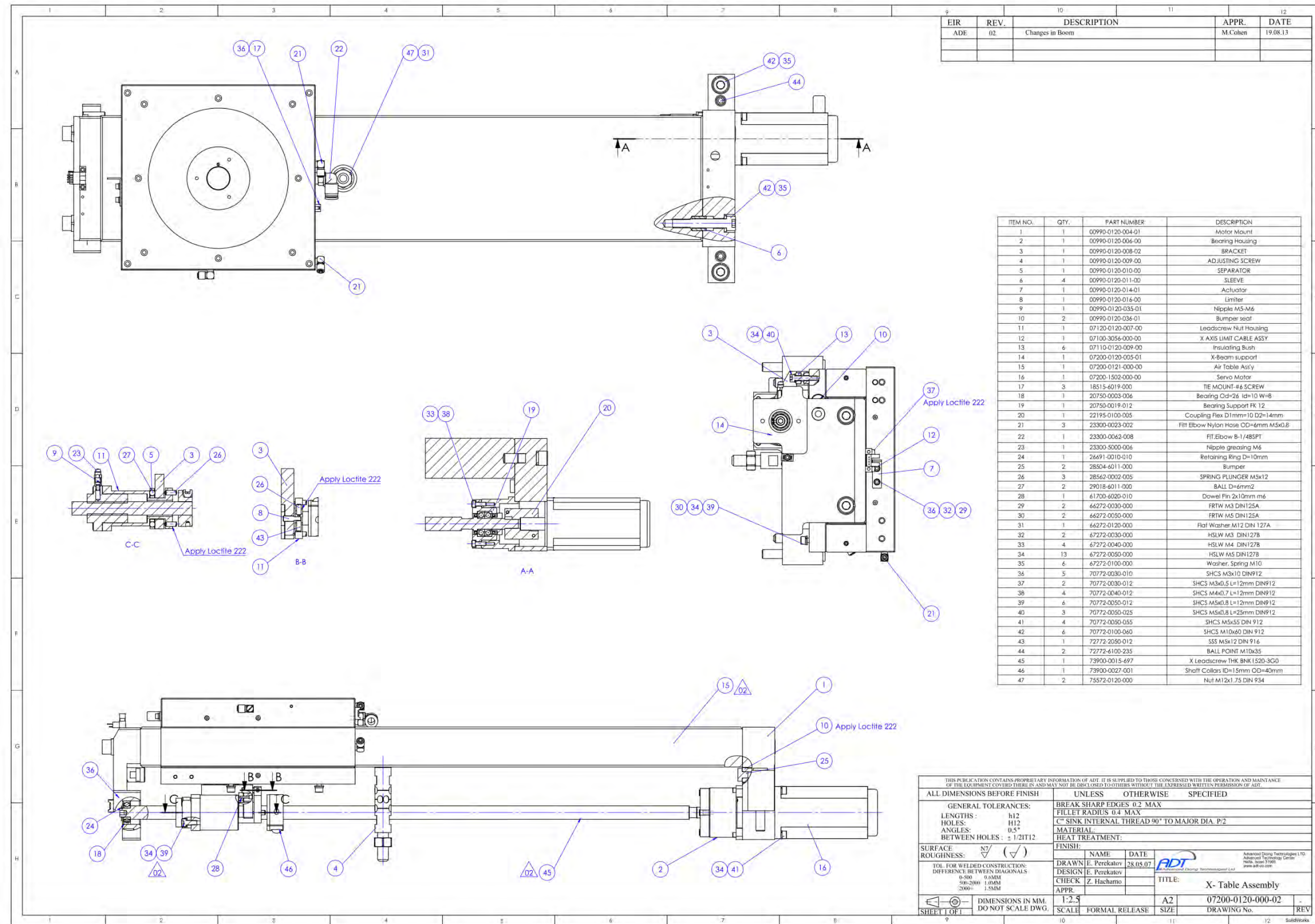
B (2:5)

A (1:1)

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	00990-0100-001-07	X-Base
2	6	00990-0100-009-00	Absorber Pin
3	6	00990-0100-012-00	Bumper Stopper
4	2	00990-0100-013-00	Limiter
5	6	00990-0200-030-00	Washer OD=92mm ID=13mm
6	1	X7100-0120-004-00	Theta Connectors Chain Mount
7	1	21200-0003-018	Energy Chain 14.3 R38 18 Links+Mount
8	6	28530-0007-250	Bumper D=3.609 d=0.563
9	4	66272-0040-100	Flat Washer M4 DIN-9021
10	4	67272-0040-000	HSLW M4 DIN127B
11	6	67272-0080-000	Spring Washer M8 DIN 127
12	4	70772-0040-010	SHCS M4x0.7 L=10mm DIN912
13	2	70772-0050-016	SHCS M5x0.8 L=16mm DIN912
14	6	70772-0080-016	SHCS M8x1.25 L=16mm DIN 912
15	2	72772-6100-235	BALL POINT M10x35

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DRAWING FOR ASSEMBLY INSTRUCTIONS, BOOM QUANTITIES, ASSEMBLY REFERENCE	NAME	DATE	Advanced Dicing Technologies LTD Advanced Technology Center Haifa, Israel 31055 www.adt-co.com
ASSEMBLY DRAWING	DRAWN	R. Aviv	10.04.13
	DESIGN	B. Tamarutsky	
	CHECK	R. Friedman	
	APPR.	M. Cohen	10.04.13
	TITLE: X Axis Assembly		
RoHS Compliance Required	1:5 SCALE	DIMENSIONS IN MM. DO NOT SCALE DWG.	A3 SIZE
SHEET 1 OF 1	00990-0100-000-13	DRAWING No.	REV

1.2. X Table Assembly 07200-0120-000-02




1.3. Non-Contact Height Left 07900-0126-000-00

EIR	REV.	DESCRIPTION	APPR.	DATE
	A	Change BOM	B.Tarnarutsky	13.06.11
ADE284	B	Change BOM	M.Cohen	14.09.11
ADE284	C	Change BOM	M.Cohen	10.01.12

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	00990-0050-025-01	NCH BOARD COVER
2	1	00990-0120-019-03	Non Contact Collar
3	1	00990-0129-000-05	LA Non Contact Ass'y
4	1	07100-0125-006-00	INSULATION-SLEEVE
5	1	07100-0126-001-00	NCH Holder Left
6	1	07900-0126-001-01	Non Contact Holding Bracket
7	1	07900-0126-003-00	Bracket For Connector NC
8	1	07700-4280-000-01	N.C. PCB
9	1	07100-3016-000-01 *	LA Non Contact Extension Cable
10	2	60504-0056-100	O-Ring Sealing ID=21.95 W=1.78
11	1	61400-0028-000	O-Ring id =28mm W=3mm
12	2	66272-0030-000	FRTW M3 DIN125A
13	1	66272-0050-000	FRTW M5 DIN125A
14	2	67272-0030-000	HSLW M3 DIN127B
15	1	67272-0050-000	HSLW M5 DIN127B
16	2	67272-0060-000	HSLW M6 DIN127B
17	4	70772-0030-008	SHCS M3x0.5 L=8mm DIN912
18	1	70772-0040-016	SHCS M4x0.7 L=16mm DIN912
19	1	70772-0050-012	SHCS M5x0.8 L=12mm DIN912
20	1	70772-0060-020	SHCS M6x0.1 L=20mm DIN912
21	2	70772-0060-025	SHCS M6x1 L=25mm DIN 912
22	4	28595-0201-000	Card Locking Spaser
23	1	LA990-0124-000-00	NON CONTACT HEIGHT NOZZLES ASSY

* For 71XX series use cable P/N 07120-3016-000-00



APPROVED

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DRAWING FOR ASSEMBLY INSTRUCTIONS, BOOM QUANTITIES, ASSEMBLY REFERENCE		NAME	DATE
DESIGN		S.Konovarov	02.05.11
CHECK		B.Tarnarutsky	
APPR.		R.Friedman	
		M.Cohen	02.05.11
ASSEMBLY DRAWING		 Advanced Dicing Technologies Ltd. Advanced Technology Center Haifa, Israel 31905 www.adt-co.com	
SHEET 1 OF 1		TITLE: NCH Left	
RoHS Compliance Required	1:1 SCALE	DIMENSIONS IN MM. DO NOT SCALE DWG.	A3 SIZE
			07900-0126-000-00
			DRAWING No. C
			REV

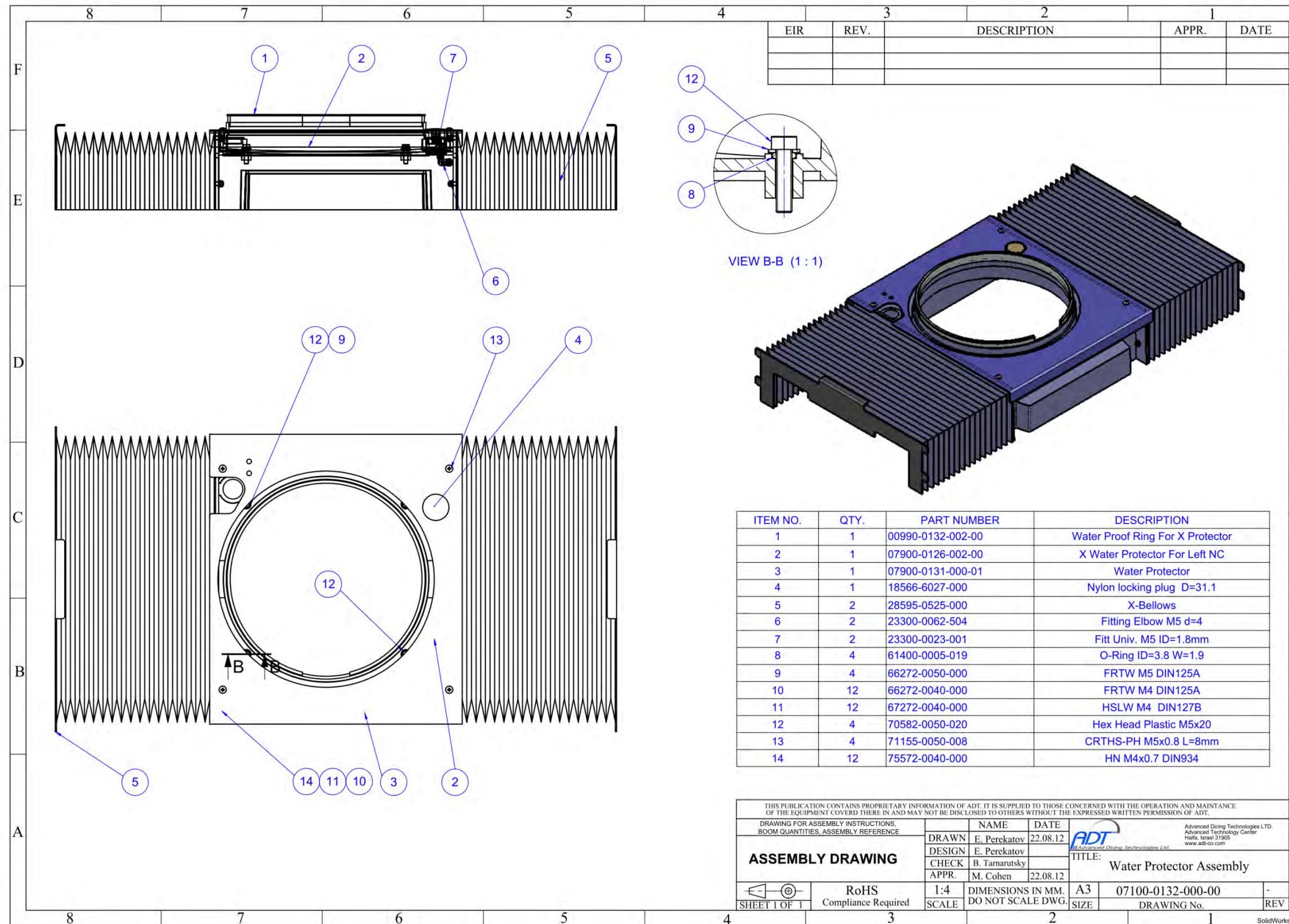
1.4. Water Pan Assembly 07100-0130-000-00

EIR	REV.	DESCRIPTION	APPR.	DATE

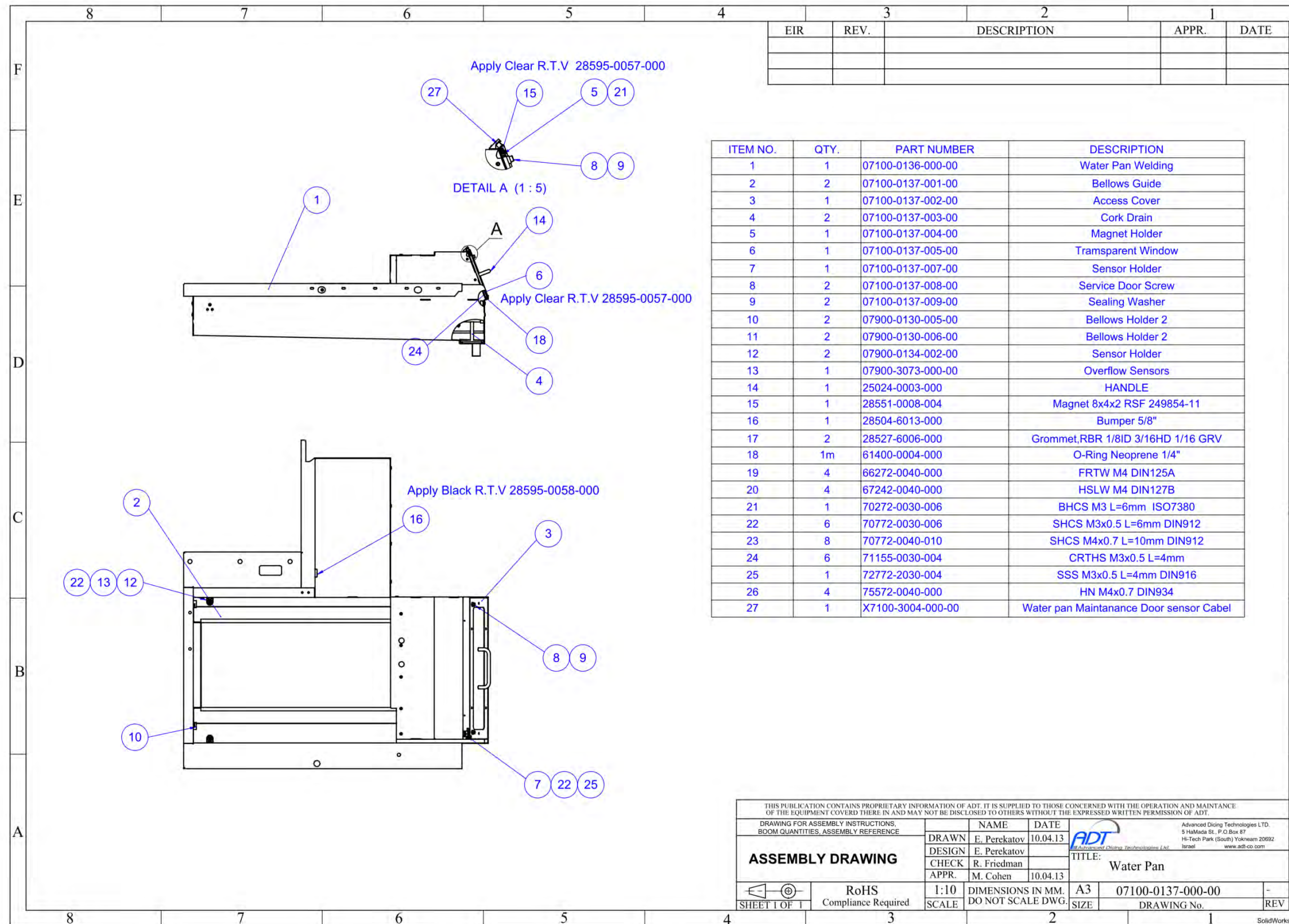
ITEM NO.	Default/ QTY.	PART NUMBER	DESCRIPTION
1	1	00990-0130-005-02	Tube
2	1	00990-0130-024-00	Spacer
3	1	00990-0200-083-01	Shelf Cork
4	1	07100-0130-001-00	Bottom Bellows Support
5	1	07100-0130-002-00	Sealing Holder
6	1	07100-0130-003-00	MMI Adapter
7	1	07100-0130-004-00	Sealing Holder L
8	1	07100-0130-005-00	Back Cover
9	1	07100-0130-006-00	Top Sealing
10	1	07100-0130-007-00	Water Pan Window Cover
11	1	07100-0132-000-00	Water Protector Assembly
12	1	07100-0137-000-00	Water Pan
13	1	07500-1936-000-00	Hose Flex Cable
14	4	11200-1001-033	Stainless Clamp 27-42mm
15	2	11200-1001-075	Clamp Hose OD=75mm Band Steel 71-95mm
16	1	28527-1014-002	Rubber Sealing
17	8	66272-0040-000	FRTW M4 DIN125A
18	12	66272-0040-100	Flat Washer M4 DIN-9021
19	12	67272-0040-000	HSLW M4 DIN127B
20	8	67242-0040-000	HSLW M4 DIN127B
21	8	70772-0040-012	SHCS M4x0.7 L=12mm DIN912
22	2	70772-0040-008	SHCS M4X0.7 L=8mm DIN912A2M
23	4	72772-1040-020	SSS Cone Point DIN 914 A2
24	10	75572-0040-000	HN M4x0.7 DIN934
25	2	78000-0040-000	Wing Nut M4
26	2	83200-0800-025	Hose Spring Flex Tube ID 25mm

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DRAWING FOR ASSEMBLY INSTRUCTIONS. ROOM QUANTITIES, ASSEMBLY REFERENCE		NAME	DATE
ASSEMBLY DRAWING		R. Aviv	20.08.12
DRAWN		B. Tarnarutsky	
DESIGN		E. Perekatov	
CHECK		M. Cohen	20.08.12
APPR.			
		 Advanced Dicing Technologies LTD. 5 Halkada St., P.O. Box 47 Hi-Tech Park (South) Yokneam 20992 Israel www.adt-co.com	
		TITLE: Water Pan	
 RoHS Compliance Required	1:10 SCALE	DIMENSIONS IN MM. DO NOT SCALE DWG.	A3 SIZE 07100-0130-000-00 DRAWING No.
SHEET 1 OF 1			REV

1.5. Water Protector Assembly 07100-0132-000-00



1.6. Water Pan Assembly 07100-0137-000-00



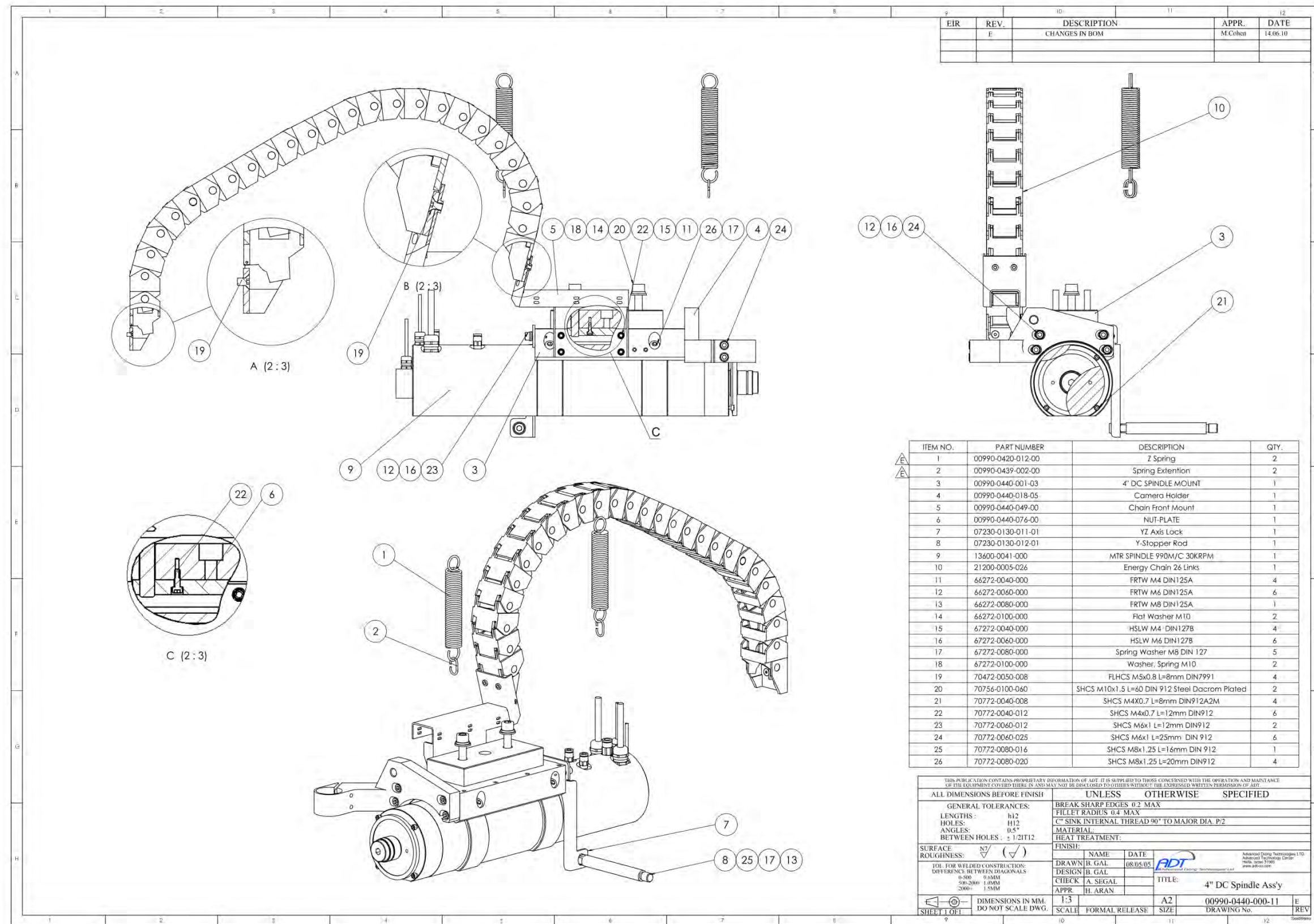
1.7. Turn Table (1 micron) Assembly 07200-0317-000-00

EIR	REV.	DESCRIPTION	APPR.	DATE

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	07200-0310-000-03	Theta Axis Assembly
2	1	07100-3516-000-00	Theta Encoder 1mk Cable
3	1	11107-6042-002	Cable Mounter
4	1	19035-0014-001	Encoder scale 2mcm L=0.7m
5	1	70272-0040-010	BHCS M4 L=10 ISO7380

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DRAWING FOR ASSEMBLY INSTRUCTIONS. BOOM QUANTITIES, ASSEMBLY REFERENCE	NAME	DATE	 <small>Advanced Dicing Technologies LTD Advanced Technology Center Haifa, Israel 31905 www.adt-co.com</small>		
ASSEMBLY DRAWING	DRAWN	E. Perekatov	TITLE: Turn Table 1micron Assembly		
	DESIGN	E. Perekatov			
	CHECK	R. Friedman			
APPR.	M. Cohen	19.01.11	SIZE	DRAWING No.	
SHEET 1 OF 1	RoHS Compliance Required	1:2 SCALE	DIMENSIONS IN MM. DO NOT SCALE DWG.	A3 SIZE	07200-0317-000-00 DRAWING No.
SolidWorks					

1.8. 4" DC Spindle Assembly 00990-0440-000-11



EIR	REV.	DESCRIPTION	APPR.	DATE
	E	CHANGES IN BOM	M.Cohen	14.06.10

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	00990-0420-012-00	7 Spring	2
2	00990-0439-002-00	Spring Extension	2
3	00990-0440-001-03	4" DC SPINDLE MOUNT	1
4	00990-0440-018-05	Camera Holder	1
5	00990-0440-049-00	Chain Front Mount	1
6	00990-0440-076-00	NUT-PLATE	1
7	07230-0130-011-01	YZ Axis Lock	1
8	07230-0130-012-01	Y-Stopper Rod	1
9	13600-0041-000	MTR SPINDLE 990M/C 30KRPM	1
10	21200-0005-026	Energy Chain 26 Links	1
11	66272-0040-000	FRTW M4 DIN125A	4
12	66272-0060-000	FRTW M6 DIN125A	6
13	66272-0080-000	FRTW M8 DIN125A	1
14	66272-0100-000	Flat Washer M10	2
15	67272-0040-000	HSLW M4 DIN127B	4
16	67272-0060-000	HSLW M6 DIN127B	6
17	67272-0080-000	Spring Washer M8 DIN 127	5
18	67272-0100-000	Washer, Spring M10	2
19	70472-0050-008	FLHCS M5x0.8 L=8mm DIN7991	4
20	70756-0100-060	SHCS M10x1.5 L=60 DIN 912 Steel Dacrom Plated	2
21	70772-0040-008	SHCS M4x0.7 L=8mm DIN912A2M	4
22	70772-0040-012	SHCS M4x0.7 L=12mm DIN912	6
23	70772-0060-012	SHCS M6x1 L=12mm DIN912	2
24	70772-0060-025	SHCS M6x1 L=25mm DIN 912	6
25	70772-0080-016	SHCS M8x1.25 L=16mm DIN 912	1
26	70772-0080-020	SHCS M8x1.25 L=20mm DIN912	4

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GENERAL TOLERANCES:	UNLESS OTHERWISE SPECIFIED
BREAK SHARP EDGES 0.2 MAX	
FILLET RADIUS 0.4 MAX	
C SINK INTERNAL THREAD 90° TO MAJOR DIA. P/2	
MATERIAL:	
HEAT TREATMENT:	
FINISH:	
SURFACE ROUGHNESS: N7 (✓)	
TOL. FOR WELDED CONSTRUCTION:	
DIFFERENCE BETWEEN DIAGONALS	
0-500 0.04MM	
500-2000 0.05MM	
2000+ 0.08MM	

NAME	DATE
DRAWN B. GAL	08.04.05
DESIGN B. GAL	
CHECK A. SEGAL	
APPR H. ARAN	

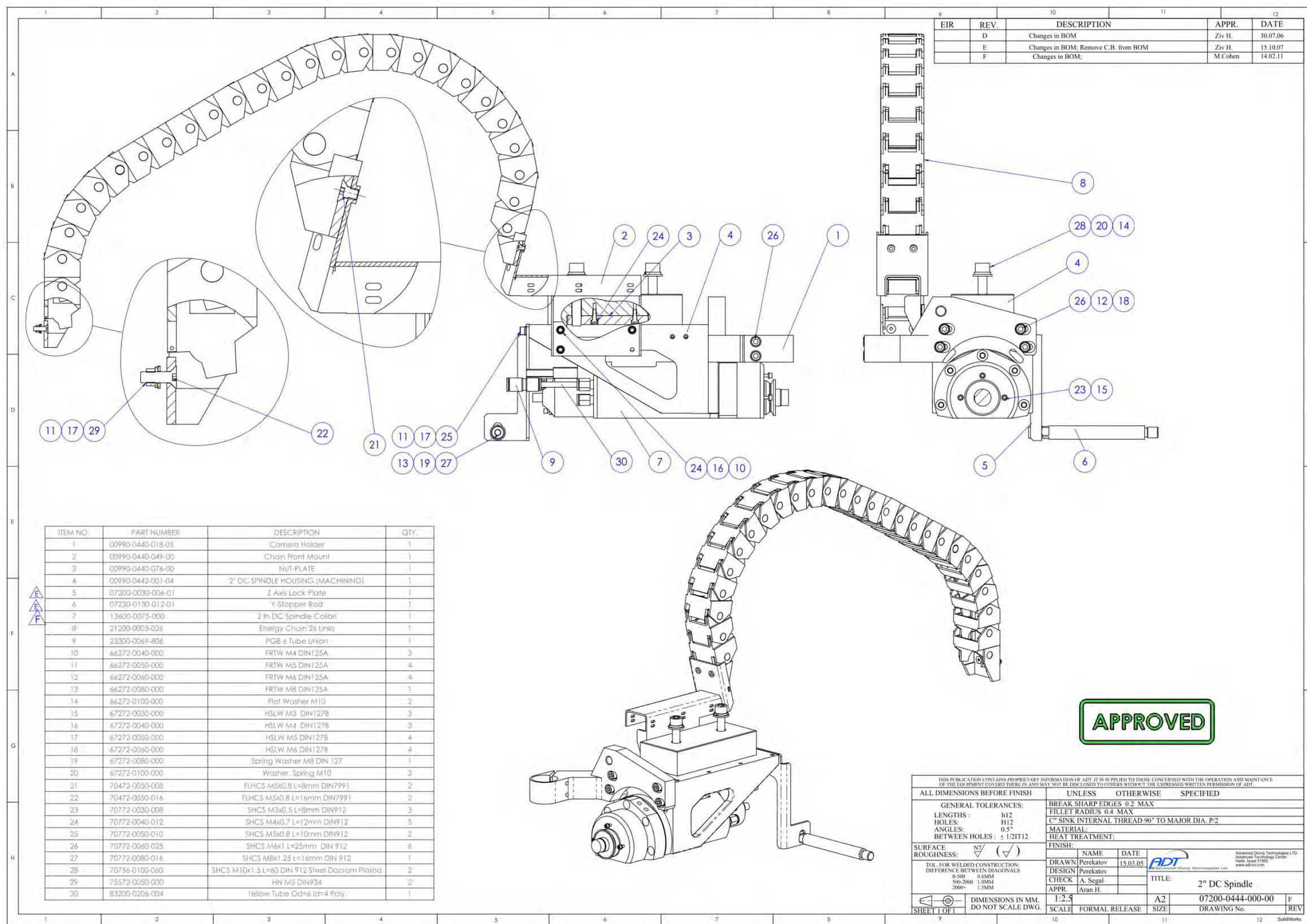
ADT Advanced Dicing Technologies Ltd.
Advanced Technology Centre
Huddersfield, West Yorkshire
HD1 3YD
www.adt.co.uk

TITLE: 4" DC Spindle Ass'y

SCALE	FORMAL RELEASE	SIZE	DRAWING No.	REV
1:3	A2	E	00990-0440-000-11	

ALL DIMENSIONS IN MM. DO NOT SCALE DWG.

1.9. 2" DC Spindle Assembly 07200-0444-000-00



1.10. 2" – 3" Cooling Block 07200-0448-000-03

Note: View without 07200-0447-000-03

Note : Water Tube O.D.=6mm from machine to item 24

APPROVED

EIR	REV.	DESCRIPTION	APPR.	DATE
	03	Changes in boom	E. Perekatov	28.06.09
ADE 323	A	Changes in boom	M. Cohen	06.03.13

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	00990-0440-032-01	Cooling Block Nozzle Axis
2	1	00990-0440-034-02	Cleaning Nozzle Holder
3	1	00990-0440-036-01	Cooling Block Jet T Axis
4	1	00990-0440-041-00	Cooling Block Daps Fitting Base
5	1	00990-0440-058-02	JET BASE
6	1	00990-0440-060-01	Axis Screw
7	1	00990-0441-035-01	Main Jet 2mm Dia
8	1	00990-0441-036-01	Main Jet 1.5mm Dia
9	1	00990-0444-012-01	BBD Rotate Lock Shaft
10	1	07100-5402-023-00	CB Nozzle Clamp
11	1	07200-0447-000-03	Front Pipe Holder Assy
12	1	07200-0448-001-03	Cooling Block base
13	1	07200-0448-003-00	Cooling Jet d=1.5mm
14	1	07200-0448-004-00	Cooling Jet d=2.5mm
15	1	07200-0448-005-00	Cooling Jet d=3.5mm
16	1	07200-0448-006-00	BBD Rotation Base
17	1	07200-0448-009-00	Water Collector
18	2	07500-0420-019-02	Spray Nozzle
19	1	20750-0108-010	Bear Slip Ring D=6mm OD=6mm L=10mm Plastic
20	1	20750-0111-008	BEAR SLIP RING D=3MM OD=7MM L=6MM PLST
21	2	23300-0007-504	Fitting M5 Tube 4mm
22	1	23300-0062-504	Fitting Elbow M5 d=4
23	1	23300-0040-818	RIT ELBOW SUS TUBE OD=6mm DI=1/8"
24	1	23300-0046-506	FIT. Separat. QUICK Tube=6mm TR/M=MS
25	1	23300-0079-106	Fitting branch Y
26	1	26693-0040-040	RING RET EXE SHAFT D=4.0MM TH=0.75MM CR
27	1	28130-0007-504	Throttle Valve JH4-MS
28	1	28542-0001-000	Spring Plunger M8
29	1	61700-6030-006	Dowel Pin M6 3x6mm
30	1	61700-6030-010	Dowel Pin mt. 3x10mm
31	2	64272-0040-000	FRW M4 DIN125A
32	2	67242-0040-000	HLW M4 DIN127B
33	2	70472-0030-006	FHCS M3x0.5 L=6mm DIN 7991
34	2	70472-0040-010	FHCS M4x0.7 L=10mm DIN7991
35	1	70772-0030-012	SHCS M3x0.5 L=12mm DIN912
36	3	70772-0040-010	SHCS M4x0.7 L=10mm DIN912
37	1	70772-0040-050	SHCS M4x0.7 L=50mm DIN912
38	5	72772-2000-006	SHS M5x6 DIN 916
39	1	75572-0030-000	HN M3 DIN934
40	1	75572-0040-000	HN M4x0.7 DIN934
41	130mm	83200-2040-425	TUBE VAC/PRESS FLEX OD=4.0mm ID=2.5mm BL

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DRAWING FOR ASSEMBLY INSTRUCTIONS.
BOOM QUANTITIES. ASSEMBLY REFERENCE

NAME	DATE
DRAWN S. Krasik	07-10-08
DESIGN S. Krasik	07-10-08
CHECK E. Perekatov	
APPR B. Tamarutsky	

TITLE: 2" - 3" Cooling Block

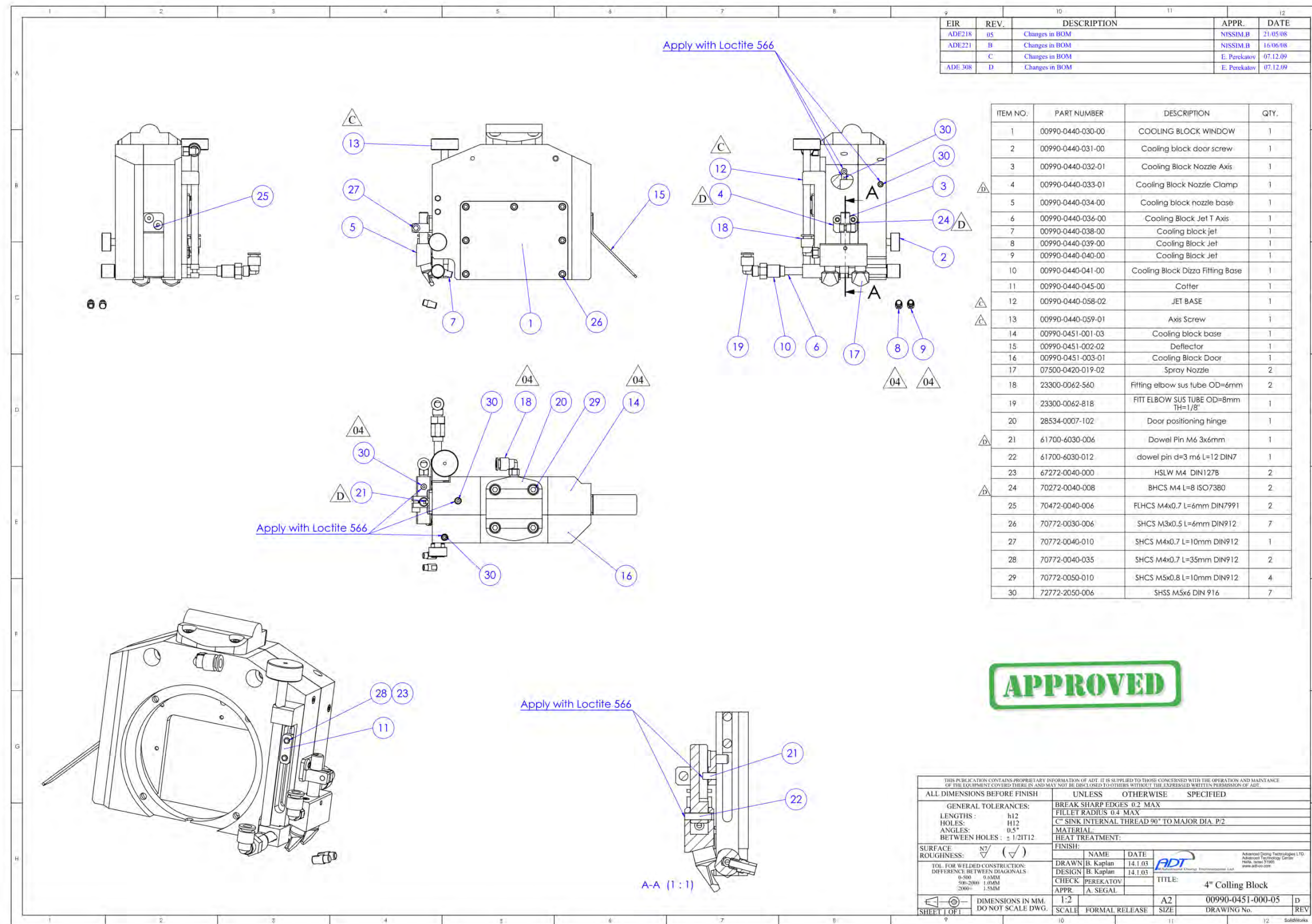
1:2 DIMENSIONS IN MM SCALE DO NOT SCALE DWG

RoHS Compliance Required

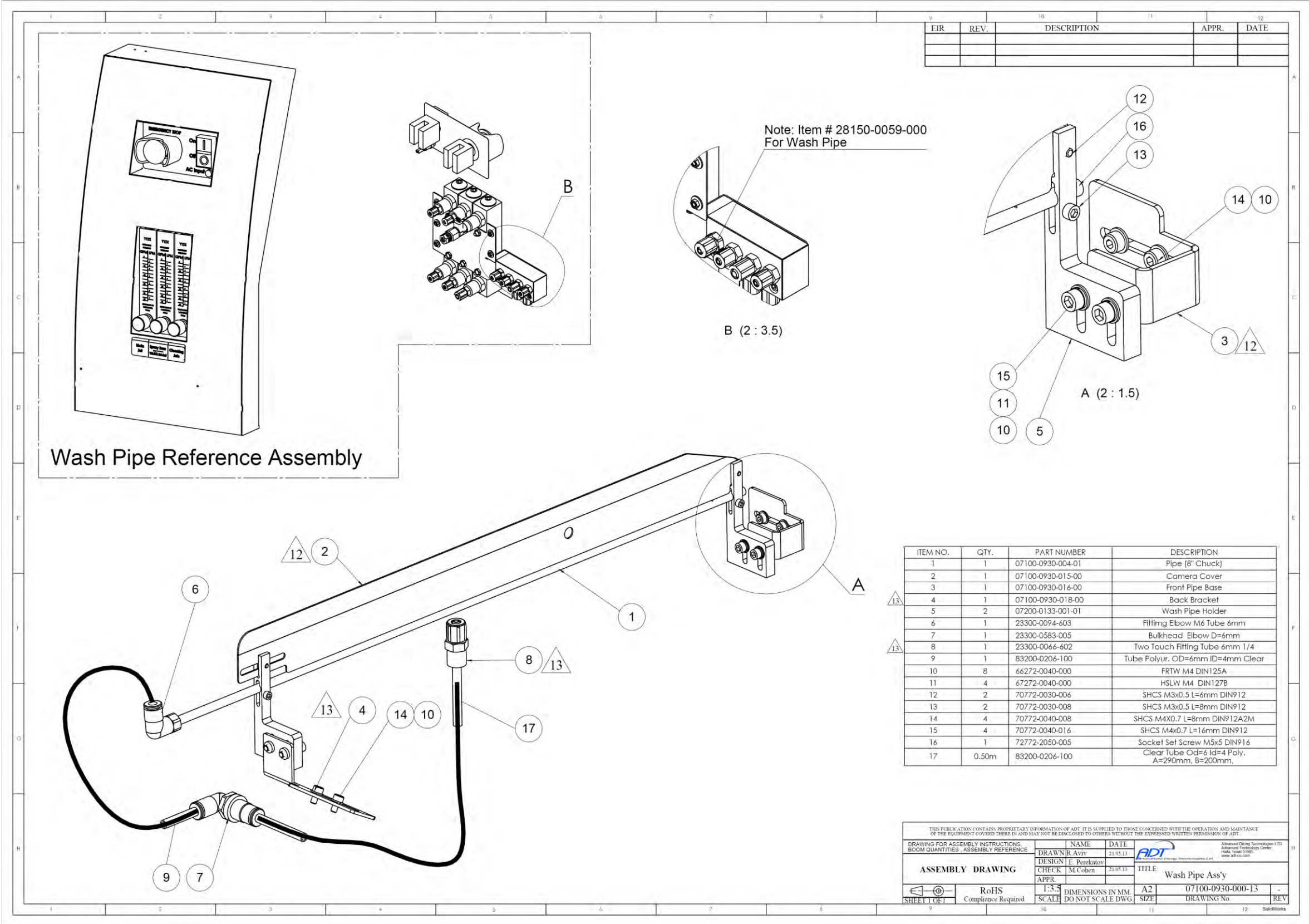
ADT Advanced Dicing Technologies Ltd. Advanced Technology Center, Hain, Israel 51500 www.adt-td.com

07200-0448-000-03 A DRAWING No. REV

1.11. 4" Cooling Block 00990-0451-000-05

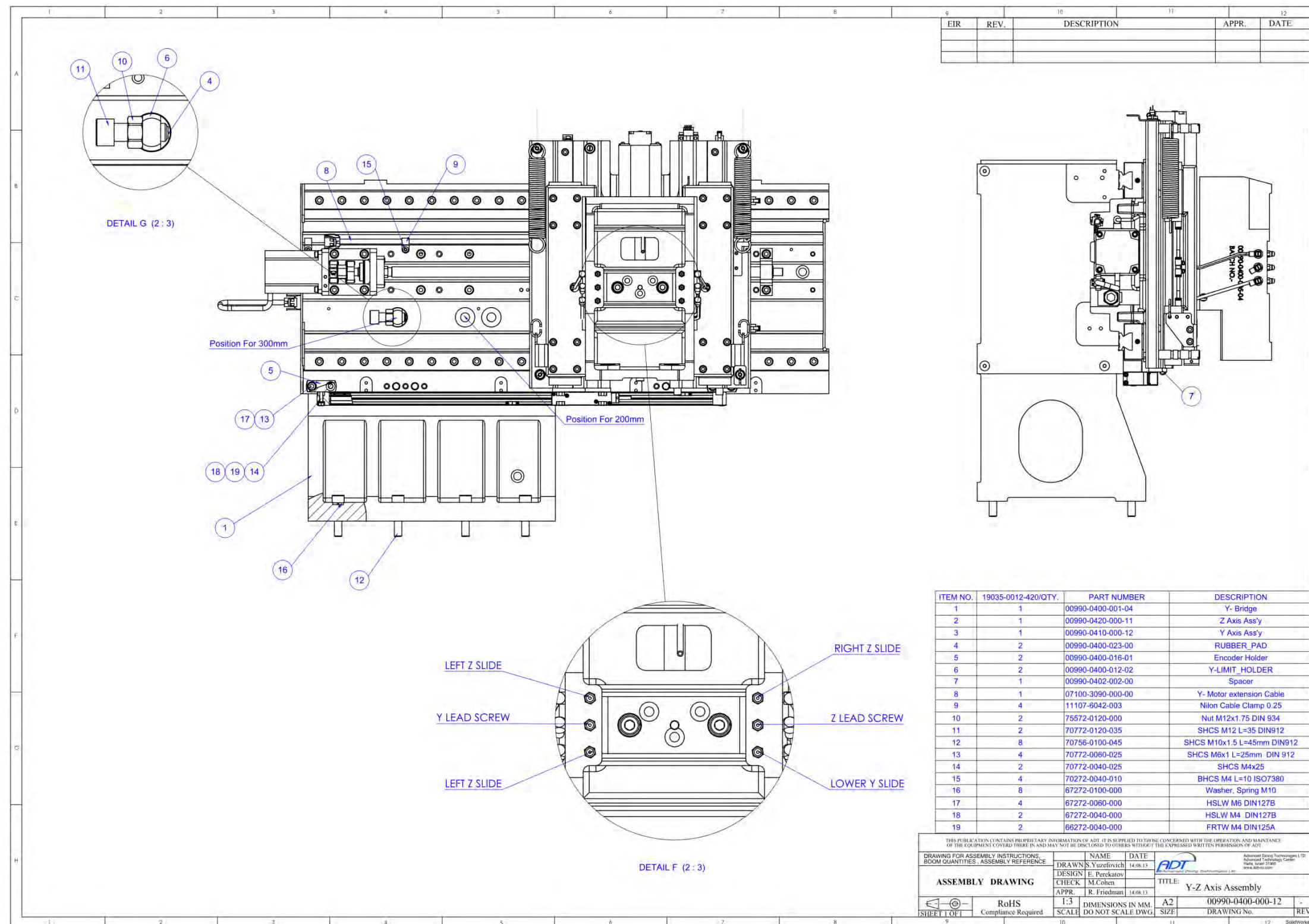


1.12. Wash Pipe Assembly 07100-0930-000-13

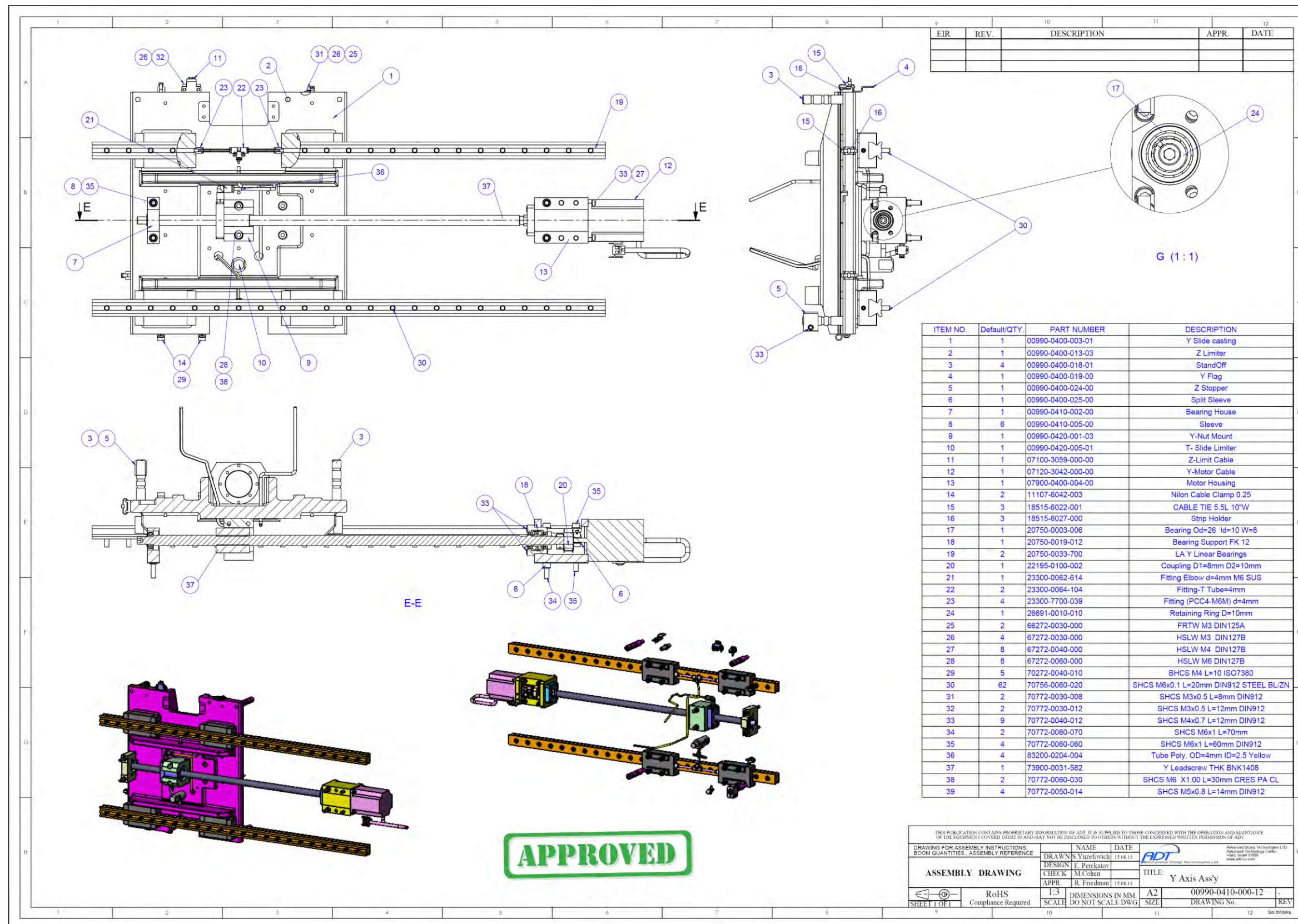


2. Axis Assemblies

2.1. Y-Z Axis Assembly 00990-0400-000-12



2.2. Y-Axis Assembly 00990-0410-000-12



EIR	REV	DESCRIPTION	APPR.	DATE

ITEM NO.	Default QTY.	PART NUMBER	DESCRIPTION
1	1	00990-0400-003-01	Y Slide casting
2	1	00990-0400-013-03	Z Limiter
3	4	00990-0400-018-01	StandOff
4	1	00990-0400-019-00	Y Flag
5	1	00990-0400-024-00	Z Stopper
6	1	00990-0400-025-00	Split Sleeve
7	1	00990-0410-002-00	Bearing House
8	6	00990-0410-005-00	Sleeve
9	1	00990-0420-001-03	Y-Nut Mount
10	1	00990-0420-005-01	T- Slide Limiter
11	1	07100-3059-000-00	Z-Limit Cable
12	1	07120-3042-000-00	Y-Motor Cable
13	1	07900-0400-004-00	Motor Housing
14	2	11107-6042-003	Nilon Cable Clamp 0.25
15	3	18515-6022-001	CABLE TIE 5.5L 10"W
16	3	18515-6027-000	Strip Holder
17	1	20750-0003-006	Bearing Od=26 Id=10 W=8
18	1	20750-0019-012	Bearing Support FK 12
19	2	20750-0033-700	LA Y Linear Bearings
20	1	22195-0100-002	Coupling D1=8mm D2=10mm
21	1	23300-0062-614	Fitting Elbow d=4mm M6 SUS
22	2	23300-0064-104	Fitting-T Tube=4mm
23	4	23300-7700-039	Fitting (PCC4-M6M) d=4mm
24	1	26691-0010-010	Retaining Ring D=10mm
25	2	66272-0030-000	FRTW M3 DIN125A
26	4	67272-0030-000	HSLW M3 DIN127B
27	8	67272-0040-000	HSLW M4 DIN127B
28	8	67272-0060-000	HSLW M6 DIN127B
29	5	70272-0040-010	BHCS M4 L=10 ISO7380
30	62	70756-0060-020	SHCS M6x0.1 L=20mm DIN912 STEEL BL/ZN
31	2	70772-0030-008	SHCS M3x0.5 L=8mm DIN912
32	2	70772-0030-012	SHCS M3x0.5 L=12mm DIN912
33	9	70772-0040-012	SHCS M4x0.7 L=12mm DIN912
34	2	70772-0060-070	SHCS M6x1 L=70mm
35	4	70772-0060-060	SHCS M6x1 L=60mm DIN912
36	4	83200-0204-004	Tube Poly. OD=4mm ID=2.5 Yellow
37	1	73900-0031-582	Y Leadscrew THK BNK1408
38	2	70772-0060-030	SHCS M6 X1.00 L=30mm CRES PA CL
39	4	70772-0050-014	SHCS M5x0.8 L=14mm DIN912

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DRAWING FOR ASSEMBLY INSTRUCTIONS BOOM QUANTITIES ASSEMBLY REFERENCE	NAME DRAWN'S V.uzefovich	DATE 15.08.13	 Advanced Dicing Technologies Ltd. Advanced Technology Center Huddersfield, West Yorkshire www.adt.co.uk
ASSEMBLY DRAWING	DESIGN E. Perekatov	TITLE Y Axis Assy	
	CHECK M. Cohen	SCALE 1:3	
	APPR R. Friedman	DATE 15.08.13	

RoHS Compliance Required

SCAL: DO NOT SCALE DWG

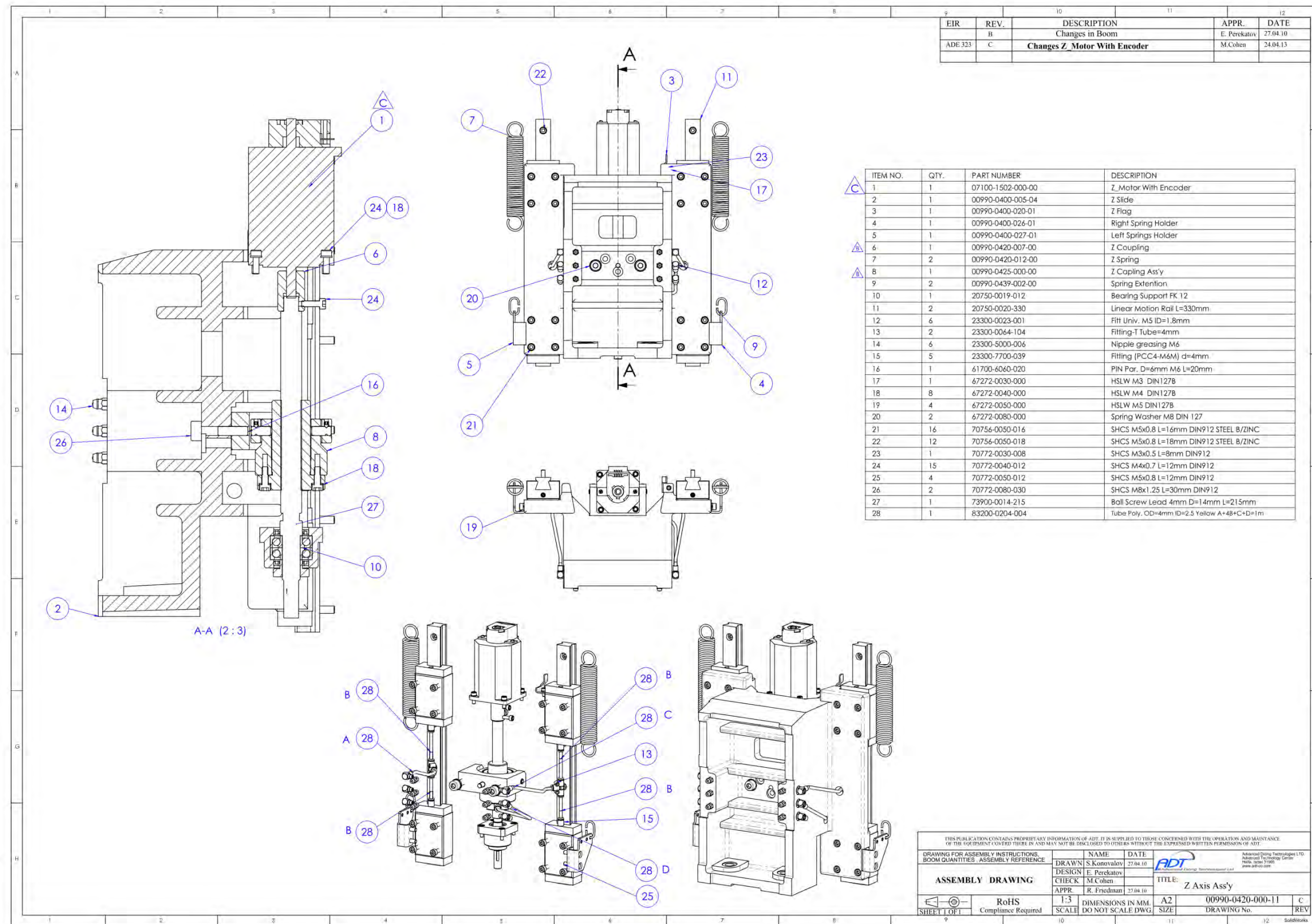
SIZE: A2

DRAWING No. 00990-0410-000-12

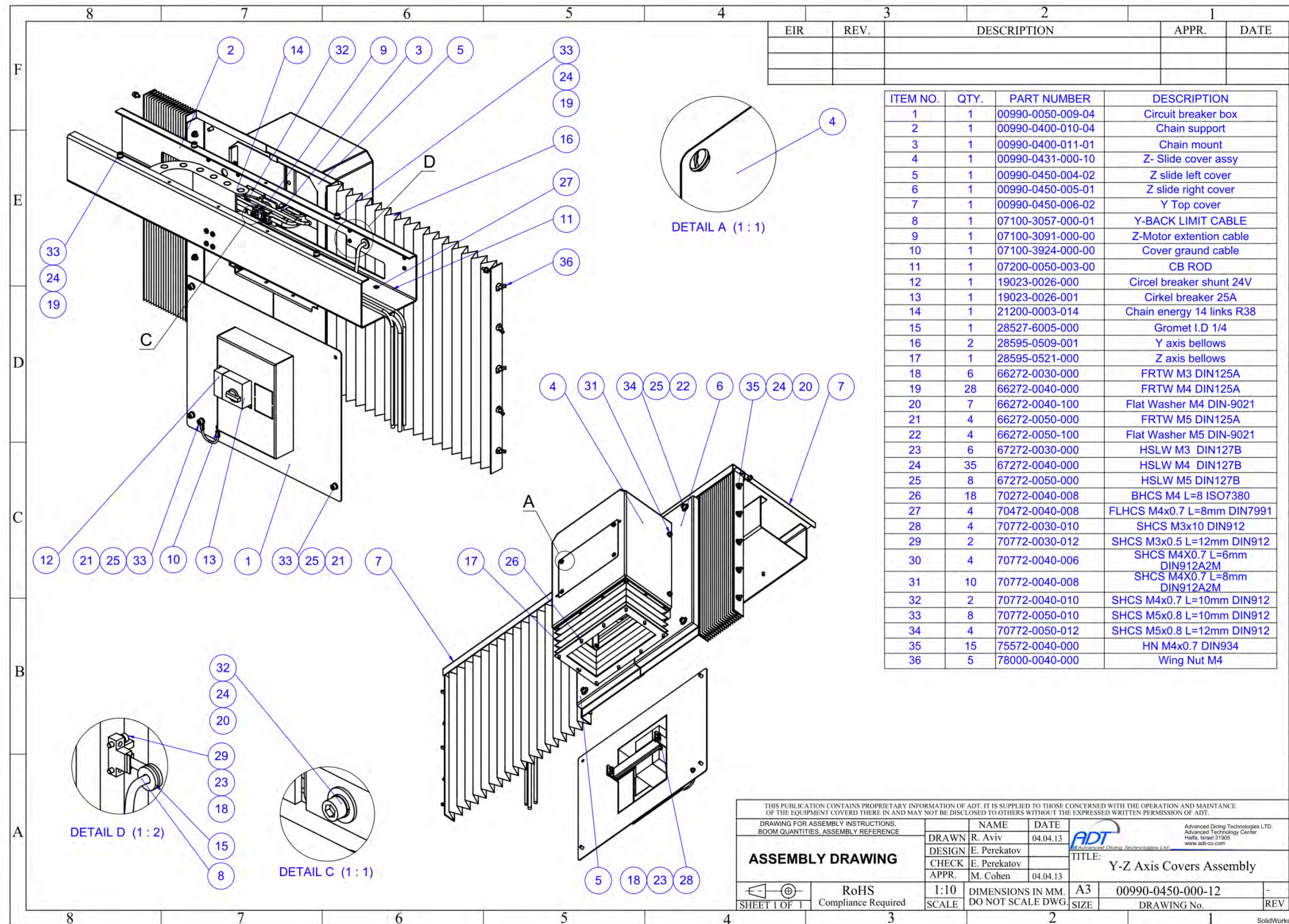
SHEET 1 OF 1

REV

2.3. Z-Axis Assembly 0990-0420-000-11

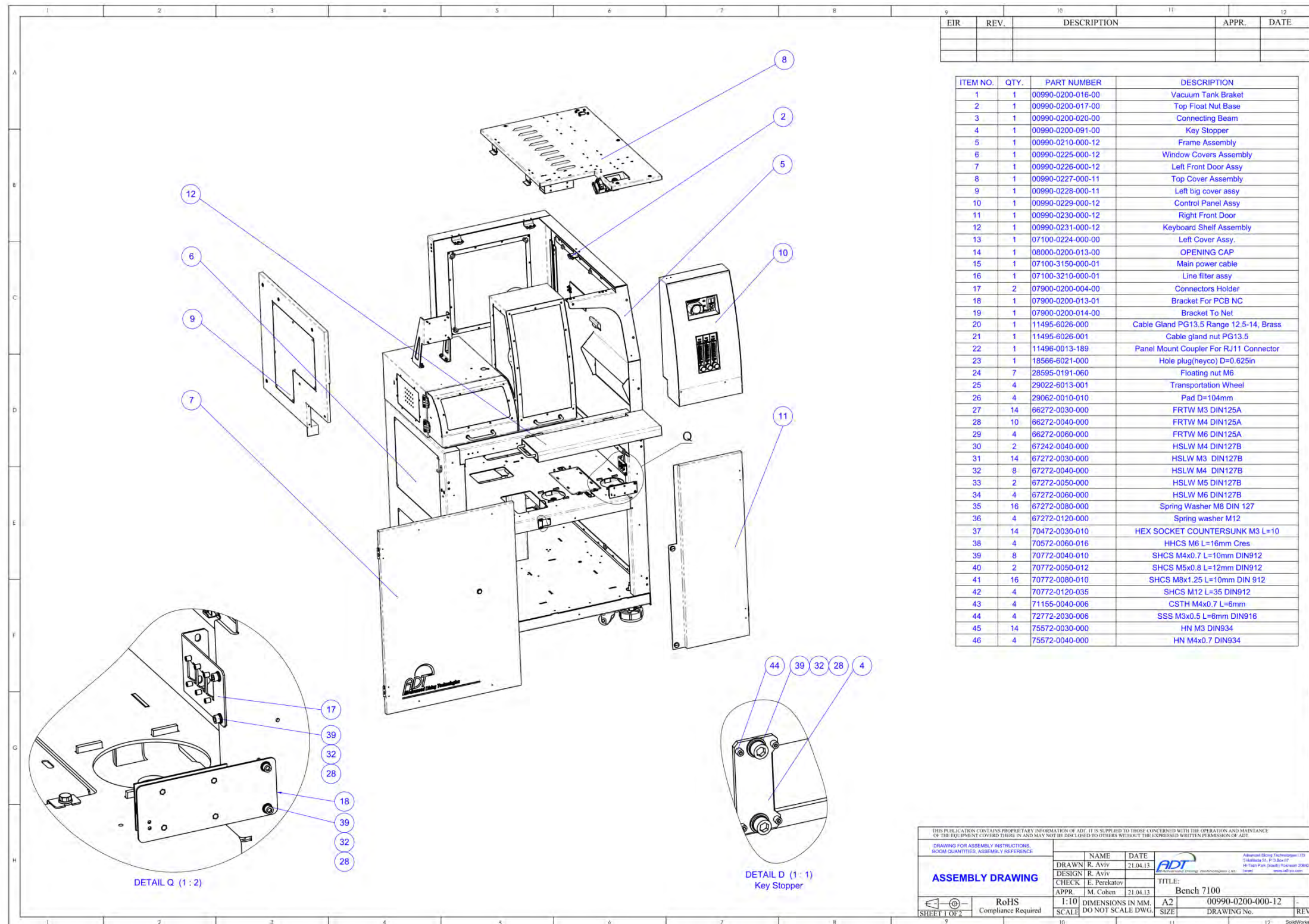


2.4. Y-Z Axis Covers Assembly 0990-0450-000-12



3. Bench and Covers

3.1. Bench 7100 00990-0200-000-11



EIR	REV.	DESCRIPTION	APPR.	DATE

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	00990-0200-016-00	Vacuum Tank Braket
2	1	00990-0200-017-00	Top Float Nut Base
3	1	00990-0200-020-00	Connecting Beam
4	1	00990-0200-091-00	Key Stopper
5	1	00990-0210-000-12	Frame Assembly
6	1	00990-0225-000-12	Window Covers Assembly
7	1	00990-0226-000-12	Left Front Door Assy
8	1	00990-0227-000-11	Top Cover Assembly
9	1	00990-0228-000-11	Left big cover assy
10	1	00990-0229-000-12	Control Panel Assy
11	1	00990-0230-000-12	Right Front Door
12	1	00990-0231-000-12	Keyboard Shelf Assembly
13	1	07100-0224-000-00	Left Cover Assy.
14	1	08000-0200-013-00	OPENING CAP
15	1	07100-3150-000-01	Main power cable
16	1	07100-3210-000-01	Line filter assy
17	2	07900-0200-004-00	Connectors Holder
18	1	07900-0200-013-01	Bracket For PCB NC
19	1	07900-0200-014-00	Bracket To Net
20	1	11495-6026-000	Cable Gland PG13.5 Range 12.5-14, Brass
21	1	11495-6026-001	Cable gland nut PG13.5
22	1	11496-0013-189	Panel Mount Coupler For RJ11 Connector
23	1	18566-6021-000	Hole plug(heyco) D=0.625in
24	7	28595-0191-060	Floating nut M6
25	4	29022-6013-001	Transportation Wheel
26	4	29062-0010-010	Pad D=104mm
27	14	66272-0030-000	FRTW M3 DIN125A
28	10	66272-0040-000	FRTW M4 DIN125A
29	4	66272-0060-000	FRTW M6 DIN125A
30	2	67242-0040-000	HSLW M4 DIN127B
31	14	67272-0030-000	HSLW M3 DIN127B
32	8	67272-0040-000	HSLW M4 DIN127B
33	2	67272-0050-000	HSLW M5 DIN127B
34	4	67272-0060-000	HSLW M6 DIN127B
35	16	67272-0080-000	Spring Washer M8 DIN 127
36	4	67272-0120-000	Spring washer M12
37	14	70472-0030-010	HEX SOCKET COUNTERSUNK M3 L=10
38	4	70572-0060-016	HHCS M6 L=16mm Cres
39	8	70772-0040-010	SHCS M4x0.7 L=10mm DIN912
40	2	70772-0050-012	SHCS M5x0.8 L=12mm DIN912
41	16	70772-0080-010	SHCS M8x1.25 L=10mm DIN 912
42	4	70772-0120-035	SHCS M12 L=35 DIN912
43	4	71155-0040-006	CSTH M4x0.7 L=6mm
44	4	72772-2030-006	SSS M3x0.5 L=6mm DIN916
45	14	75572-0030-000	HN M3 DIN934
46	4	75572-0040-000	HN M4x0.7 DIN934

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DRAWING FOR ASSEMBLY INSTRUCTIONS.
ROOM QUANTITIES, ASSEMBLY REFERENCE

DRAWN	R. Aviv	DATE	21.04.13
DESIGN	R. Aviv		
CHECK	E. Perkalov		
APPR.	M. Cohen	DATE	21.04.13

RoHS Compliance Required

SCALE: 1:10 DIMENSIONS IN MM. DO NOT SCALE DWG.

TITLE: Bench 7100

00990-0200-000-12

DRAWING No. REV

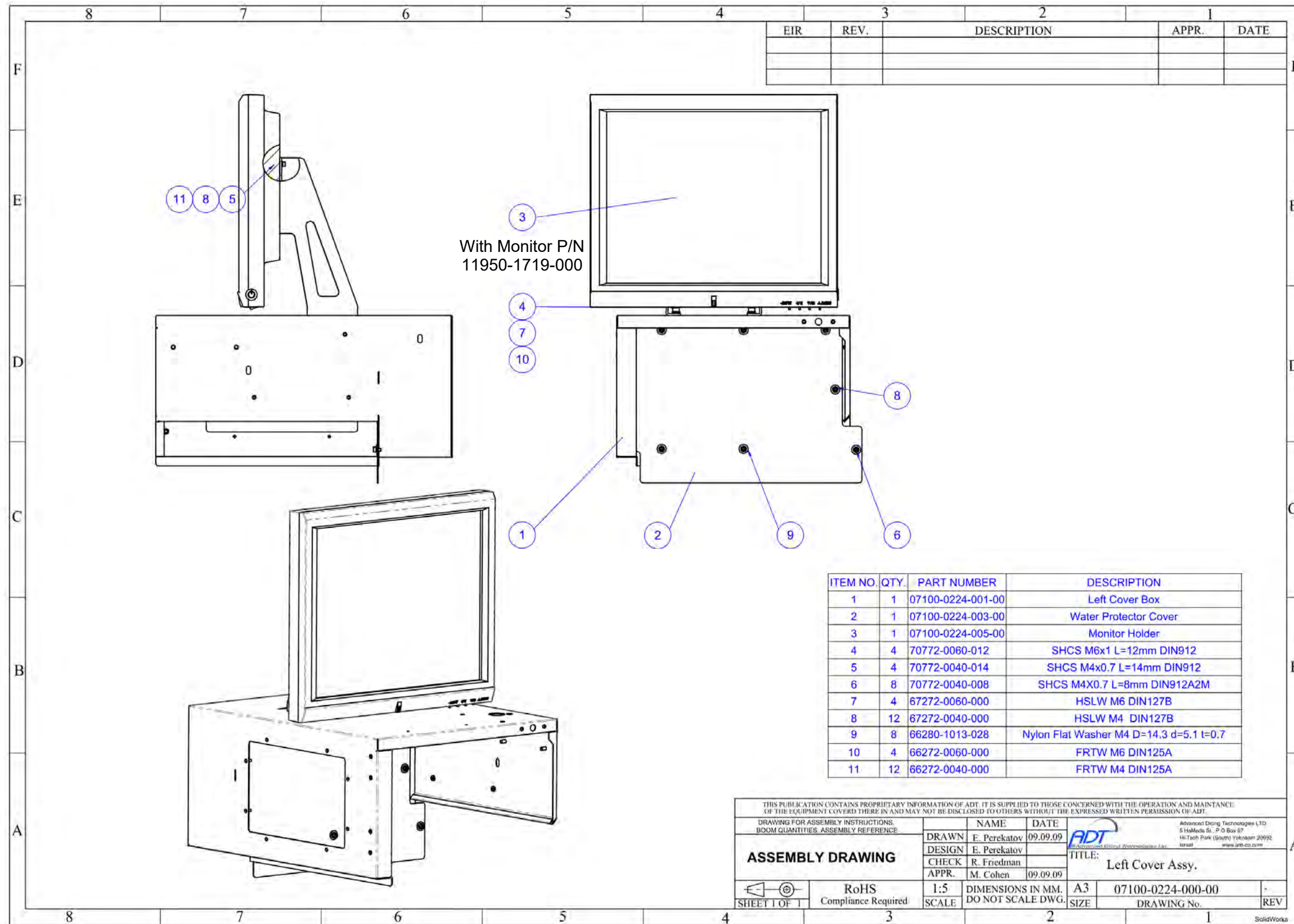
3.2. Front Large Rotate Cover 0990-0219-000-14

ITEM NO.	Default/QTY.	PART NUMBER	DESCRIPTION	ITEM NO.	Default/QTY.	PART NUMBER	DESCRIPTION
1	1	00990-0219-021-00	CE Actuator	51	2	67272-0080-000	Spring Washer M8 DIN 127
2	1	00990-0219-031-02	Right Cover Holder	52	4	67272-0060-000	HSLW M6 DIN127B
3	2	00990-0219-034-00	Rotate_mount_bushing	53	20	67272-0040-000	HSLW M4 DIN127B
4	1	00990-0219-035-00	Upper_axis	54	4	66272-0060-000	FRTW M6 DIN125A
5	1	00990-0219-036-01	Lower Axis	55	10	67272-0030-000	HSLW M3 DIN127B
6	4	00990-0219-039-00	C_Clamp	56	10	66272-0030-000	FRTW M3 DIN125A
7	2	00990-0219-040-00	Bushing	57	2	66272-0040-100	Flat Washer M4 DIN-9021
8	1	00990-0219-060-00	SCREW_PLATE				
9	1	00990-0219-061-01	Rotate_Brct_Mount				
10	1	00990-0219-062-01	Lower arm holder				
11	1	00990-0219-063-00	LOW ARM AXIS				
12	1	00990-0219-064-02	Parallel Sleeve				
13	1	00990-0219-065-02	Spacer				
14	1	00990-0219-067-00	Large front cover.low arm				
15	1	07100-0871-001-01	Stand For Mag				
16	1	00990-0222-000-14	Front Large Cover				
17	1	07100-0224-002-00	Load Cover				
18	1	07100-0224-004-00	Middle Transparent Cover				
19	1	07100-0224-007-00	Magnet Housing				
20	2	07100-0224-008-00	Hingle Nut Plate				
21	1	07100-0224-009-00	Load Door Window				
22	1	07100-0224-010-00	Left Window				
23	1	07100-0224-006-00	Blade Change Middle Cover				
24	6	20750-0106-010	BEAR.SLIP+FLNG OD=12,ID=10,PLAST.L=10				
25	1	20750-0107-008	BEAR.SLIP+FLNG OD=10,ID=8,PLAST.L=6MM				
26	2	25024-0003-000	HANDLE				
27	4	25024-0003-001	Handle Base				
28	2	26693-0090-110	Retaning ring d=9 s=1.1				
29	1	26693-0050-070	Retaining ring D=5mm TH=0.7mm				
30	1	28562-0567-100	Stabilus 0567YO				
31	1	28562-0015-100	Gaz spring 100N Strok=100 L=275.5				
32	4	28551-0010-004	Magnet 10mmx4mm				
33	2	28534-0007-003	Left Cover				
34	1	28530-0006-000	Sugatsune Clear Bumper BS-12				
35	2	75572-2160-000	Hex nut M16x1.5 m=8				
36	2	75572-0080-000	HN M8 DIN934				
37	20	75572-0040-000	HN M4x0.7 DIN934				
38	8	72772-2040-012	SSS M4x0.7 L=12mm DIN916				
39	4	70772-0060-020	SHCS M6x0.1 L=20mm DIN912				
40	8	70772-0050-008	SHCS M5x0.8 L=8mm DIN912				
41	6	70772-0040-012	SHCS M4x0.7 L=12mm DIN912				
42	1	70472-0030-005	FLHCS M3x0.5 L=5mm DIN 7991				
43	2	70472-0030-006	FLHCS M3x0.5 L=6mm DIN 7991				
44	1	70472-0040-008	FLHCS M4x0.7 L=8mm DIN7991				
45	2	70472-0050-010	FLHCS M5x0.8 L=10mm DIN7991				
46	4	70772-0050-016	SHCS M5x0.8 L=16mm DIN912				
47	10	70772-0030-008	SHCS M3x0.5 L=8mm DIN912				
48	4	66272-0050-000	FRTW M5 DIN125A				
49	20	66272-0040-000	FRTW M4 DIN125A				
50	4	67272-0050-000	HSLW M5 DIN127B				

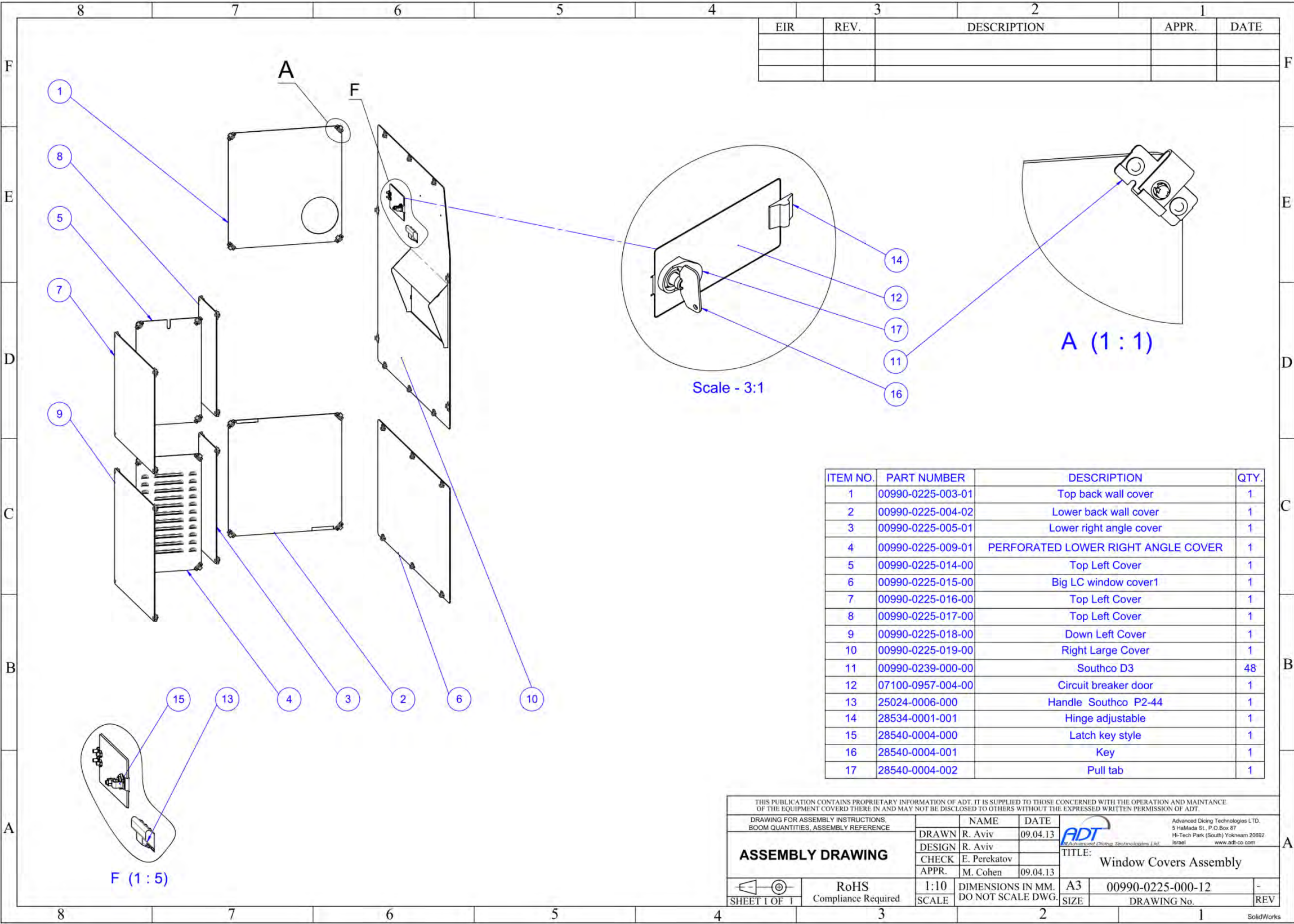
EIR	REV.	DESCRIPTION	APPR.	DATE

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DRAWING FOR ASSEMBLY INSTRUCTIONS, BOM QUANTITIES, ASSEMBLY REFERENCE		NAME S.Yuzefovich	DATE 01.11.12
ASSEMBLY DRAWING		DESIGN B.Tamarutsky	Advanced Dicing Technologies LTD. Advanced Technology Center Haifa, Israel 31905 www.adt-co.com
		CHECK R. Friedman	
		APPR. M. Cohen	
RoHS Compliance Required		1:5 SCALE	DIMENSIONS IN MM. DO NOT SCALE DWG.
SHEET 1 OF 1	A3 SIZE	00990-0219-000-14 DRAWING No.	- REV

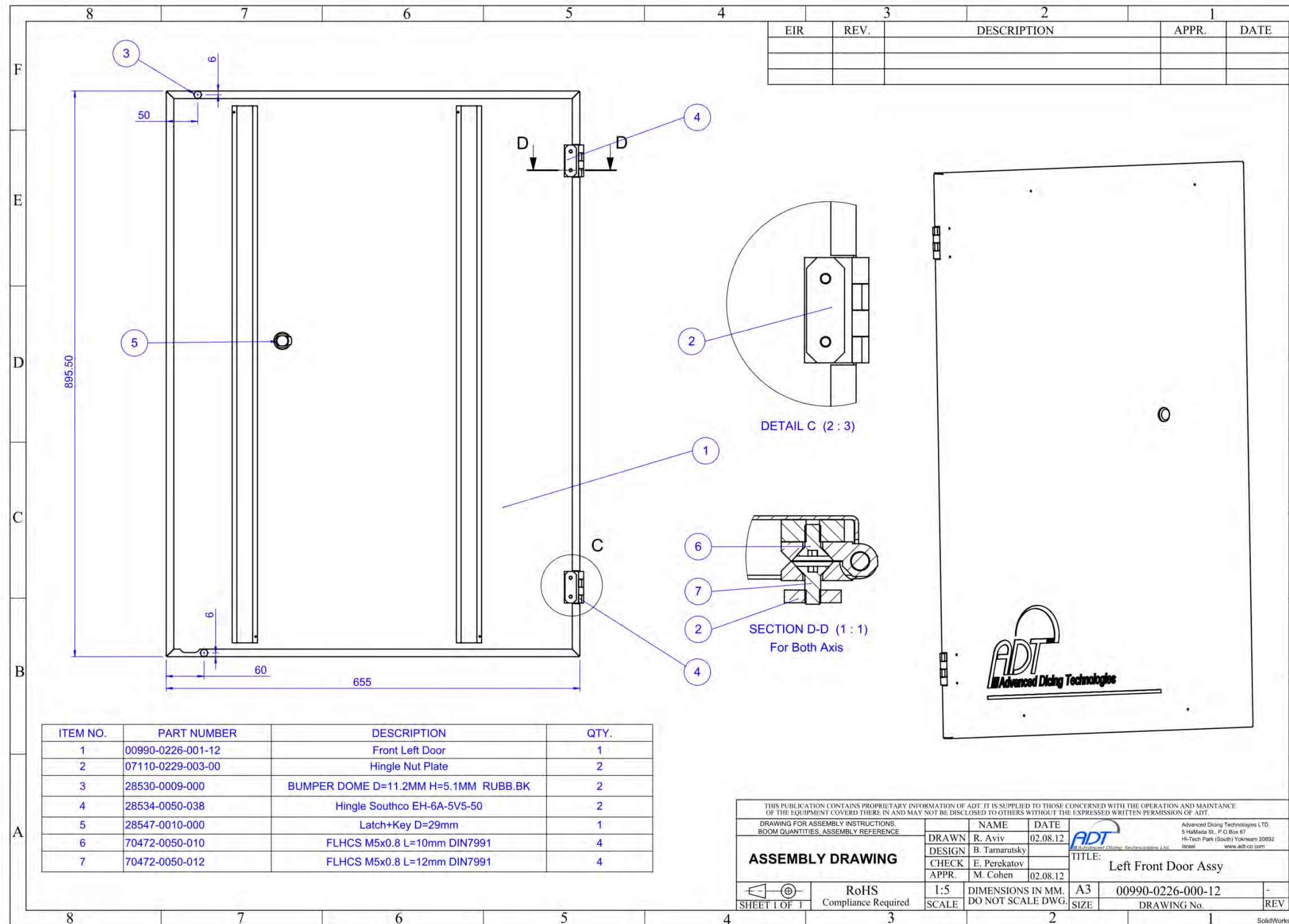
3.3. Left Cover Assembly 07100-0224-000-00



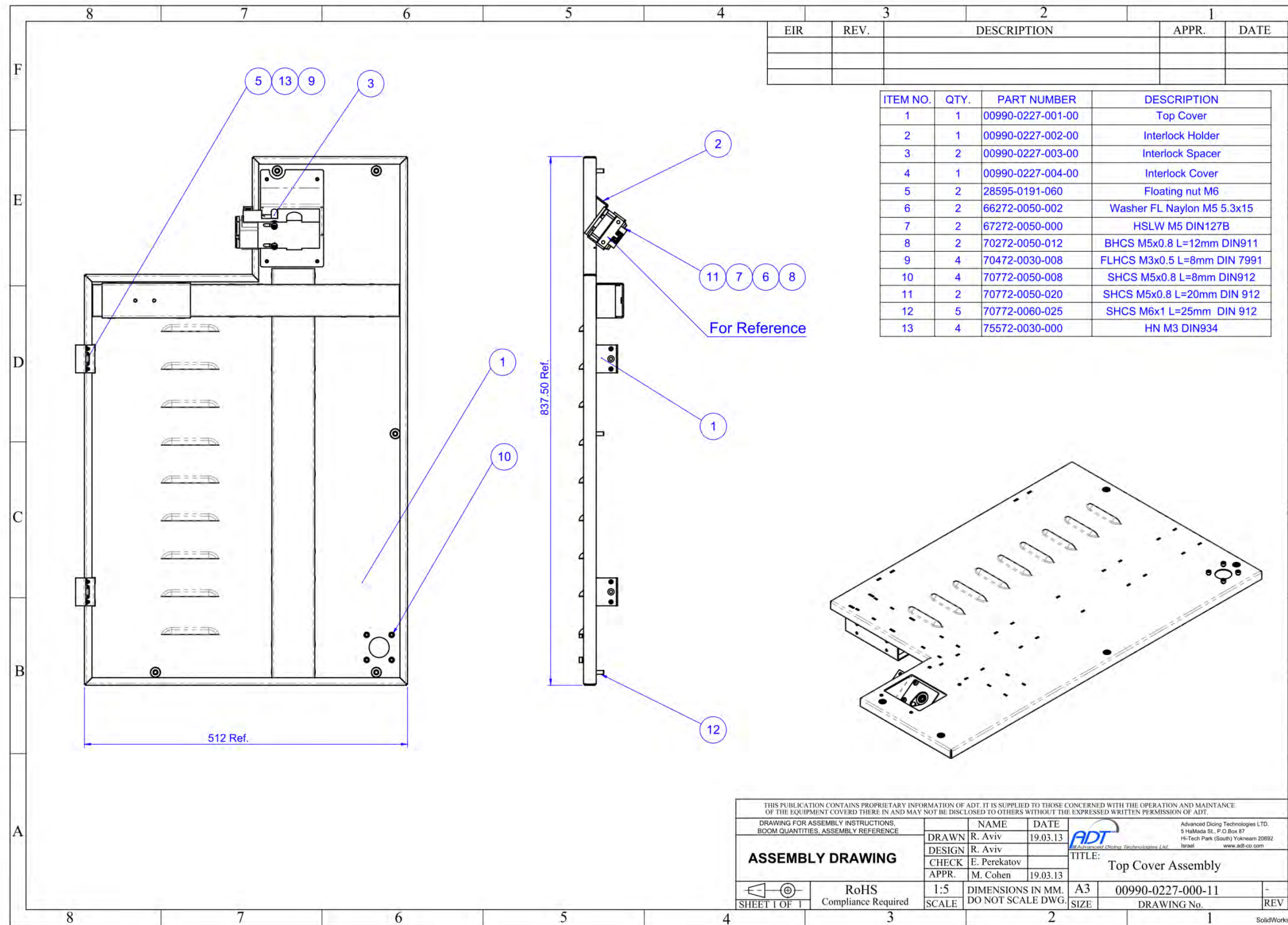
3.4. Window Covers Assembly 00990-0225-000-12



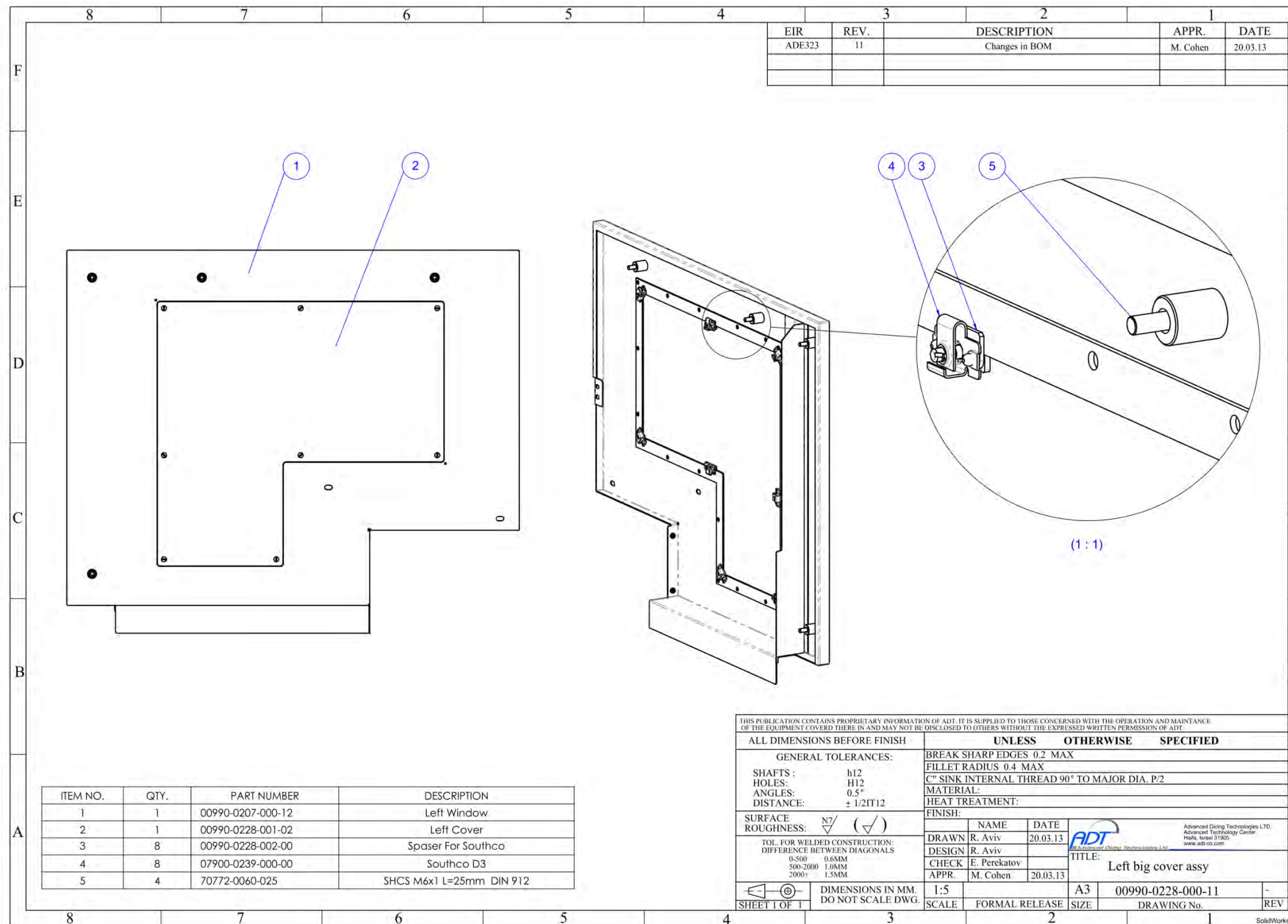
3.5. Left Front Door Assembly 00990-0226-000-12



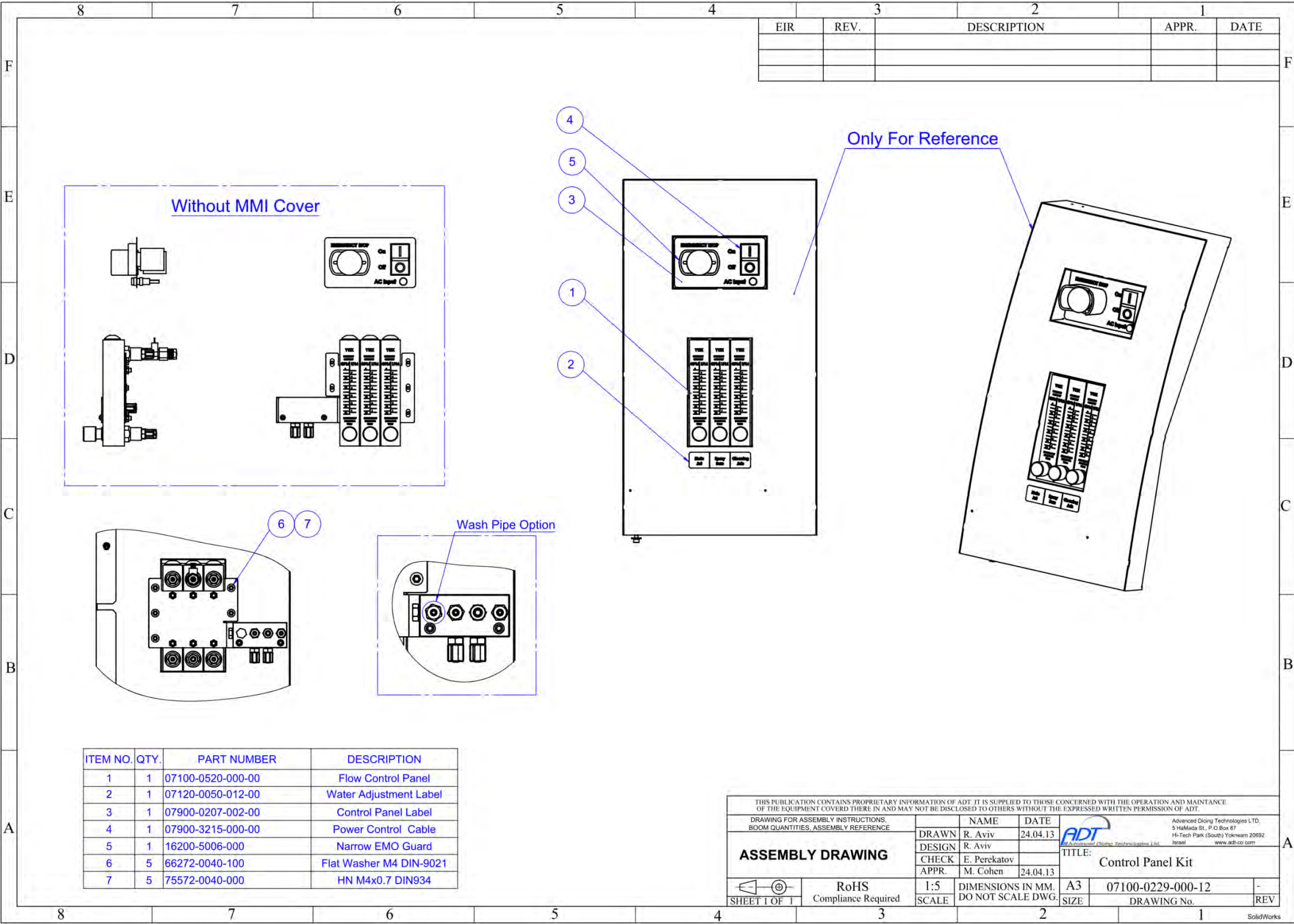
3.6. Top Cover Assembly 00990-0227-000-11



3.7. Left Big Cover Assembly 0990-0228-000-11



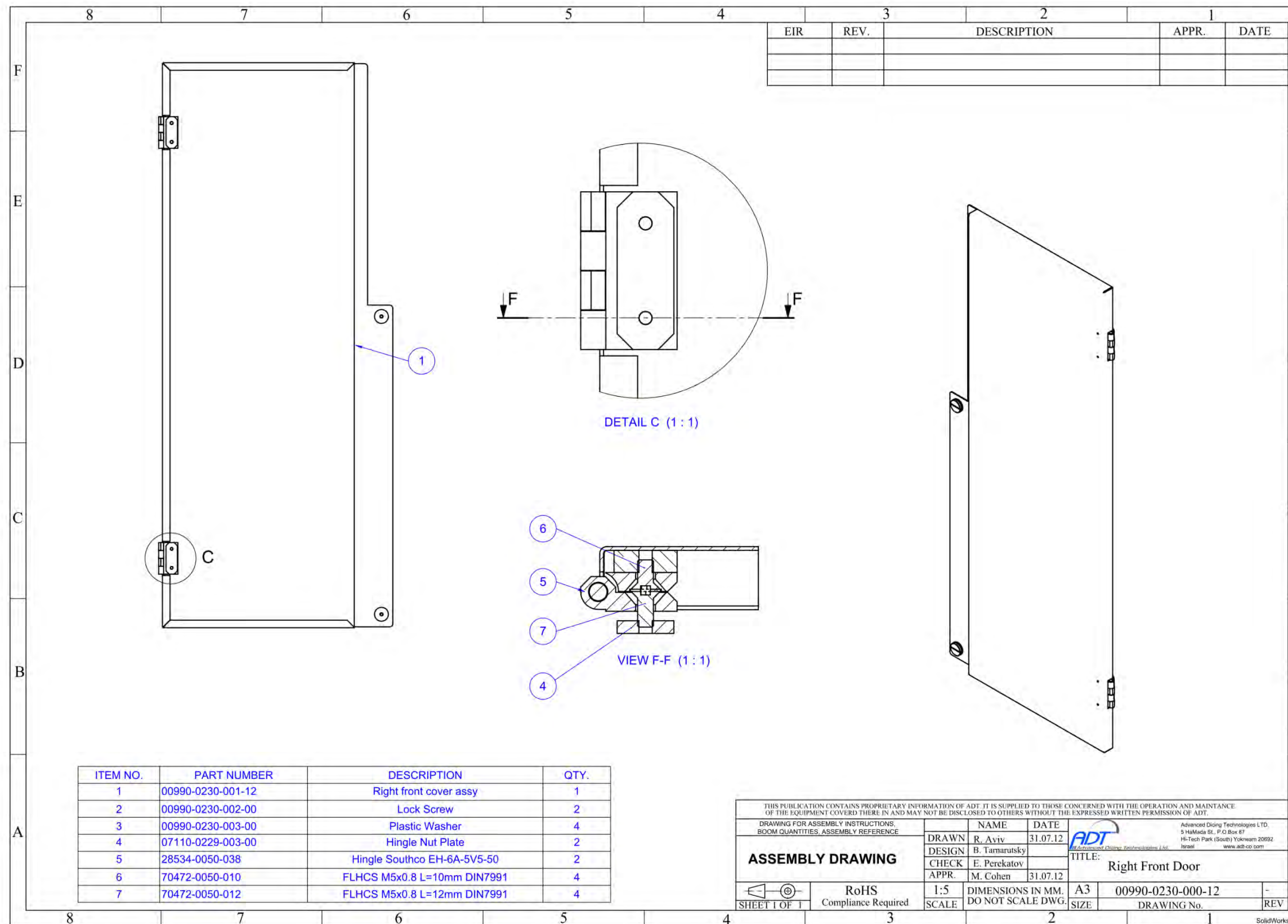
3.8. Control Panel Kit 07100-0229-000-12



EIR	REV.	DESCRIPTION	APPR.	DATE

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DRAWING FOR ASSEMBLY INSTRUCTIONS, BOM QUANTITIES, ASSEMBLY REFERENCE		NAME	DATE	Advanced Dicing Technologies LTD. 5 Hakdada St., P.O. Box 67 Hi-Tech Park (South) Yokneam 20992 Israel www.adt-co.com
ASSEMBLY DRAWING		DRAWN	R. Aviv	
		DESIGN	R. Aviv	
		CHECK	E. Perekatov	
		APPR.	M. Cohen	
			24.04.13	TITLE: Control Panel Kit
RoHS Compliance Required	1:5 SCALE	DIMENSIONS IN MM. DO NOT SCALE DWG.	A3 SIZE	07100-0229-000-12 DRAWING No.
SHEET 1 OF 1				- REV

3.9. Right Front Door 00990-0230-000-00

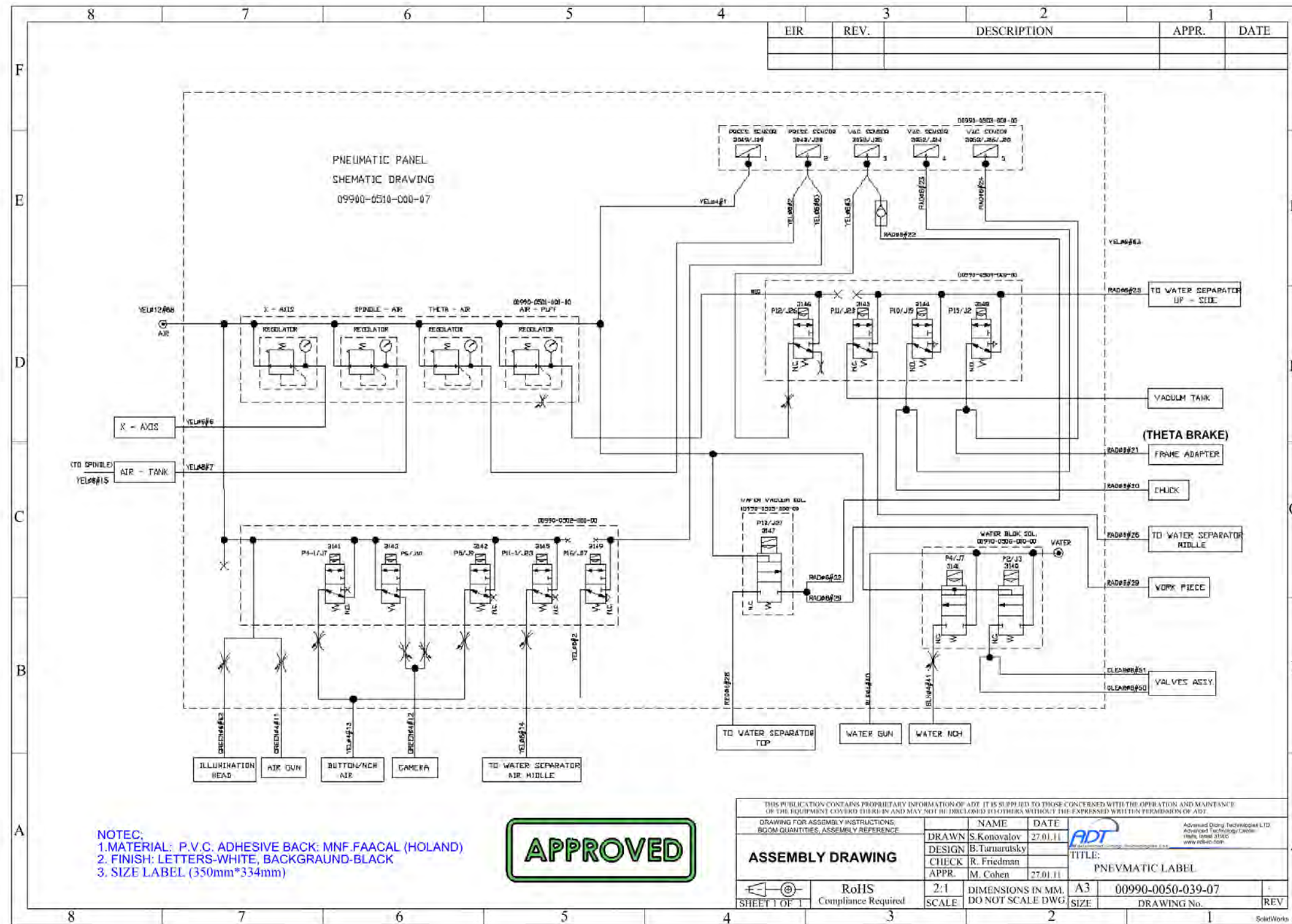


Section 2. **HYDRAULICS AND PNEUMATICS**

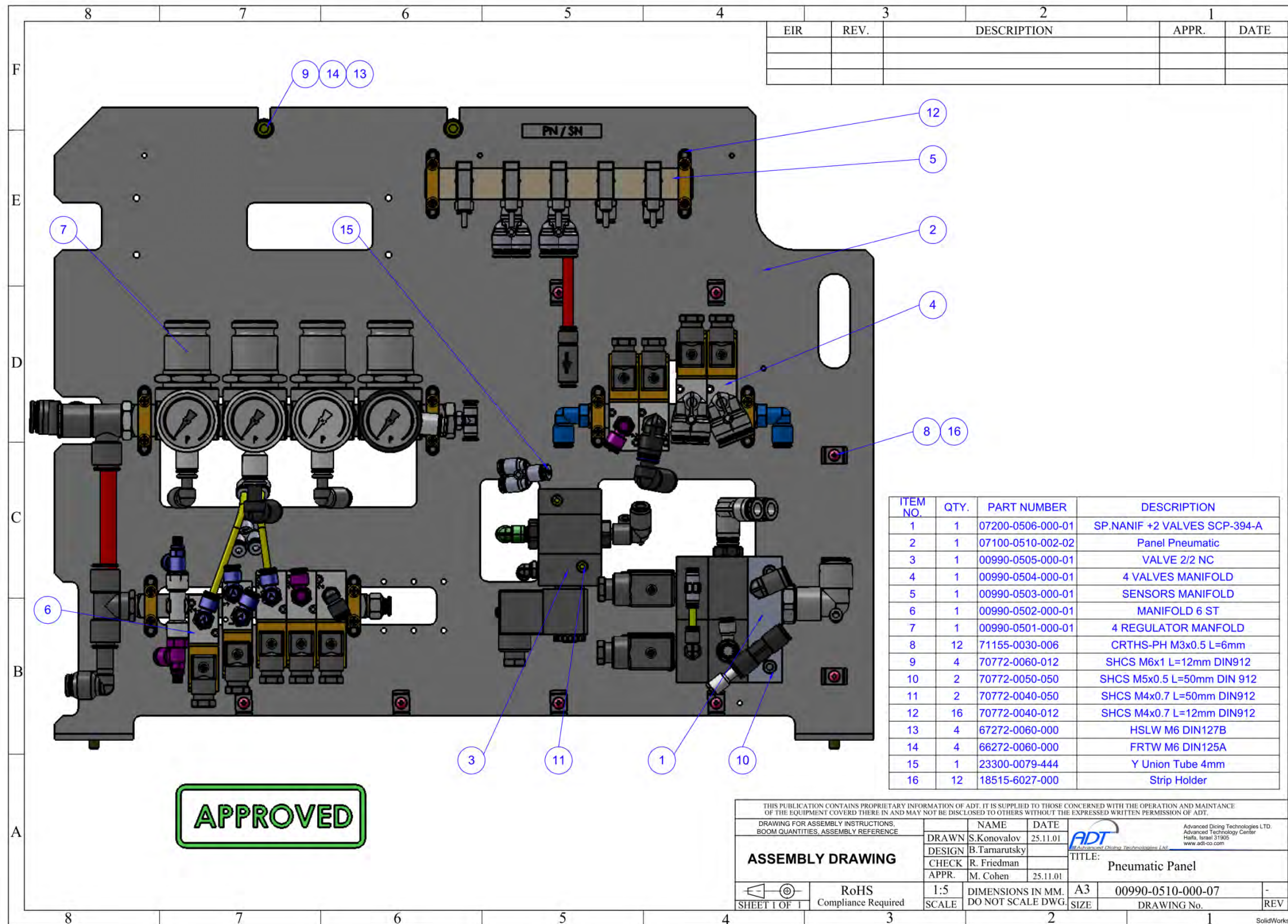
- **4. General Assembly**
- **5. Pneumatics**
- **6. Hydraulics**

4. General Assembly

4.1. Pneumatic Panel Assembly - Schematic Diagram 00990-0050-039-07



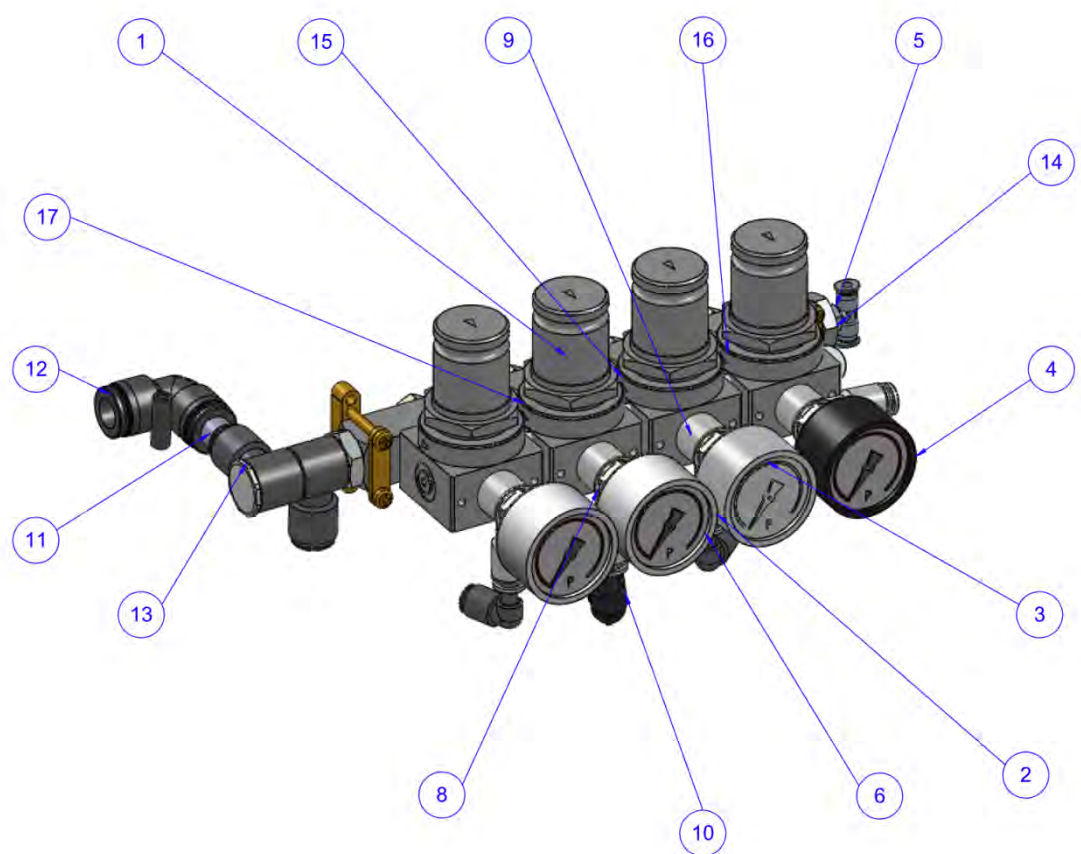
4.2. Pneumatic Panel Assembly 00990-0510-000-07



5. Pneumatics

5.1. 4 Regulator Manifold Assembly 00990-0501-000-01

EIR	REV.	DESCRIPTION	APPR.	DATE

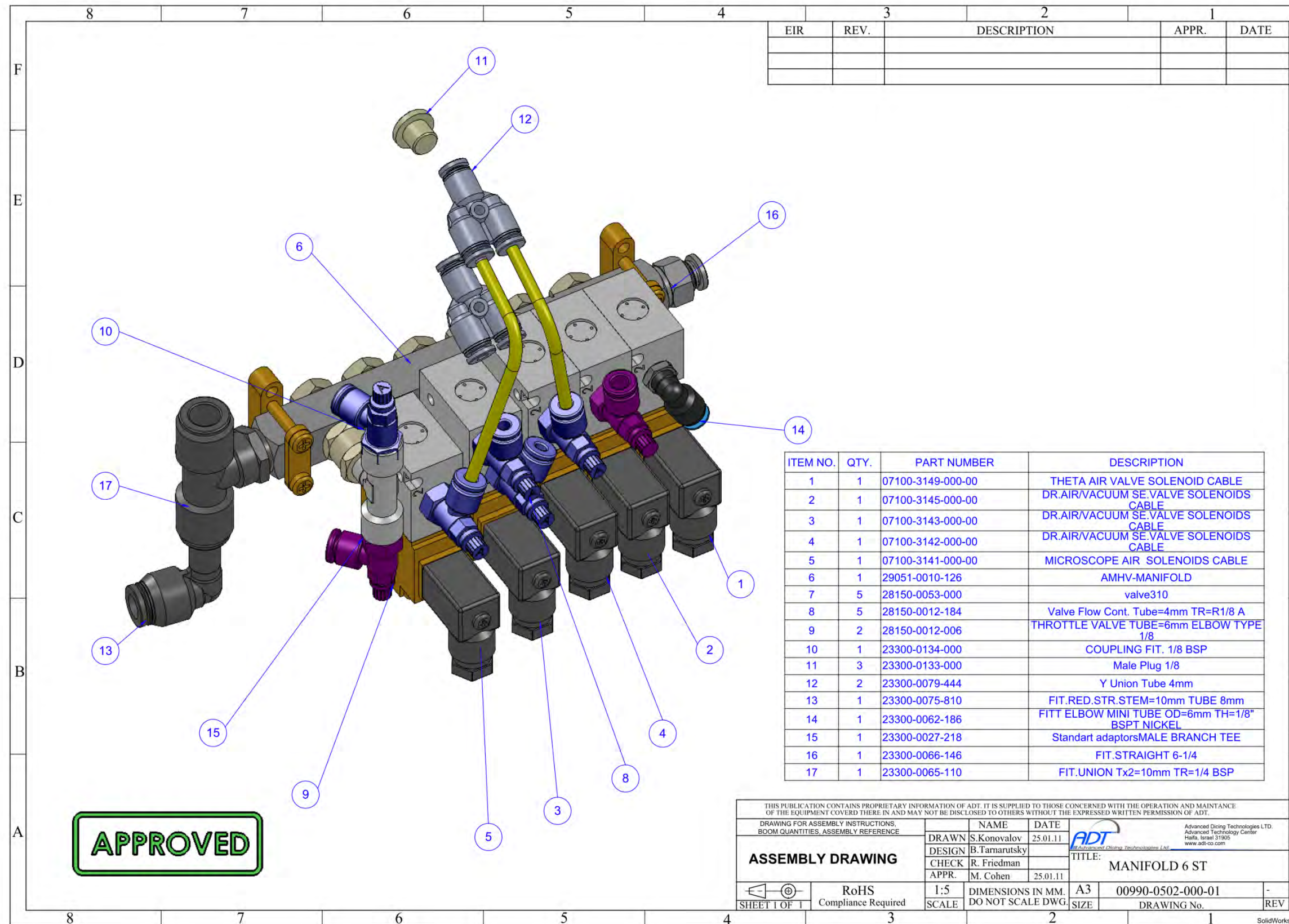


ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	29051-0009-000	Manifold AMR 02-4
2	2	24250-0010-010	GAUGE 10BAR G1/8" DIA=40MM
3	1	24250-0010-004	GAUGE 4BAR G1/8 DIA=40mm
4	1	24250-0009-002	Pressure Gauge 2 Bar
5	1	23300-0219-418	FIT.TEE MINI 4-R1/8
6	2	23300-0212-006	PLUG-IN ELBOW 6
7	4	23300-0133-000	Fitt Plug TH=1/8 Bsp Brass
8	1	23300-0132-008	FIT.ELBW.TH.FEMALE=1/4BSP
9	3	23300-0132-006	FIT.ELBW.TH.FEMALE=1/4BSP TUBE=6mm
10	1	23300-0126-008	SOCKET ELBOW 8
11	1	23300-0114-000	ADAPTER PIG12-10
12	1	23300-0114-004	UNION ELBOW PV12 PISKO
13	1	23300-0072-038	FIT. PHW10-03
14	1	23300-0027-008	BUSH 3/8-1/8
15	1	14800-0028-000	bit MICRO-REGULATOR 1/4 0-4 bar
16	1	14800-0027-000	bit MICRO-REGULATOR 1/4 0-2BAR
17	2	14800-0023-000	bit MICRO-REGULATOR 1/4 08

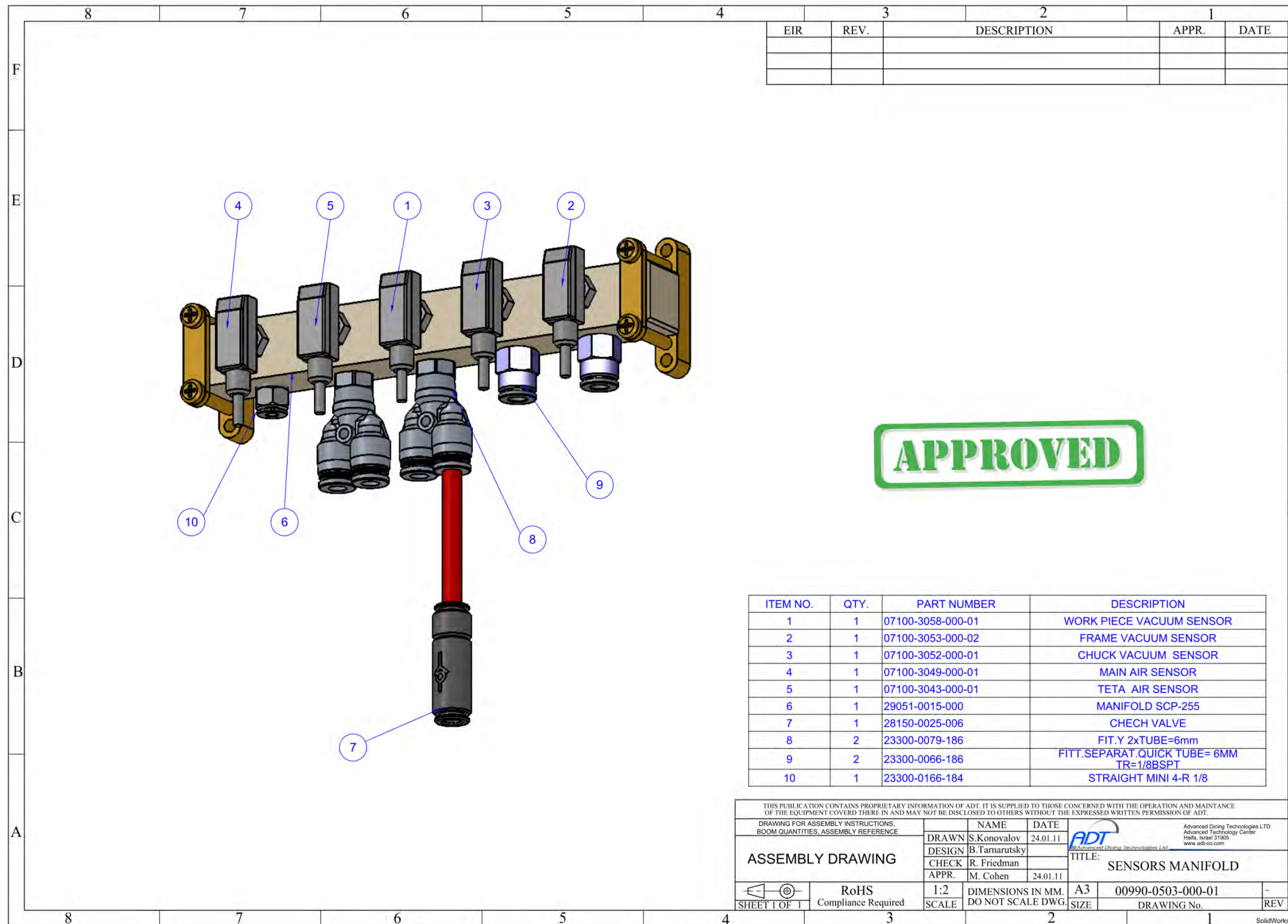
APPROVED

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DRAWING FOR ASSEMBLY INSTRUCTIONS. BOOM QUANTITIES, ASSEMBLY REFERENCE		NAME	DATE	
		DRAWN B.Tarnarutsky	08.01.08	 <small>Advanced Dicing Technologies LTD. Advanced Technology Center Haifa, Israel 31905 www.adt-co.com</small>
ASSEMBLY DRAWING		DESIGN B.Tarnarutsky		
		CHECK R. Friedman		
		APPR. M. Cohen	08.01.08	
SHEET 1 OF 1	RoHS Compliance Required	1:5 SCALE	DIMENSIONS IN MM. DO NOT SCALE DWG.	A3 SIZE
		00990-0501-000-01	DRAWING No.	REV

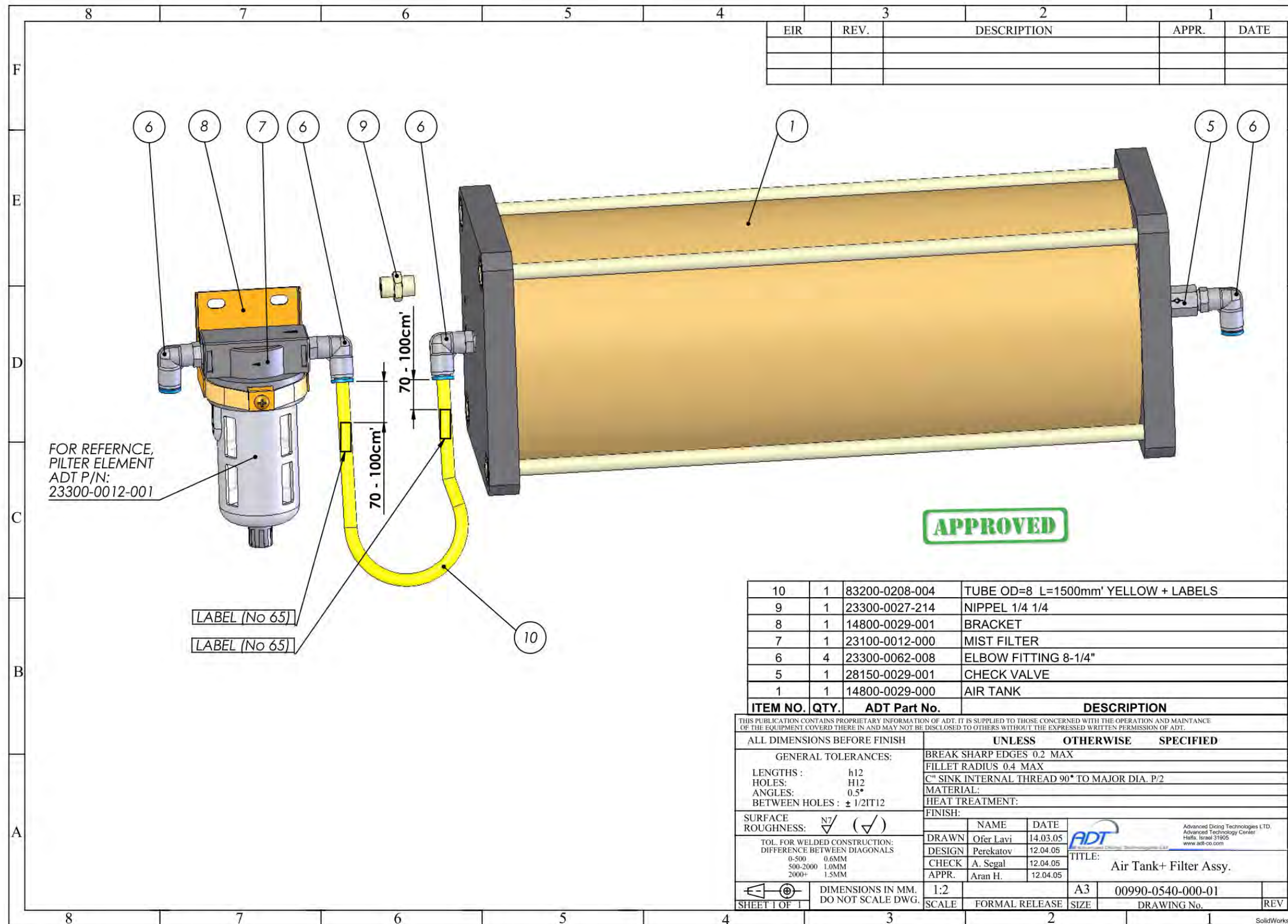
5.2. Manifold 6 ST Assembly 00990-0502-000-01



5.3. Sensors Manifold Assembly 00990-0503-000-01



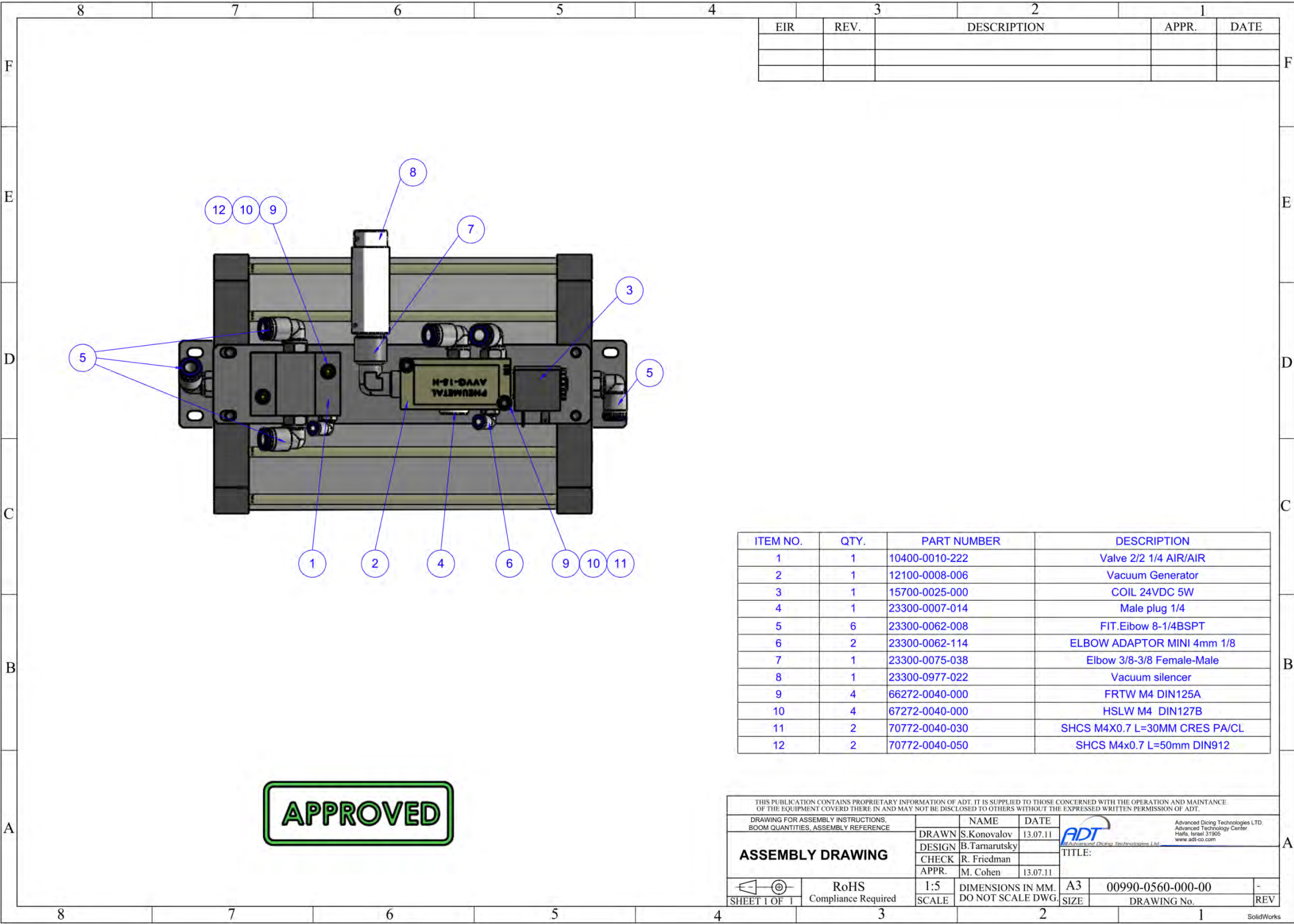
5.4. Air Tank + Filter Assembly 00990-0540-000-01



ITEM NO.	QTY.	ADT Part No.	DESCRIPTION
10	1	83200-0208-004	TUBE OD=8 L=1500mm' YELLOW + LABELS
9	1	23300-0027-214	NIPPEL 1/4 1/4
8	1	14800-0029-001	BRACKET
7	1	23100-0012-000	MIST FILTER
6	4	23300-0062-008	ELBOW FITTING 8-1/4"
5	1	28150-0029-001	CHECK VALVE
1	1	14800-0029-000	AIR TANK

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ALL DIMENSIONS BEFORE FINISH		UNLESS OTHERWISE SPECIFIED	
GENERAL TOLERANCES:		BREAK SHARP EDGES 0.2 MAX	
LENGTHS : h12		FILLET RADIUS 0.4 MAX	
HOLES: H12		C° SINK INTERNAL THREAD 90° TO MAJOR DIA. P/2	
ANGLES: 0.5°		MATERIAL:	
BETWEEN HOLES : ± 1/2IT12		HEAT TREATMENT:	
SURFACE ROUGHNESS: N7 (✓) (✓)		FINISH:	
TOL. FOR WELDED CONSTRUCTION: DIFFERENCE BETWEEN DIAGONALS		DRAWN: Ofer Lavi 14.03.05	
0-500 0.6MM		DESIGN: Perkatov 12.04.05	
500-2000 1.0MM		CHECK: A. Segal 12.04.05	
2000+ 1.5MM		APPR: Aran H. 12.04.05	
DIMENSIONS IN MM. DO NOT SCALE DWG.		SCALE: 1:2	
SHEET 1 OF 1		FORMAL RELEASE	
		SIZE: A3	
		DRAWING No. 00990-0540-000-01	
		REV: 1	



5.5. Vacuum Tank + Integrated Vacuum Pump 00990-0560-000-00



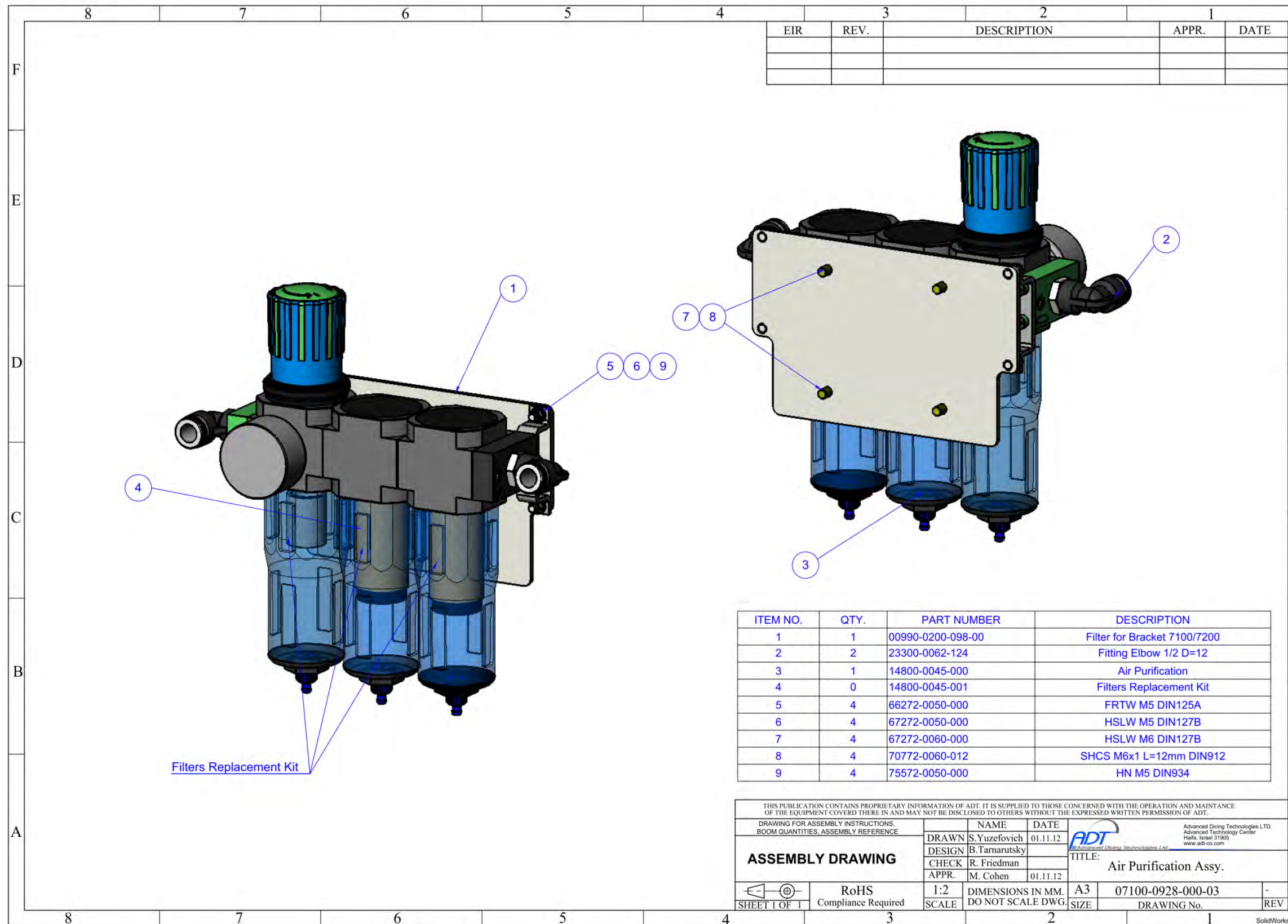
EIR	REV.	DESCRIPTION	APPR.	DATE

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	10400-0010-222	Valve 2/2 1/4 AIR/AIR
2	1	12100-0008-006	Vacuum Generator
3	1	15700-0025-000	COIL 24VDC 5W
4	1	23300-0007-014	Male plug 1/4
5	6	23300-0062-008	FIT.Eibow 8-1/4BSPT
6	2	23300-0062-114	ELBOW ADAPTOR MINI 4mm 1/8
7	1	23300-0075-038	Elbow 3/8-3/8 Female-Male
8	1	23300-0977-022	Vacuum silencer
9	4	66272-0040-000	FRTW M4 DIN125A
10	4	67272-0040-000	HSLW M4 DIN127B
11	2	70772-0040-030	SHCS M4X0.7 L=30MM CRES PA/CL
12	2	70772-0040-050	SHCS M4x0.7 L=50mm DIN912

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DRAWING FOR ASSEMBLY INSTRUCTIONS, BOOM QUANTITIES, ASSEMBLY REFERENCE		NAME	DATE	 Advanced Dicing Technologies LTD Advanced Technology Center Haifa, Israel 31905 www.adt-co.com
DRAWN		S.Kononov	13.07.11	
DESIGN		B.Tamarutsky		
CHECK		R.Friedman		
ASSEMBLY DRAWING		APPR.	M. Cohen	13.07.11
 SHEET 1 OF 1	RoHS Compliance Required	1:5 SCALE	DIMENSIONS IN MM. DO NOT SCALE DWG.	A3 SIZE 00990-0560-000-00 DRAWING No.
				REV

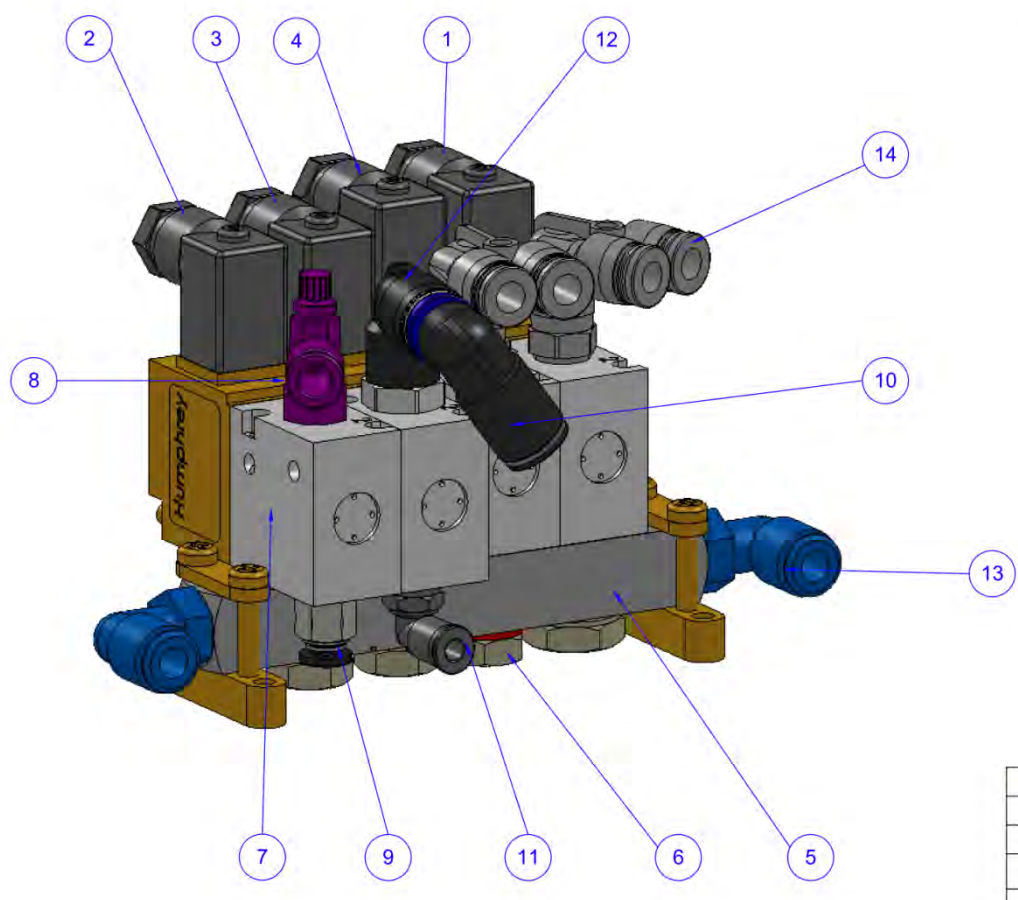
5.6. Air Purification Assembly 07100-0928-000-03



6. Hydraulics

6.1. 4 Valves Manifold Assembly 00990-0504-000-01

EIR	REV.	DESCRIPTION	APPR.	DATE



ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	07100-3148-000-00	FRAME VACUUM VALVE SOLENOID CABLE
2	1	07100-3146-000-00	WAF AIR RELEASE SOLENOID CABLE
3	1	07100-3145-000-00	DR.AIR/VACUUM SE.VALVE SOLENOIDS CABLE
4	1	07100-3144-000-00	CHUCK VACUUM VALVE SOLENOID CABLE
5	1	29051-0014-000	AMHV-MANIFOLD
6	1	23300-7100-001	SPECIALABJO TH.1/8 BCP
7	4	28150-0053-000	valve310
8	1	28150-0012-006	THROTTLE VALVE TUBE=6mm ELBOW TYPE 1/8
9	1	23300-0166-185	PC4-01SUS Fix orific
10	1	23300-0126-008	SOCKET ELBOW 8
11	1	23300-0062-114	FIT.ELBOW TUBE=4mm TH=1/8 MINI
12	1	23300-0062-108	FITT ELBOW SUS TUBE OD=8mm TH=1/8"
13	2	23300-0062-006	Fitting Elbow Tube=6mm TR=1/4BSPT
14	2	23300-0039-618	FIT.Union-Y EIBOW 2x6-D1/8

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DRAWING FOR ASSEMBLY INSTRUCTIONS. BOOM QUANTITIES, ASSEMBLY REFERENCE	NAME	DATE	Advanced Dicing Technologies LTD. Advanced Technology Center Haifa, Israel 31905 www.adt-co.com
ASSEMBLY DRAWING	DRAWN S.Kononov	25.01.11	 TITLE: 4 VALVES MANIFOLD
	DESIGN B.Tarnarutsky		
	CHECK R. Friedman		
	APPR. M. Cohen	25.01.11	
SHEET 1 OF 1	RoHS Compliance Required	1:2 SCALE	DIMENSIONS IN MM. DO NOT SCALE DWG.
		A3 SIZE	00990-0504-000-01
			DRAWING No.
			REV

6.2. Valve 2/2 NC (P13) 00990-0505-000-01

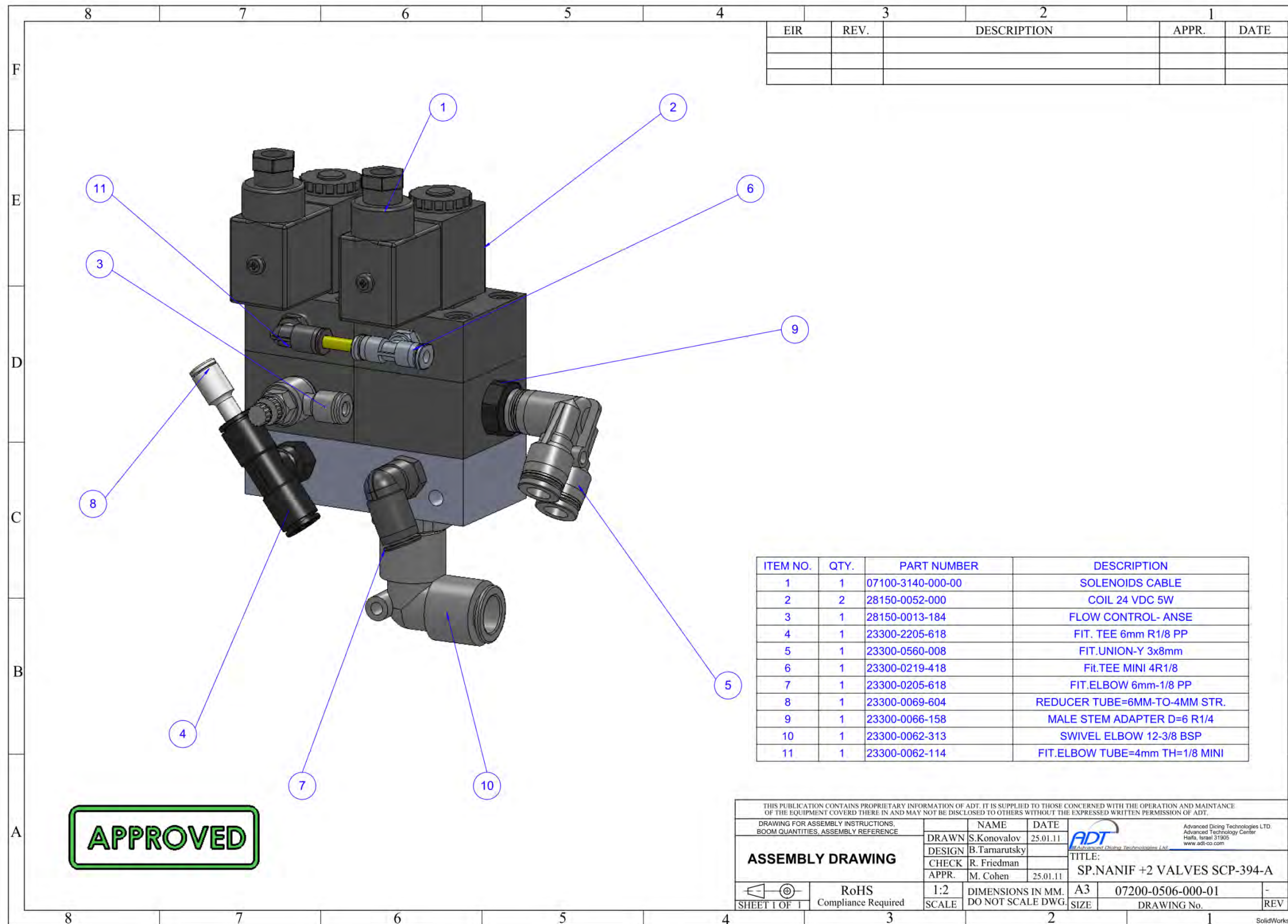
The diagram shows an exploded view of a 2/2 NC valve assembly. Callout 1 points to a cable, 2 to a coil, 3 to a union triod, 4 to a stem adapter, 5 to an elbow tube (4mm), 6 to an elbow tube (6mm), and 7 to a solenoid valve. A green 'APPROVED' stamp is located in the bottom left corner of the drawing area.

EIR	REV.	DESCRIPTION	APPR.	DATE

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	07100-3147-000-00	L.P NCN/WATER CABLE
2	1	28150-0052-000	COIL 24VDC 5W
3	1	23300-0115-006	FIT.UNION TRIOD 3x=6mm
4	2	23300-0066-158	MALE STEM ADAPTER D=6 R1/4
5	1	23300-0062-114	FIT.ELBOW TUBE=4mm TH=1/8 MINI
6	1	23300-0038-116	FIT.ELBOW TUBE=6mm
7	1	10400-0010-003	SOLENOID VALVE 1/4 24VDC

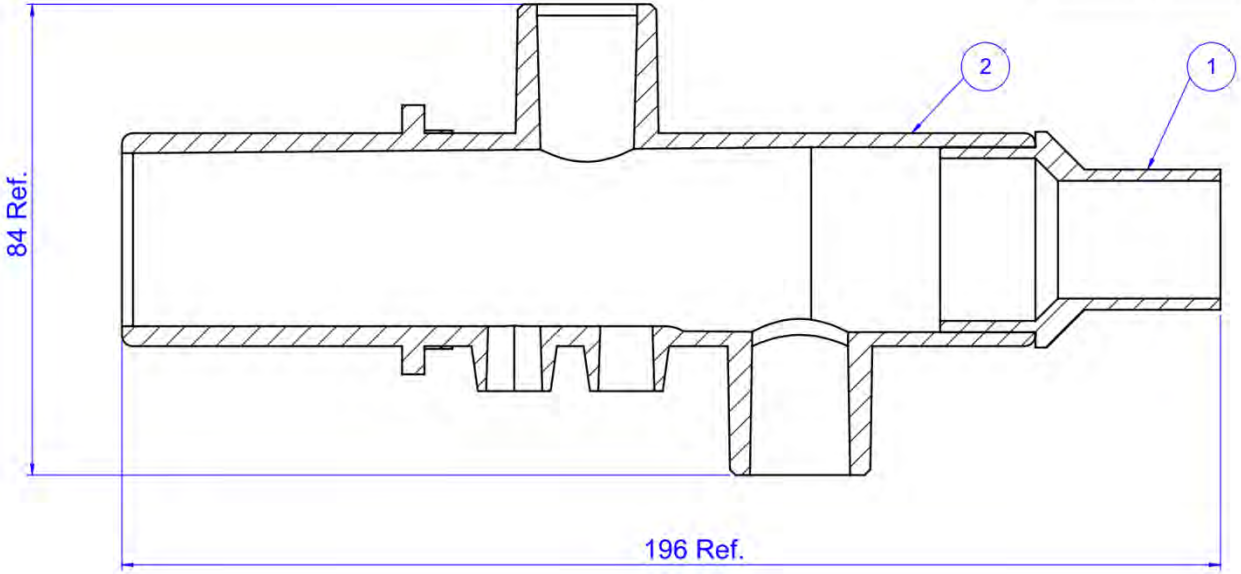
THIS PUBLICATION CONTAINS PROPRIETARY INFORMATION OF ADT. IT IS SUPPLIED TO THOSE CONCERNED WITH THE OPERATION AND MAINTENANCE OF THE EQUIPMENT COVERED THERE IN AND MAY NOT BE DISCLOSED TO OTHERS WITHOUT THE EXPRESSED WRITTEN PERMISSION OF ADT.				
DRAWING FOR ASSEMBLY INSTRUCTIONS, BOOM QUANTITIES, ASSEMBLY REFERENCE		NAME	DATE	 Advanced Dicing Technologies LTD. Advanced Technology Center Haifa, Israel 31905 www.adt-co.com
ASSEMBLY DRAWING		DRAWN S.Konovarov	25.01.11	
		DESIGN B.Tamarutsky		
		CHECK R.Friedman		
		APPR. M.Cohen	25.01.11	TITLE: VALVE 2/2 NC
 SHEET 1 OF 1	RoHS Compliance Required	1:1 SCALE	DIMENSIONS IN MM. DO NOT SCALE DWG.	A3 SIZE 00990-0505-000-01 DRAWING No.
			1	REV

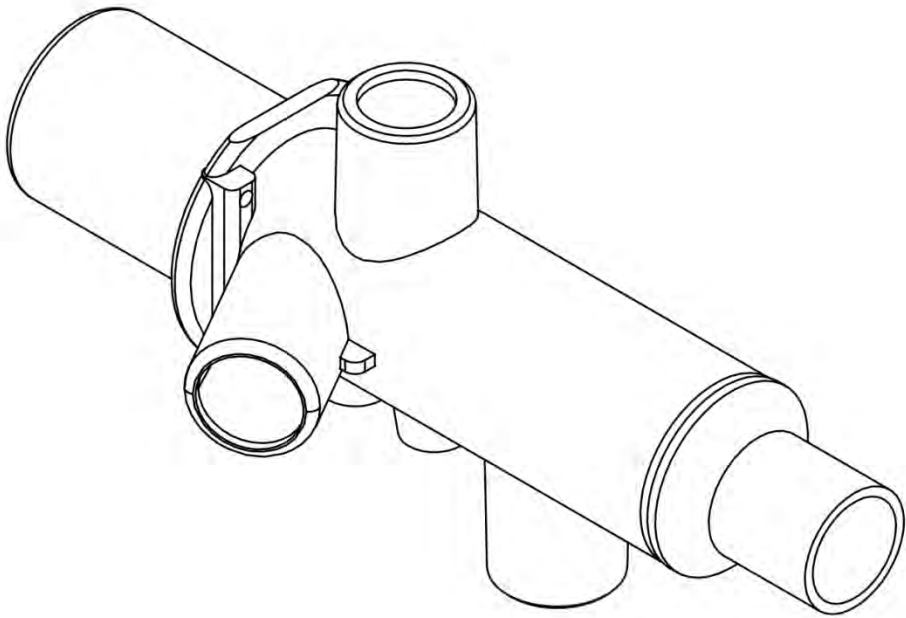
6.3. Water Valve (P2) + (P4) 07200-0506-000-01




6.4. Drain Manifold X7100-0517-000-00

EIR	REV.	DESCRIPTION	APPR.	DATE





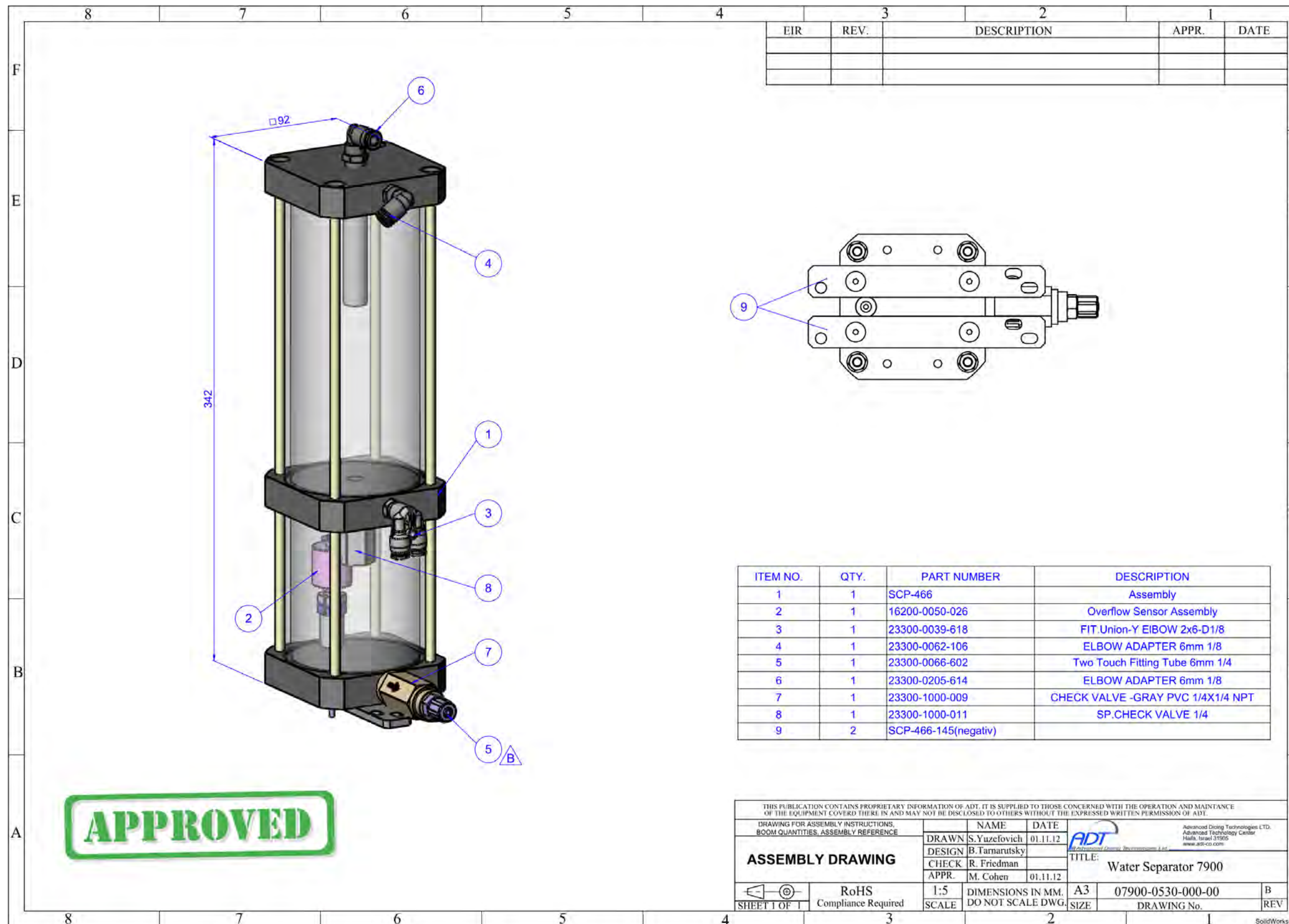


NOTE: GLUE PART 2 INTO PART 1 WITH PVC GLUE

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	X7100-0517-001-00	25 mm Adaptor
2	1	07200-0517-000-00	Water Tube

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ASSEMBLY DRAWING	DRAWN	NAME	DATE	Advanced Dicing Technologies LTD. 5 Hakelada St., P.O. Box 67 Hi-Tech Park (South) Yokneam 20992 Israel www.adt-co.com
	DESIGN	B. Tamarutsky	20.08.12	
	CHECK	E. Perekatov		
	APPR.	M. Cohen	20.08.12	
RoHS Compliance Required		1:1 SCALE	DIMENSIONS IN MM. DO NOT SCALE DWG.	A3 SIZE
SHEET 1 OF 1	X7100-0517-000-00	DRAWING No.	1	REV

6.5. Water Separator 7900 07900-0530-000-00



6.6. Main Water Filter 07120-0959-000-00

EIR	REV.	DESCRIPTION	APPR.	DATE

ITEM NO.	Default/QTY.	PART NUMBER	DESCRIPTION
1	1	22910-6003-000	S.S Liquid Filter Valve 50-60 mesh
2	1	23300-0027-028	Hexagon Nipple 1/2x1/2
3	1	23300-0055-000	S.S 316 Compression Fitting
4	2	23300-0066-112	Straight Fitting Tube=12 T=1/2

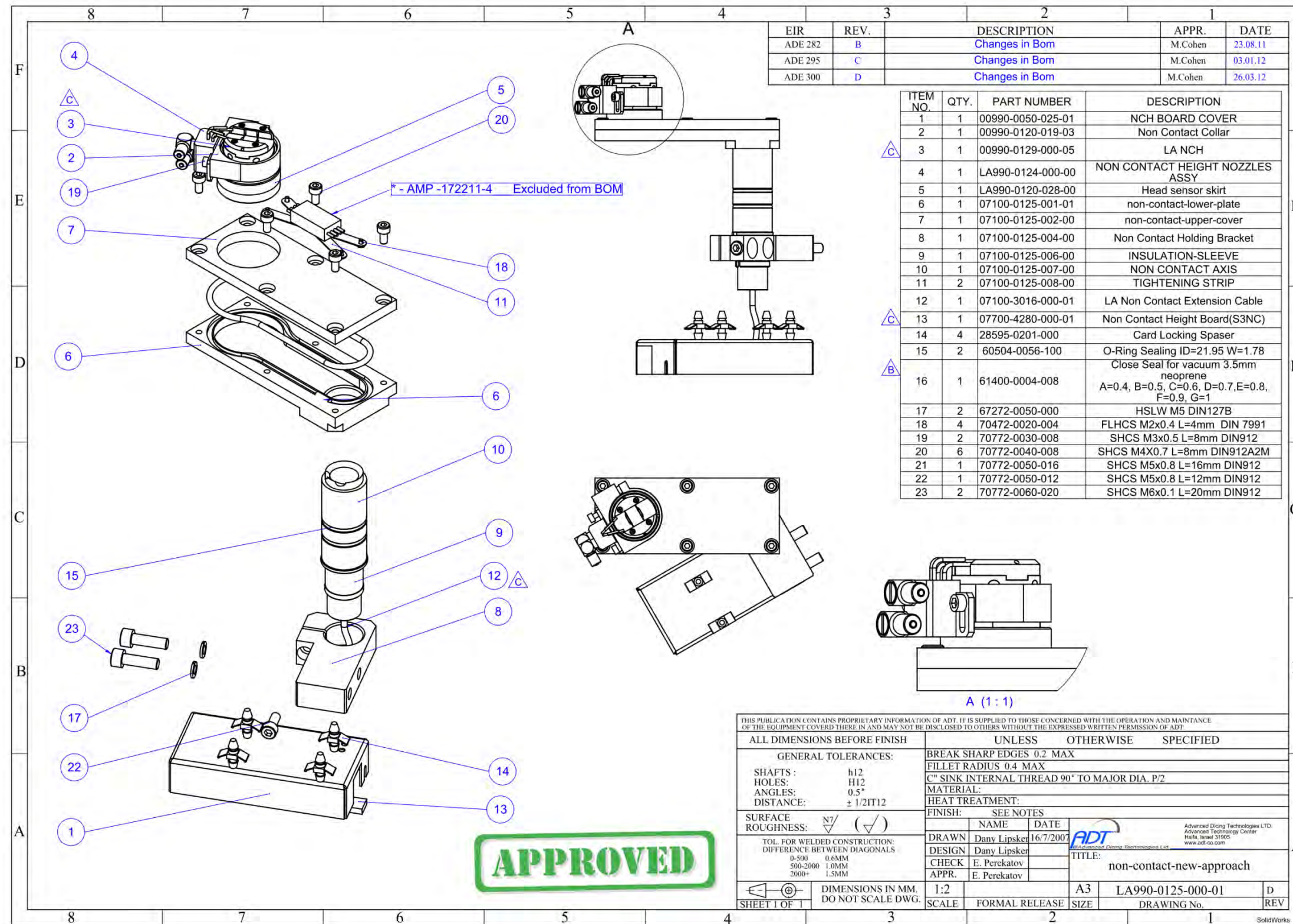
THIS PUBLICATION CONTAINS PROPRIETARY INFORMATION OF ADT. IT IS SUPPLIED TO THOSE CONCERNED WITH THE OPERATION AND MAINTENANCE OF THE EQUIPMENT COVERED THERE IN AND MAY NOT BE DISCLOSED TO OTHERS WITHOUT THE EXPRESSED WRITTEN PERMISSION OF ADT.			
DRAWING FOR ASSEMBLY INSTRUCTIONS, BOOM QUANTITIES, ASSEMBLY REFERENCE	NAME	DATE	Advanced Dicing Technologies LTD. Advanced Technology Center Haifa, Israel 31905 www.adtco.com
ASSEMBLY DRAWING	DRAWN	S.Yuzefovich	01.11.12
	DESIGN	B.Tamarutsky	
	CHECK	R. Friedman	
	APPR.	M. Cohen	01.11.12
SHEET 1 OF 1	RoHS Compliance Required	1:2 SCALE	DIMENSIONS IN MM. DO NOT SCALE DWG.
		A3 SIZE	07120-0959-000-00 DRAWING No.
		-	REV

Section 3. **CONFIGURATION OPTIONS**

- **7. Large Area Option (0713X)**
- **8. Tilted Spindle Option (071TS)**

7. Large Area Option (0713X)

7.1. LA Non-Contact Height Assembly LA990-0125-000-01



7.2. Front Large Rotate Cover LA990-0219-000-14

ITEM NO.	Default/QTY.	PART NUMBER	DESCRIPTION
1	1	LA990-0219-001-00	Cover Spaser For LA
2	1	00990-0219-021-00	CE Actuator
3	1	00990-0219-031-02	Right Cover Holder
4	2	00990-0219-034-00	Rotate_mount_bushing
5	1	00990-0219-035-00	Upper axes
6	1	00990-0219-036-01	Lower Axis
7	4	00990-0219-039-00	C_Clamp
8	2	00990-0219-040-00	Bushing
9	1	00990-0219-060-00	SCREW_PLATE
10	1	00990-0219-061-01	Rotate_Brct_Mount
11	1	00990-0219-062-01	Lower arm holder
12	1	00990-0219-063-00	LOW ARM AXIS
13	1	00990-0219-064-02	Parallel Sleeve
14	1	00990-0219-065-02	Spacer
15	1	00990-0219-067-00	Large front cover.low arm
16	1	00990-0222-000-14	Front Large Cover
17	1	07100-0224-002-00	Load Cover
18	1	07100-0224-004-00	Middle Transparent Cover
19	2	07100-0224-008-00	Hingle Nut Plate
20	1	07100-0224-009-00	Load Door Window
21	1	07100-0224-010-00	Left Winfow
22	1	07100-0224-006-00	Blade Change Middle Cover
23	6	20750-0106-010	BEAR.SLIP+FLNG OD=12.ID=10.PLAST.L=10
24	1	20750-0107-008	BEAR.SLIP+FLNG OD=10.ID=8.PLAST.L=6MM
25	2	25024-0003-000	HANDLE
26	4	25024-0003-001	Handle Base
27	2	26693-0090-110	Retaning ring d=9 s=1.1
28	1	26693-0050-070	Retaining ring D=5mm TH=0.7mm
29	1	28562-0015-200	Gaz spring 200N Strok=100 L=275.5
30	1	28562-0015-100	Gaz spring 100N Strok=100 L=275.5
31	2	75572-2160-000	Hex nut M16x1.5 m=8
32	2	75572-0080-000	HN M8 DIN934
33	20	75572-0040-000	HN M4x0.7 DIN934
34	8	72772-2040-012	SSS M4x0.7 L=12mm DIN916
35	4	70772-0060-020	SHCS M6x0.1 L=20mm DIN912
36	4	70772-0050-012	SHCS M5x0.8 L=12mm DIN912
37	6	70772-0040-012	SHCS M4x0.7 L=12mm DIN912
38	1	70472-0040-008	FLHCS M4x0.7 L=8mm DIN7991
39	2	70472-0050-010	FLHCS M5x0.8 L=10mm DIN7991
40	4	70772-0050-016	SHCS M5x0.8 L=16mm DIN912
41	10	70772-0030-008	SHCS M3x0.5 L=8mm DIN912
42	8	66272-0050-000	FRTW M5 DIN125A
43	20	66272-0040-000	FRTW M4 DIN125A
44	8	67272-0050-000	HSLW M5 DIN127B
45	2	67272-0080-000	Spring Washer M8 DIN 127
46	4	67272-0060-000	HSLW M6 DIN127B
47	20	67272-0040-000	HSLW M4 DIN127B
48	4	66272-0060-000	FRTW M6 DIN125A
49	10	67272-0030-000	HSLW M3 DIN127B
50	10	66272-0030-000	FRTW M3 DIN125A
51	2	66272-0040-100	Flat Washer M4 DIN-9021

EIR	REV.	DESCRIPTION	APPR.	DATE

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DRAWING FOR ASSEMBLY INSTRUCTIONS, BOM QUANTITIES, ASSEMBLY REFERENCE	NAME	DATE	 <small>Advanced Dicing Technologies LTD. Advanced Technology Center Haifa, Israel 31905 www.adt-co.com</small>
ASSEMBLY DRAWING	DRAWN	S.Yuzefovich	01.11.12
	DESIGN	B.Tamarutsky	
	CHECK	R.Friedman	
	APPR.	M.Cohen	01.11.12
	TITLE: Front Large Rotate Cover		
 RoHS Compliance Required	1:5 SCALE	DIMENSIONS IN MM. DO NOT SCALE DWG.	A3 SIZE
SHEET 1 OF 1	LA990-0219-000-14	DRAWING No.	REV

7.3. 2" Large Area (07132)

7.3.1. 7100 2" LA DC SPINDLE ASSEMBLY LA990-0442-000-12

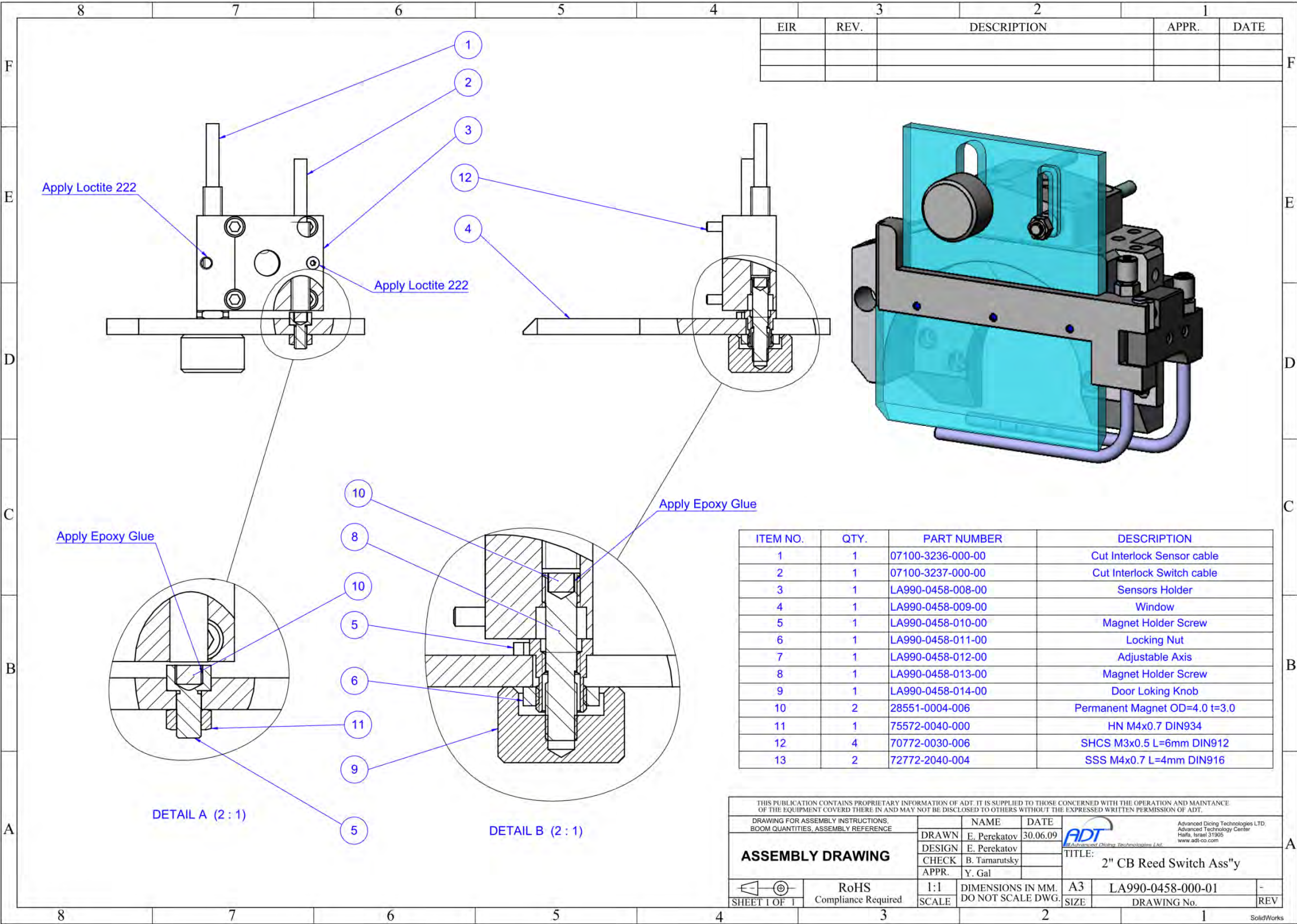
REVISIONS

REV.	DESCRIPTION	APPR.	DATE
A	Change in BOM	Ziv H.	17.10.06
12	Changes in BOM; Remove C.B. from BOM	Ziv H.	15.10.07
A	Change in BOM	M.Cohen	15.02.11

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	LA990-0442-001-03	2" DC Spindle Housing	1
2	00990-0440-018-05	Camera Holder	1
3	00990-0440-049-00	Chain Front Mount	1
4	00990-0440-076-00	NUT-PLATE	1
5	07200-0030-006-01	Z Axis Lock Plate	1
6	07230-0130-012-01	Y-Stepper Rod	1
7	13600-0075-000	2 In DC Spindle Colibri	1
8	21200-0005-026	Energy Chain 26 Links	1
9	23300-0069-806	PG8-6 Tube Union	1
10	66272-0040-000	FRTW M4 DIN125A	4
11	66272-0050-000	FRTW M5 DIN125A	4
12	66272-0060-000	FRTW M6 DIN125A	4
13	66272-0080-000	FRTW M8 DIN125A	1
14	66272-0100-000	Flat Washer M10	2
15	67272-0030-000	HSLW M3 DIN127B	3
16	67272-0040-000	HSLW M4 DIN127B	4
17	67272-0050-000	HSLW M5 DIN127B	4
18	67272-0060-000	HSLW M6 DIN127B	4
19	67272-0080-000	Spring Washer M8 DIN 127	1
20	67272-0100-000	Washer Spring M10	2
21	70472-0050-008	FLHCS M5x0.8 L=8mm DIN7991	2
22	70472-0050-016	FLHCS M5x0.8 L=16mm DIN7991	2
23	70756-0100-060	SHCS M10x1.5 L=60 DIN 912 Steel Dacrom Plated	2
24	70772-0030-008	SHCS M3x0.5 L=8mm DIN912	3
25	70772-0040-012	SHCS M4x0.7 L=12mm DIN912	6
26	70772-0050-010	SHCS M5x0.8 L=10mm DIN912	2
27	70772-0060-025	SHCS M6x1 L=25mm DIN 912	6
28	70772-0080-016	SHCS M8x1.25 L=16mm DIN 912	1
29	75572-0050-000	HN M5 DIN934	2
30	83200-0206-004	Yellow Tube Od=6 Id=4 Poly.	1

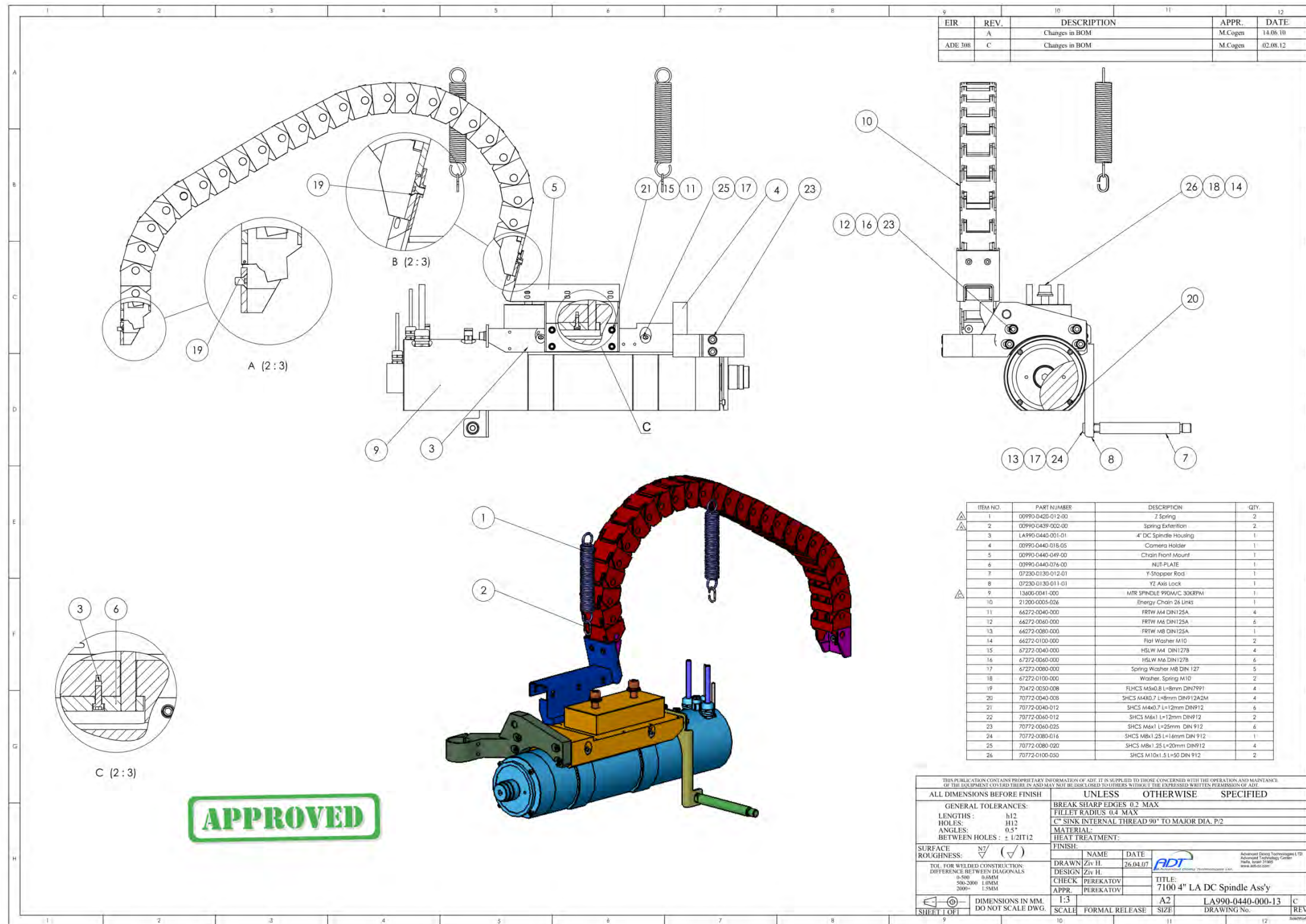
ALL DIMENSIONS BEFORE FINISH	UNLESS OTHERWISE SPECIFIED
GENERAL TOLERANCES:	BREAK SHARP EDGES 0.2 MAX
LENGTHS: h12	FILLET RADIUS: 0.4 MAX
HOLES: H12	C° SINK INTERNAL THREAD 90° TO MAJOR DIA. P2
ANGLES: 0.5°	MATERIAL:
BETWEEN HOLES: ± 1/2IT12	HEAT TREATMENT:
SURFACE ROUGHNESS: N7 (✓)	FINISH:
TOL. FOR WELDED CONSTRUCTION:	DESIGN NAME DATE
DIFFERENCE BETWEEN DIAGONALS:	DRAWN Ziv H. 26.04.07
0-500 0.0MM	CHECK Pererkatov
500-2000 1.0MM	APPR Pererkatov
2000+ 1.5MM	
DIMENSIONS IN MM. DO NOT SCALE DWG.	TITLE: 7100 2" LA DC Spindle Assy
	SCALE: 1:2.5
	FORMAL RELEASE: A2
	SIZE: LA990-0442-000-12
	DRAWING No.:
	REV:

7.3.2. 2" COOLING BLOCK REED SWITCH ASSEMBLY LA990-0458-000-01



7.4. 4" Large Area (07134)

7.4.1. 7100 4" LA DC SPINDLE ASSEMBLY LA990-0440-000-13

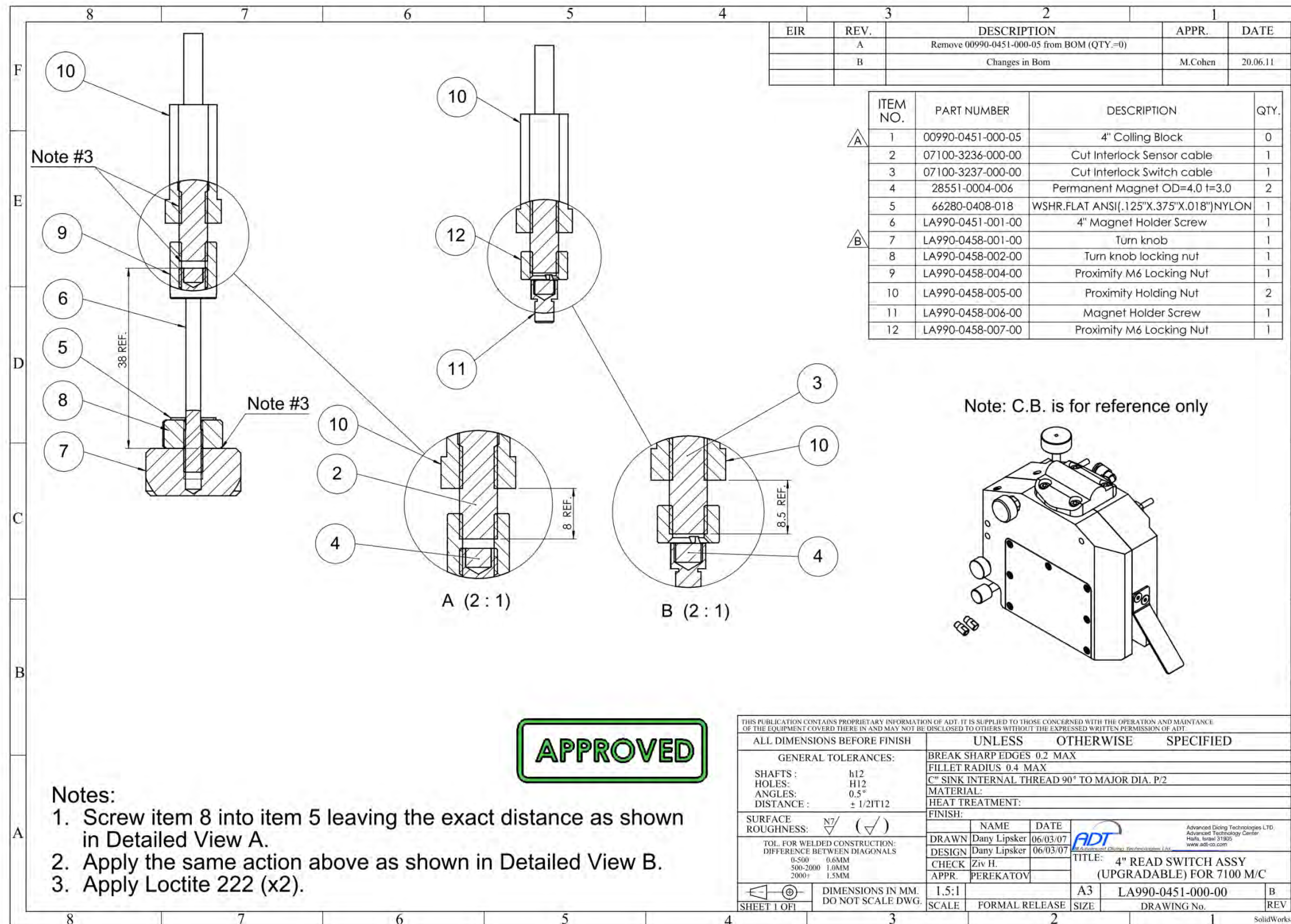


EIR	REV.	DESCRIPTION	APPR.	DATE
	A	Changes in BOM	M.Cogen	14.06.10
ADE 308	C	Changes in BOM	M.Cogen	02.08.12

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	00990-0420-012-00	Z Spring	2
2	00990-0439-002-00	Spring Extension	2
3	LA990-0440-001-01	4" DC Spindle Housing	1
4	00990-0440-018-05	Camera Holder	1
5	00990-0440-049-00	Chain Front Mount	1
6	00990-0440-076-00	NUT-PLATE	1
7	07230-0130-012-01	Y-Stopper Rod	1
8	07230-0130-011-01	YZ Axis Lock	1
9	13600-0041-000	MTR SPINDLE PGM/C 30KRPM	1
10	21200-0005-026	Energy Chain 26 Links	1
11	66272-0040-000	FRTW M4 DIN125A	4
12	66272-0040-000	FRTW M6 DIN125A	6
13	66272-0080-000	FRTW M8 DIN125A	1
14	66272-0100-000	Flat Washer M10	2
15	67272-0040-000	HSLW M4 DIN127B	4
16	67272-0040-000	HSLW M6 DIN127B	6
17	67272-0080-000	Spring Washer M8 DIN 127	5
18	67272-0100-000	Washer Spring M10	2
19	70472-0030-008	FLHCS M4x0.8 L=8mm DIN7991	4
20	70772-0040-008	SHCS M4x0.7 L=8mm DIN912A2M	4
21	70772-0040-012	SHCS M4x0.7 L=12mm DIN912	6
22	70772-0040-012	SHCS M4x1 L=12mm DIN912	2
23	70772-0040-025	SHCS M4x1 L=25mm DIN 912	6
24	70772-0080-016	SHCS M8x1.25 L=16mm DIN 912	1
25	70772-0080-020	SHCS M8x1.25 L=20mm DIN912	4
26	70772-0100-030	SHCS M10x1.5 L=30mm DIN 912	2

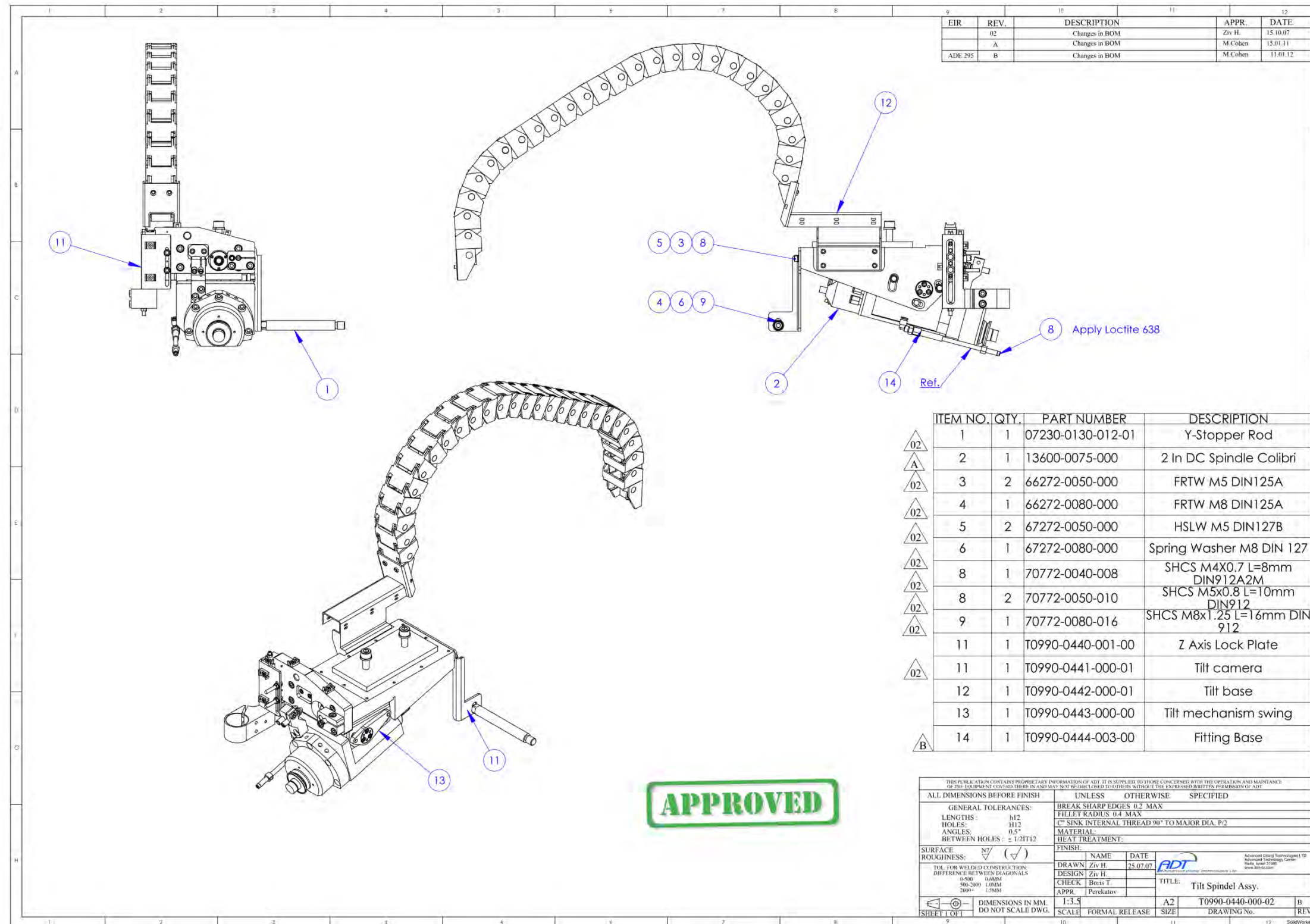
THIS PUBLICATION CONTAINS PROPRIETARY INFORMATION OF ADT. IT IS SUPPLIED TO THOSE CONCERNED WITH THE OPERATION AND MAINTENANCE OF THE EQUIPMENT COVERED THEREIN AND MAY NOT BE LOANED TO OTHERS WITHOUT THE EXPRESSED WRITTEN PERMISSION OF ADT.			
ALL DIMENSIONS BEFORE FINISH		UNLESS OTHERWISE SPECIFIED	
GENERAL TOLERANCES: LENGTHS: ±0.12 HOLES: ±0.12 ANGLES: 0.5° BETWEEN HOLES: ± 1/2IT12		BREAK SHARP EDGES 0.2 MAX FILLET RADIUS 0.4 MAX C° SINK INTERNAL THREAD 90° TO MAJOR DIA, P2	
SURFACE ROUGHNESS: N7 (✓)		MATERIAL: HEAT TREATMENT: FINISH:	
TOL. FOR WELDED CONSTRUCTION: DIFFERENCE BETWEEN DIAGONALS: 0-500 0.05MM 500-2000 1.0MM 2000+ 1.5MM		DESIGN: ZV H	DATE: 26.04.07
DIMENSIONS IN MM. DO NOT SCALE DWG.		CHECK: PEREKATOV	APPR: PEREKATOV
SCALE: 1:3		TITLE: 7100 4" LA DC Spindle Ass'y	
SHEET 1 OF 1		FORMAL RELEASE	LA990-0440-000-13 DRAWING No. C REV

7.4.2. 4" COOLING BLOCK REED SWITCH ASSEMBLY LA990-0451-000-00



8. Tilted Spindle Option (071TS)

8.1. Tilted Spindle Assembly T00990-0440-000-02



8.2. Tilt Camera Assembly T00990-0441-000-01

EIR	REV.	DESCRIPTION	APPR.	DATE
	A	Add Component to Boom	E. Perekatov	25.10.07
ADE 316	B	Changes in Bom	M.Cohen	26.12.12

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	T0990-0441-001-01	Camera holder
2	1	T0990-0441-002-01	Part Name
3	1	T0990-0441-003-00	Left stopper plate
4	1	T0990-0441-004-00	Right stopper base
5	1	T0990-0441-005-00	Stopper screw
6	1	T0990-0441-006-00	Switch housing
7	1	T0990-0441-007-00	Nut switch
8	2	T0990-0441-008-00	Pin Proximity Switch Actuator
9	2	T0990-0441-009-00	Stopper
10	2	T0990-0443-006-00	Hex heaad short screw
11	3	07100-3232-000-00	Microscope sensos cable
12	6	18515-6027-000	Strip Holder
13	4	66272-0050-000	FRTW M5 DIN125A
14	4	66272-0060-000	FRTW M6 DIN125A
15	2	67272-0040-000	HSLW M4 DIN127B
16	8	67272-0060-000	HSLW M6 DIN127B
17	6	70272-0040-006	Socket Head Cup Screw M4x6
18	2	70772-0040-010	SHCS M4x0.7 L=10mm DIN912
19	3	70772-0060-016	SHCS M6x16 DIN912
20	6	70772-0060-025	SHCS M6x1 L=25mm DIN 912
21	2	72772-2050-020	Socket set screw M5 L=20
22	2	75572-0050-000	HN M5 DIN934

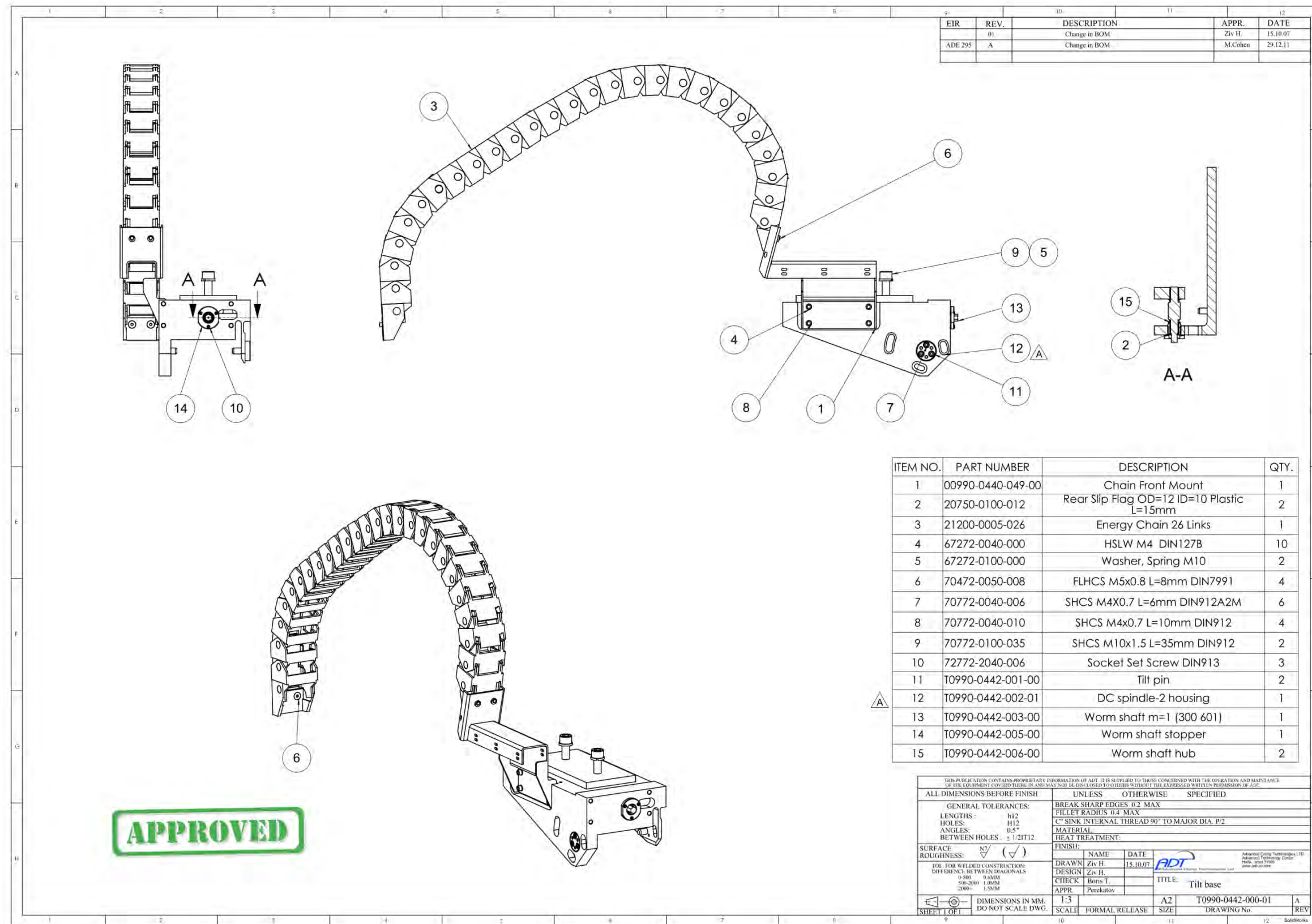
ALL DIMENSIONS BEFORE FINISH		UNLESS OTHERWISE SPECIFIED	
GENERAL TOLERANCES:		BREAK SHARP EDGES 0.2 MAX	
SHAFTS : h12		FILLET RADIUS 0.4 MAX	
HOLES: H12		C° SINK INTERNAL THREAD 90° TO MAJOR DIA. P/2	
ANGLES: 0.5°		MATERIAL:	
DISTANCE: ± 1/2IT12		HEAT TREATMENT:	
SURFACE ROUGHNESS: N7 (✓)		FINISH:	
TOL. FOR WELDED CONSTRUCTION: DIFFERENCE BETWEEN DIAGONALS		DRAWN E. Perekatov 25.10.07	
0-500 0.6MM		DESIGN E. Perekatov	
500-2000 1.0MM		CHECK Z. Hachamo	
2000+ 1.5MM		APPR.	
DIMENSIONS IN MM. DO NOT SCALE DWG.		SCALE 1:2	
SHEET 1 OF 1		FORMAL RELEASE	
		SIZE A3	
		T0990-0441-000-01	
		DRAWING No. B	
		REV 1	

APPROVED

(1:1)

SolidWorks

8.3. Tilt Base T0990-0442-000-01



EIR	REV.	DESCRIPTION	APPR.	DATE
	01	Change in BOM	Ziv H.	15.10.07
ADE 295	A	Change in BOM	M.Cohen	29.12.11

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	00990-0440-049-00	Chain Front Mount	1
2	20750-0100-012	Rear Slip Flag OD=12 ID=10 Plastic L=15mm	2
3	21200-0005-026	Energy Chain 26 Links	1
4	67272-0040-000	HSLW M4 DIN127B	10
5	67272-0100-000	Washer, Spring M10	2
6	70472-0050-008	FLHCS M5x0.8 L=8mm DIN7991	4
7	70772-0040-006	SHCS M4X0.7 L=6mm DIN912A2M	6
8	70772-0040-010	SHCS M4x0.7 L=10mm DIN912	4
9	70772-0100-035	SHCS M10x1.5 L=35mm DIN912	2
10	72772-2040-006	Socket Set Screw DIN913	3
11	T0990-0442-001-00	Tilt pin	2
12	T0990-0442-002-01	DC spindle-2 housing	1
13	T0990-0442-003-00	Worm shaft m=1 (300 601)	1
14	T0990-0442-005-00	Worm shaft stopper	1
15	T0990-0442-006-00	Worm shaft hub	2

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ALL DIMENSIONS BEFORE FINISH UNLESS OTHERWISE SPECIFIED

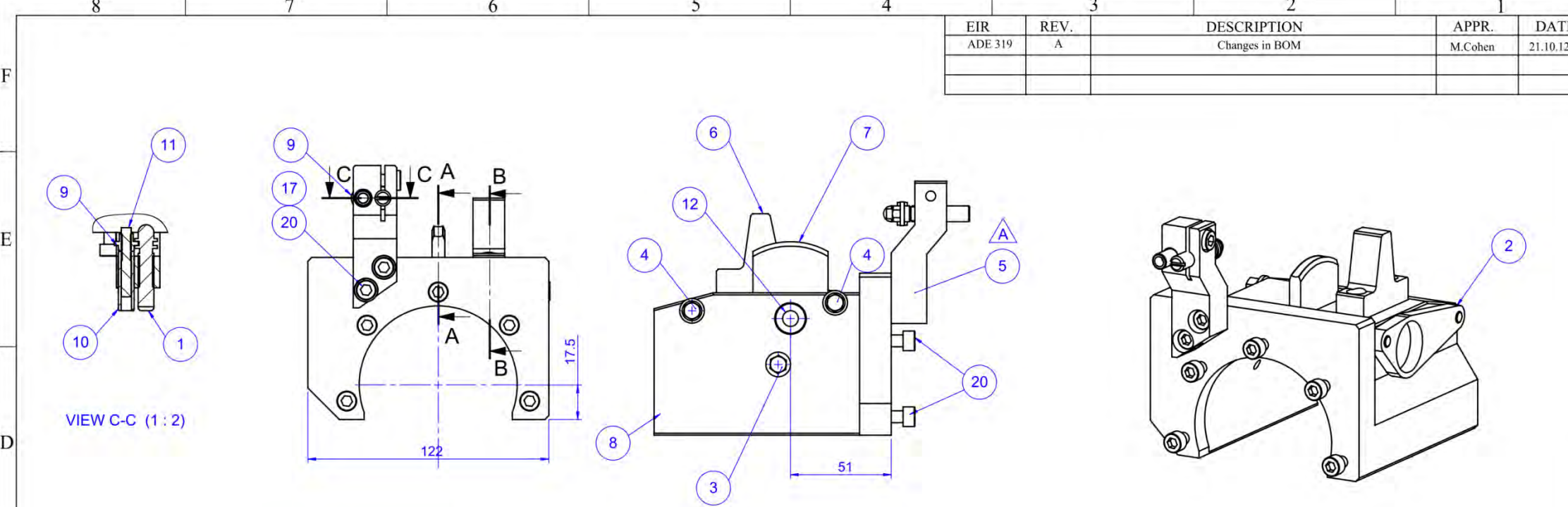
GENERAL TOLERANCES:	BREAK SHARP EDGES 0.2 MAX
LENGTHS:	FILLET RADIUS 0.4 MAX
HOLES:	C SINK INTERNAL THREAD 90° TO MAJOR DIA. P/2
ANGLES:	MATERIAL:
BETWEEN HOLES: ± 1/2IT12	HEAT TREATMENT:

SURFACE ROUGHNESS:	FINISH:
NY (✓)	NAME:
DATE:	DATE:
FOR WELDED CONSTRUCTION:	DRAWN:
DIFFERENCE BETWEEN DIAGONALS:	DESIGN:
0-500 0.05MM	CHECK:
500-2000 0.05MM	APPR:
2000+ 0.15MM	

SCALE:	1:3	SIZE:	A2	TITLE:	Tilt base
FORMAL RELEASE:		DRAWING No.:	T0990-0442-000-01	REV:	A

8.4. Tilt Mechanism Swing T00990-0443-000-00

EIR	REV.	DESCRIPTION	APPR.	DATE
ADE 319	A	Changes in BOM	M.Cohen	21.10.12



VIEW C-C (1:2)

APPROVED

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	T0990-0443-008-00	Short stopper screw
2	1	T0990-0443-007-00	Tighten plate
3	1	T0990-0443-006-00	Hex head short screw
4	2	T0990-0443-005-00	Hex head screw
5	1	T0990-0443-004-01	Left stopper base
6	1	T0990-0443-003-00	Swing stopper
7	1	T0990-0443-002-00	Worm wheel m=1 dp=75 (300 600)
8	1	T0990-0443-001-00	Spindel-2 support
9	1	T0990-0441-007-00	Nut switch
10	1	T0990-0441-006-00	Switch housing
11	1	07100-3233-000-00	Spindle sensors cable
12	2	20750-0100-008	Rear Slip Flag OD=10 ID=8 Plastic L=5.5mm
13	2	61700-6030-008	Dowel Pin M6 3x8mm
14	1	66272-0060-000	FRTW M6 DIN125A
15	2	67272-0040-000	HSLW M4 DIN127B
16	2	67272-0050-000	HSLW M5 DIN127B
17	3	67272-0060-000	HSLW M6 DIN127B
18	2	70772-0040-016	SHCS M4x0.7 L=16mm DIN912
19	2	70772-0050-010	SHCS M5x0.8 L=10mm DIN912
20	8	70772-0060-016	SHCS M6x16 DIN912

Clue With Loctitr 638

VIEW A-A (1:1)

VIEW B-B (1:1)

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DRAWING FOR ASSEMBLY INSTRUCTIONS, BOM QUANTITIES, ASSEMBLY REFERENCE		NAME	DATE
DRAWN	S.Kononov	S.Kononov	21.10.12
DESIGN	B.Tamarutsky	B.Tamarutsky	
CHECK	R.Friedman	R.Friedman	
APPR.	M.Cohen	M.Cohen	21.10.12

ASSEMBLY DRAWING

RoHS Compliance Required

1:1 SCALE

DIMENSIONS IN MM. DO NOT SCALE DWG.

A3 SIZE

T0990-0443-000-00

DRAWING No. 1

SHEET 1 OF 1

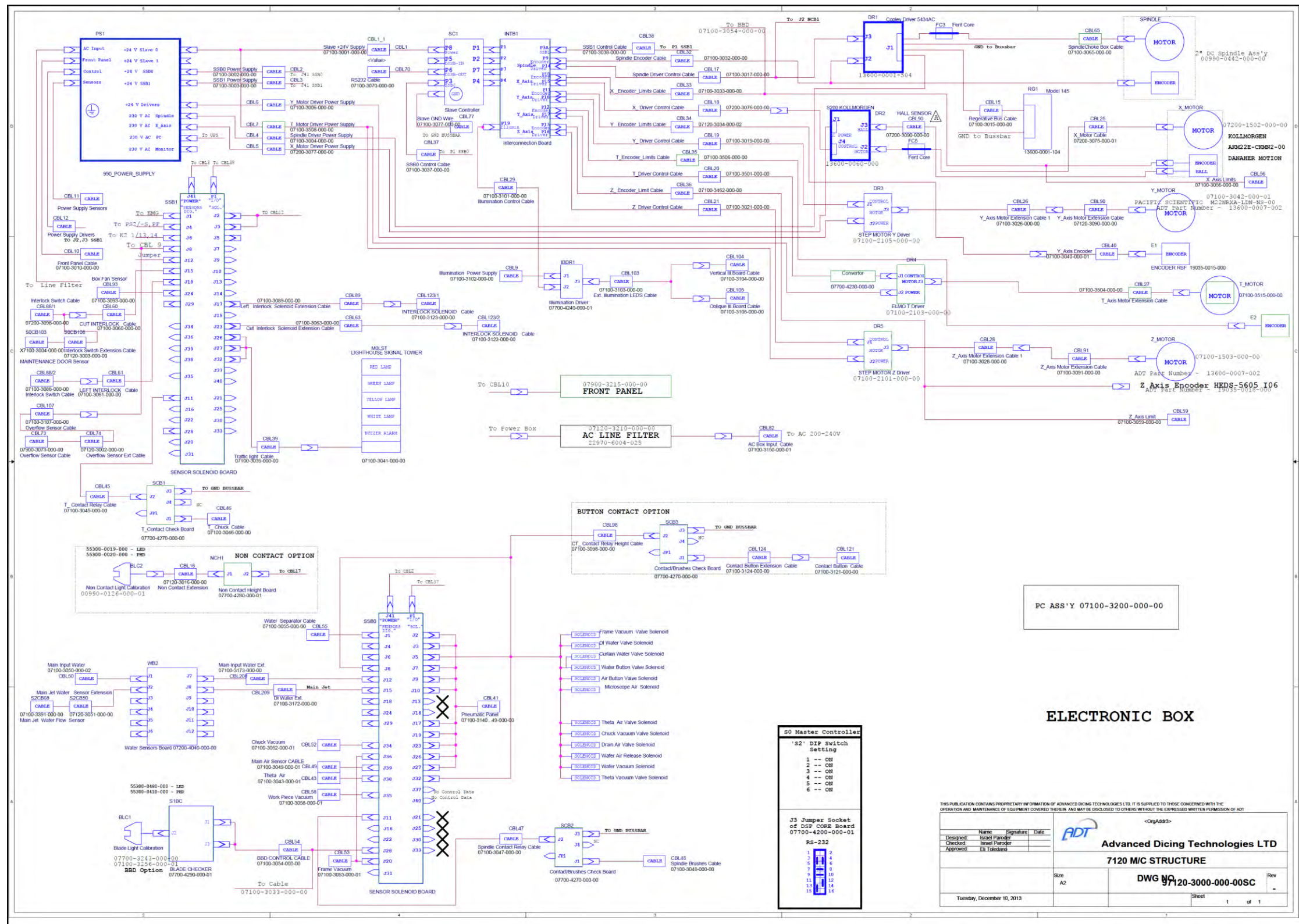
Rev

Section 4. **HARDWARE DRAWINGS AND SCHEMATICS**

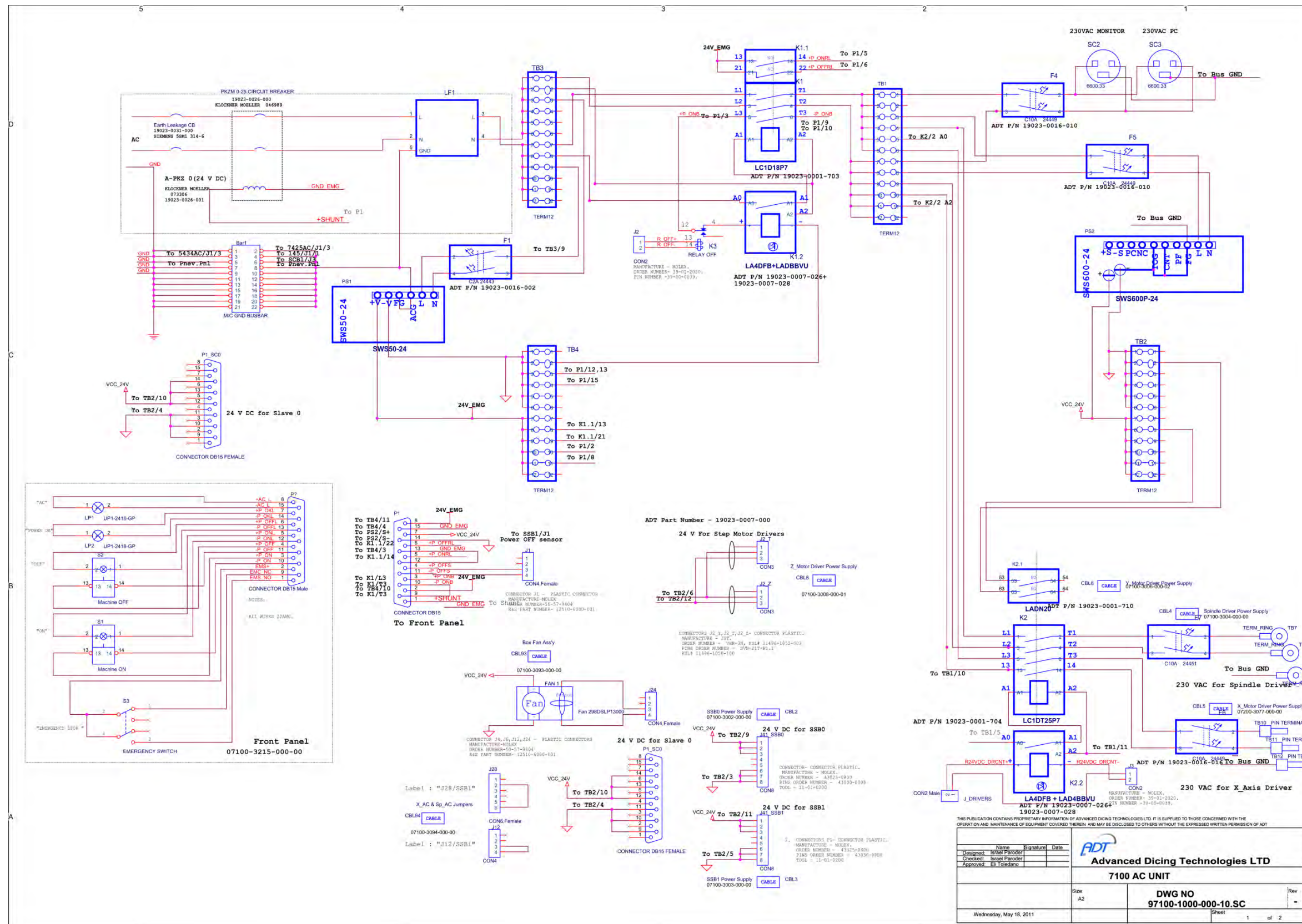
- **9. All H/W Drawings and Schematics**

9. All H/W Drawings and Schematics

9.1. Dicer Structure 97120-3000-000-00SC




9.2. 7100 AC Unit Structure 97100-1000-00-10



9.3. 7100 Electronic Bench 07100-1000-000-11

EIR	REV.	DESCRIPTION	APPR.	DATE

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	00990-4000-000-02	Interconnection Board	1
2	07100-2103-000-00	Theta Driver Assembly	1
3	07100-2105-000-00	2 Phase Motor Driver	2
4	07100-2104-000-00	Illumination Driver	1
5	07700-2100-001-01	Controller (SC0)	1
6	07700-4270-000-00	Contact Height Relay Board	1
7	07700-4250-000-01	Sensor Solenoid Board	1
8	13600-0060-000	X- Driver	1
9	15000-0004-000	Relay Off	1
10	15000-0004-001	Relay Socket	1
11	16600-2001-117	Plastic End Stop	4
12	19023-0001-710	Additional Contact	1
13	19023-0016-016	Circute Breaker 16A	1
14	19023-0016-010	Circute Breaker 10A	4
15	19023-0016-002	Circute Breaker 2A	1
16	19023-0001-703	Contactur 3 Pole	2
17	19023-0011-704	Contactur 4 Pole	1
18	19023-0007-026	Interface Module	3
19	19074-0045-000	Power Supply 24V 600W	1
20	19074-0047-000	Power Supply 24V 50W	1
21	13600-0001-504	Spindle Driver	1
22	13600-0001-104	Spindle Regenerative Unit	1
23	19023-0007-028	Interface Accessories	3

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DRAWING FOR ASSEMBLY INSTRUCTIONS, BOOM QUANTITIES, ASSEMBLY REFERENCE		NAME	DATE	 Advanced Dicing Technologies LTD. 5 Harkada St., P.O. Box 87 Hi-Tech Park (South) Yokneam 20692 Israel www.adt-co.com
ASSEMBLY DRAWING		R. Aviv	02.04.12	
		E. Perekatov		
		R. Friedman		
		M. Cohen	02.04.12	TITLE: 7100 Electronic Bench
RoHS Compliance Required	1:5 SCALE	DIMENSIONS IN MM. DO NOT SCALE DWG.	A3 SIZE	07100-1000-000-11 for 7100 DRAWING No. 1
SHEET 1 OF 1				-00 DEV REV

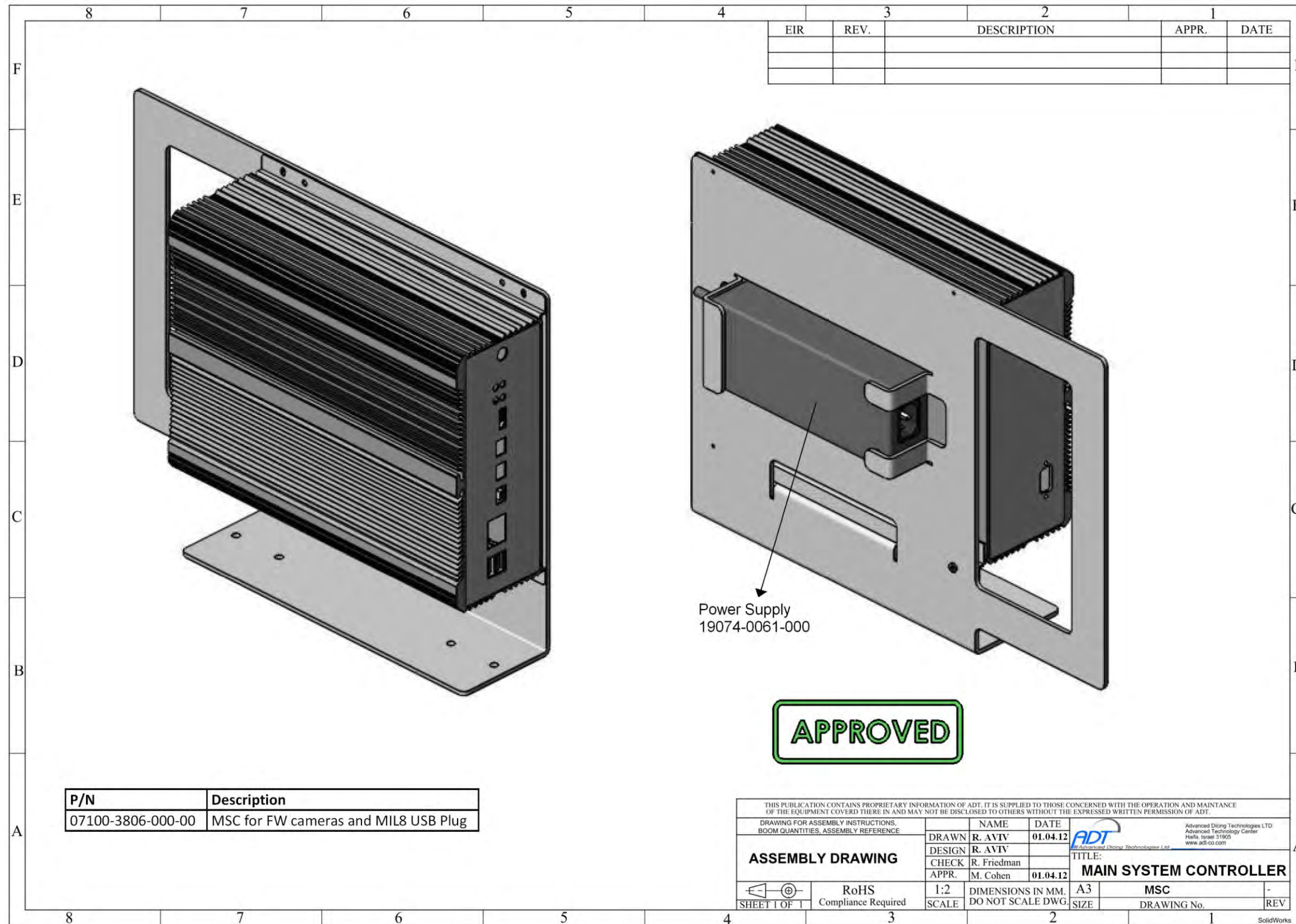
9.4. 7100 Rear SSB Panel for 7100 00990-0511-000-00

EIR	REV.	DESCRIPTION	APPR.	DATE


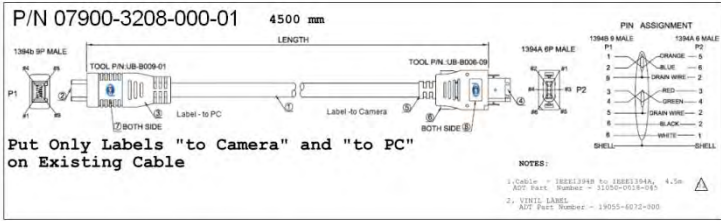
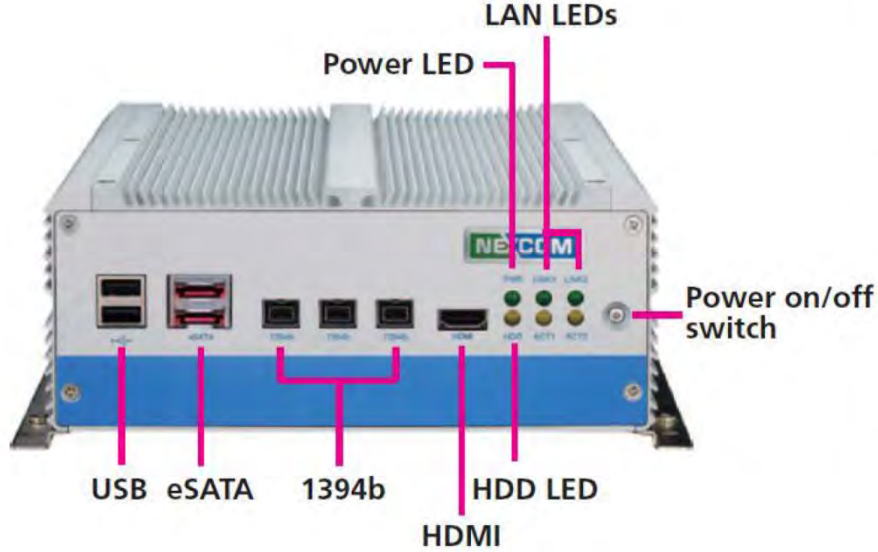
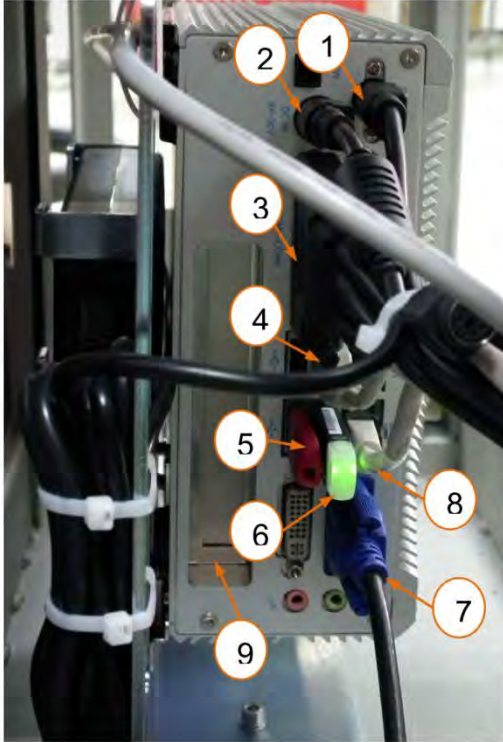
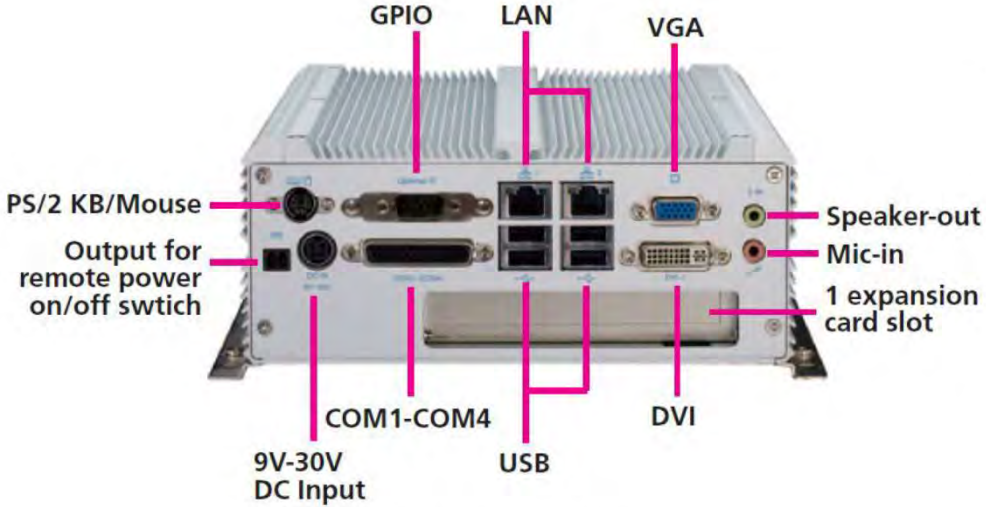
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	07200-4041-000-00	Water Sensors Board	1
2	07700-4270-000-00	Contact Height Relay Board	1
3	07700-4250-000-01	Sensor Solenoid Board	1
4	07700-4290-000-01	BBD PCB	1

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DRAWING FOR ASSEMBLY INSTRUCTIONS, BOOM QUANTITIES, ASSEMBLY REFERENCE		NAME	DATE
ASSEMBLY DRAWING		DRAWN	R. Aviv 02.04.12
		DESIGN	E. Perekatov
		CHECK	R. Friedman
RoHS Compliance Required		APPR.	M. Cohen 02.04.12
		SCALE	1:2
SHEET 1 OF 1	DIMENSIONS IN MM. DO NOT SCALE DWG.	A3 SIZE	09900-0511-000-00 for 7100 DRAWING No.
		TITLE:	Rear SSB Panel
		-00	Dev
		REV	1

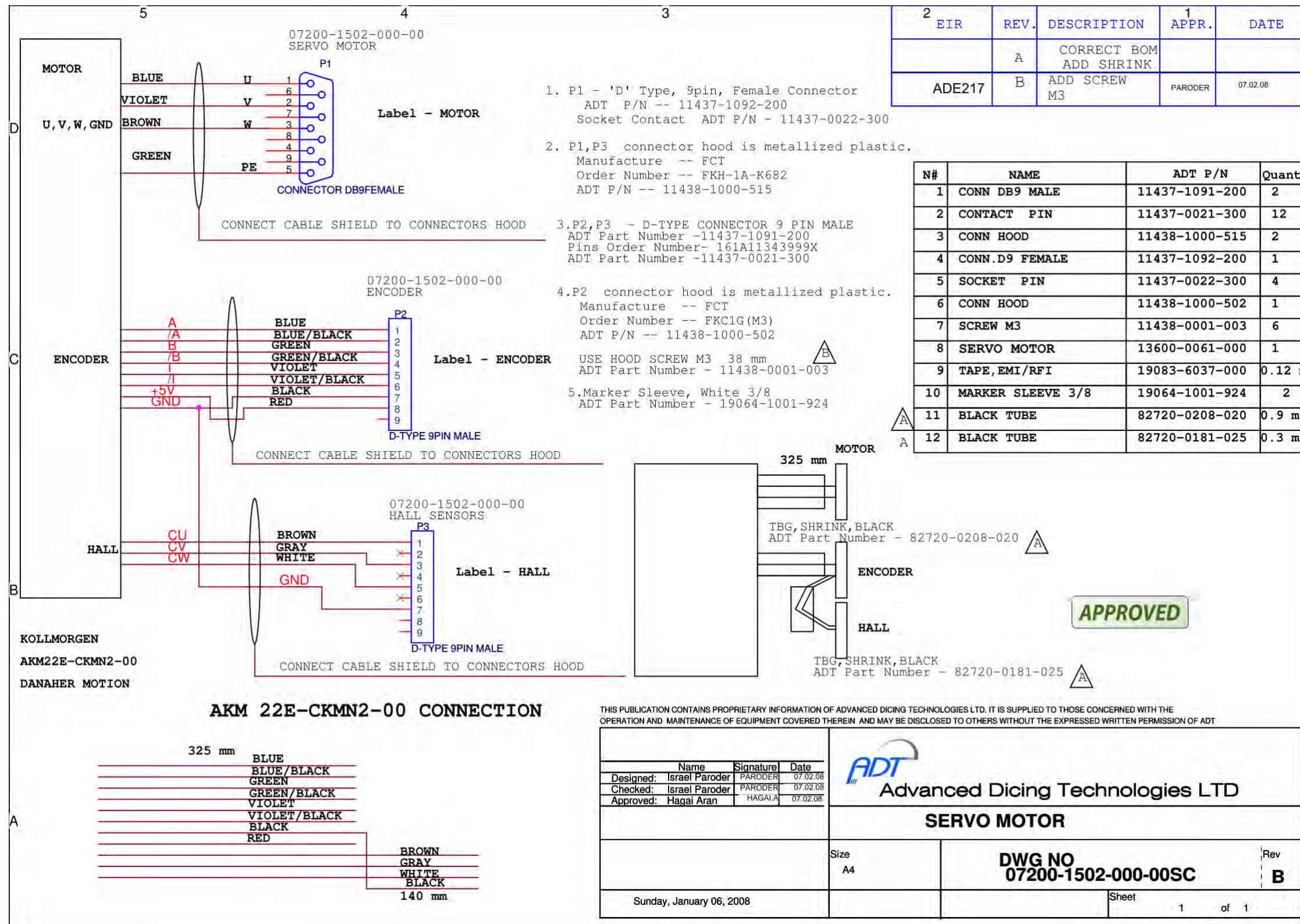
9.5. MSC - Main System Controller (1 of 2)



9.6. MSC - Main System Controller (2 of 2)

8	7	6	5	4	3	2	1																									
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>PC connections (front)</p>  </div> <div style="width: 30%;"> <p>P/N 07900-3208-000-01 4500 mm LENGTH</p>  <p>Put Only Labels "to Camera" and "to PC" on Existing Cable</p> </div> <div style="width: 30%;"> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>EIR</th> <th>REV.</th> <th>DESCRIPTION</th> <th>APPR.</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> </div> </div>					EIR	REV.	DESCRIPTION	APPR.	DATE																			<p>PC connections (rear)</p> 				
EIR	REV.	DESCRIPTION	APPR.	DATE																												
<p>1. Camera 1394A-to-1394B type connector P/N - 07900-3207-000-01 A to B For Upgrade P/N 07900-3208-000-01</p> <p>2. Camera cable P/N - 31050-0018-045</p>					<p>1. PS2 split connector for Keyboard</p> <p>2. PC DC input power cable</p> <p>3. COM split cable</p> <p>4. Touch Panel USB cable</p> <p>5. USB flash drive (4GB) For BackUp P/N - 11950-013-004</p> <p>6. MIL Hardware ID Key Licence P/N 07100-MIL8-000-00</p> <p>7. Monitor cable</p> <p>8. LAN cable</p> <p>9. Digital IO optional board (optional)</p>			<p>Note: USB flash drive 16GB for system image and restore P/N - 11950-0013-016</p>																								
8	7	6	5	4	3	2	1																									


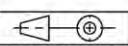
9.7. X Motor Cable 07200-1502-000-00



9.8. New Controller 07900-2100-000-00

EIR	REV.	DESCRIPTION	APPR.	DATE

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	07900-2100-001-00	SLAVE CONTROLLER BOX
2	1	07900-2100-002-00	CONTROLLER COVER
3	1	07900-2100-003-00	HEAT SINK
4	1	07900-2100-004-00	Spaser 6.5mm
5	1	07900-2100-005-00	Conductive Rubber(Heat Pad)
6	1	07900-4100-000-00	DC to DC module
7	1	07900-4110-000-00	DC to DC module
8	1	11795-4000-000	Motion Control Modules
9	2	27350-2208-022	ST OFF Hex=5.5 M3 L=10
10	3	66272-0030-000	FRTW M3 DIN125A
11	1	66272-0040-000	FRTW M4 DIN125A
12	1	67272-0030-000	HSLW M3 DIN127B
13	1	67072-0040-000	M4 Lock Washers Ext. Serrated DIN 6798 (AISI 304)
14	1	70272-0040-010	BHCS M4 L=10 ISO7380
15	14	70472-0030-008	FLHCS M3x0.5 L=8mm DIN 7991
16	13	70772-0030-006	SHCS M3x0.5 L=6mm DIN912
17	2	75572-0030-000	HN M3 DIN934

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DRAWING FOR ASSEMBLY INSTRUCTIONS. BOOM QUANTITIES, ASSEMBLY REFERENCE		NAME B. Tamarutsky	DATE 17.11.13
ASSEMBLY DRAWING		CHECK R. Friedman	 Advanced Dicing Technologies LTD. Advanced Technology Center Haifa, Israel 31905 www.adt-co.com
		APPR. M. Cohen	
 RoHS Compliance Required		1:2 SCALE	DIMENSIONS IN MM. DO NOT SCALE DWG.
SHEET 1 OF 1		A3 SIZE	TITLE: CONTROLLER
			-00 DEV DRAWING No. REV

9.9. Theta Sol Driver Assy (7100&7200) 07100-2106-000-00

APPROVED

EIR	REV.	DESCRIPTION	APPR.	DATE

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	00990-0250-039-01	THETA TABLE DRIVER BASE
2	1	07100-3521-000-00	T-Driver Control Cable
3	1	07100-3526-000-00	T Motor Driver Cable
4	2	27350-2206-010	ST OFF Hex=5.5 M3 L=10
5	2	66272-0030-000	FRTW M3 DIN125A
6	4	66272-0020-000	Flat Washer M2 DIN 125A
7	2	67272-0030-000	HSLW M3 DIN127B
8	4	67272-0020-000	HSLW M2 DIN127B
9	2	70772-0030-016	SHCS M3x0.5 L=16mm DIN912
10	2	70772-0020-008	SHCS M2x0.4 L=8mm DIN 912
11	4	70772-0020-006	SHCS M2x0.4 L=6mm DIN 912
12	2	70800-0030-008	PH M3x0.5 L=8mm Plastic

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ALL DIMENSIONS BEFORE FINISH		UNLESS OTHERWISE SPECIFIED	
GENERAL TOLERANCES:		BREAK SHARP EDGES 0.2 MAX	
SHAFTS : h12		FILLET RADIUS 0.4 MAX	
HOLES: H12		C* SINK INTERNAL THREAD 90° TO MAJOR DIA. P/2	
ANGLES: 0.5°		MATERIAL:	
DISTANCE: ± 1/2IT12		HEAT TREATMENT:	
SURFACE ROUGHNESS: N7 (✓)		FINISH: Black Anodize 20 mk. Per MIL-A-8625 typ II	
TOL. FOR WELDED CONSTRUCTION: DIFFERENCE BETWEEN DIAGONALS		DRAWN: S.Yuzefovich	DATE: 01.11.12
0-500 0.6MM		DESIGN: B. Tamarutsky	
500-2000 1.0MM		CHECK: R. Friedman	
2000+ 1.5MM		APPR: M. Cohen	01.11.12

RoHS Compliance Required

SHEET 1 OF 1

1:1 SCALE

DIMENSIONS IN MM. DO NOT SCALE DWG.

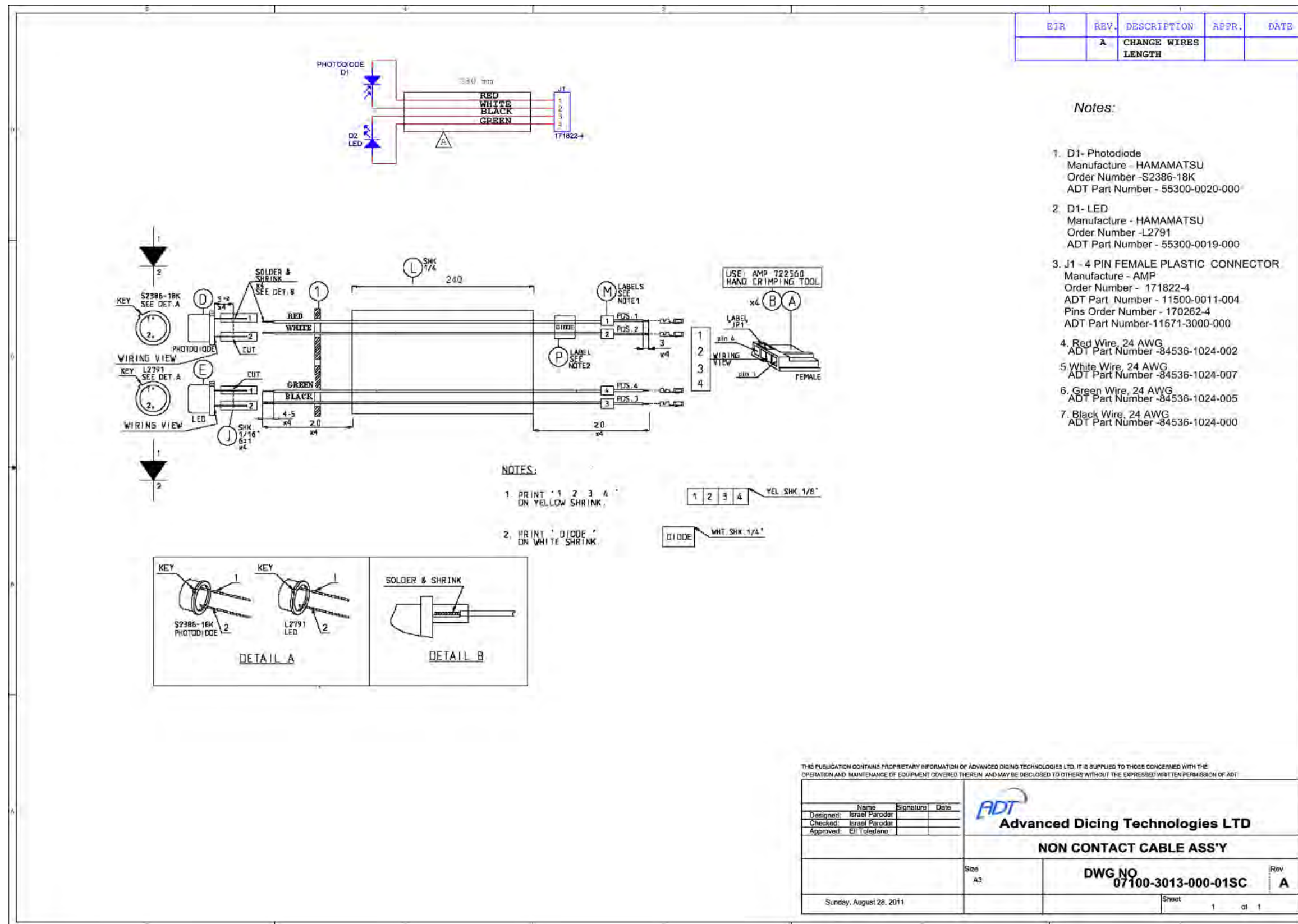
A3 SIZE

07100-2106-000-00


DRAWING No.

REV

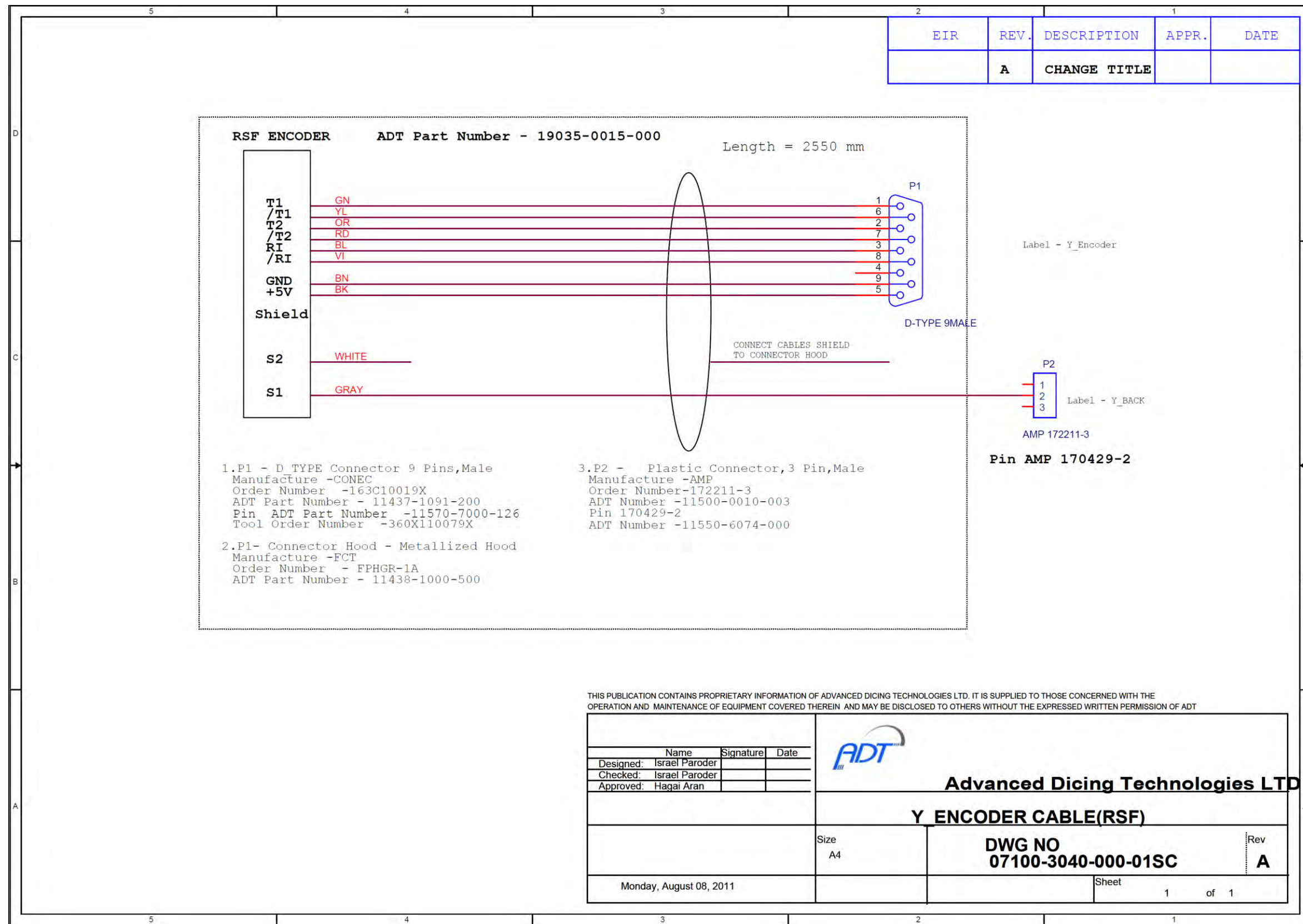
9.10. Non-Contact Cable Assembly 07100-3013-000-01



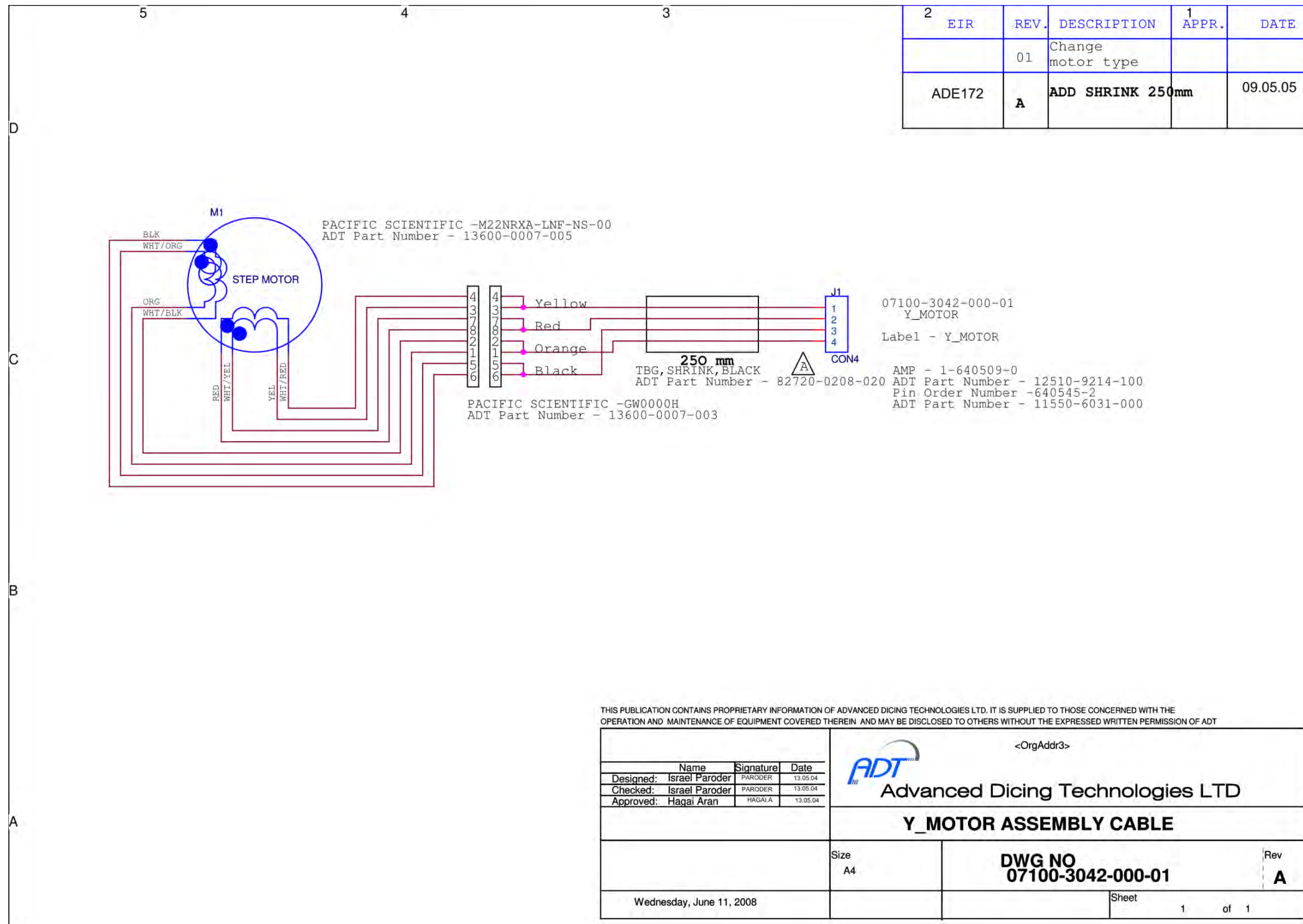
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Name	Signature	Date													
Designed: Israel Paroder															
Checked: Israel Paroder															
Approved: Eli Taledano															
<p align="center">NON CONTACT CABLE ASS'Y</p>															
Size A3		DWG NO 07100-3013-000-01SC	Rev A												
Sunday, August 28, 2011		Sheet 1 of 1													

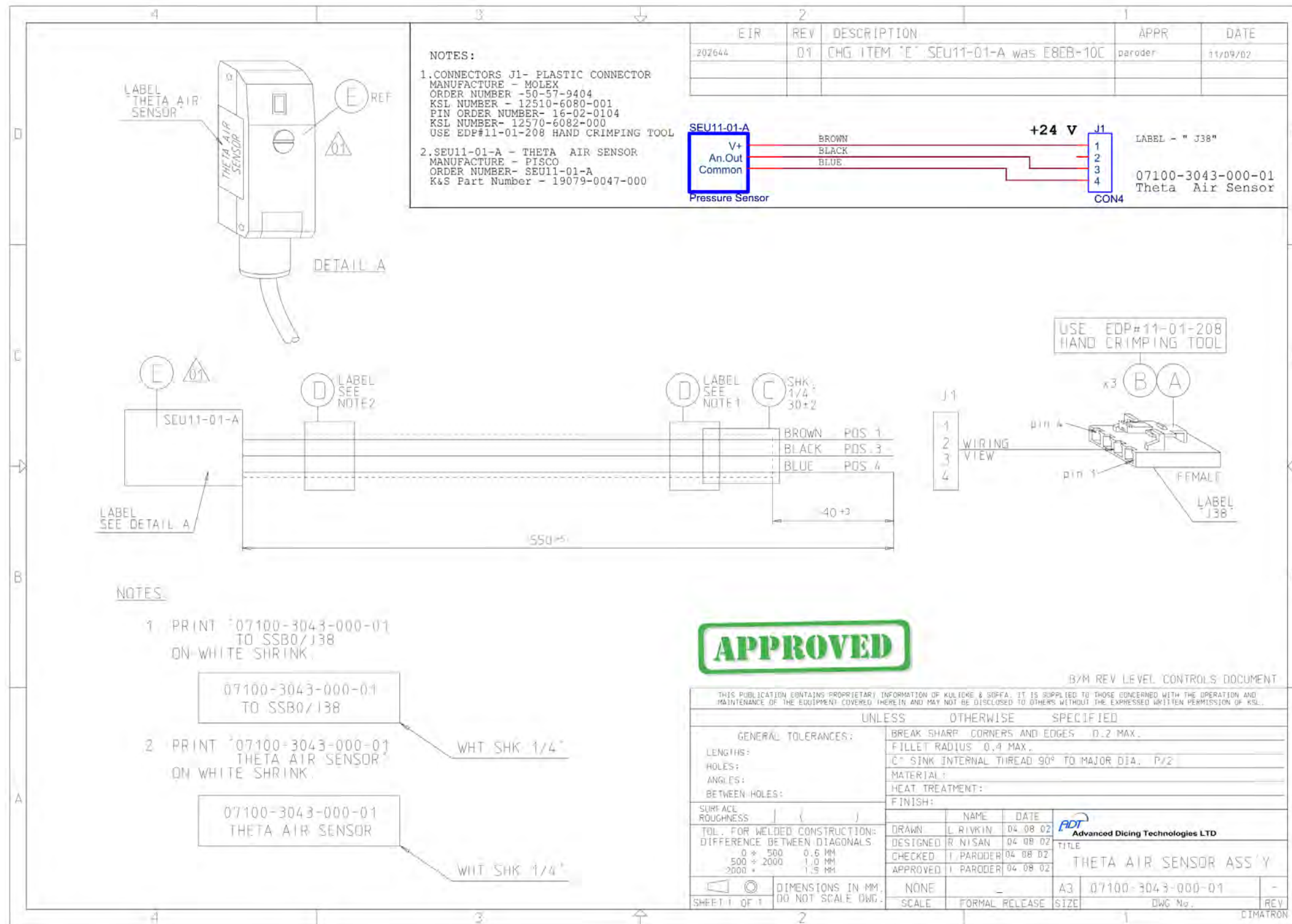
9.11. Y Encoder Cable (RSF) 07100-3040-000-01



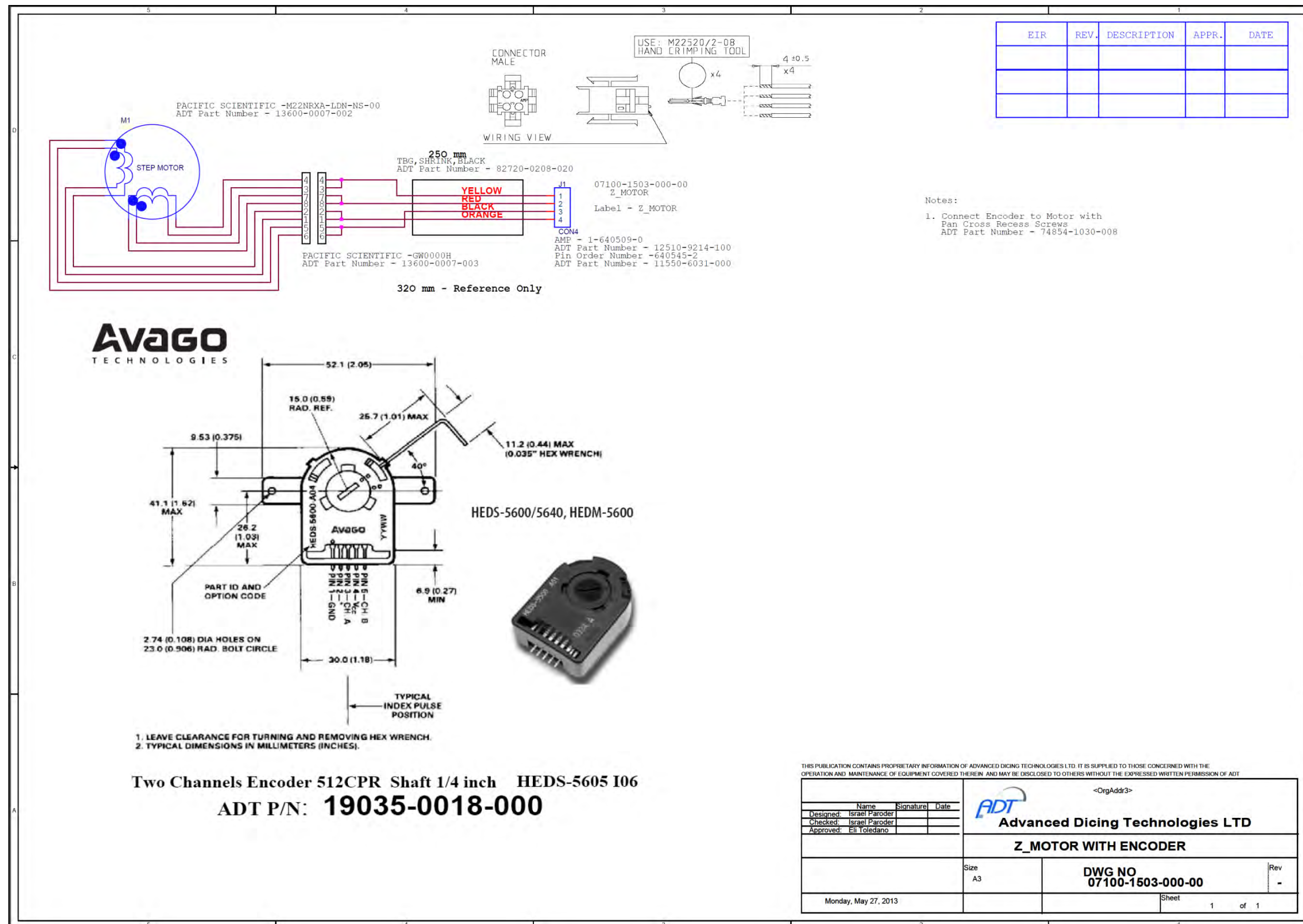
9.12. Y Motor Assembly with Cable (for SP) 07100-3042-000-01



9.13. Theta Air Sensor Cable 07100-3043-000-01



9.14. Z Motor with Encoder Assembly 07100-1503-000-00



Two Channels Encoder 512CPR Shaft 1/4 inch HEDS-5605 I06
 ADT P/N: 19035-0018-000

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Name			Signature			Date		
Designed: Israel Paroder								
Checked: Israel Paroder								
Approved: Eli Toledano								

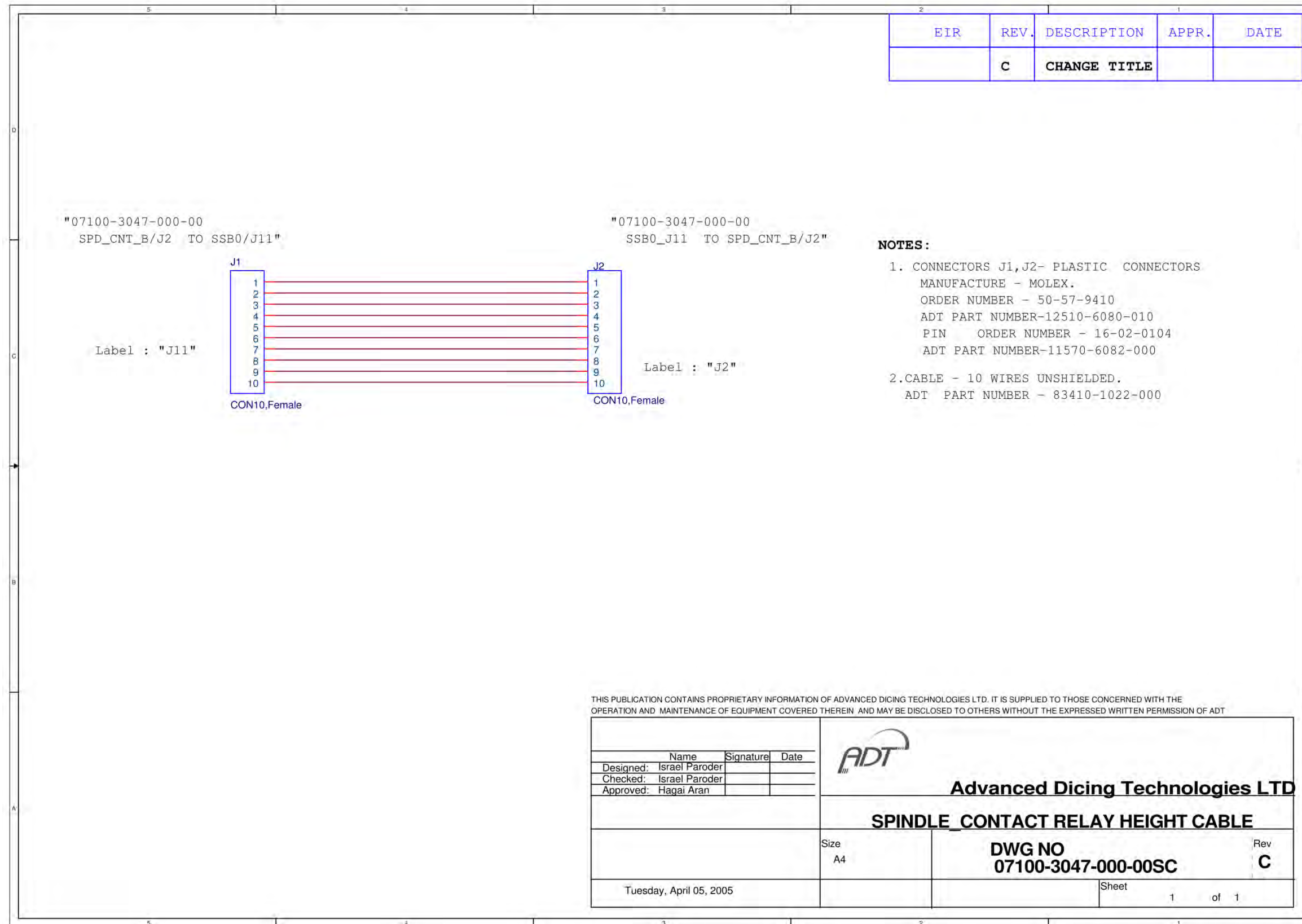
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Advanced Dicing Technologies LTD

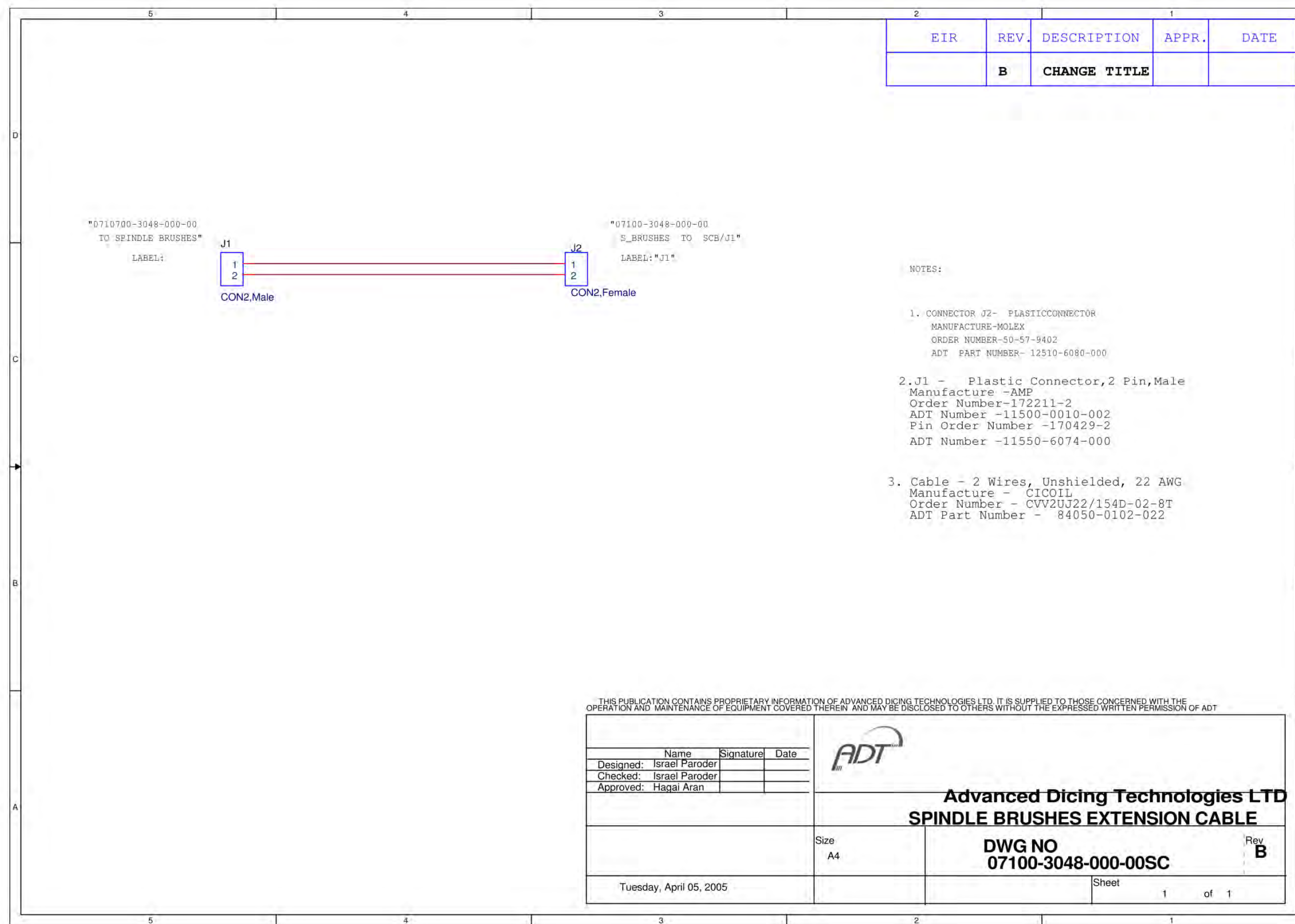
Z_MOTOR WITH ENCODER

Size A3	DWG NO 07100-1503-000-00	Rev -
Monday, May 27, 2013	Sheet	1 of 1

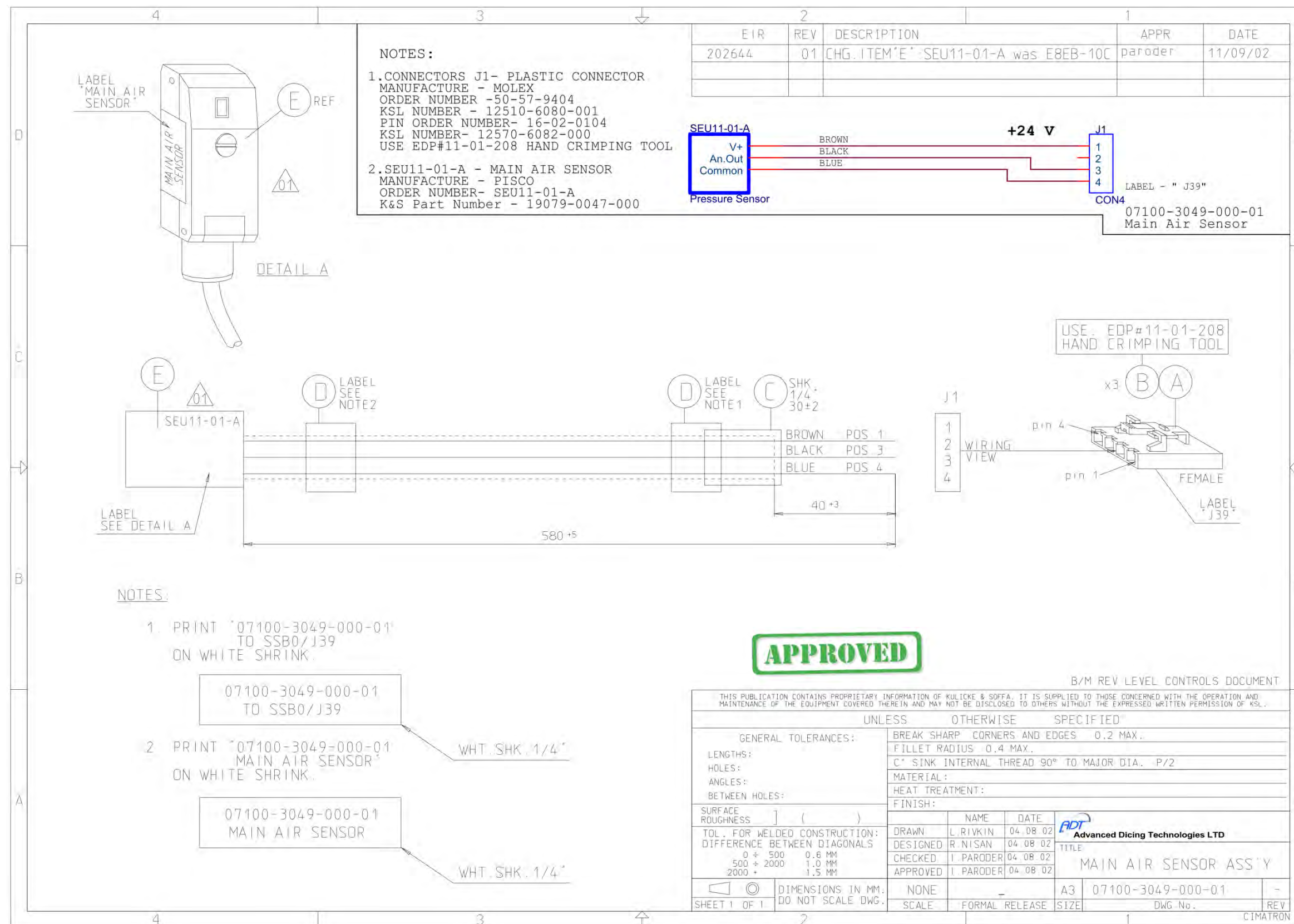
9.15. Spindle Contact Relay Height Cable 07100-3047-000-00



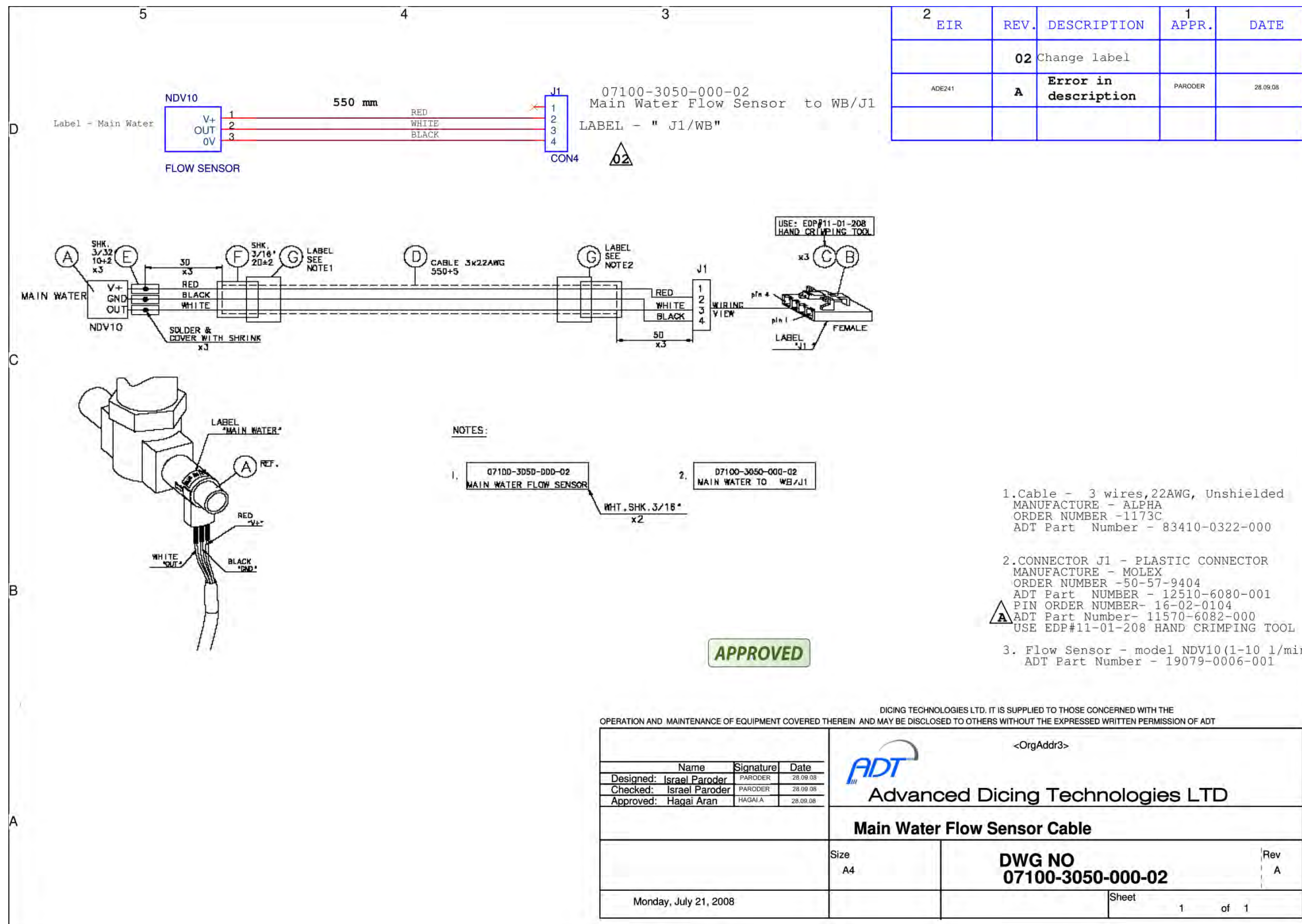
9.16. Spindle Brushes Extension Cable 07100-3048-000-00



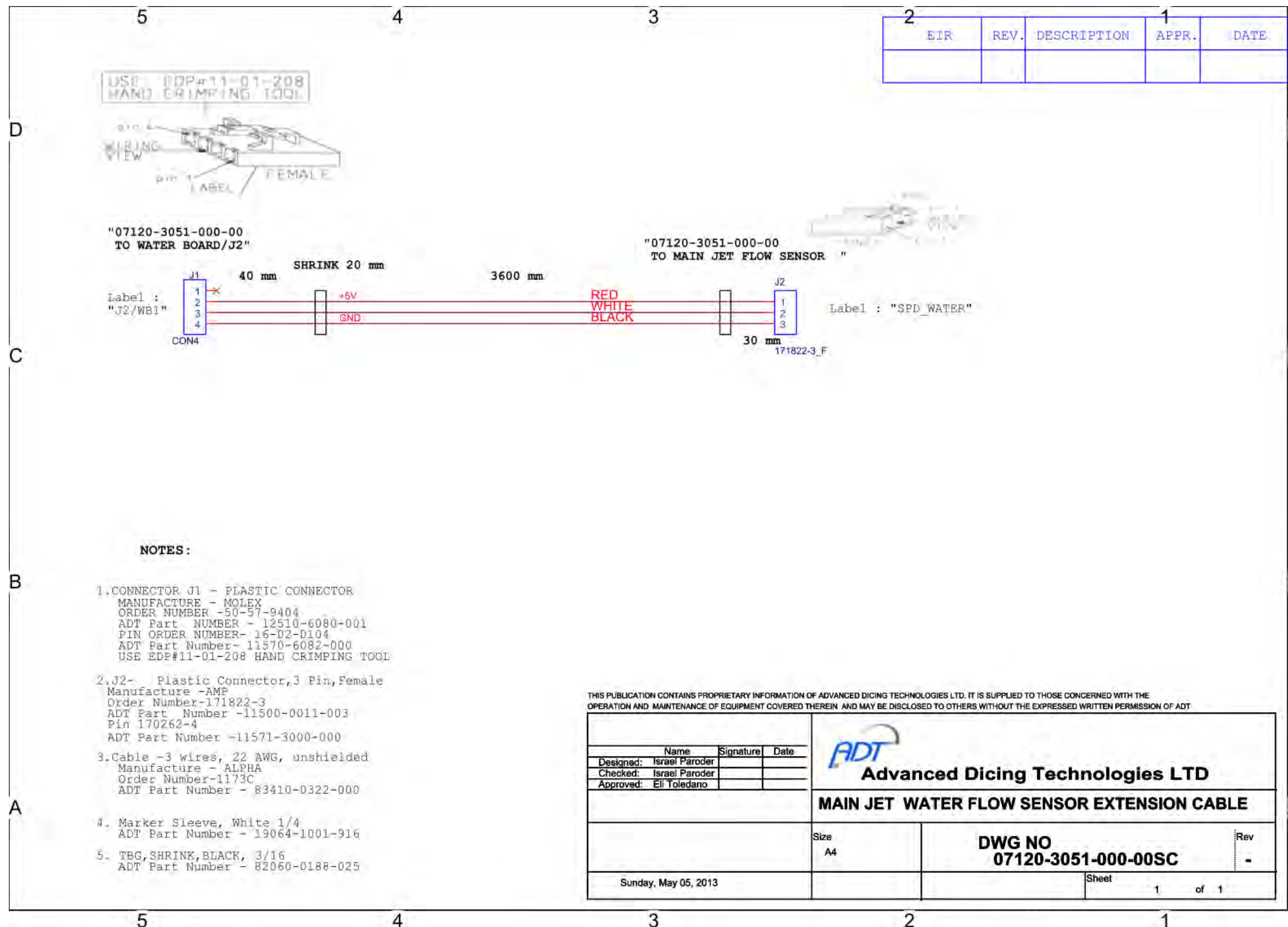
9.17. Main Air Sensor Cable 07100-3049-000-01



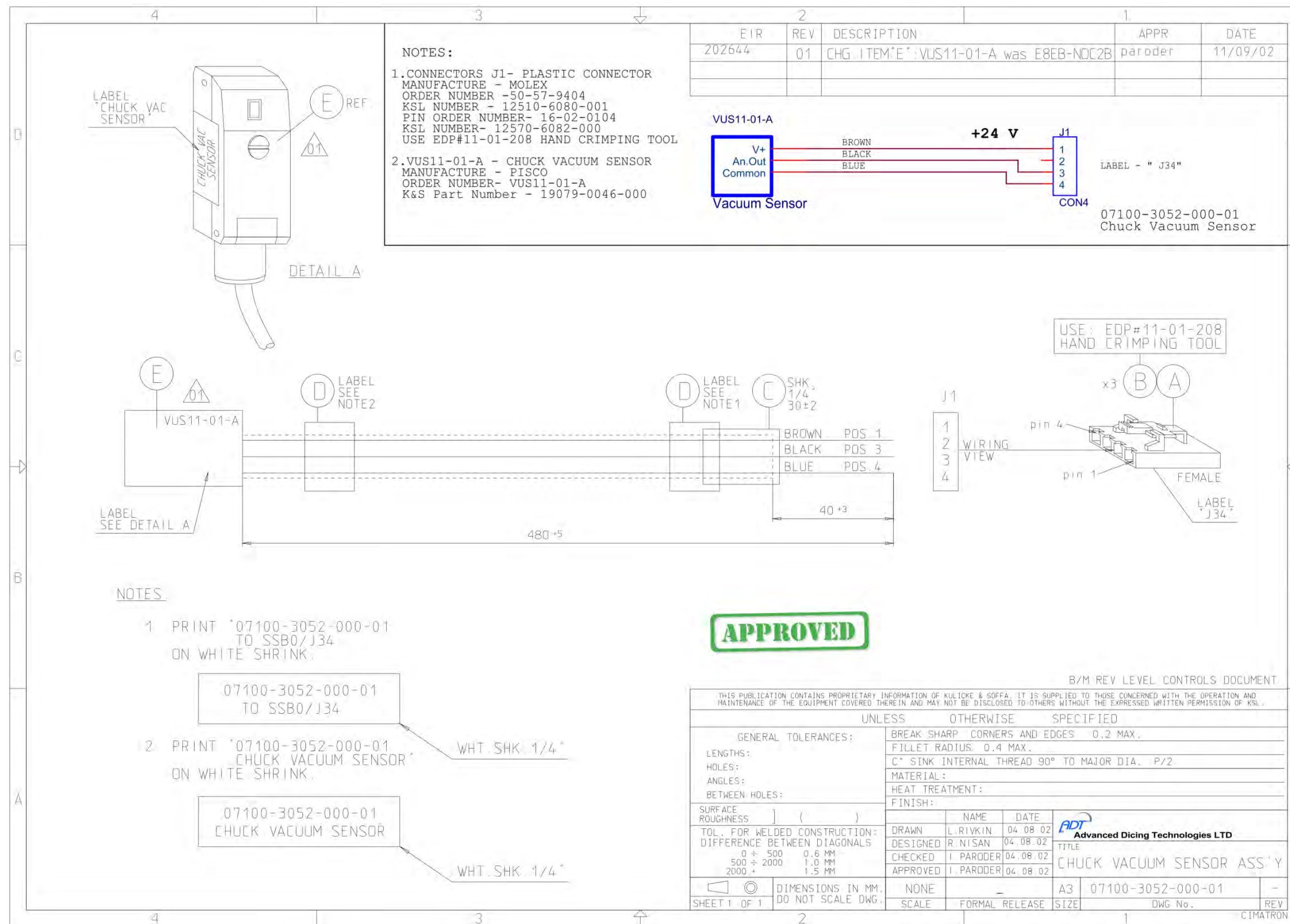
9.18. Main Water Flow Sensor Cable 07100-3050-000-02



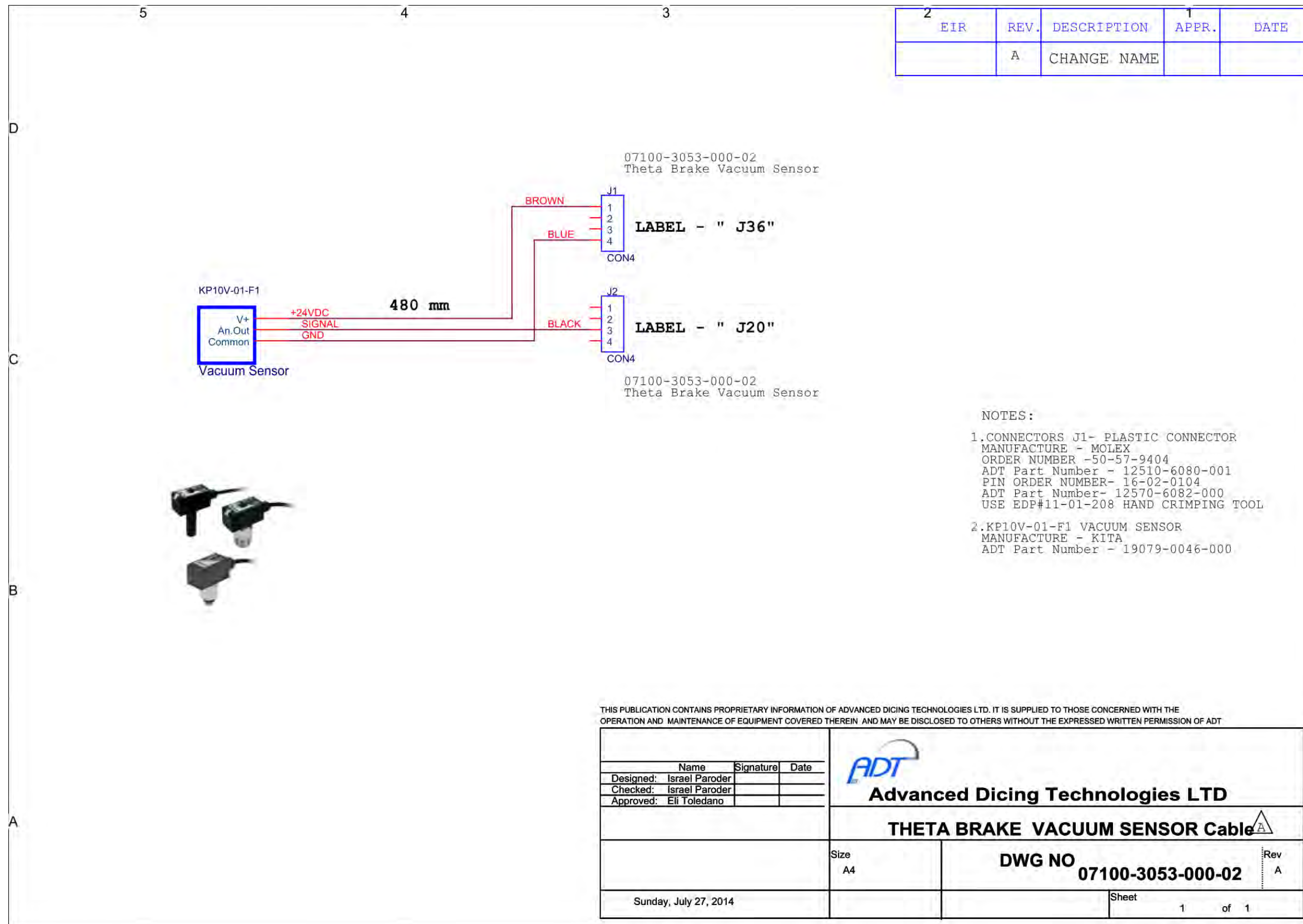
9.19. Main Jet Water Flow Sensors Extension Cable 07120-3051-000-00



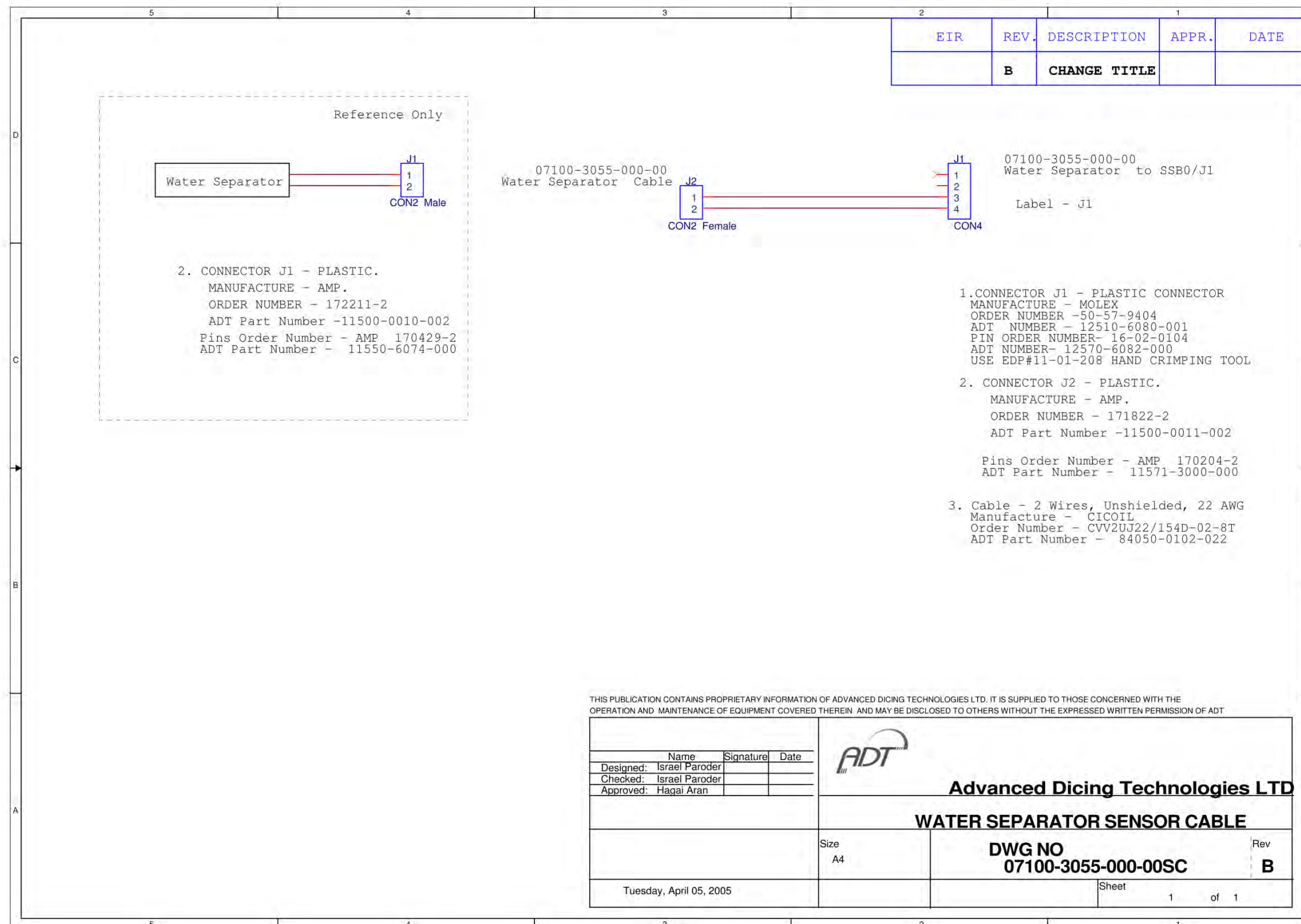
9.20. Chuck Vacuum Sensor Cable 07100-3052-000-01



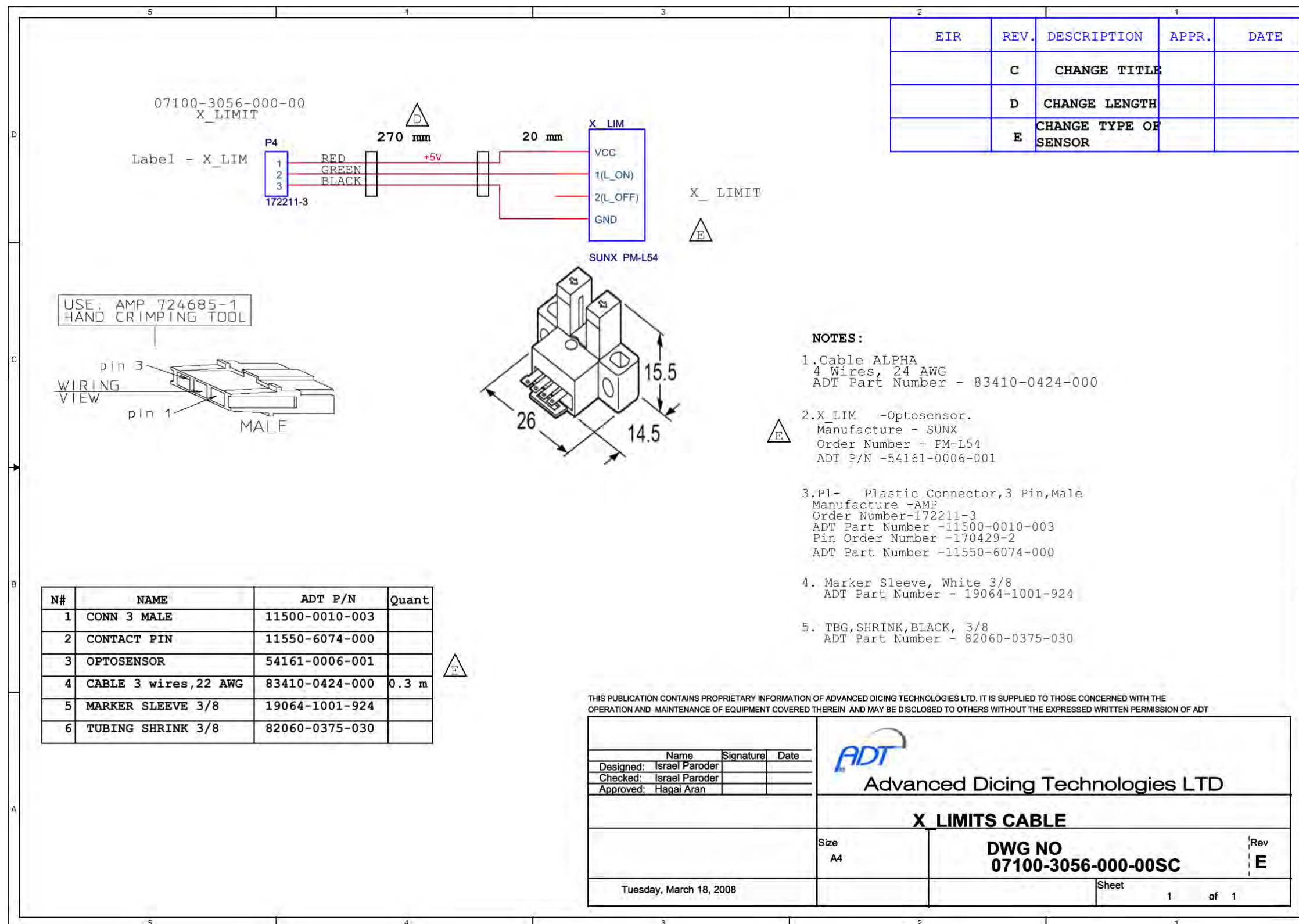
9.21. Theta Brake Sensor Cable 07100-3053-000-02



9.22. Water Separator Sensors Cable 07100-3055-000-00



9.23. X Limit Cable 07100-3056-000-00

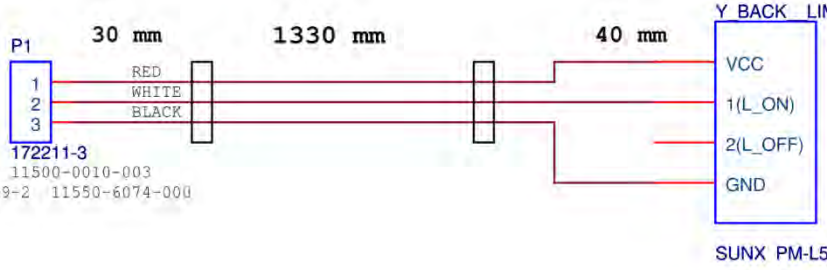


9.24. Y Back Limit Cable 07100-3057-000-01

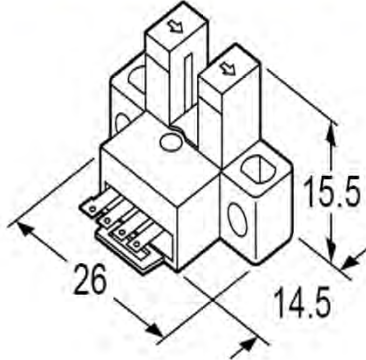
2	EIR	REV.	DESCRIPTION	1	APPR.	DATE
		A	CHANGE TYPE OF SENSOR and CABLE			

"07100-3057-000-01
Y_BACK_LIMIT CABLE "

Label -
"Y_LIMIT"



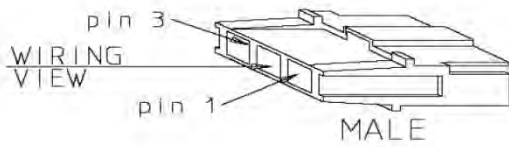
Label -
"Y_BACK_LIMI"



NOTES:


1. Cable -3 wires, 22 AWG, unshielded
Manufacture - ALPHA
Order Number-1173C
ADT Part Number - 83410-0322-000
2. Y_BACK_LIM -Optosensor.
Manufacture - SUNX
Order Number - PM-L54
ADT P/N -54161-0006-001
3. P1- Plastic Connector, 3 Pin, Male
Manufacture -AMP
Order Number-172211-3
ADT Part Number -11500-0010-003
Pin Order Number -170429-2
ADT Part Number -11550-6074-000
4. Marker Sleeve, White 3/8
ADT Part Number - 19064-1001-924
5. TBG, SHRINK, BLACK, 3/8
ADT Part Number - 82060-0375-030

USE: AMP 724685-1
HAND CRIMPING TOOL

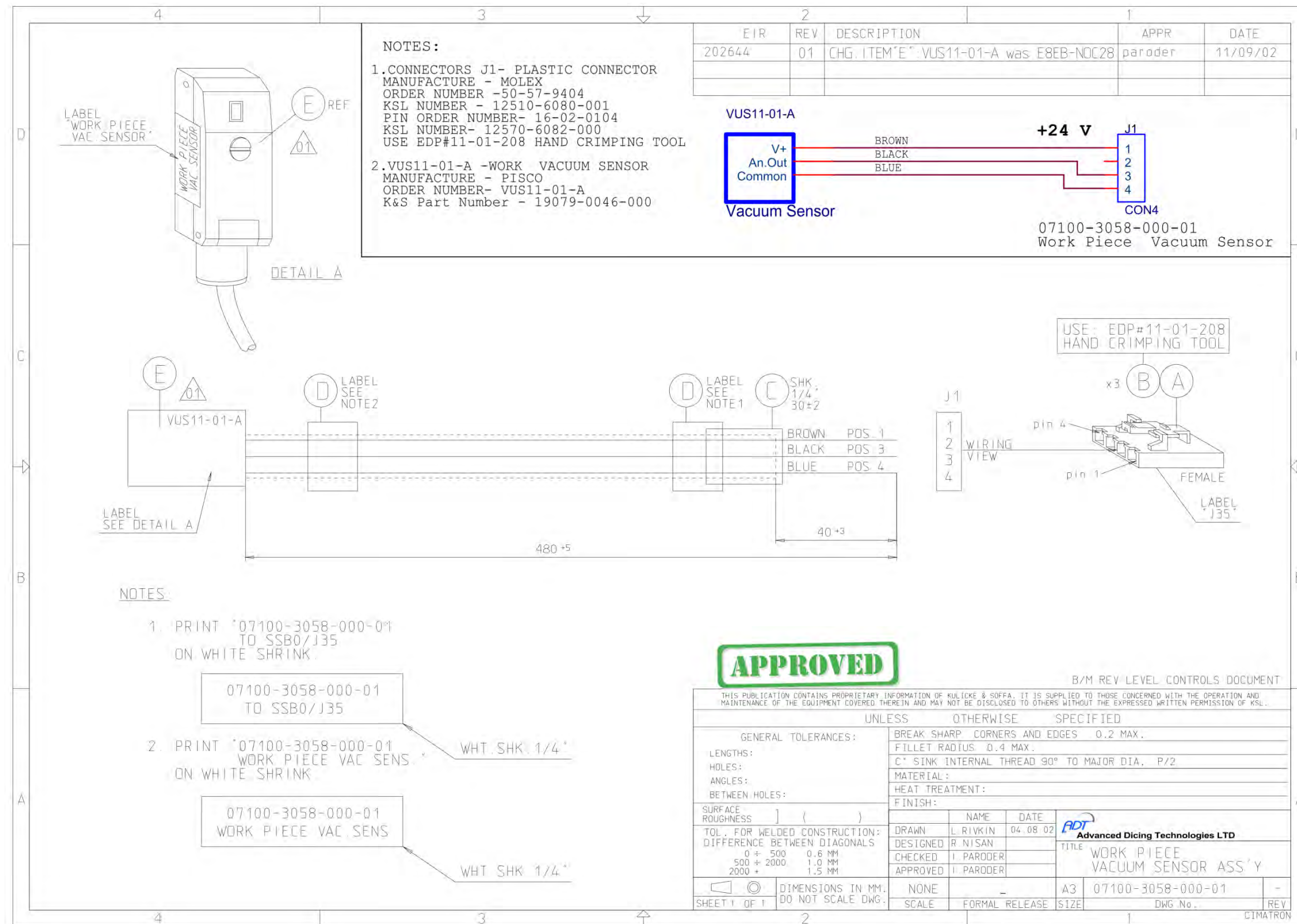


N#	NAME	ADT P/N	Quant
1	CONN 3 MALE	11500-0010-003	1
2	CONTACT PIN	11550-6074-000	3
3	OPTOSENSOR	54161-0006-001	1
4	CABLE 3 wires, 22 AWG	83410-0322-000	53 in
5	MARKER SLEEVE 3/8	19064-1001-924	1
6	TUBING SHRINK 3/8	82060-0375-030	2 in

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Name	Signature	Date														
Designed: Israel Paroder																
Checked: Israel Paroder																
Approved: Hagai Aran																
Y_BACK LIMIT CABLE																
Size A4		DWG NO 07100-3057-000-01SC		Rev A												
Wednesday, April 18, 2007			Sheet 1 of 1													

9.25. Work Piece Vacuum Sensor Cable 07100-3058-000-01

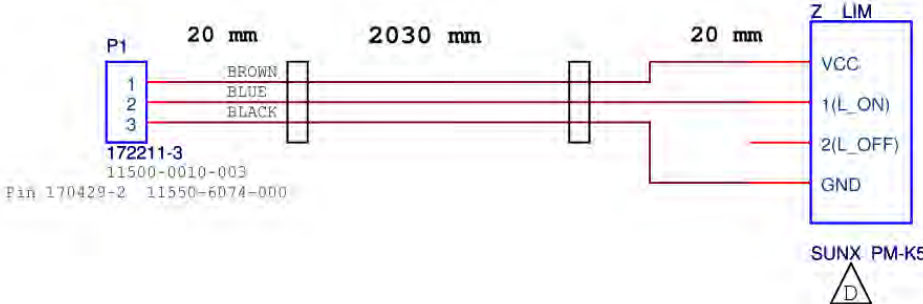


9.26. Z Limit Cable 07100-3059-000-00

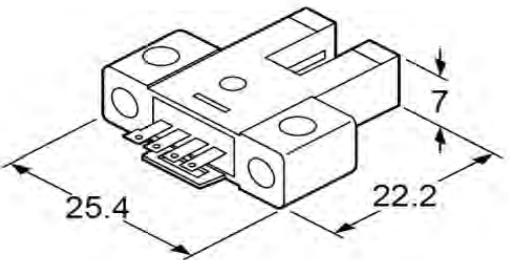
2	EIR	REV.	DESCRIPTION	1	APPR.	DATE
	ADE241	D	CHANGE TYPE OF SENSOR		PARODER	28.09.08

"07100-3059-000-00
Z_LIMIT CABLE "

Label -
"Z_LIMIT"



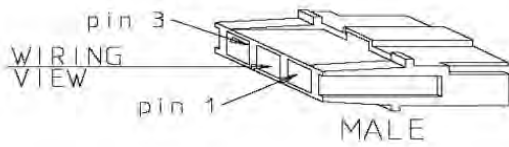
172211-3
11500-0010-003
Pin 170429-2 11550-6074-000



Label -
"Z_LIMIT"

SUNX PM-K54
D

USE: AMP 724685-1
HAND CRIMPING TOOL



WIRING
VIEW

MALE


NOTES:

1. Cable -SUPERFLEXIBLE
Manufacture - IGUS
Order Number-CF9.02.03
ADT Part Number - 83050-0300-025.
2. Z_LIM -Optosensor.
Manufacture - SUNX
Order Number - PM-K54
ADT P/N -54161-0006-000
3. P1- Plastic Connector, 3 Pin, Male
Manufacture -AMP
Order Number-172211-3
ADT Part Number -11500-0010-003
Pin Order Number -170429-2
ADT Part Number -11550-6074-000
4. Marker Sleeve, White 3/8
ADT Part Number - 19064-1001-924
5. TBG, SHRINK, BLACK, 3/8
ADT Part Number - 82060-0375-030

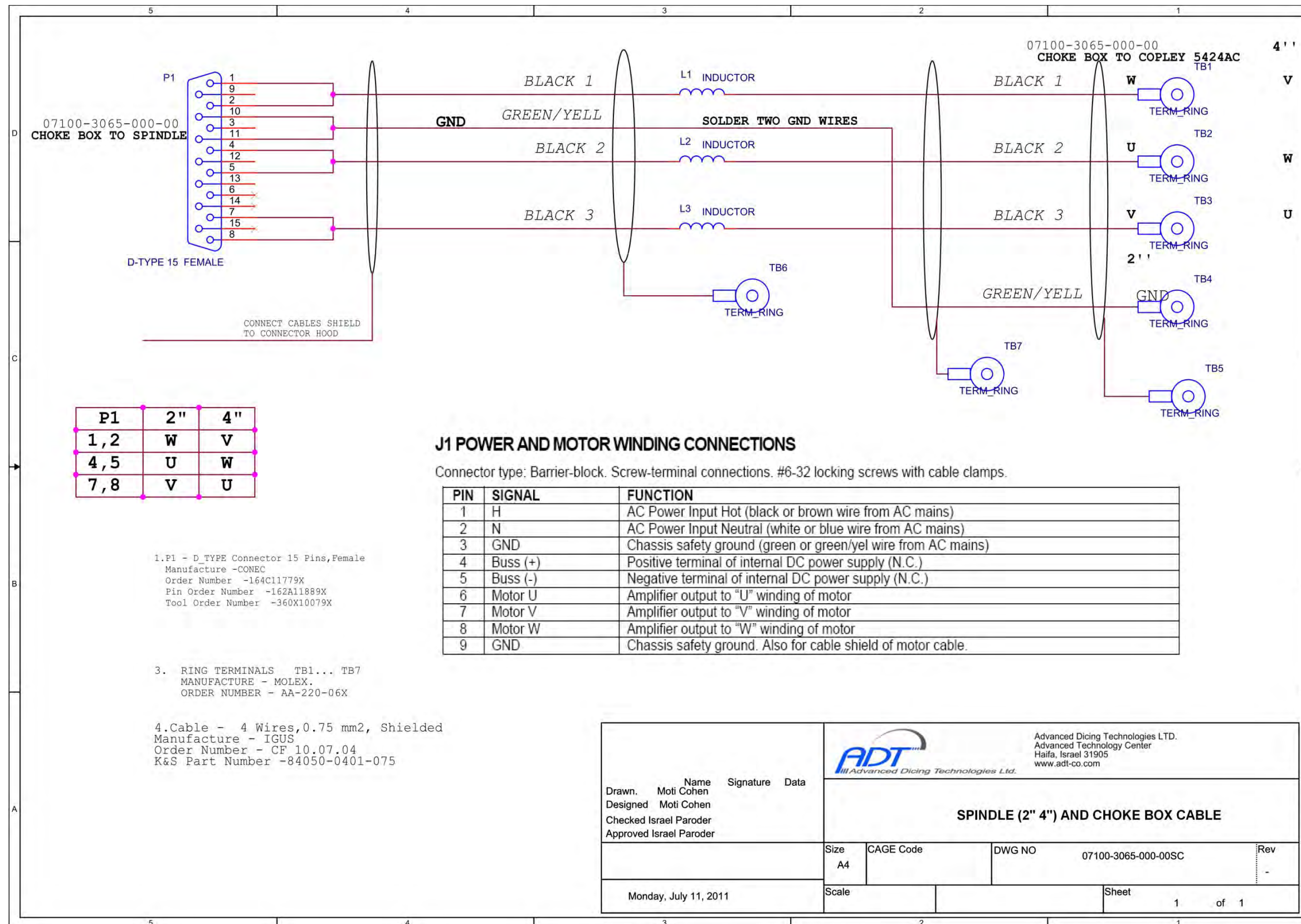
APPROVED

N#	NAME	ADT P/N	Quant.
1	CONN 3 MALE	11500-0010-003	1
2	CONTACT PIN	11550-6074-000	3
3	OPTOSENSOR	54161-0006-000	1
4	CABLE 3 wires, 22 AWG	83050-0300-025	2.1m
5	MARKER SLEEVE 3/8	19064-1001-924	1
6	TUBING SHRINK 3/8	82060-0375-030	2 in

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Name	Signature	Date														
Designed: Israel Paroder	PARODER	28.09.08														
Checked: Israel Paroder	PARODER	28.09.08														
Approved: Hagai Aran	HAGAI A	28.09.08														
Z LIMIT CABLE																
Size A4		DWG NO 07100-3059-000-00SC		Rev D												
Tuesday, March 18, 2008			Sheet	1 of 1												

9.27. Spindle (2" & 4") Choke Box Cable 07100-3065-000-00



9.28. Overflow Sensors 07900-3073-000-00

	2	EIR	REV.	DESCRIPTION	1	APPR.	DATE

07900-3073-000-00
TO 07900-3074-000-00

07900-3073-000-00
OVERFLOW SENSOR

Level switch - Polypropylene MFS17- C & D

FEATURES

- Polypropylene float - unsinkable!
- Polypropylene stem
- Stainless steel circlip (P/P optional)
- MFS17-C-2 = N/O or N/C contact
- MFS17-D-2 = N/O or N/C contact
- Suitable for water etc
- 30cm flying leads

OPTIONS

- Nitrile float - see DataFax 1503
- S/S stem - see DataFax 1515
- Multi-level - see DataFax 1526

Maximum voltage	240Vac	Float material	Polypropylene
Reed switch rating	66VA	Stem material	Polypropylene
Maximum current	0.5A	C-2 Float details	25dia x 25 SG = 0.70
Maximum pressure & temp	3 bar & 110degC	D-2 Float details	18dia x 25 SG = 0.70
Thread	1/8" BSP x 15mm	Circlip material	S/Steel (P/P optional)

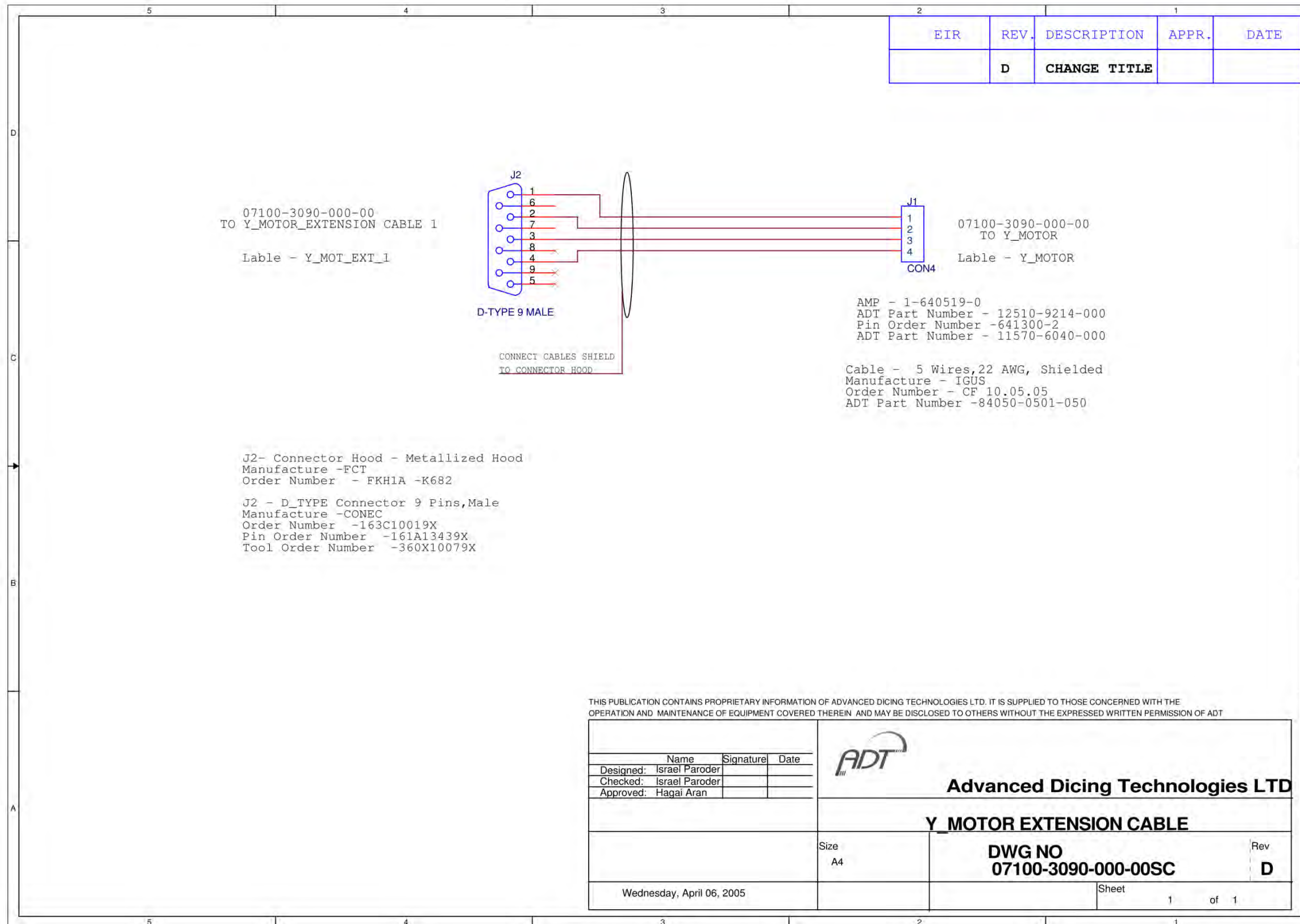
MFS17-D-2 - ADT PART NUMBER 16200-0050-027

1. S01SE4 , S01SE4_1 -Level Sensor
Manufacture - RIKO
Order Number - MFS17-D-2
ADT P/N-16200-0050-027
2. J1,J2 - 2 PIN FEMALE PLASTIC CONNECTOR
Manufacture - AMP
Order Number - 171822-2
ADT Part Number - 11500-0011-002
Pins Order Number - 170262-4
ADT Part Number-11571-3000-000
3. Marker Sleeve, White 1/4
ADT Part Number - 19064-1001-916
4. TBG, SHRINK, BLACK, 3/16
ADT Part Number - 82060-0188-025

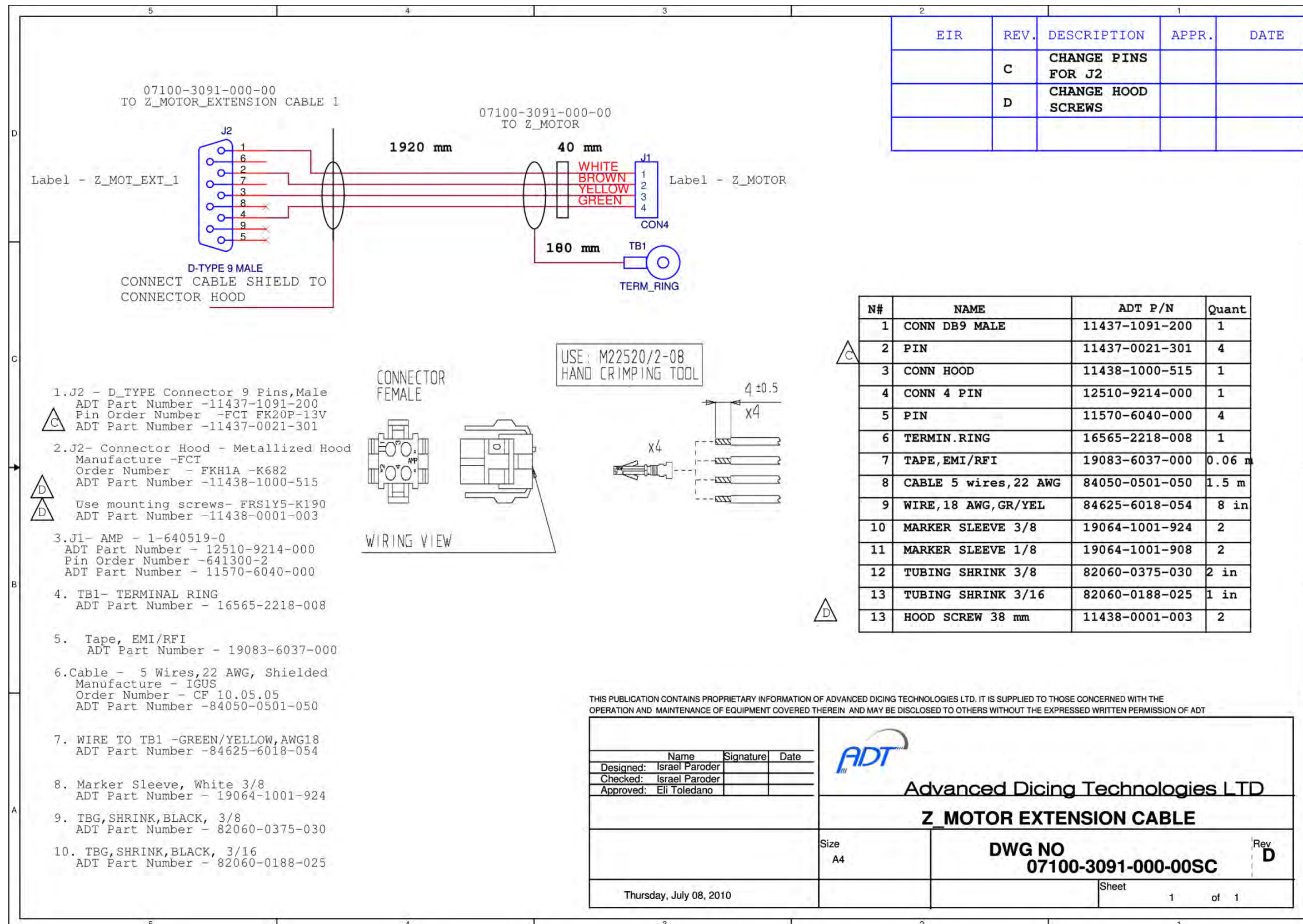
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<table border="1" style="width: 100%; border-collapse: collapse; font-size: x-small;"> <thead> <tr> <th>Name</th> <th>Signature</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>Designed: Israel Paroder</td> <td></td> <td></td> </tr> <tr> <td>Checked: Israel Paroder</td> <td></td> <td></td> </tr> <tr> <td>Approved: Eli Toledano</td> <td></td> <td></td> </tr> </tbody> </table>	Name	Signature	Date	Designed: Israel Paroder			Checked: Israel Paroder			Approved: Eli Toledano			<p>Advanced Dicing Technologies LTD</p> <p>OVERFLOW SENSORS</p>
Name	Signature	Date											
Designed: Israel Paroder													
Checked: Israel Paroder													
Approved: Eli Toledano													
<p>Thursday, May 13, 2010</p>	<p>Size A4</p> <p>DWG NO 07900-3073-000-00SC</p> <p>Sheet 1 of 1</p>												

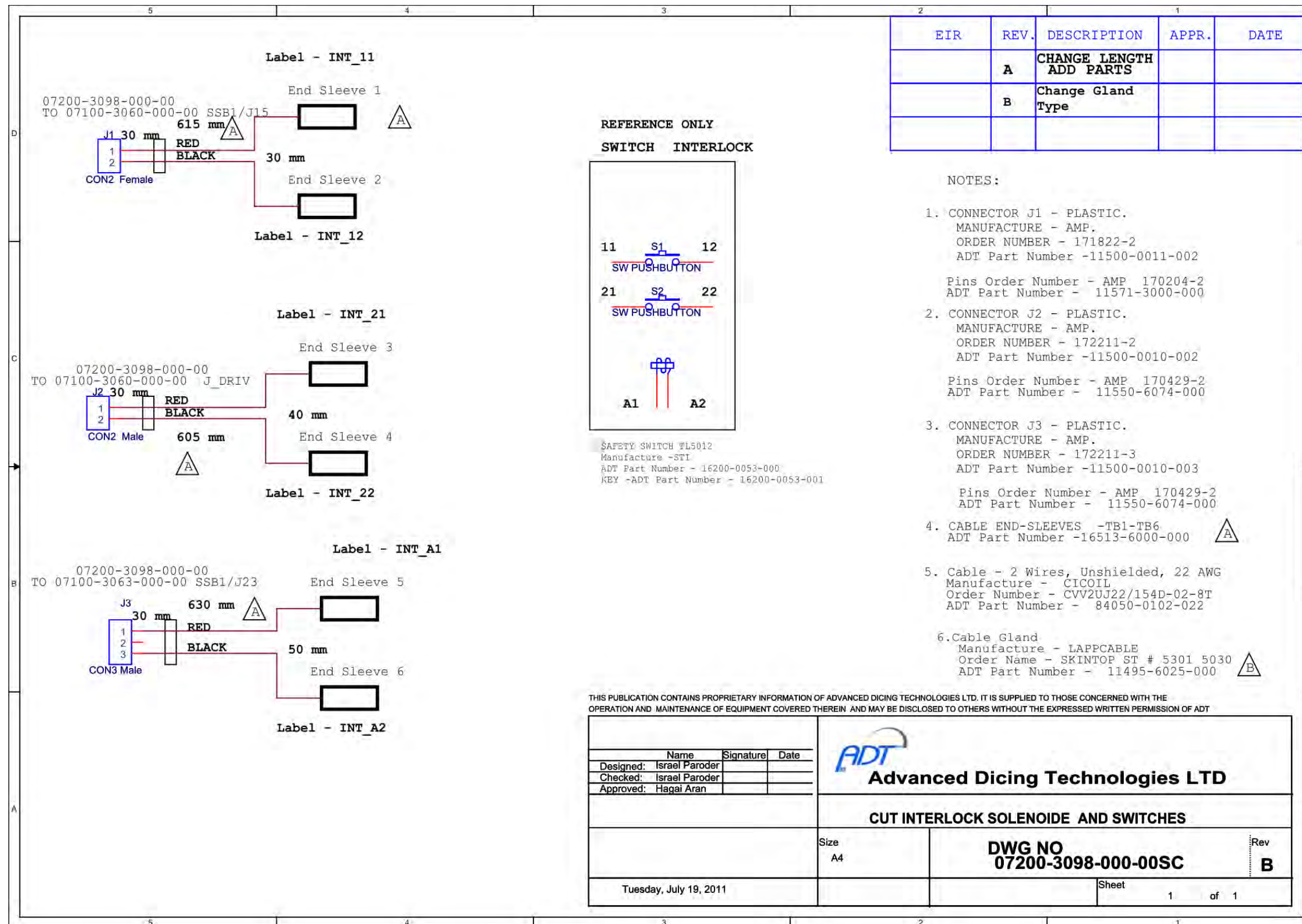
9.29. Y Motor Extension Cable 07100-3090-000-00



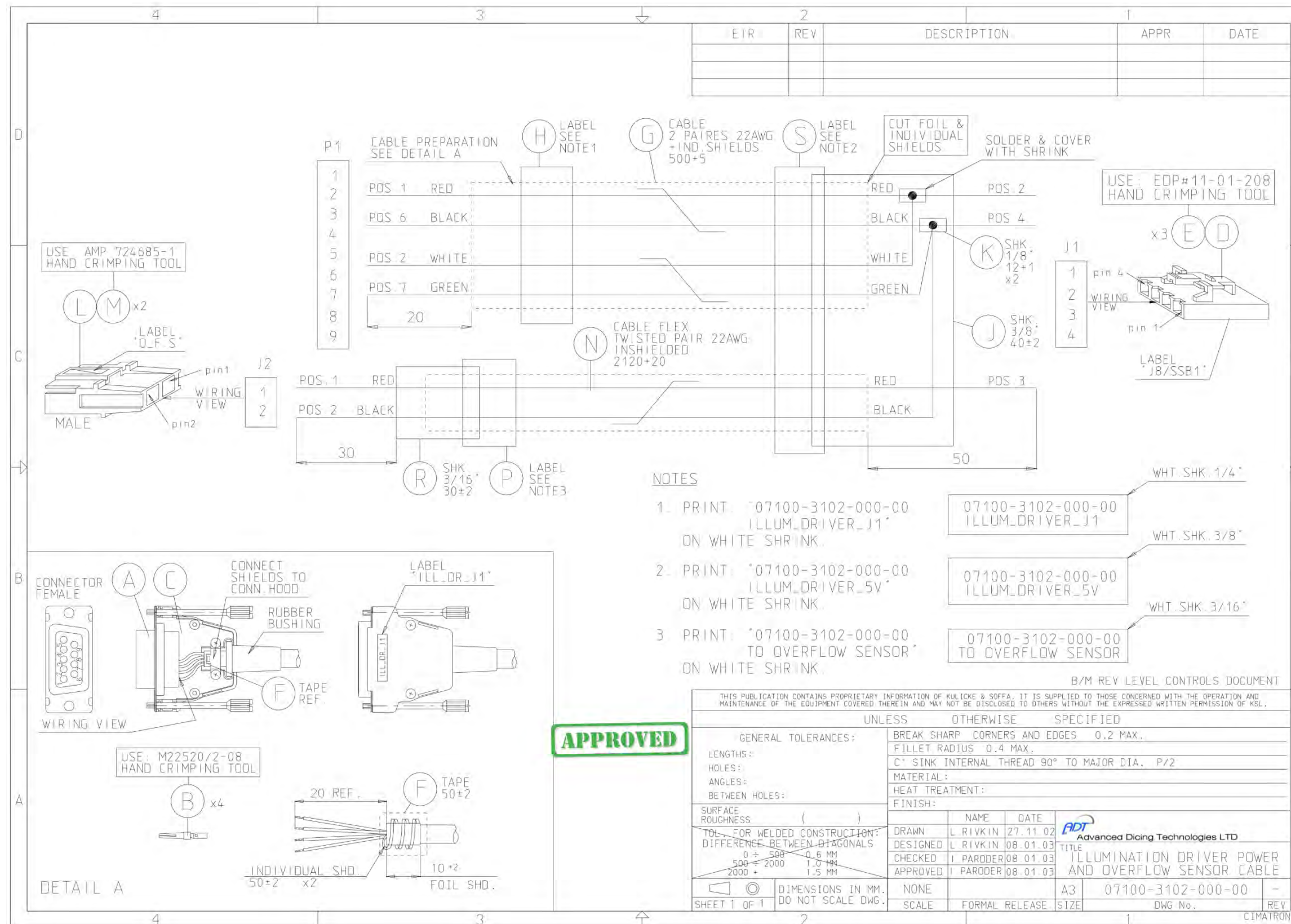
9.30. Z Motor Extension Cable 07100-3091-000-00



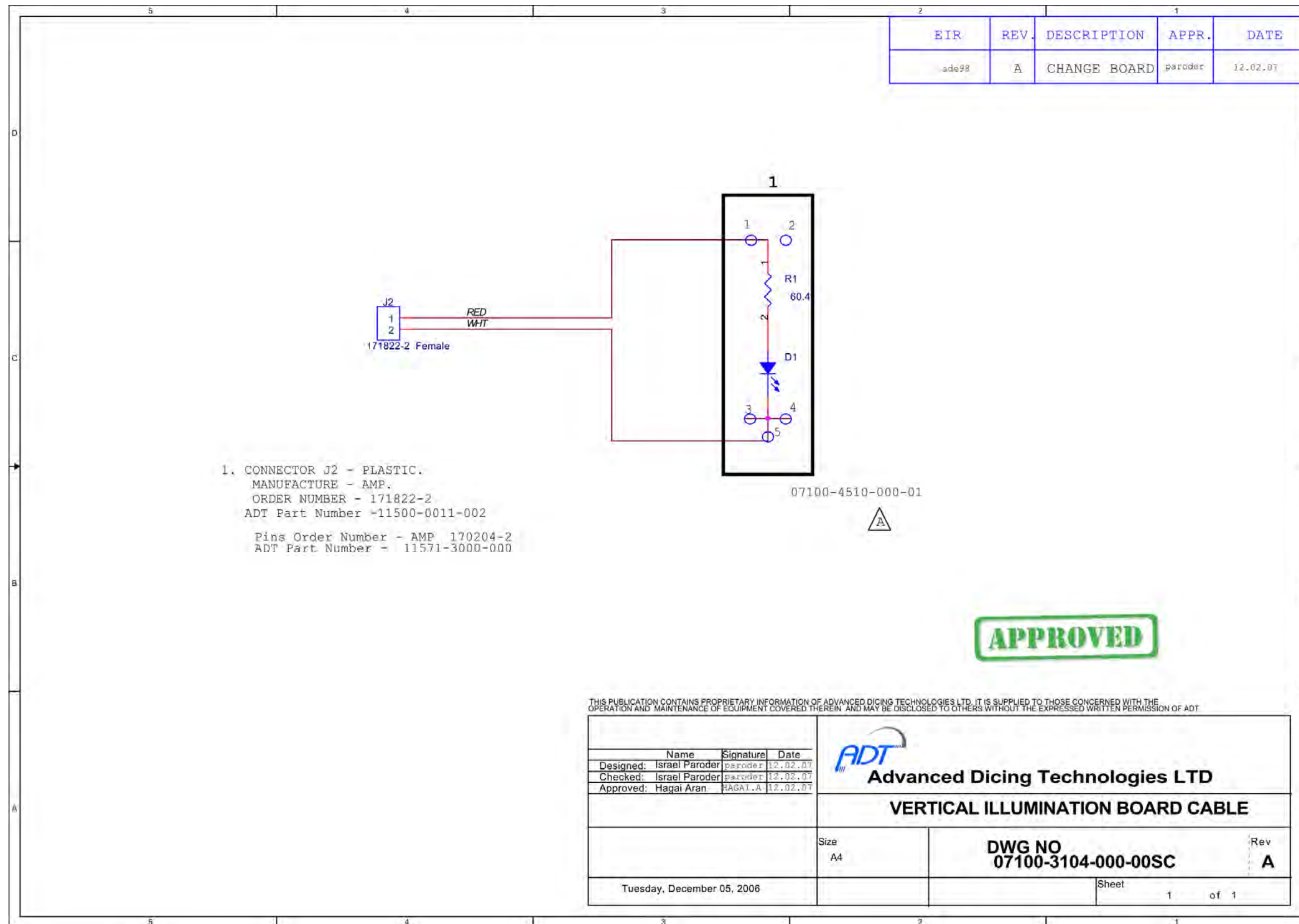
9.31. Cut Interlock Solenoid and Switches 07200-3098-000-00



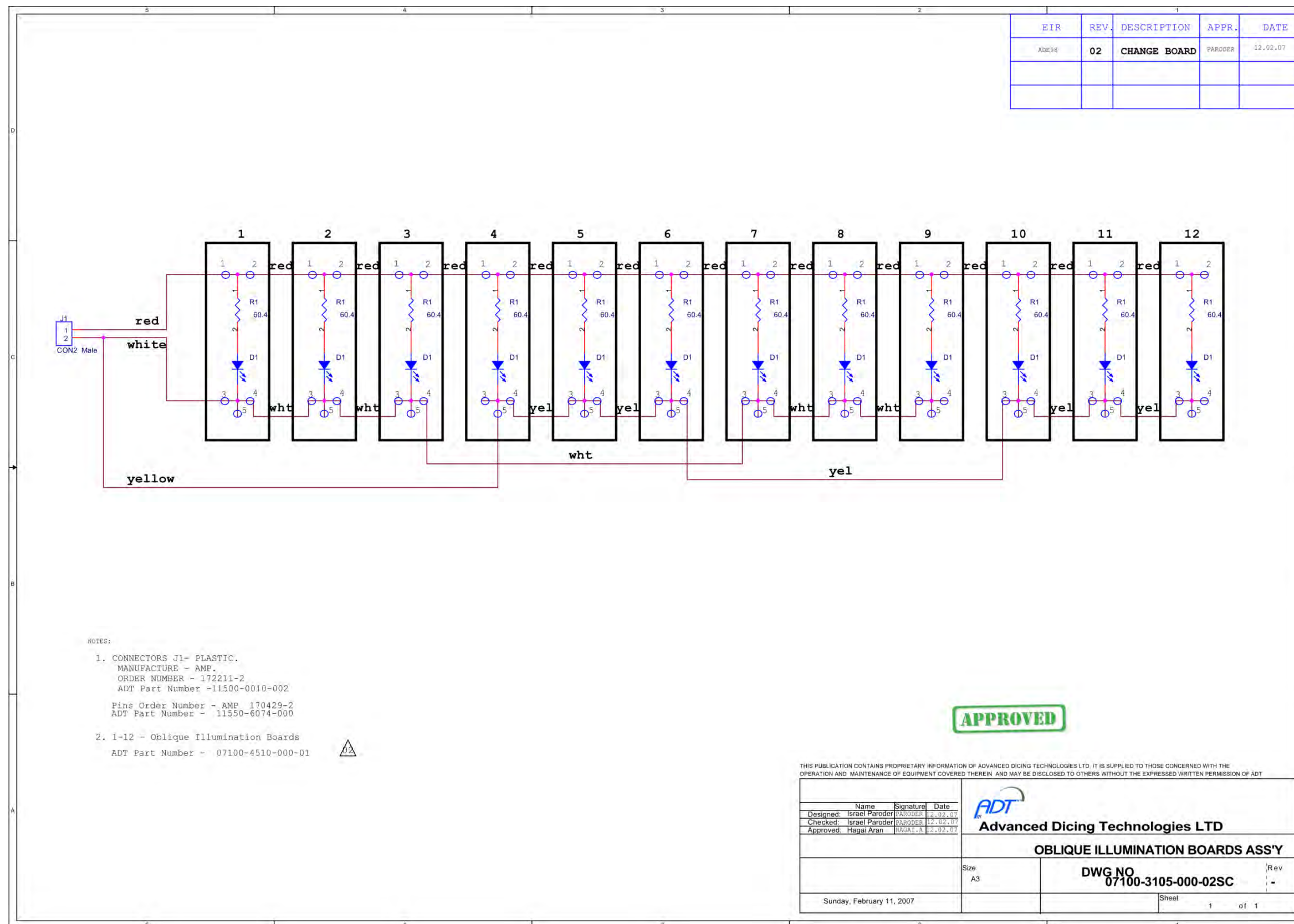
9.32. Overflow Sensor Cable 07100-3102-000-00



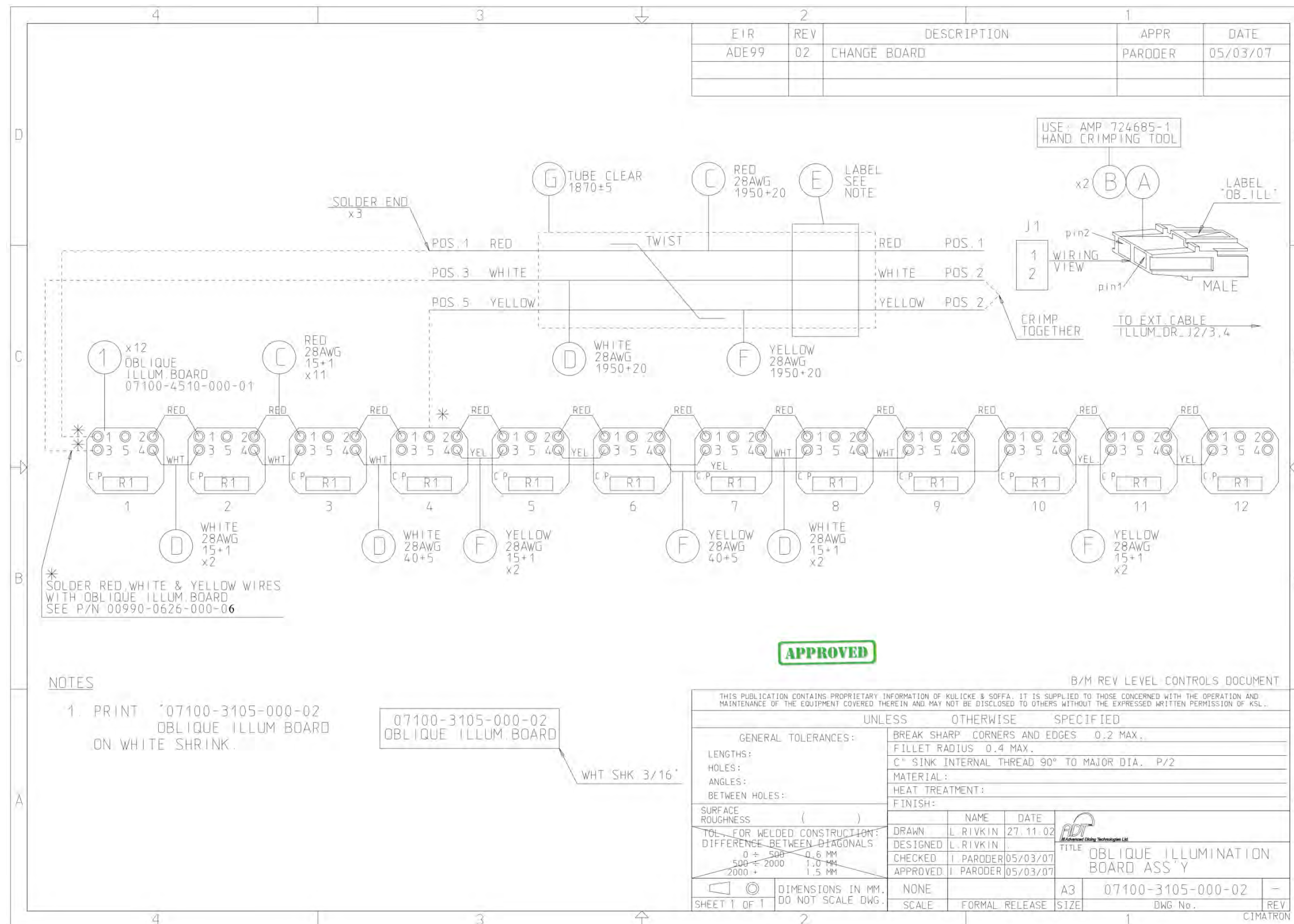
9.33. Vertical Illumination Board Cable 07100-3104-000-00



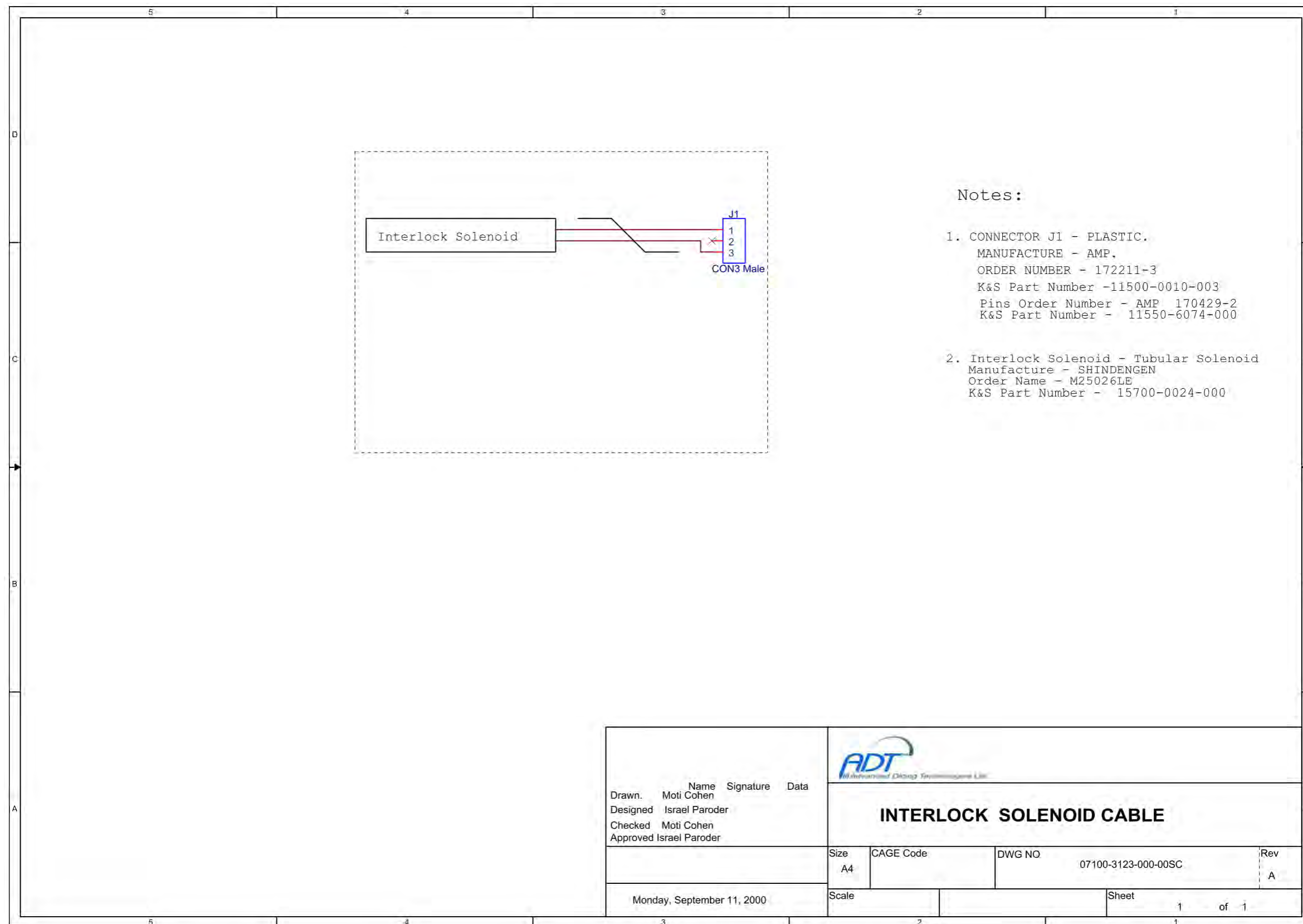
9.34. Oblique Illumination Board Cable 07100-3105-000-02 (1 of 2)



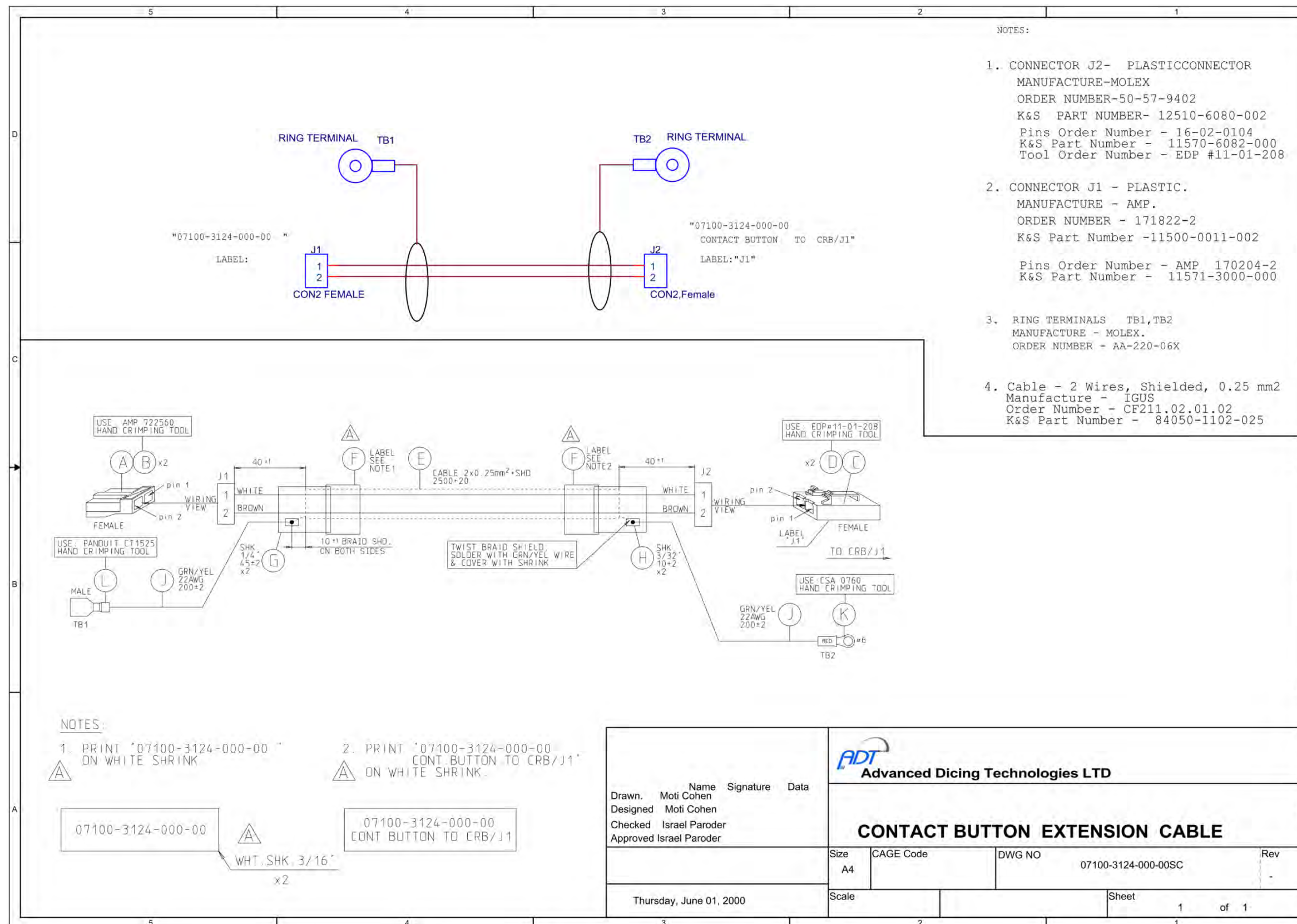
9.35. Oblique Illumination Board Cable 07100-3105-000-02 (2 of 2)



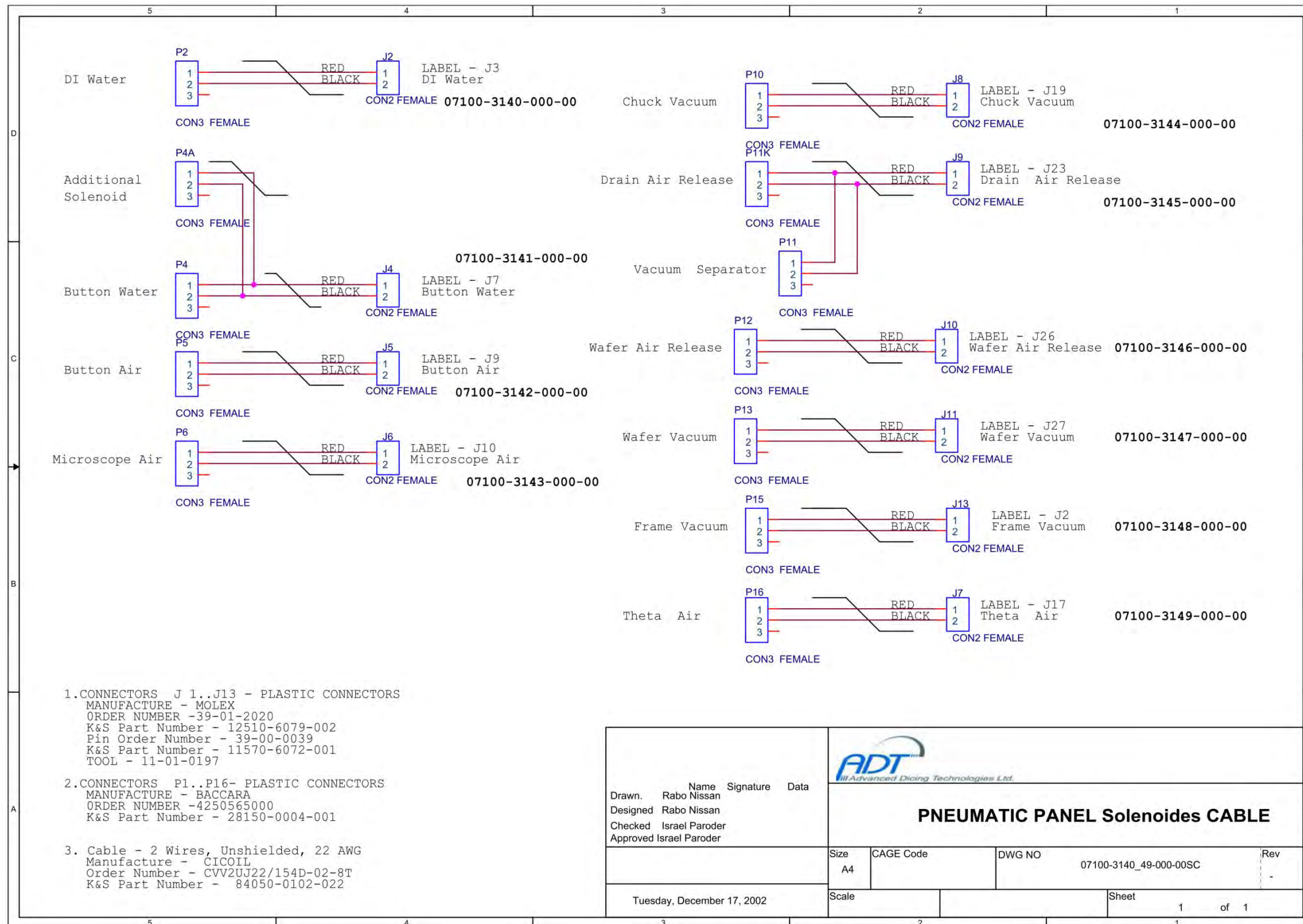
9.36. Interlock Solenoid Cable 07100-3123-000-00



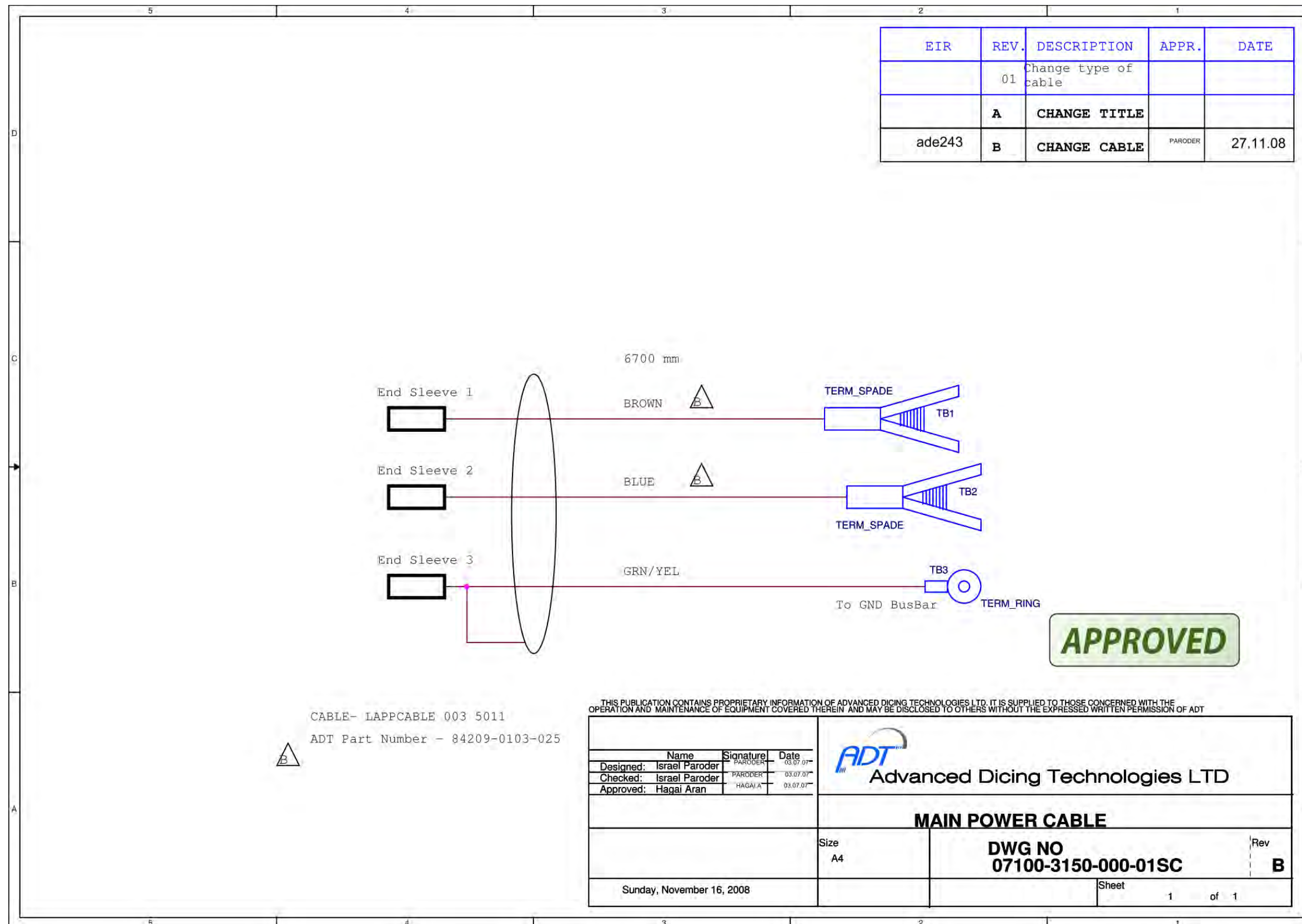
9.37. Contact Button Extension Cable 07100-3124-000-00



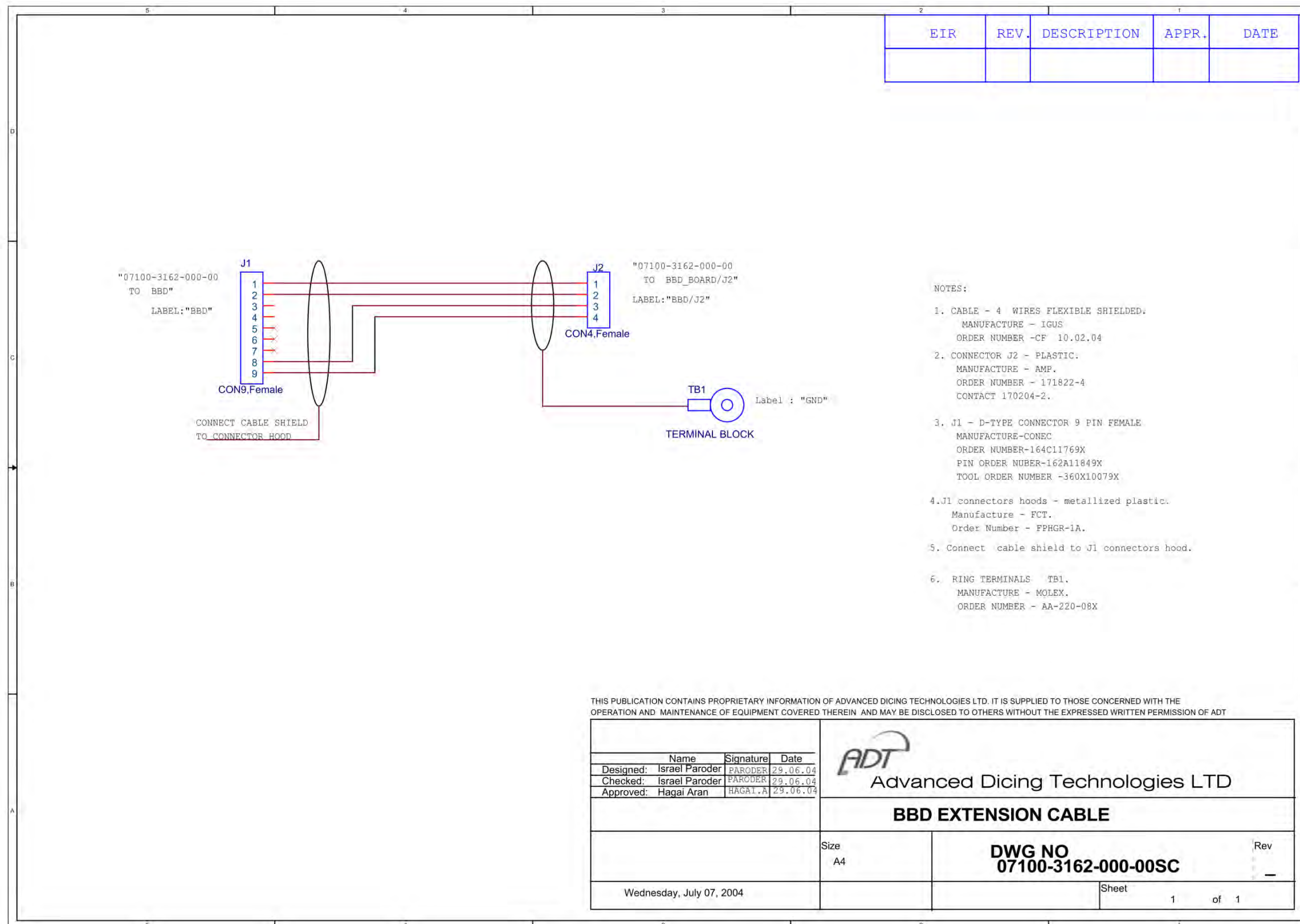
9.38. Pneumatic Panel Solenoids Cable 07100-3140-000-00



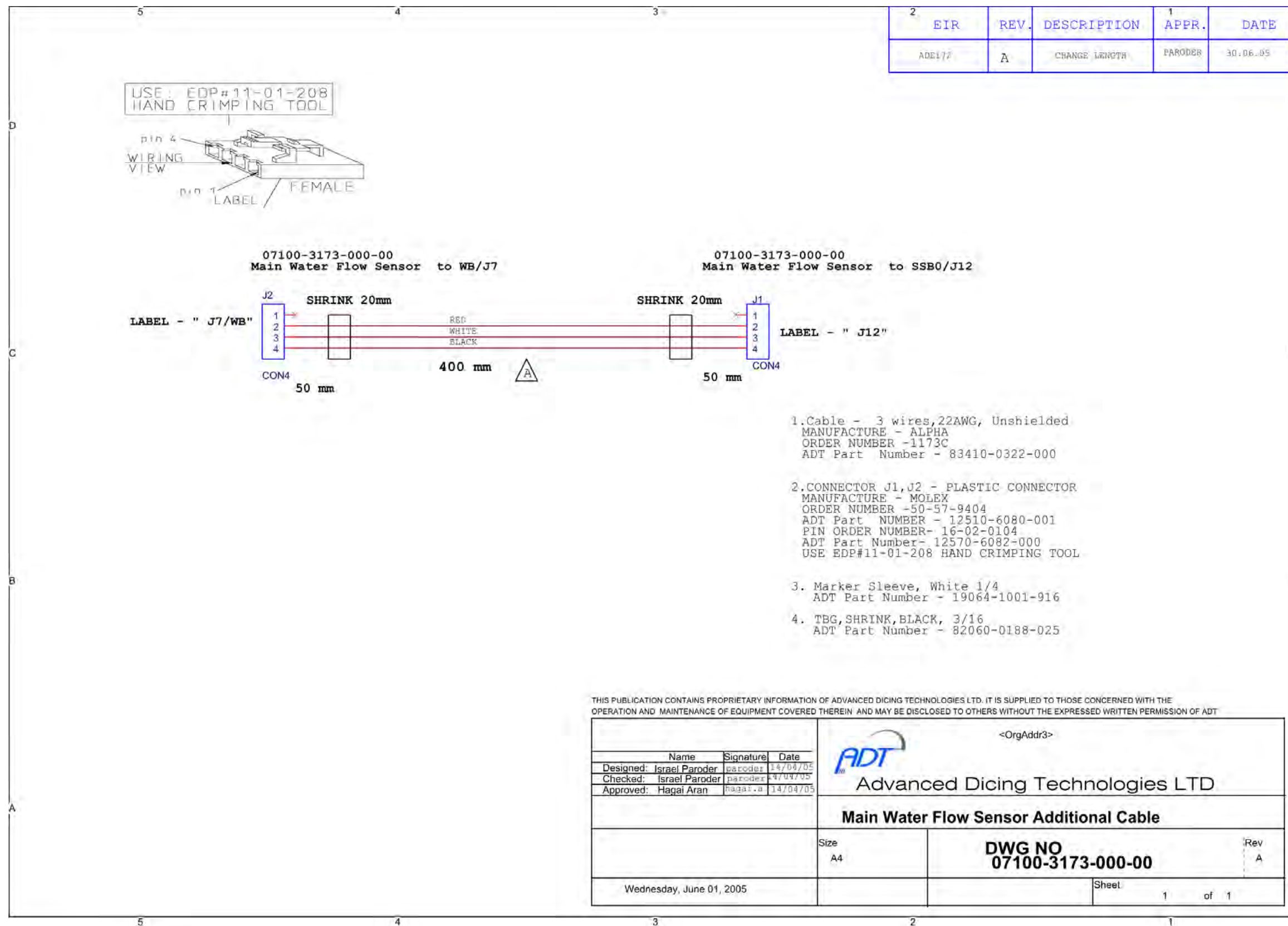
9.39. Main Power Cable 07100-3150-000-01



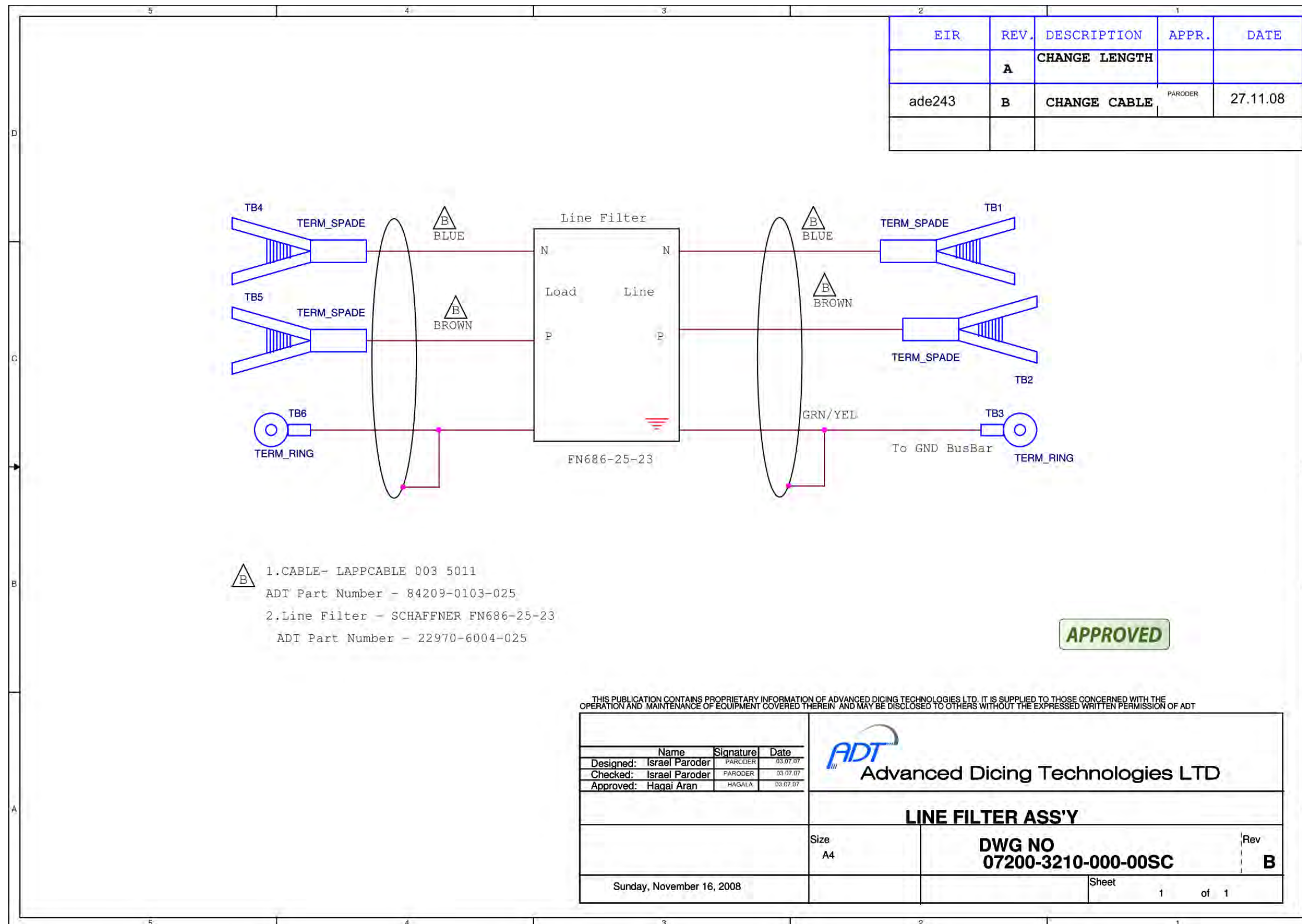
9.40. BBD Extension Cable 07100-3162-000-00



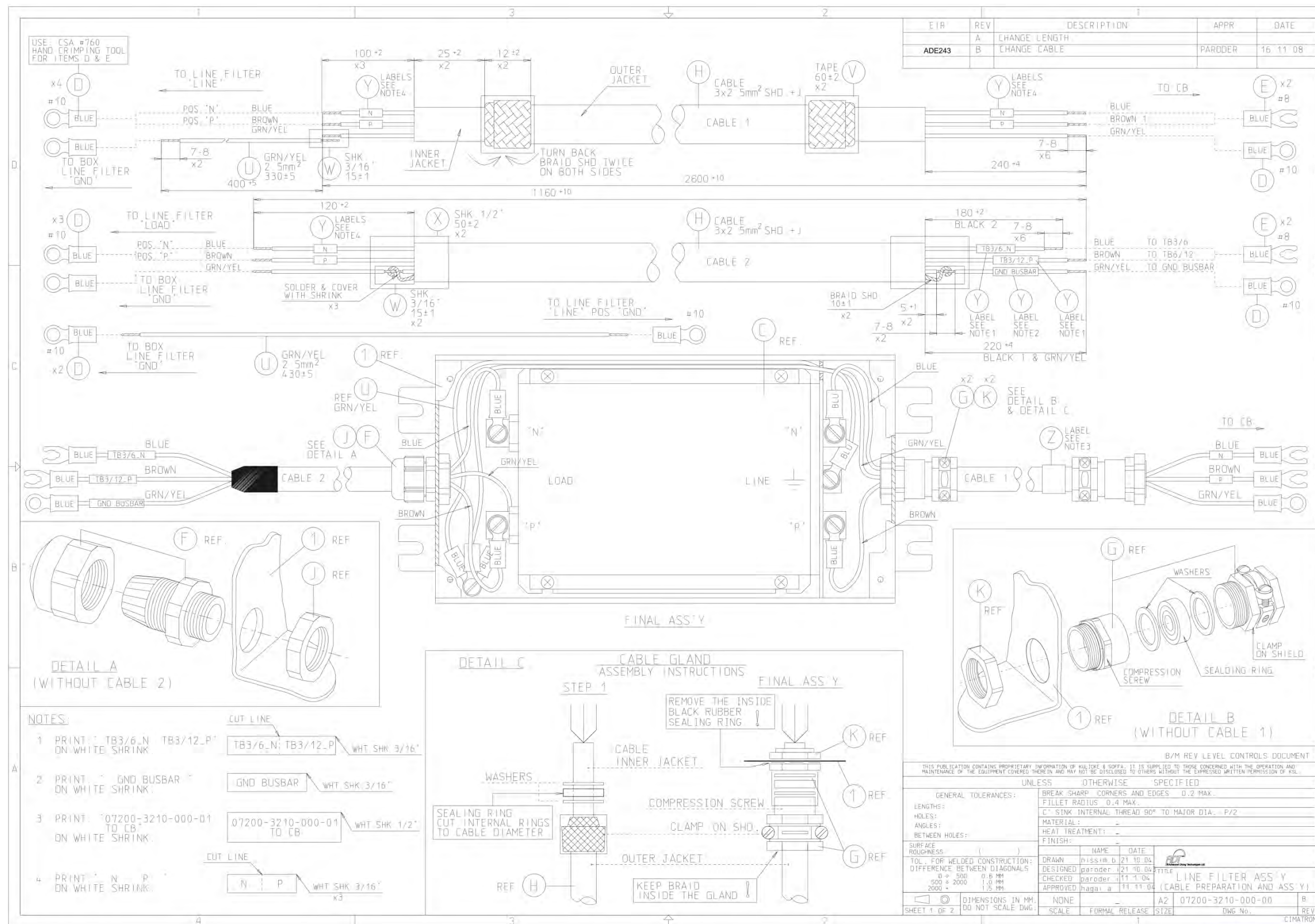
9.41. Main Water Flow Sensor Additional Cable 07100-3173-000-00



9.42. Line Filter Assembly 07200-3210-000-00 (1of2)



9.43. Line Filter Assembly 07200-3210-000-00 (2of2)



9.44. Front Panel 07900-3215-000-00SC

EIR	REV.	DESCRIPTION	APPR.	DATE

THE WIRES TO LPI SHOULD BE ENDED WITH QUICK CONNECT TERMINAL RECEPT
ADT PART NUMBER 16561-6009-000

THE WIRES TO S1 and S2 SHOULD BE ENDED WITH PIN TERMINAL
ADT PART NUMBER 11424-6019-000

EMERGENCY SWITCH
ADT Part Number -10400-1003-000 ZB4 BS14 088882 x1
ADT Part Number -16200-2004-011 ZB4 BS105 088941 x1
ADT Part Number -16200-5006-000 ZB4BZ2005

EMERGENCY STOP
ADT Part Number -16200-5474-000 ZB4 BS7A 1721 x1
ADT Part Number -16200-5005-000 ZBV B1 008961 x1
ADT Part Number -16200-2004-000 ZB4 BS103 x1 3-4

EMERGENCY STOP
ADT Part Number -10400-1003-000 ZB4 BS14 088882 x1
ADT Part Number -16200-2004-011 ZB4 BS105 088941 x1
ADT Part Number -16200-5006-000 ZB4BZ2005

EMERGENCY STOP
ADT Part Number -10400-1003-000 ZB4 BS14 088882 x1
ADT Part Number -16200-2004-011 ZB4 BS105 088941 x1
ADT Part Number -16200-5006-000 ZB4BZ2005

22 mm Mounting Base with Contact Blocks — XB4

► Screw Clamp Terminal Connections
► Choice of Several Contact Configurations
► NC Contacts Are Positive Opening According to the IEC 947-5-1
► 10 Amp, 600 V Contact Ratings

Stock No.	Mfr.'s Type	Circuitry
226-0122	ZB4BZ101	1 NO
226-0123	ZB4BZ102	1 NC
226-0124	ZB4BZ103	2 NO
226-0125	ZB4BZ104	2 NC
226-0126	ZB4BZ105	1 NO, 1 NC

Narrow Flange Guard
Part Number: ZB4BZ2005 Telemecanique
Description: 22mm mounting, plastic mushroom operator guard. For use with ZB4BS3430 EMO Switches
Material: ABS
Color: PMS 108 C (yellow)
Flammability: End product meets 3/4 flame test per UL 746C

Key release
XB4-BS142

EMO

Front Panel
07900-3215-000-00

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Name	Signature	Date											
Designed	Israel Parodis												
Checked	Israel Parodis												
Approved	E. J. Loebiano												

9.45. Blade Breakage Detection Cable 07100-3268-000-00SC

2	EIR	REV.	DESCRIPTION	1	APPR.	DATE

SHARP GL480 - ADT Part Number
55300-0480-000 - LED
SHARP PD410P1 - ADT Part Number
55300-0410-000 - PHD

BBD


REFERENCE ONLY

350 mm

Label - BBD

1	PHOTODIODE ANODE	RED
2	PHOTODIODE CATODE	BLACK
3	LED CATODE	GREEN
4	LED ANODE	WHITE
5		
6		

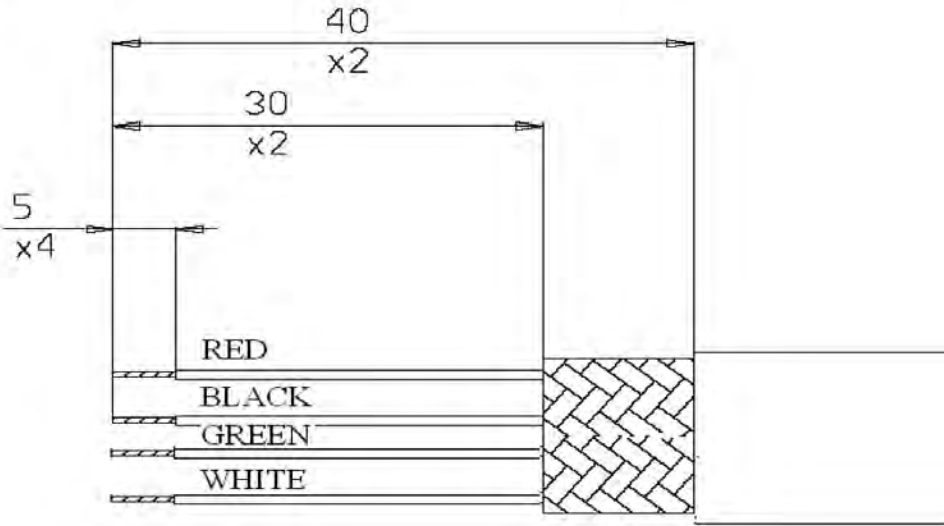
CONNECT CABLE SHIELD
TO CONNECTOR HOOD



**HIROSE LF07WBP-6P
PLUG 6 PIN MALE
ADT P/N 11496-1134-006**


Please use Termination and Assembly Instructions
<http://rocky.digikey.com/WebLib/Hirose/Web%20Data/LF%20Series.pdf>

1. J1- Waterproof Shielded 6pin, Male Connector
Manufacture - HIROSE
Order Number - LF07WBP-6P
ADT P/N - 11496-1134-006
2. Connect Cable Shield to J1 Connector
Tape, EMI/RFI
ADT Part Number - 19083-6037-000
3. Cable - 4 Wires, 26 AWG, Shielded, Flexible
Manufacture - ALPHA
Order Number - 86104CY
ADT Part Number - 83410-0426-204
4. TBG, SHRINK, transparent
Manufacture - ALPHA
Order Number - TFT-200-16
ADT Part Number - 82609-0053-012

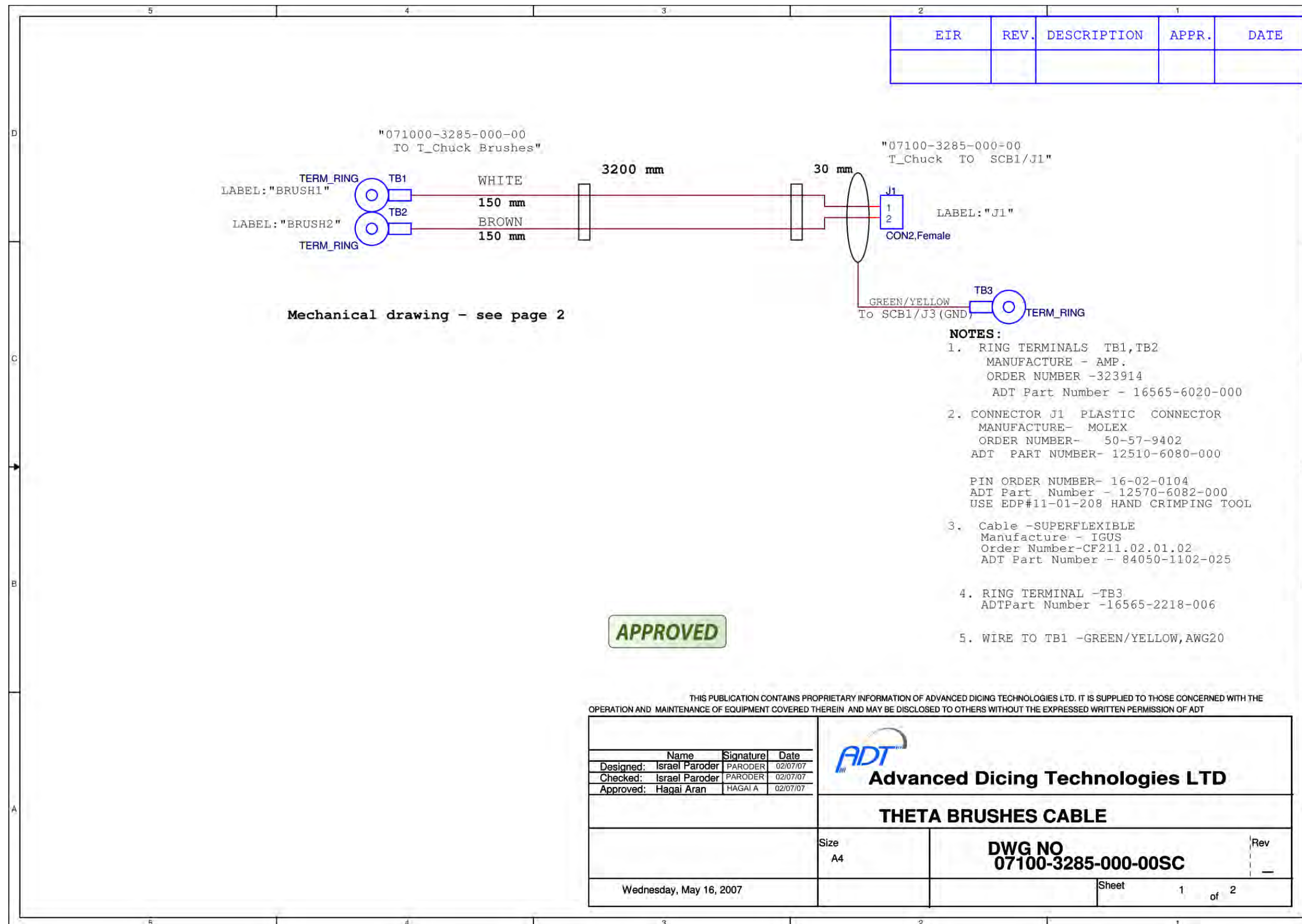


APPROVED

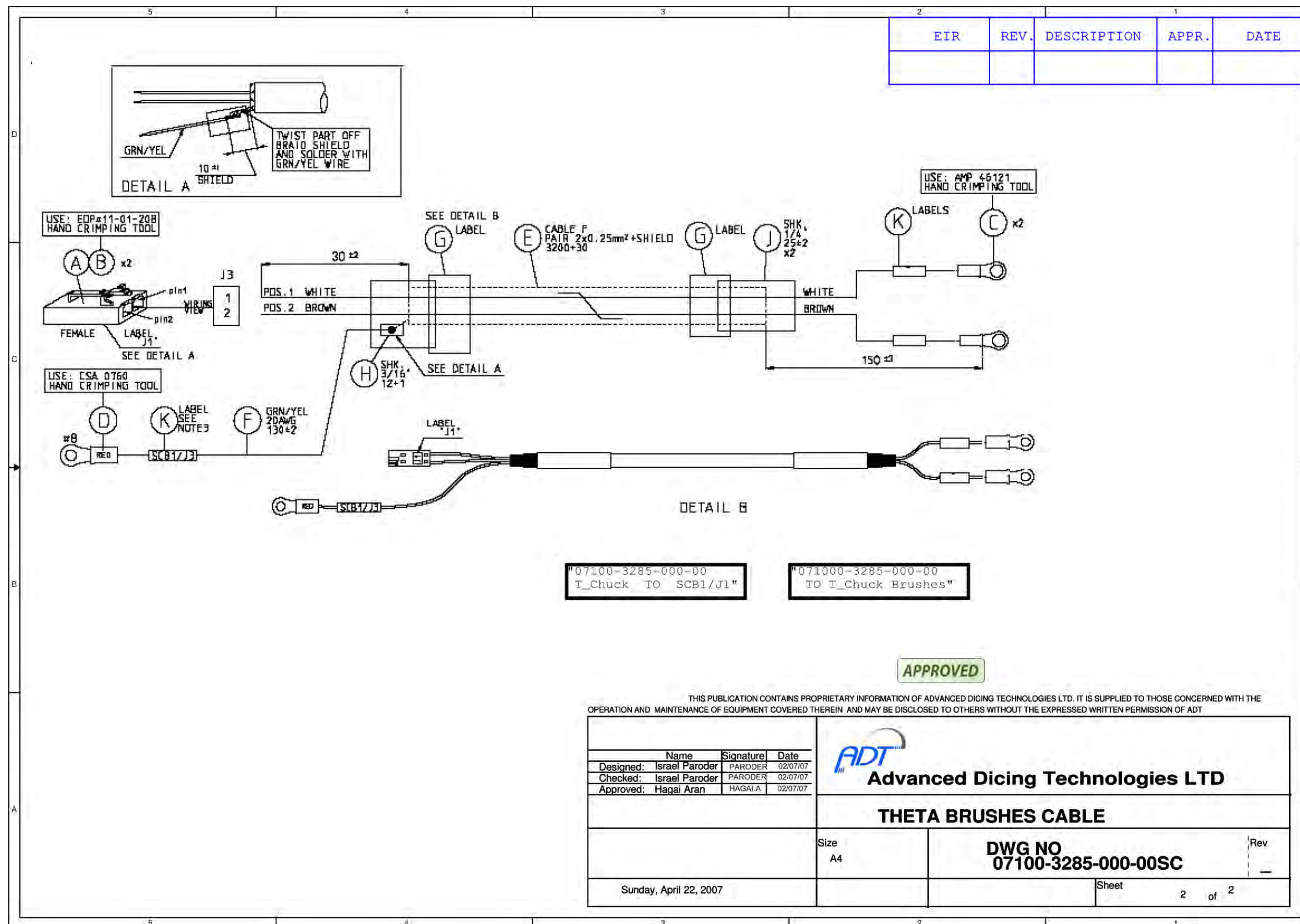
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	<p><OrgAddr3></p>  <p>Advanced Dicing Technologies LTD</p>	
	<p>BLADE BREAKAGE DETECTION CABLE</p>	
	<p>Size A4</p>	<p>DWG NO 07100-3268-000-00SC</p>
<p>Tuesday, May 09, 2006</p>		<p>Sheet 1 of 1</p>

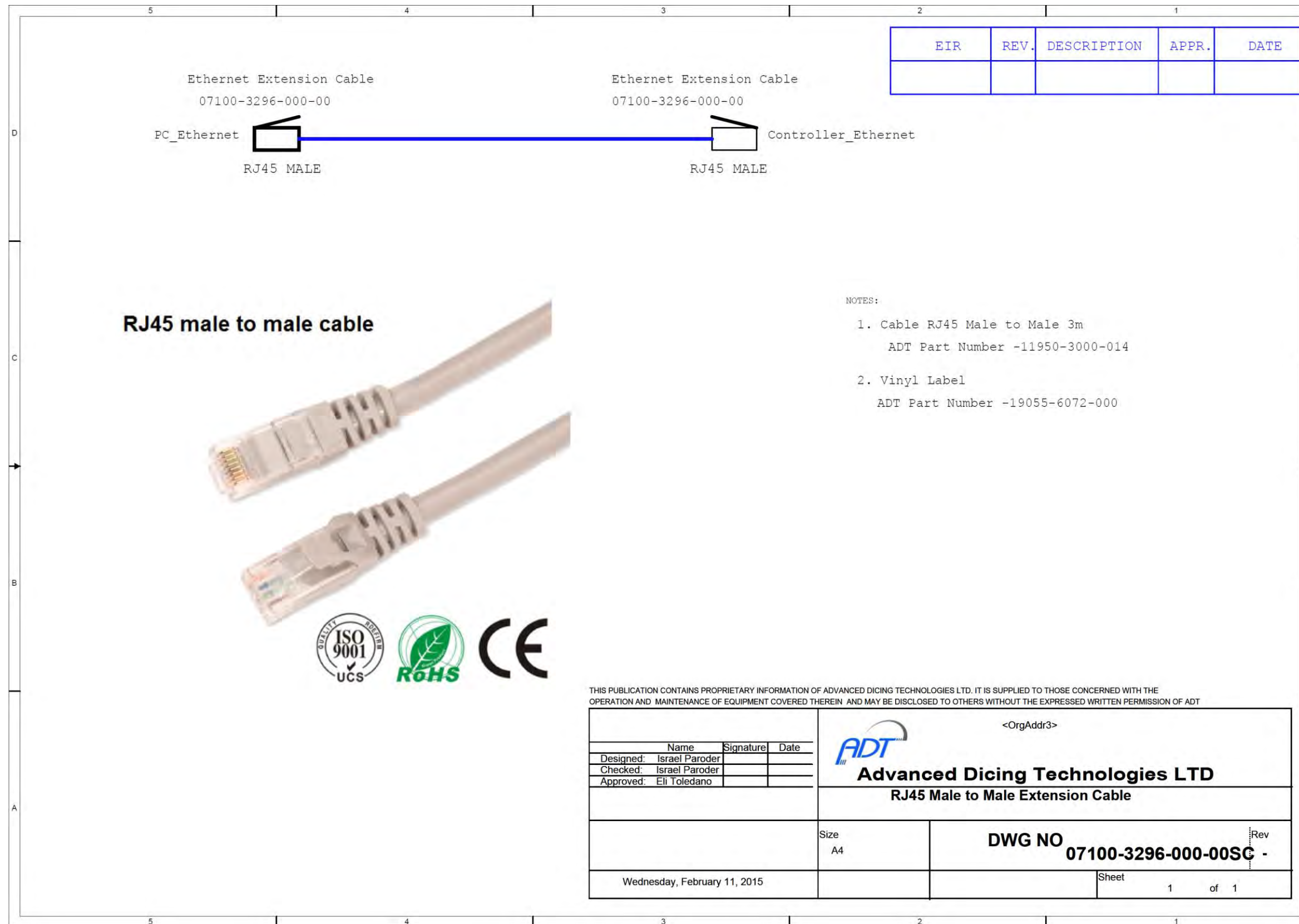
9.46. Theta Brushes Cable 07100-3285-000-00SC (1of2)



9.47. Theta Brushes Cable 07100-3285-000-00SC (2of2)



9.48. Ethernet Cable for New Controller 07100-3296-000-00



9.49. Traffic Light with Buzzer 07100-3339-000-00

EIR	REV.	DESCRIPTION	APPR.	DATE

**07100-3339-000-00
TOWER LIGHT**

400 mm - REFERENCE ONLY

TRAFFIC LIGHT (LED's)
WITH BUZZER

350 mm

40 mm

CONS, MALE

USE: AMP 722560
HAND CRIMPING TOOL

WIRING VIEW

5 pin

1 pin

MALE

SPECIFICATION

ST45L-Led. Small Size Signal Tower Lamp

Model No.	Layer	Use Voltage	LED	Color of Globe	Flashes Per Min.
ST45L: Lighting	1	DC12V	6EA	Red	ST45LF 80-100/min
		DC24V			
		AC110V			
ST45L-BZ: Lighting With Buzzer	2	DC12V	12EA	Red Amber	
		DC24V			
		AC110V			
ST45LF: Flickering	3	DC12V	15EA	Red Amber Green	
		DC24V			
		AC110V			
ST45LF-BZ: Flickering With Buzzer	3	DC12V	15EA	Red Amber Green	
		DC24V			
		AC110V			

Light Current(1 Layer)				
Use Voltage	AC/DC 12V	AC/DC 24V	AC 110V	AC 220V
Light Current	max.60mA	max.45mA	max.24mA	max.12mA
Buzzer Line Current	max.100mA			

Company	Q-Light Co., Ltd.
Address	178-1, Ugye-ri, Sangdong-myeon Gimhae-si Gyeongsangnam-do 178-1 Korea
Phone	82- 55- 3284082
Fax	82- 55- 3284083
Homepage	www.qlightkr.com
Contact	JH Kim / Assistant Manager

NOTES:

- TL1 - Traffic light with buzzer
Manufacture - Q-Light
Order Number - ST45L-BZ-3-24V-SZ18
ADT Part Number - 13100-0030-000
- J1 - Plastic Connector, 5 Pin, Male
Manufacture - AMP
Order Number - 172211-5
ADT Part Number - 11500-0010-005
Pin Order Number - 170429-2
ADT Part Number - 11550-6074-000
- TBG, SHRINK, BLACK
ADT Part Number - 82720-0208-020
- Marker Sleeve, White 3/8
ADT Part Number - 19064-1001-924

APPROVED

ST45L-BZ-3-DC24V-SZ18
ADT P/N -13100-0030-000

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Name	Signature	Date
Designed: Israel Paroder		28.08.08
Checked: Israel Paroder		28.08.08
Approved: Hagai Aran		28.08.08

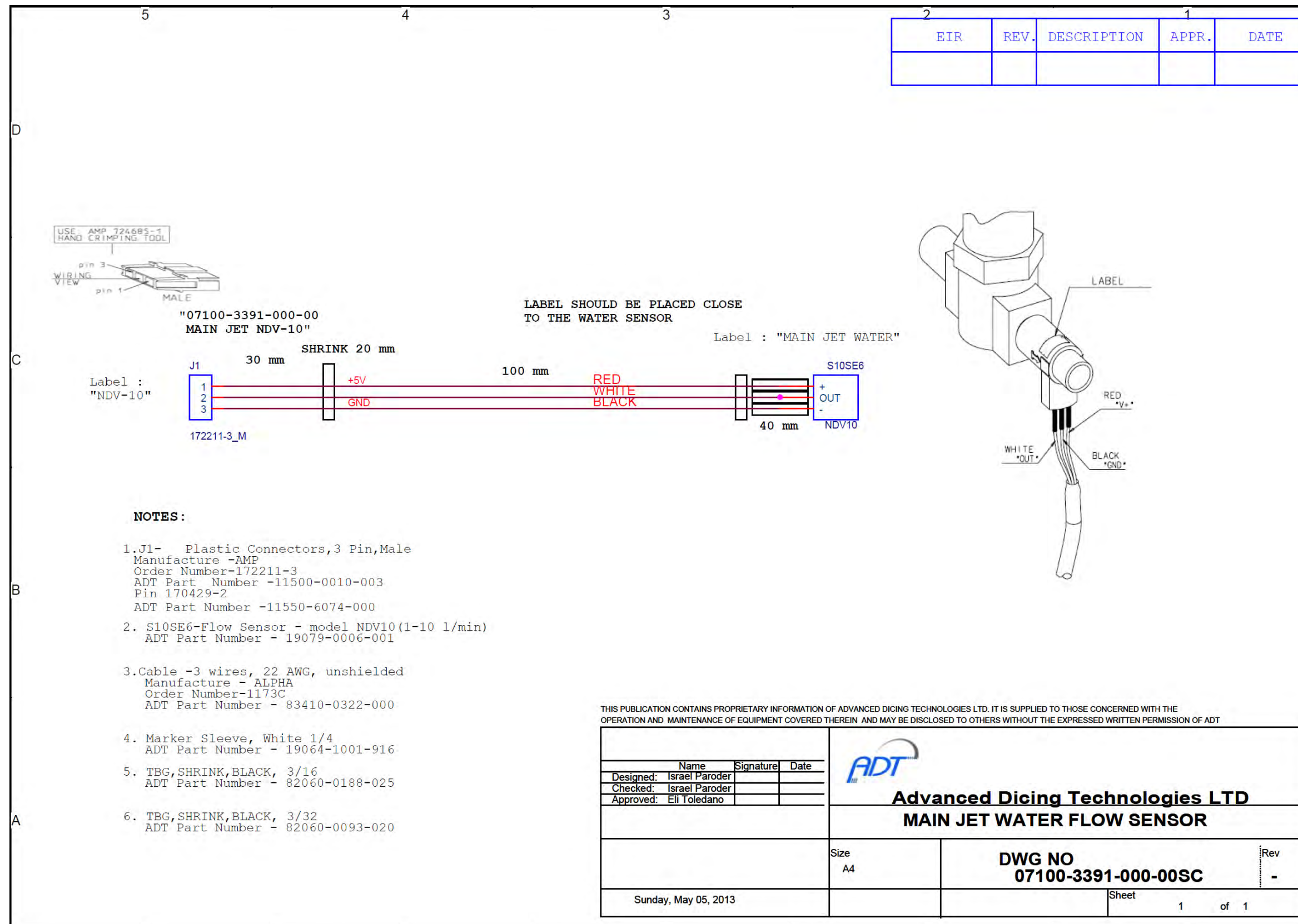
Advanced Dicing Technologies LTD

TRAFFIC LIGHT (LED's) WITH BUZZER

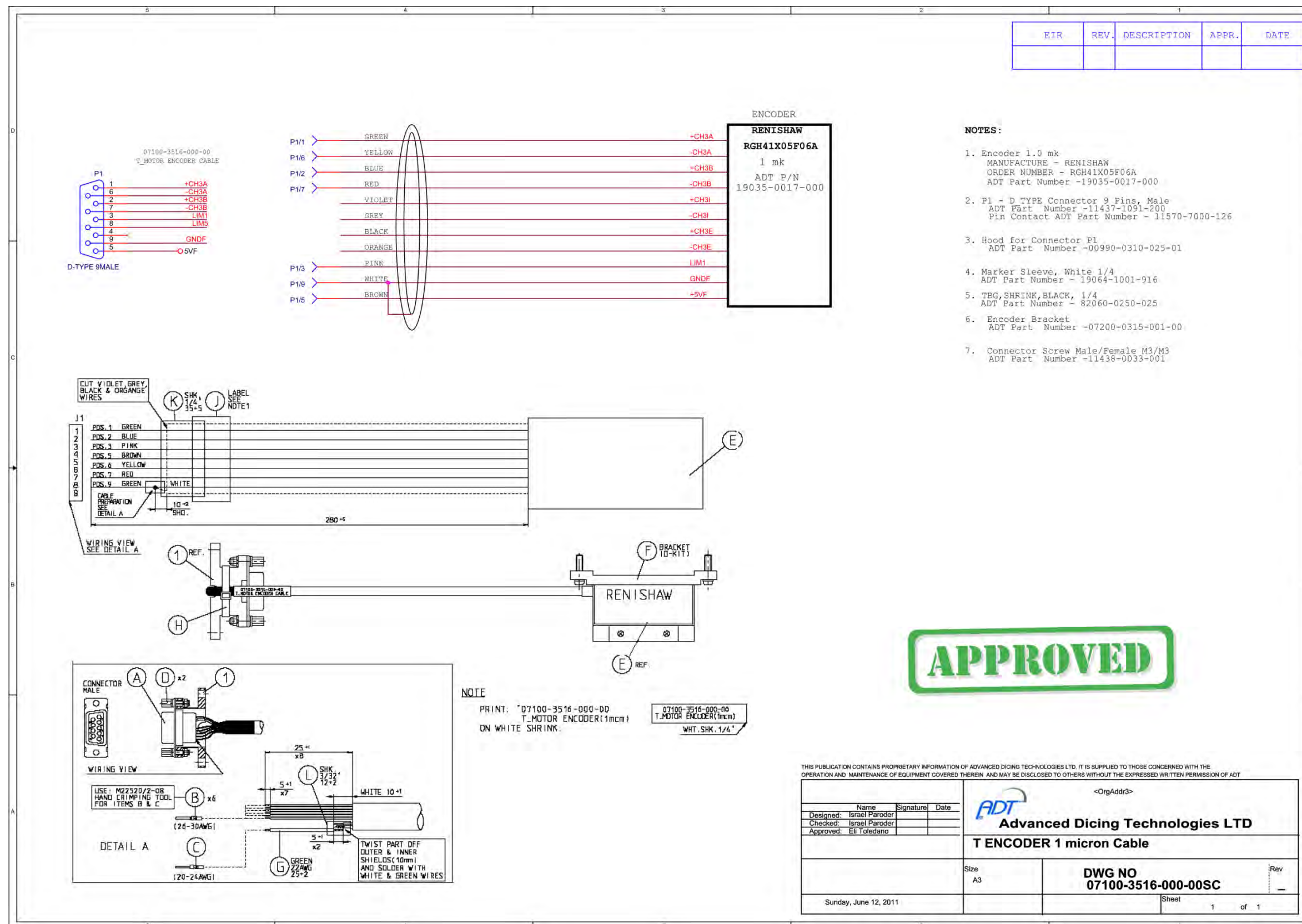
DWG NO
07100-3339-000-00

Thursday, July 10, 2008

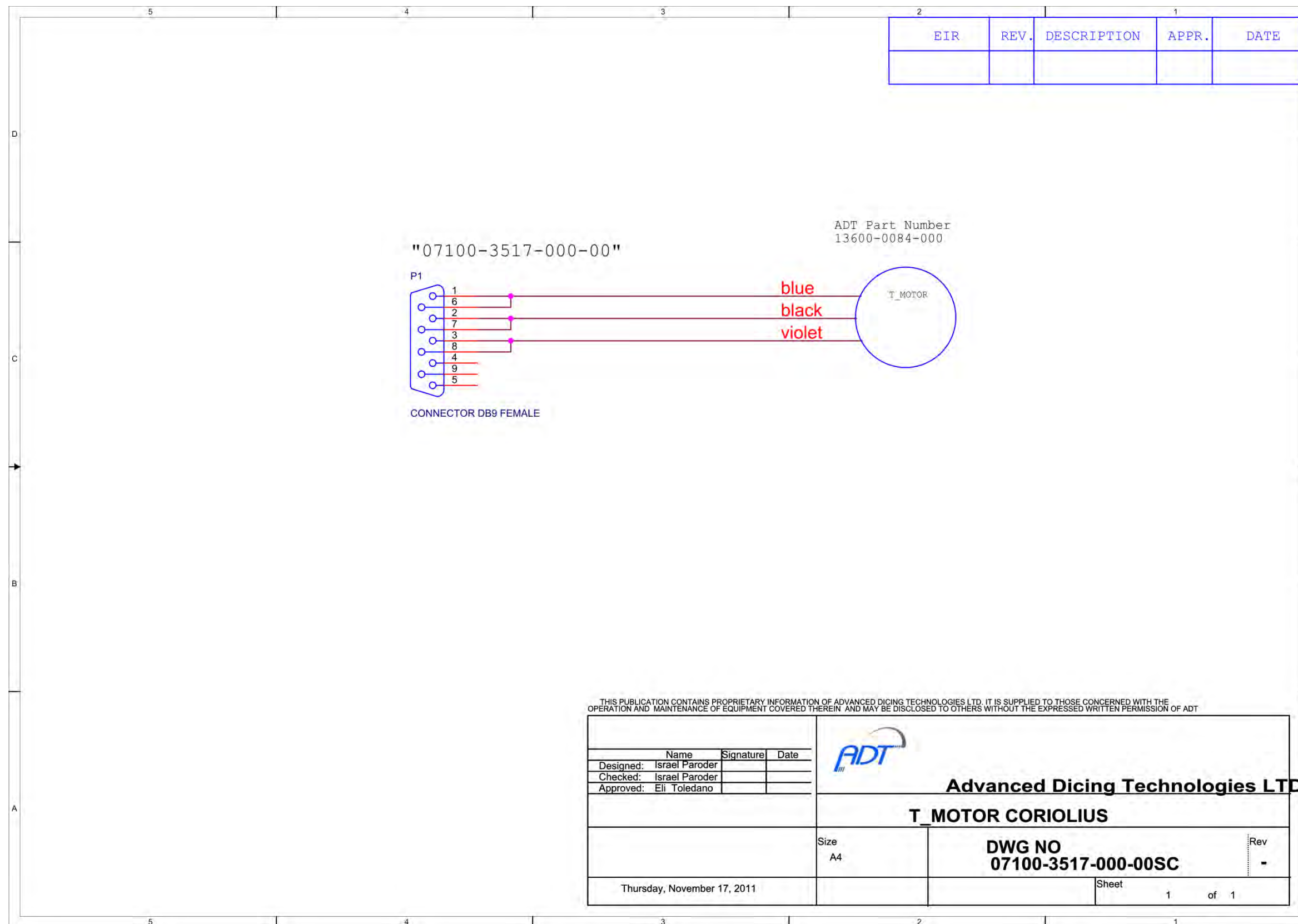
9.50. Main Jet Water Flow Sensor 07100-3391-000-00SC



9.51. T-Motor Encoder 1-micron Cable 07100-3516-000-00




9.53. T-Motor Cable 07100-3517-000-00



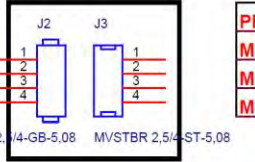
9.54. Theta Sol Motor Cable 07100-3526-000-00

EIR	REV.	DESCRIPTION	APPR.	DATE



J8

1	PTC
2	PTC
3	N/C
4	N/C
5	PE
6	M1
7	M2
8	M3

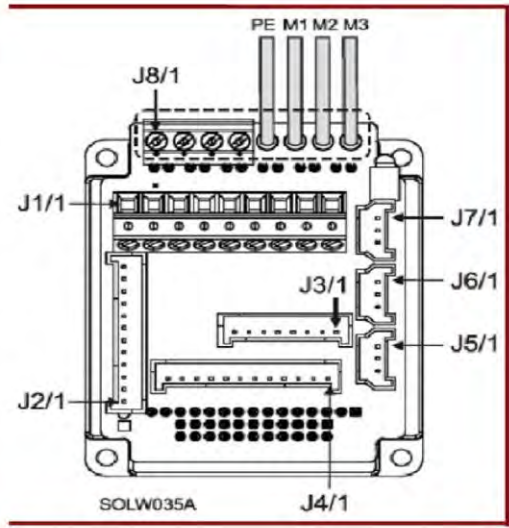


put label to J3

PE
M1
M2
M3


NOTES:

- Driver Servomotor 16A 60V
Manufacture - ELMO.
Order Number - SOL-WHI15/60E04
ADT Part Number - 13600-0093-000
- CONNECTOR J2 - Plug Male 4 Pos 90 ° Direct Mounting
MANUFACTURE - PHOENIX CONTACT
ORDER NUMBER - MVSTBU 2,5/4-GB-5,08 1788554
ADT Part Number -16400-4043-004
- CONNECTOR J3 - Plug Female 4 Pos 90 °
MANUFACTURE - PHOENIX CONTACT
ORDER NUMBER - MVSTBR 2,5/4-ST-5,08 1792265
ADT Part Number -16400-4040-004

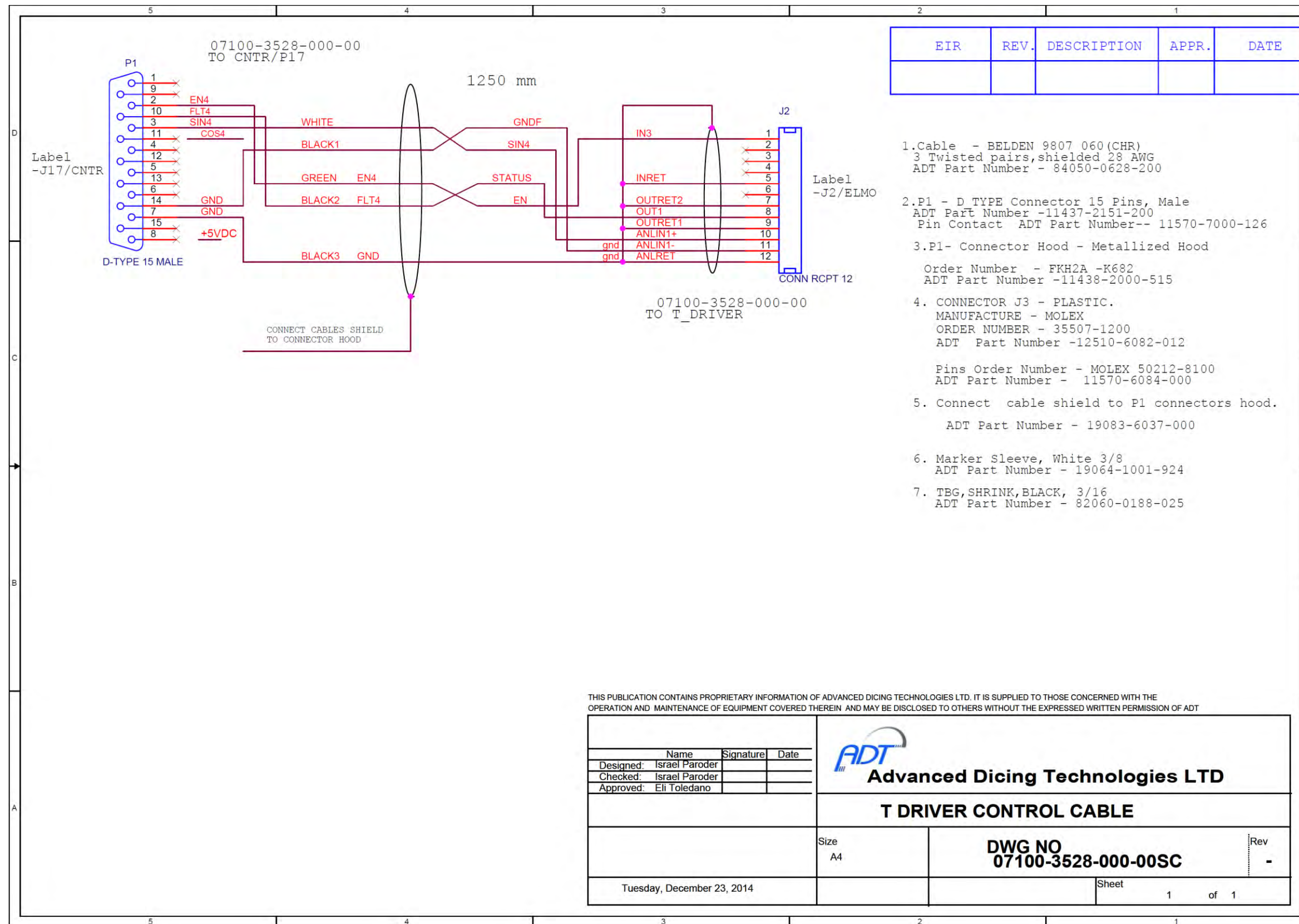


SOLW035A

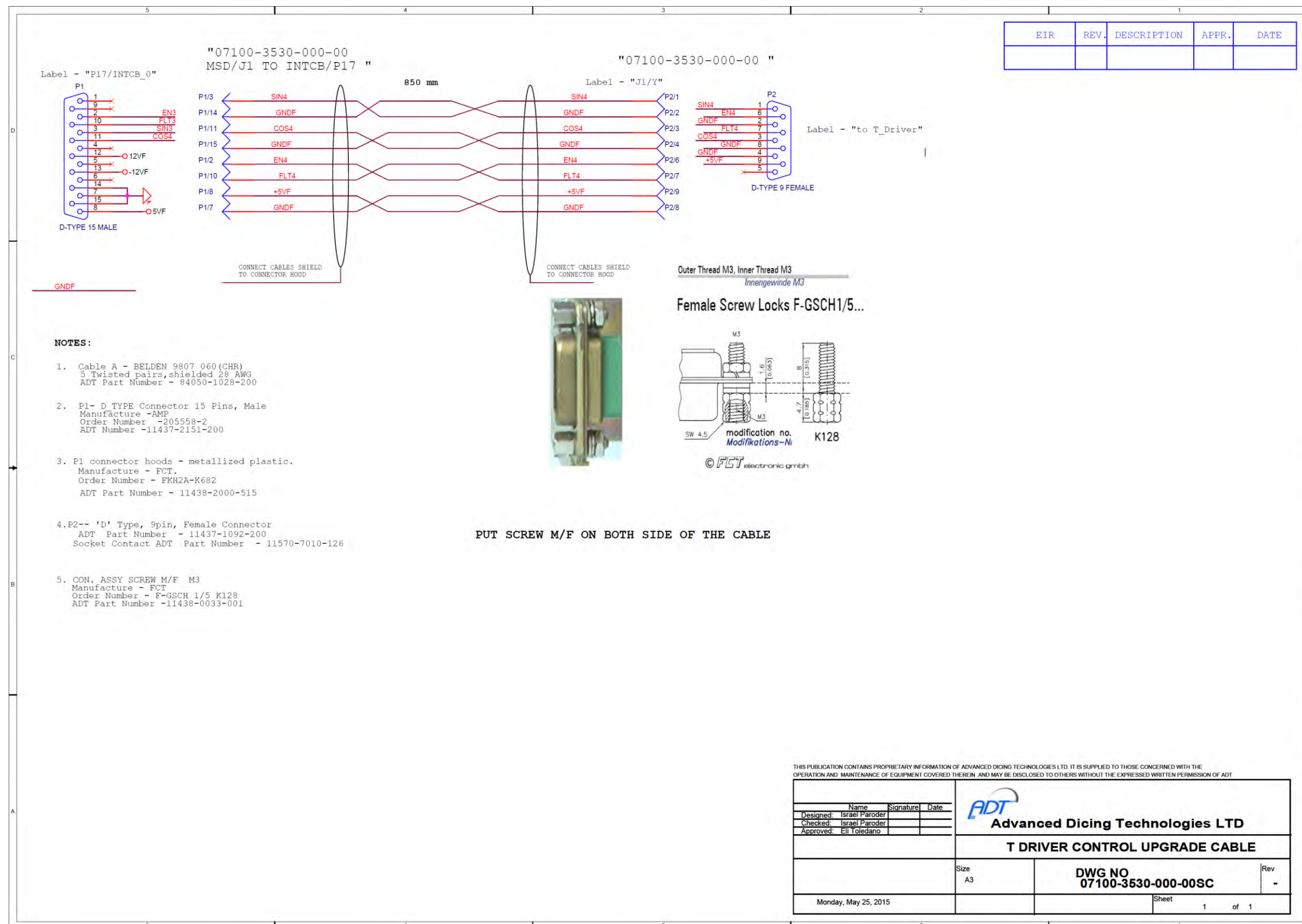
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Name _____ Signature _____ Date _____			<OrgAddr3>	
Designed: Israel Paroder			 Advanced Dicing Technologies LTD T_MOTOR Sol DRIVER CABLE	
Checked: Israel Paroder				
Approved: Eli Toledano				
Size A3		DWG NO 07100-3526-000-00SC		Rev
Tuesday, April 14, 2015		Sheet 1 of 1		-

9.55. T Driver Control Cable 07100-3528-000-00



9.56. Theta Flu Driver Cable (Old Controller) 07100-3530-000-00



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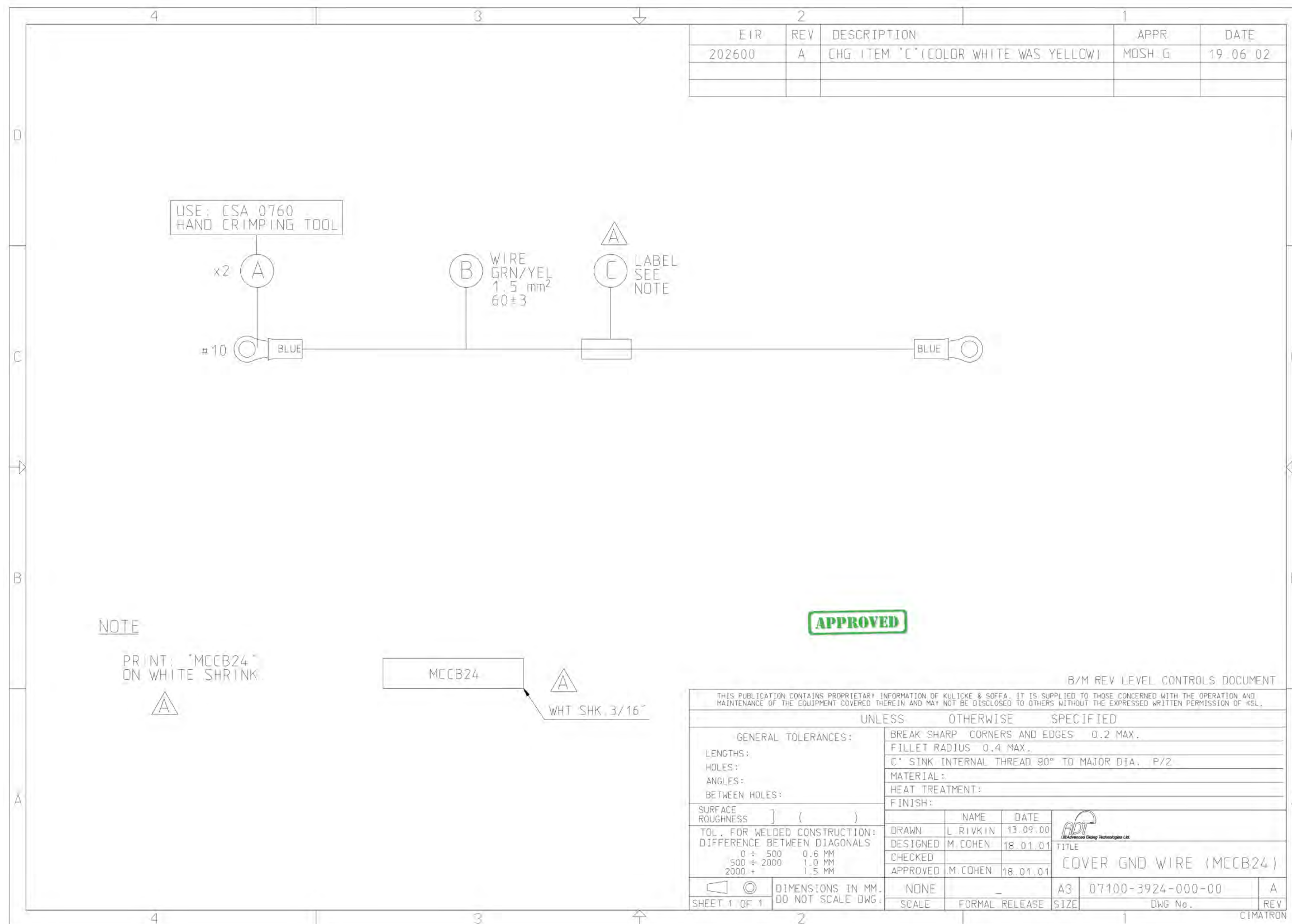
Name	Signature	Date
Designed: Israel Paroder		
Checked: Israel Paroder		
Approved: Eli Toledano		

ADT
Advanced Dicing Technologies LTD

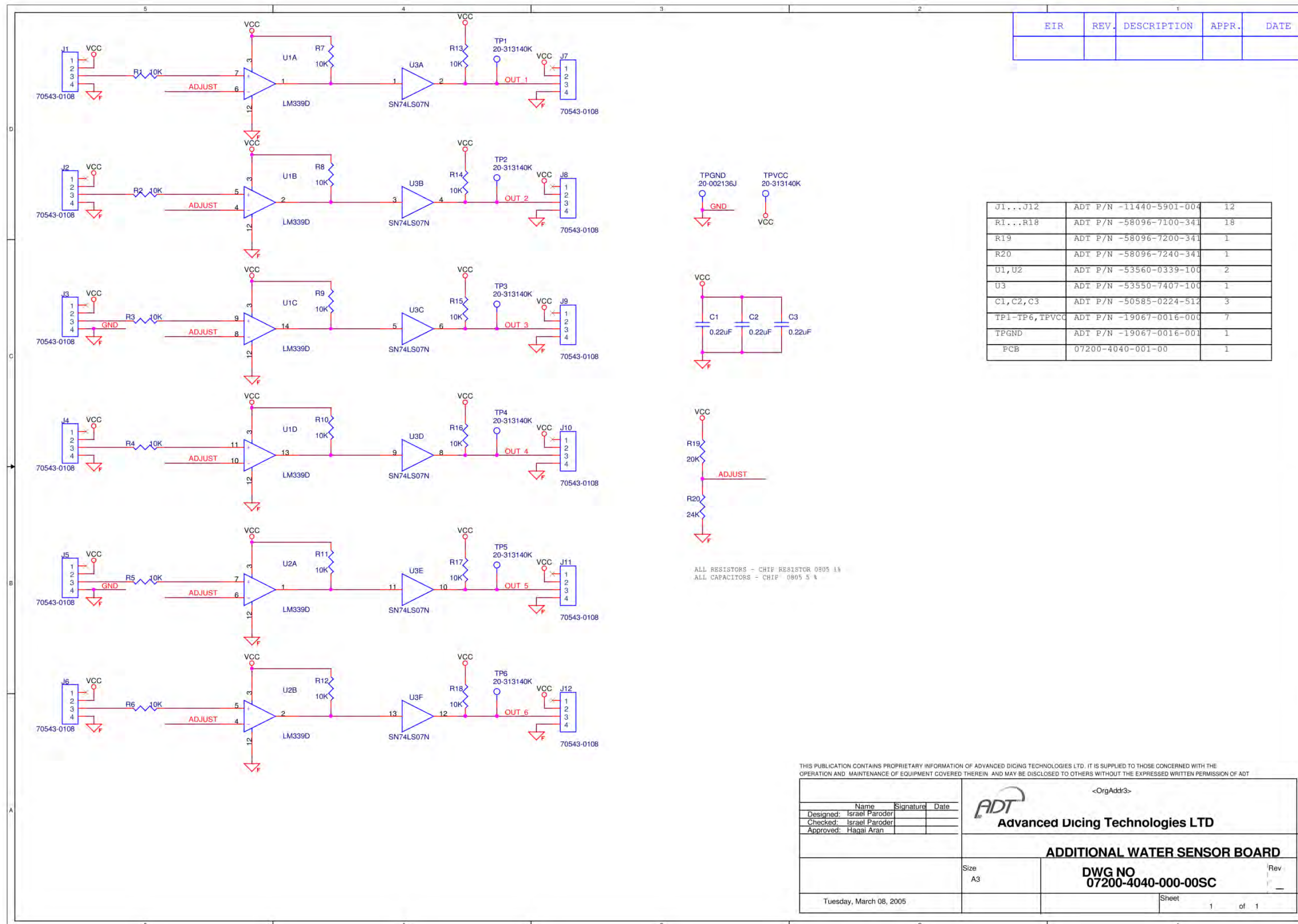
T DRIVER CONTROL UPGRADE CABLE

Size A3	DWG NO 07100-3530-000-00SC	Rev -
Monday, May 25, 2015	Sheet	1 of 1

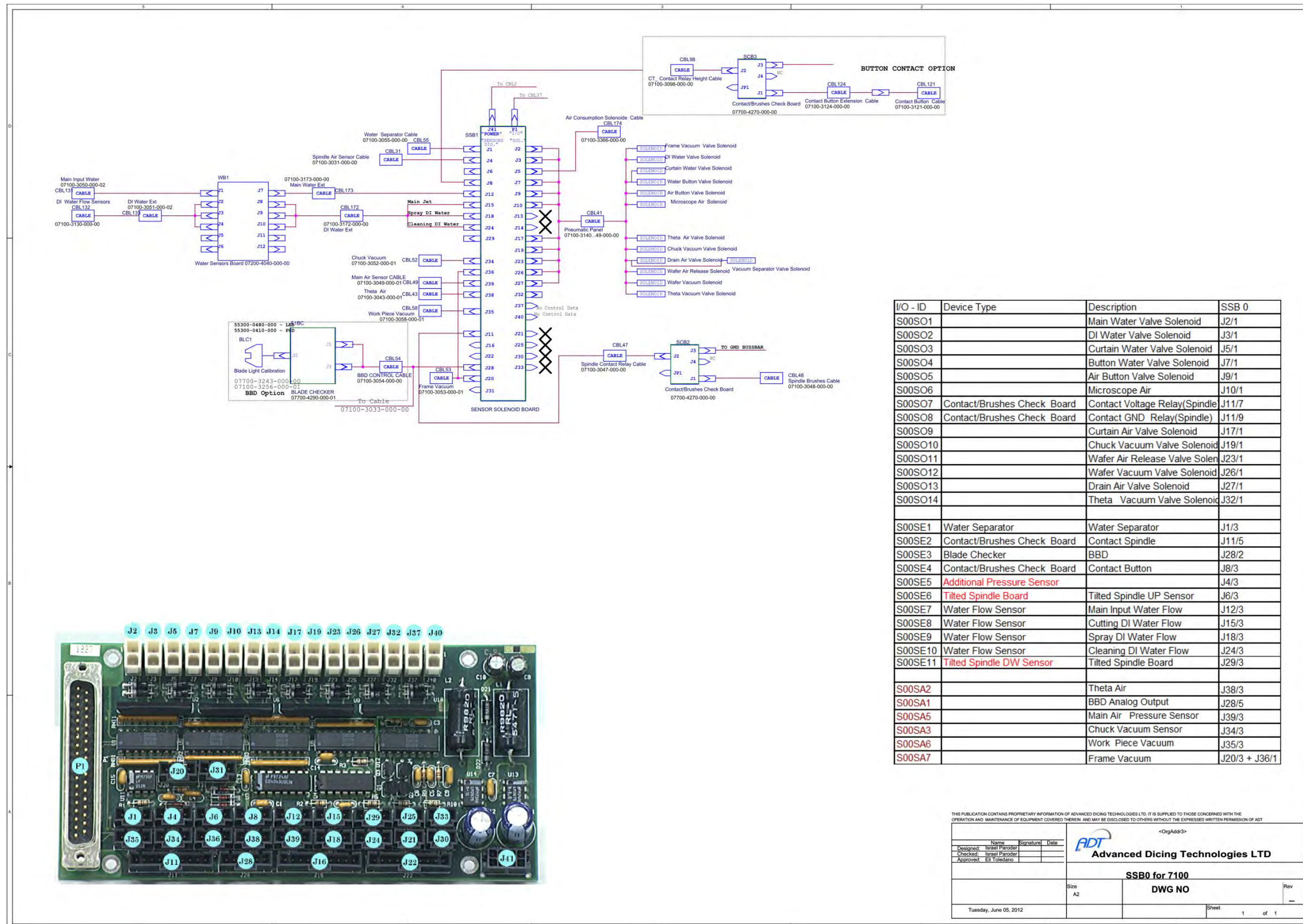
9.57. Cover GND Wire 07100-3924-000-00



9.58. Water Sensors Board 07200-4040-000-00



9.59. Sensor & Solenoid Board – 0 for 71XX



I/O - ID	Device Type	Description	SSB 0
S00S01		Main Water Valve Solenoid	J2/1
S00S02		DI Water Valve Solenoid	J3/1
S00S03		Curtain Water Valve Solenoid	J5/1
S00S04		Button Water Valve Solenoid	J7/1
S00S05		Air Button Valve Solenoid	J9/1
S00S06		Microscope Air	J10/1
S00S07	Contact/Brushes Check Board	Contact Voltage Relay/Spindle	J11/7
S00S08	Contact/Brushes Check Board	Contact GND Relay(Spindle)	J11/9
S00S09		Curtain Air Valve Solenoid	J17/1
S00S10		Chuck Vacuum Valve Solenoid	J19/1
S00S11		Wafer Air Release Valve Solenoid	J23/1
S00S12		Wafer Vacuum Valve Solenoid	J26/1
S00S13		Drain Air Valve Solenoid	J27/1
S00S14		Theta Vacuum Valve Solenoid	J32/1
S00SE1	Water Separator	Water Separator	J1/3
S00SE2	Contact/Brushes Check Board	Contact Spindle	J11/5
S00SE3	Blade Checker	BBD	J28/2
S00SE4	Contact/Brushes Check Board	Contact Button	J8/3
S00SE5	Additional Pressure Sensor		J4/3
S00SE6	Tilted Spindle Board	Tilted Spindle UP Sensor	J6/3
S00SE7	Water Flow Sensor	Main Input Water Flow	J12/3
S00SE8	Water Flow Sensor	Cutting DI Water Flow	J15/3
S00SE9	Water Flow Sensor	Spray DI Water Flow	J18/3
S00SE10	Water Flow Sensor	Cleaning DI Water Flow	J24/3
S00SE11	Tilted Spindle DW Sensor	Tilted Spindle Board	J29/3
S00SA2		Theta Air	J38/3
S00SA1		BBD Analog Output	J28/5
S00SA5		Main Air Pressure Sensor	J39/3
S00SA3		Chuck Vacuum Sensor	J34/3
S00SA6		Work Piece Vacuum	J35/3
S00SA7		Frame Vacuum	J20/3 + J36/1

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Designated: Israel Paroder
Checked: Israel Paroder
Approved: Eli Toledano

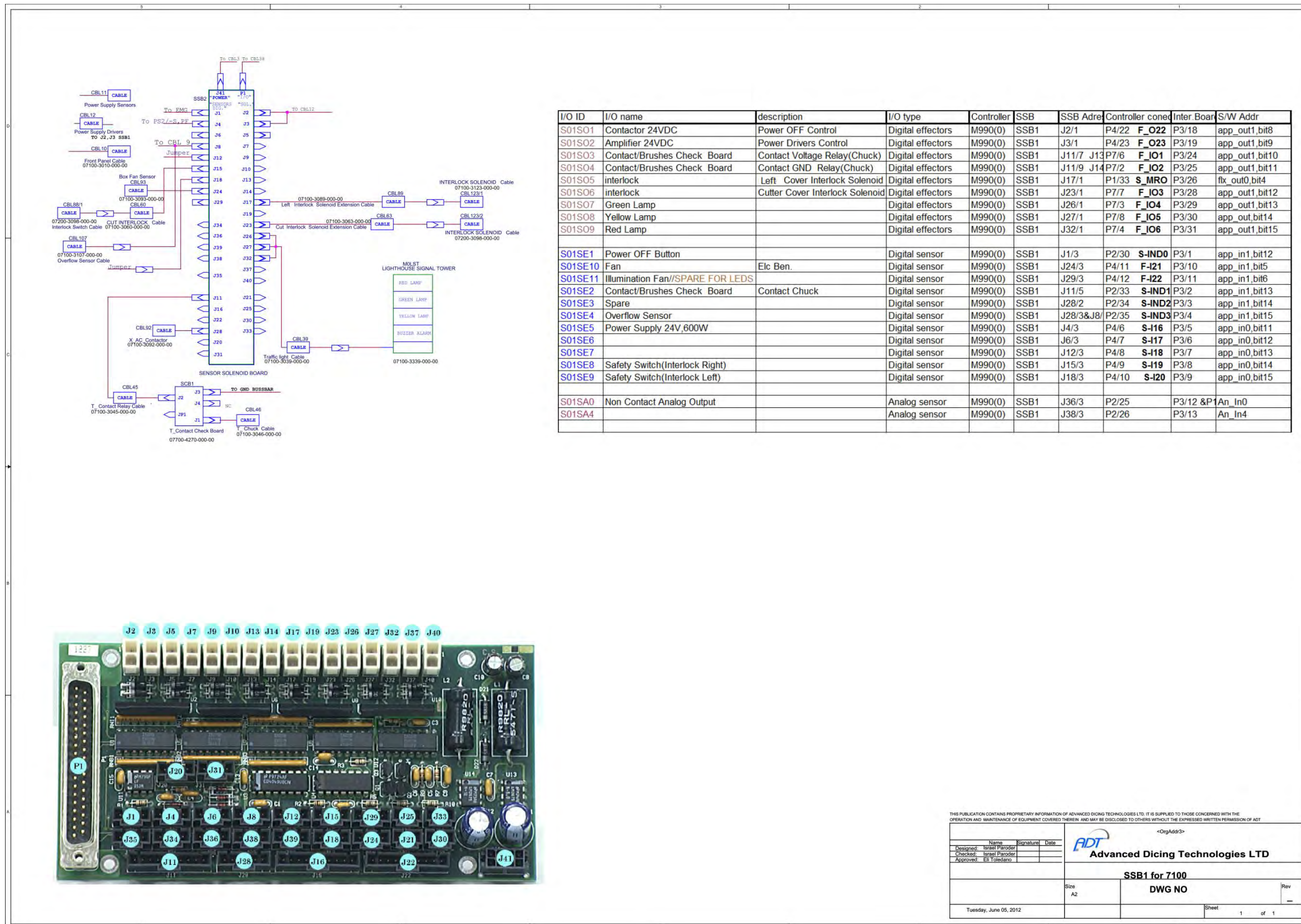
Advanced Dicing Technologies LTD

SSB0 for 7100
DWG NO

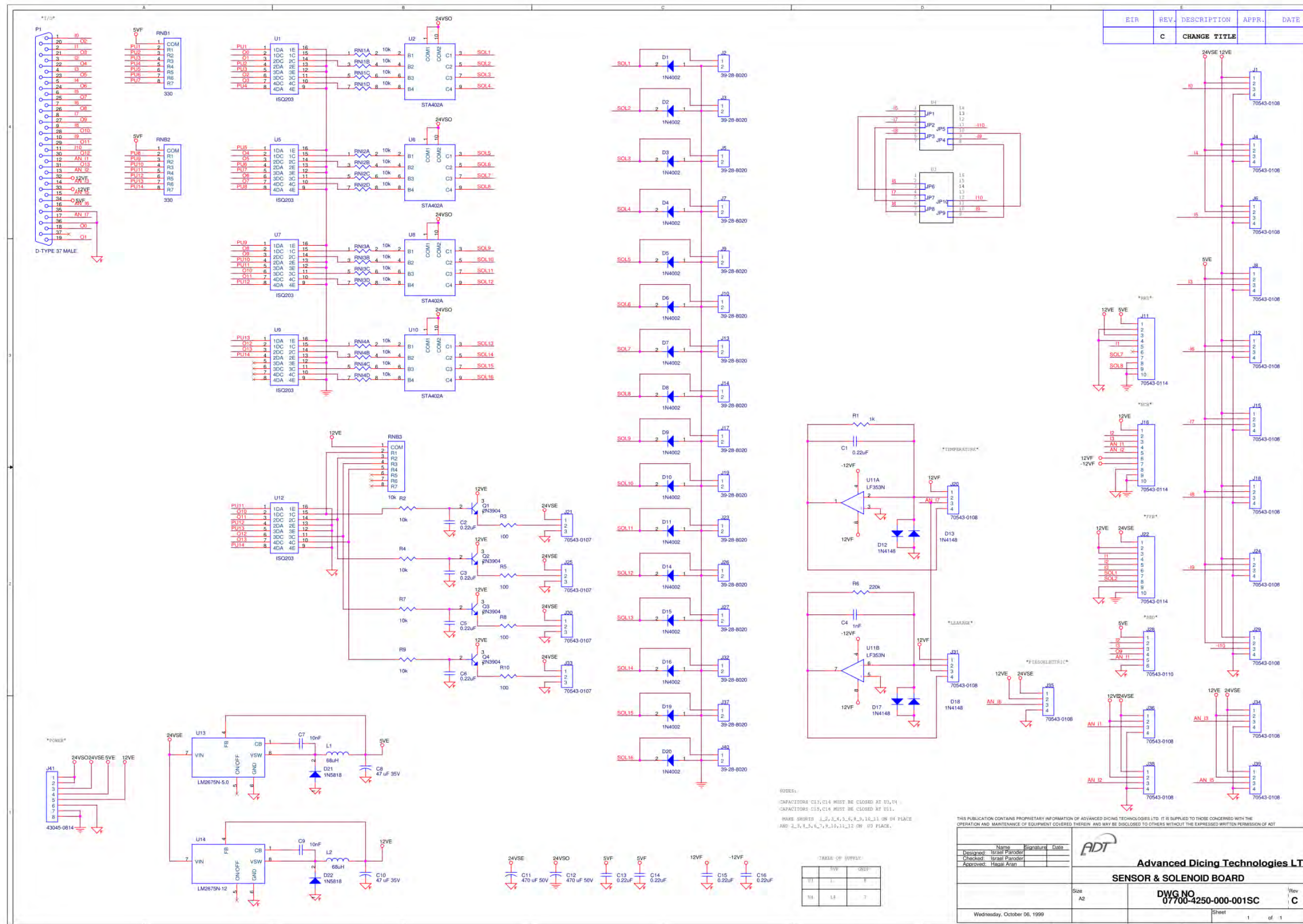
Tuesday, June 05, 2012

Sheet 1 of 1

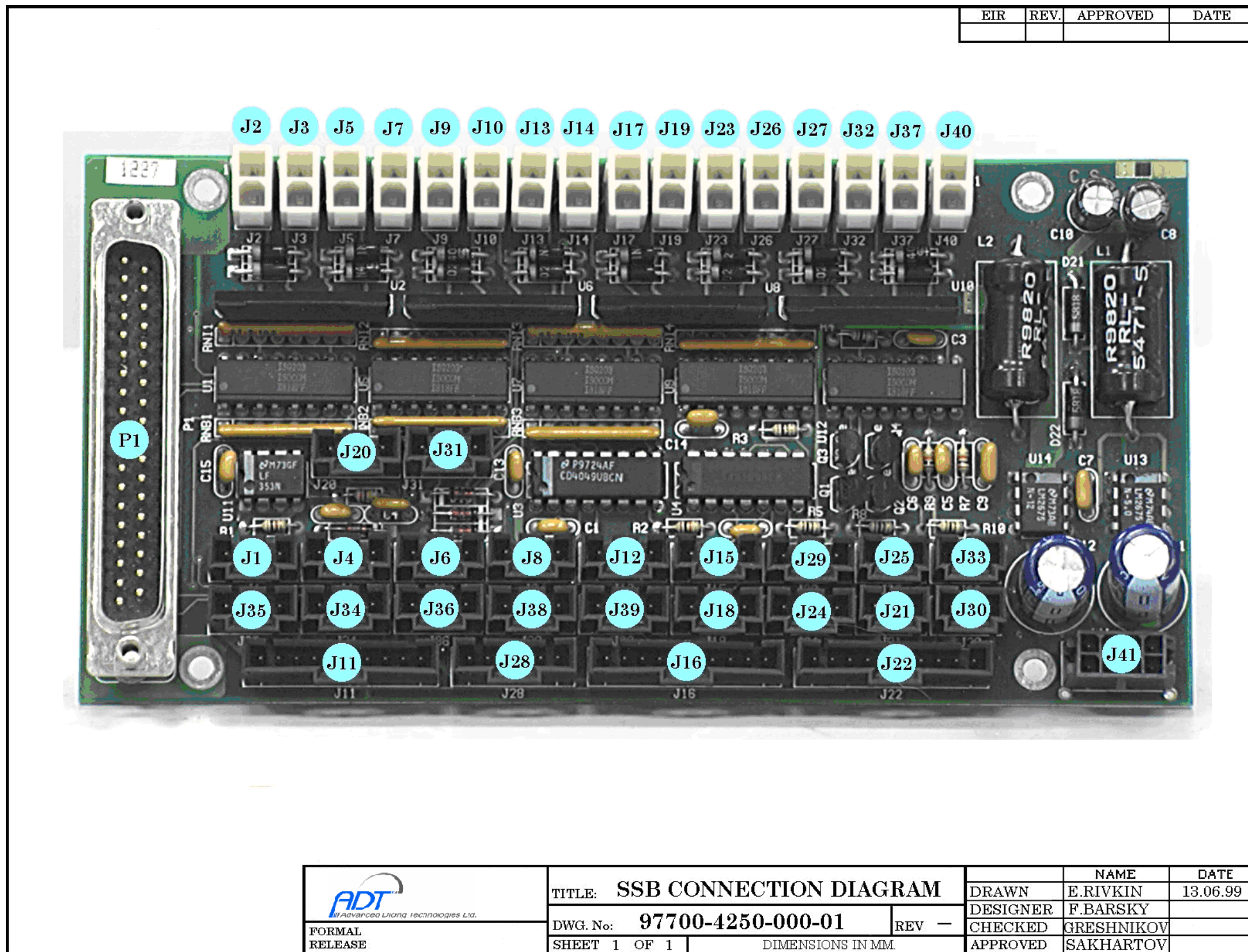
9.60. Sensor & Solenoid Board – 1 for 71XX



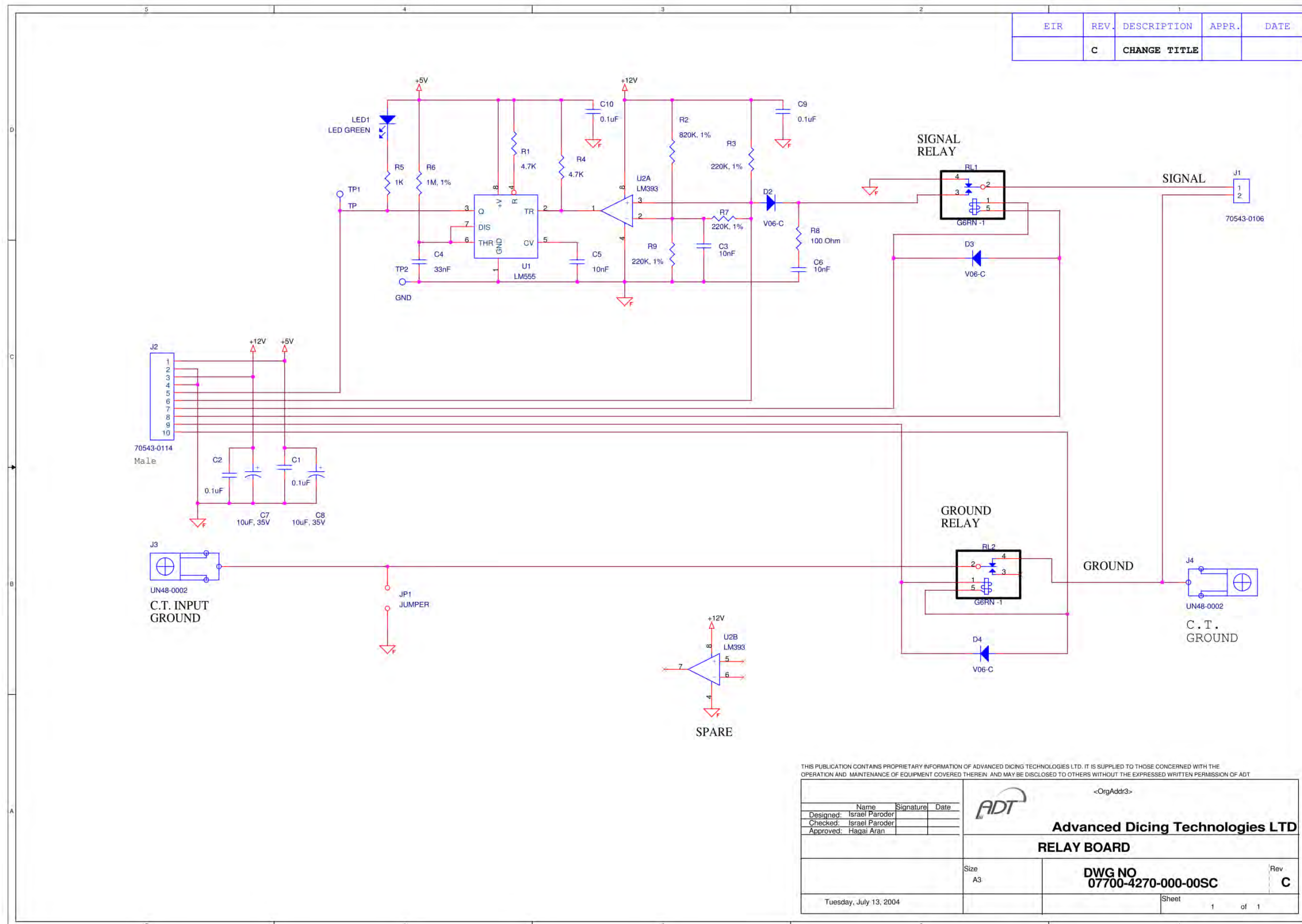
9.61. Sensor & Solenoid Board 07700-4250-000-001SC




9.62. SSB Connection Diagram 97700-4250-00-01



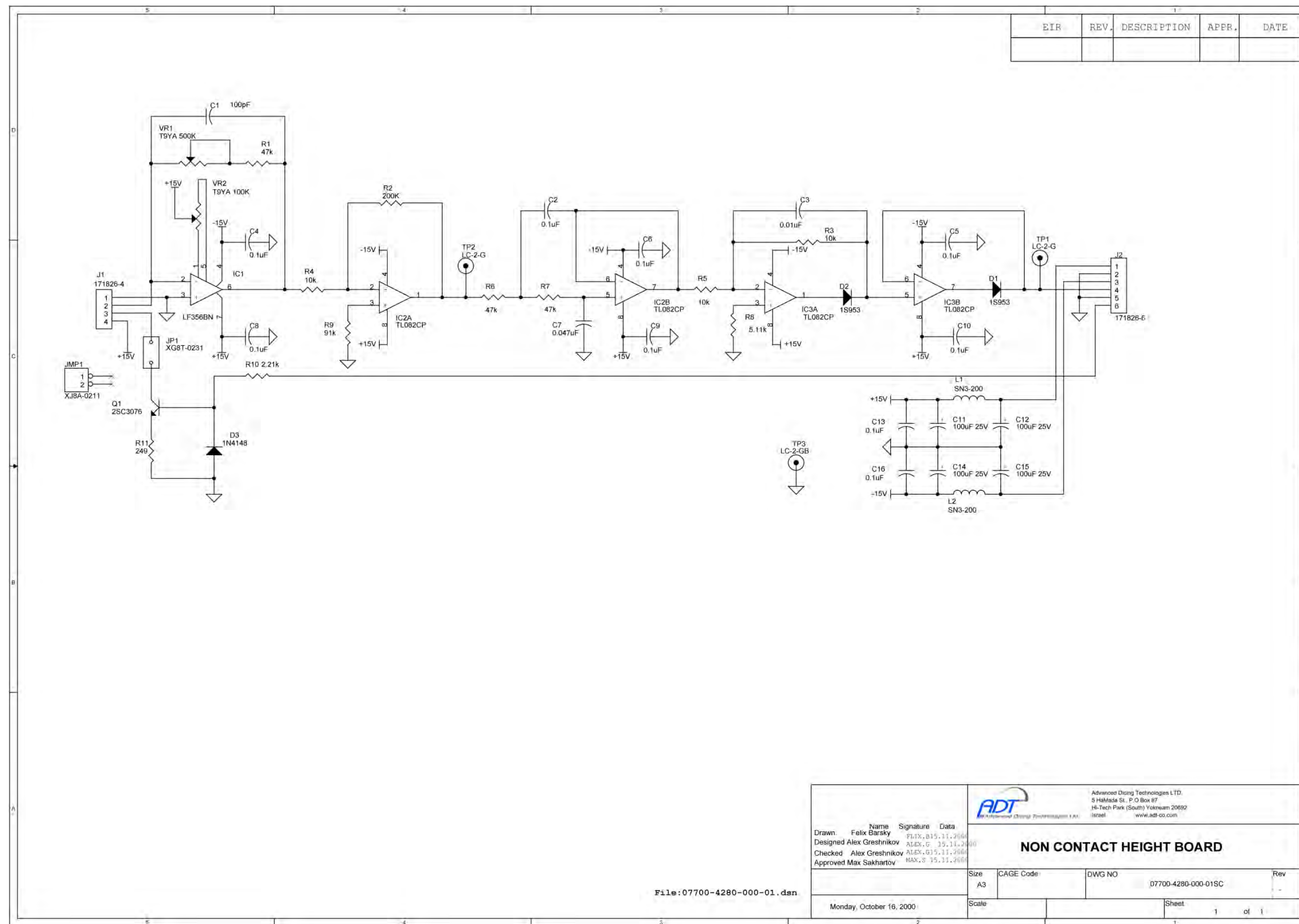
9.63. Contact Height Relay Board 07700-4270-000-00



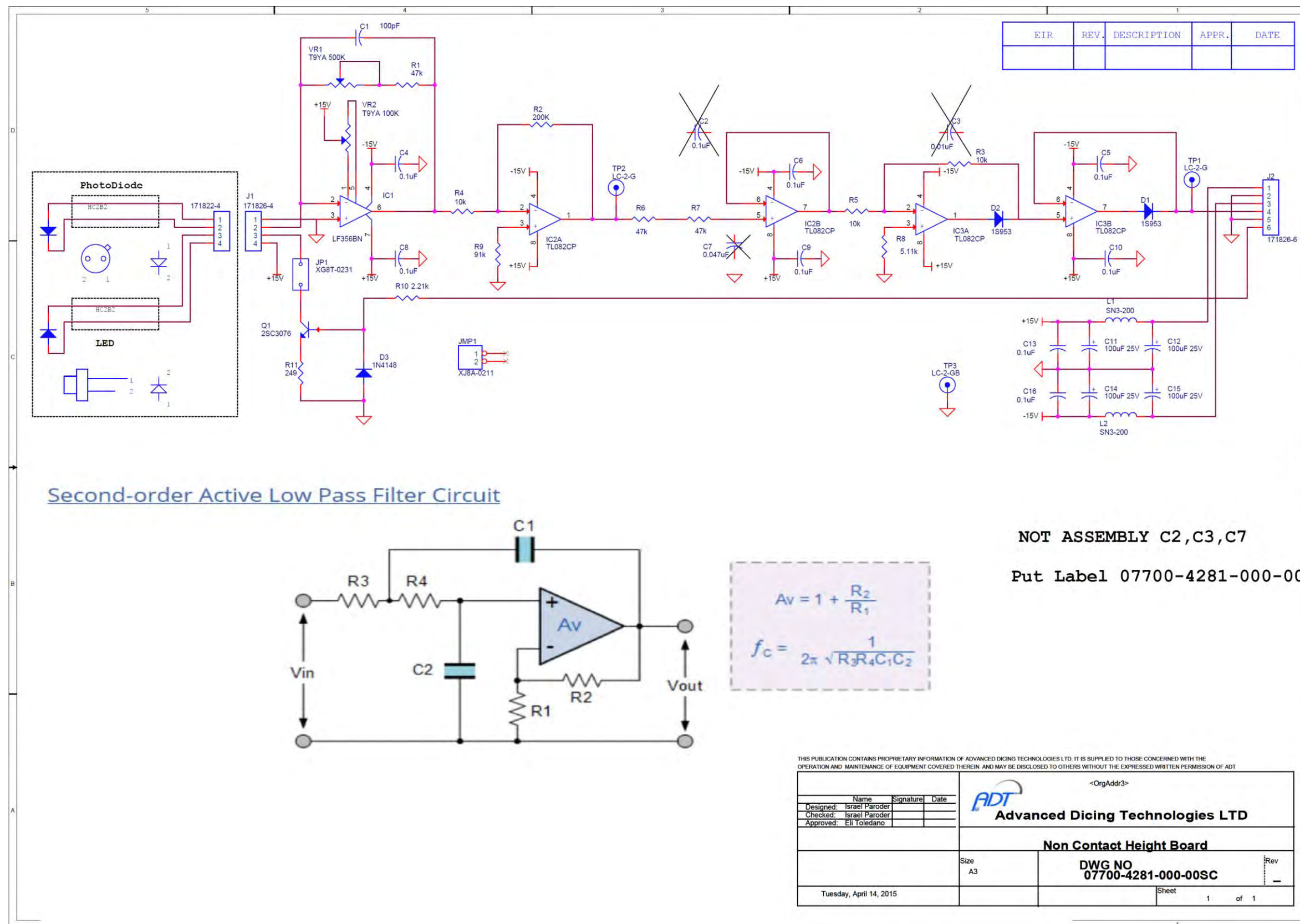
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Name	Signature	Date	 <OrgAddr3> Advanced Dicing Technologies LTD RELAY BOARD
Designed: Israel Paroder			
Checked: Israel Paroder			
Approved: Hagai Aran			Size A3 DWG NO 07700-4270-000-00SC Rev C
Tuesday, July 13, 2004		Sheet 1 of 1	

9.64. Non-Contact Height Board (Old Controller) 07700-4280-000-00



9.65. Non-Contact Height Board (New Controller) 07700-4281-000-00



Section 5. **OPTIONS AND ACCESSORIES**

- **10. Options**
- **11. Accessories**

10. Options

10.1. Camera Assembly

EIR	REV.	DESCRIPTION	APPR.	DATE

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	33850-0781-000	Pixelink Camera	1
2	07100-0661-001-00	CAMERA 50x42mm COVER	1
3	07100-0661-002-00	CAMERA 50x42mm COVER	1

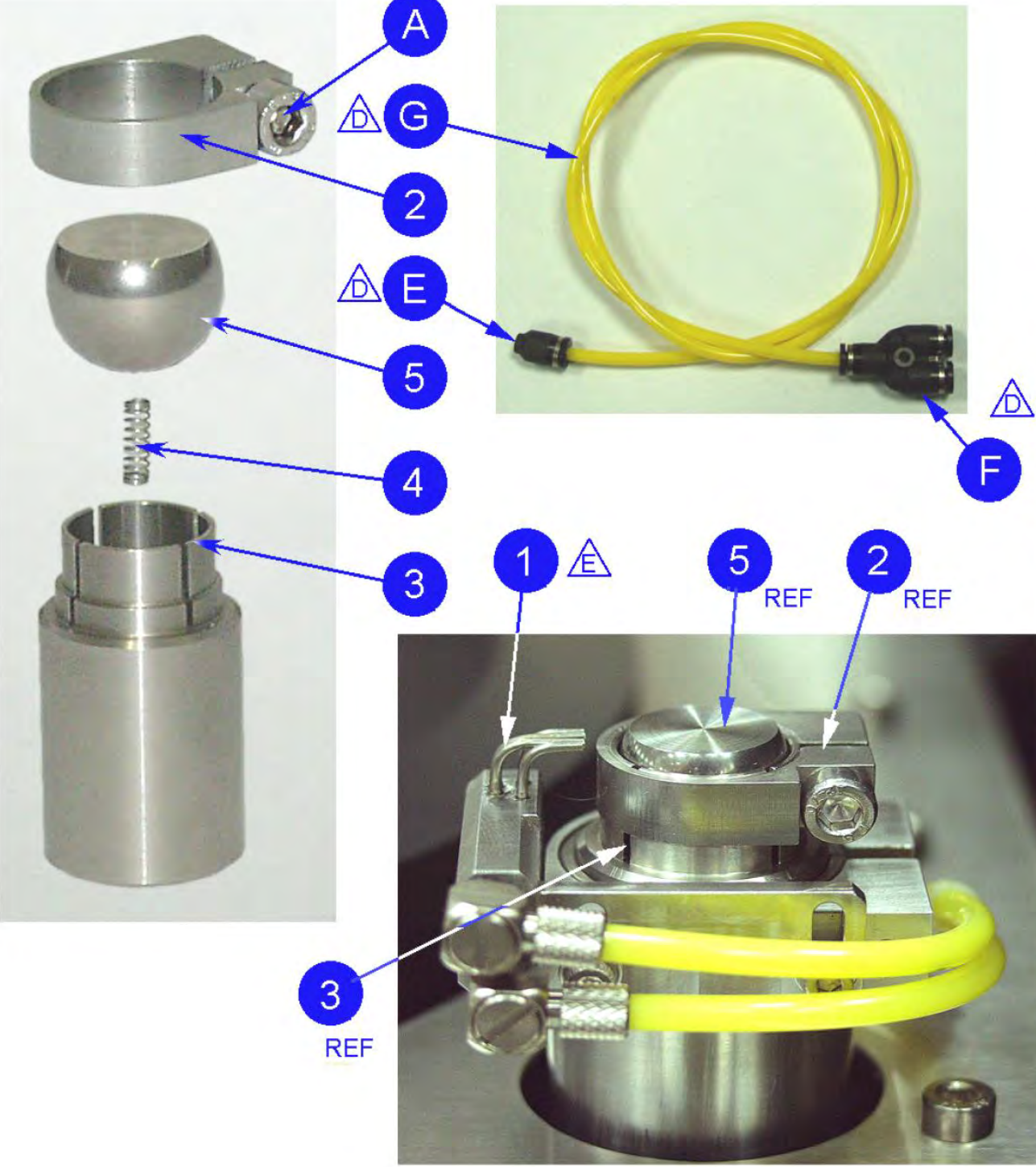
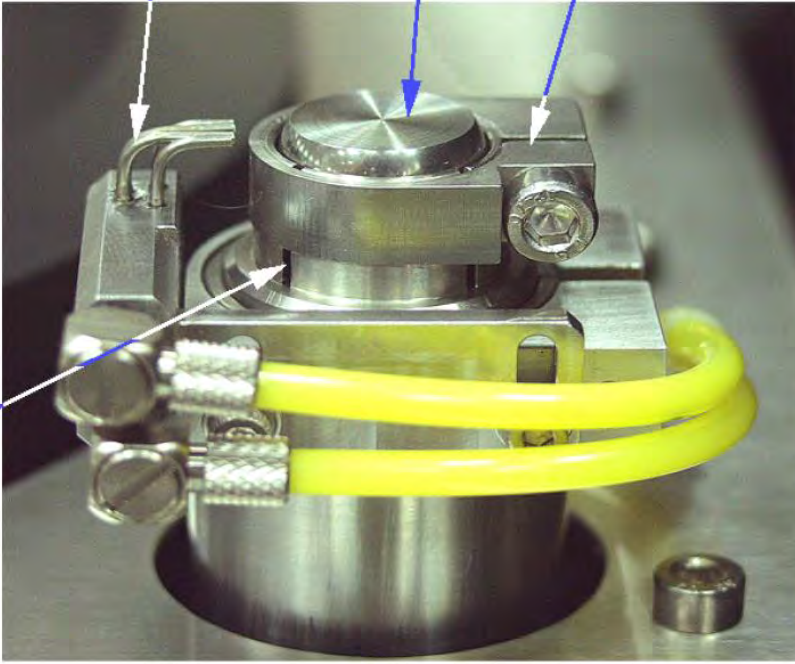
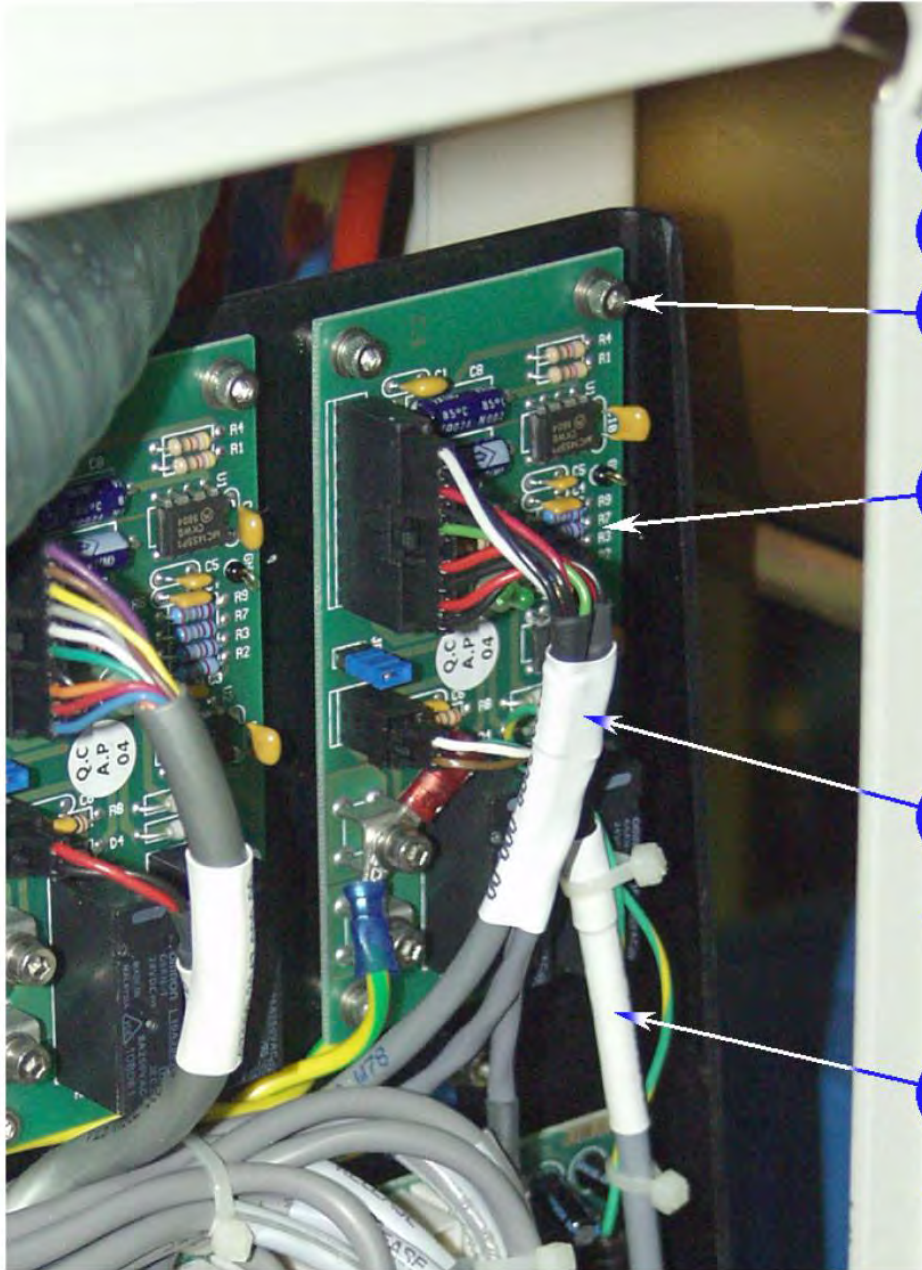
FireWire P/N: 31050-0018-045

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ALL DIMENSIONS BEFORE FINISH		UNLESS OTHERWISE SPECIFIED	
GENERAL TOLERANCES:		BREAK SHARP EDGES 0.2 MAX	
SHAFTS : h12		FILLET RADIUS 0.4 MAX	
HOLES: H12		C" SINK INTERNAL THREAD 90° TO MAJOR DIA. P/2	
ANGLES: 0.5°		MATERIAL:	
DISTANCE: ± 1/2IT12		HEAT TREATMENT:	
SURFACE ROUGHNESS: N7 (✓)		FINISH: Black Anodize 20mk. Per MIL-A-8625 typ II	
TOL. FOR WELDED CONSTRUCTION: DIFFERENCE BETWEEN DIAGONALS		DRAWN: R. Aviv 23.04.12	
0-500 0.6MM		DESIGN: E. Perekatov	
500-2000 1.0MM		CHECK: B. Tamarutsky	
2000+ 1.5MM		APPR: M. Cohen 23.04.12	
RoHS Compliance Required		TITLE: Camera Assembly	
1:1 SCALE		DIMENSIONS IN MM. DO NOT SCALE DWG.	
SHEET 1 OF 1		A3 SIZE	
		Camera Assembly	
		DRAWING No.	
		-00	
		Dev	
		REV	

10.2. Button 00990-0127-000-00

EIR	REV.	DESCRIPTION	APPROVED	DATE
202669	D		MOTTI.C	17.10.02
202787	E	NEW NOZ.BODY	MOTTI.C	11.06.03

ADT Advanced Dicing Technologies Ltd.		TITLE: BUTTON		NAME	DATE
FORMAL	DWG. No: 00990 - 0127 - 000 - 00	REV E	DRAWN	RIVKIN.E.	13.11.2001
RELEASE	SHEET 1 OF 1	DIMENSIONS IN MM.	DESIGNER	OREN.E	13.11.02
			CHECKED	OREN.E	13.11.01
			APPROVED	HAGAI.R	27.2.02

PHOTOSHOP

10.3. 2" High Torque Spindle Assembly 07200-0445-000-00

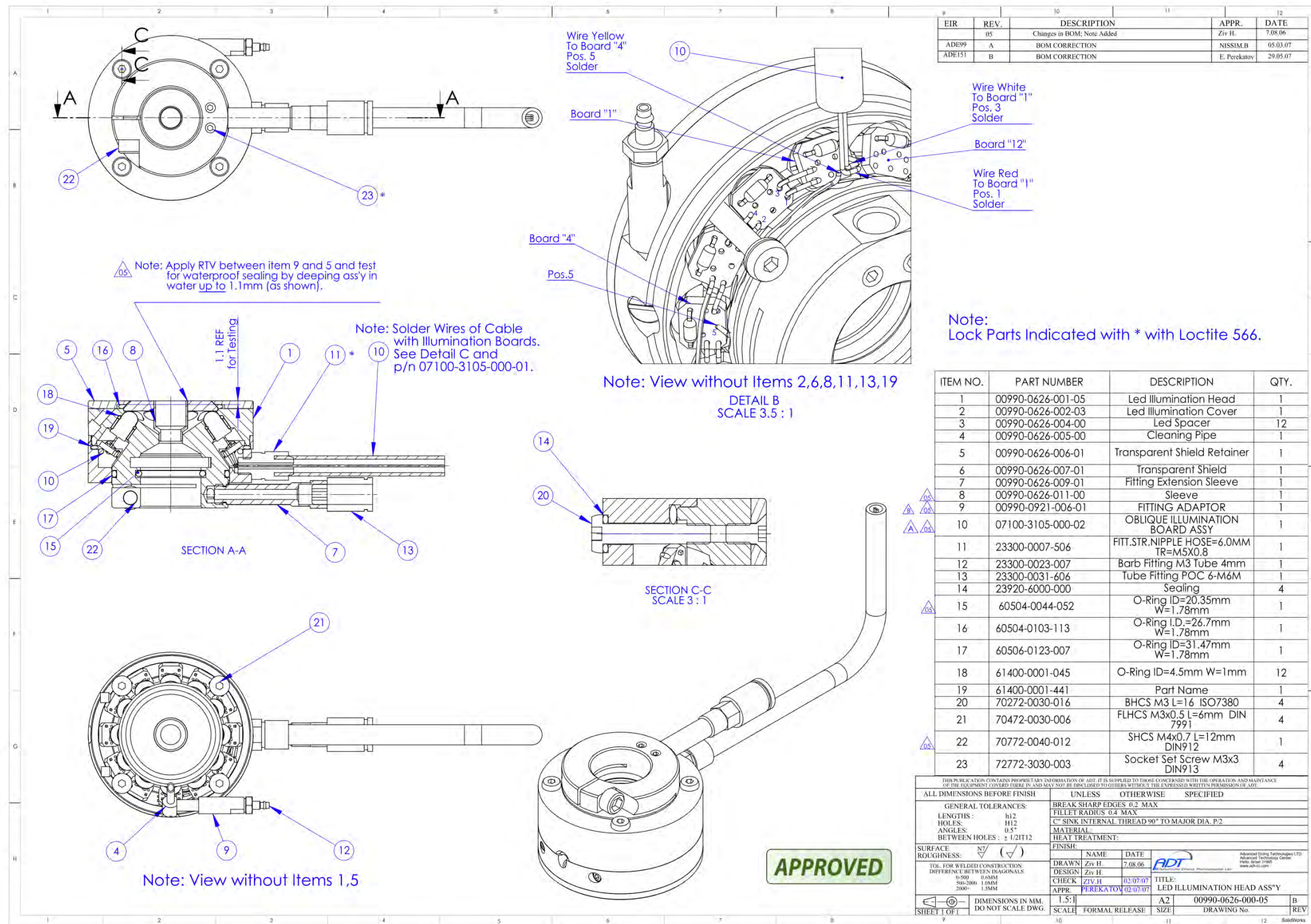
EIR	REV.	DESCRIPTION	APPR.	DATE
	C	Item No. 7 New Cooling Block, Change Item No. 1, Item 28 (Qty.)	B.GAL	12/12/05
	D	Changes in BOM	Ziv H.	18.10.06
	E	Changes in BOM; Remove C.B. from BOM	Ziv H.	10.10.07

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	00990-0440-018-05	Camera Holder
2	1	00990-0440-049-00	Chain Front Mount
3	1	00990-0440-076-00	NUT-PLATE
4	1	07200-0030-006-01	Z Axis Lock Plate
5	1	07230-0130-012-01	Y-Stopper Rod
6	1	21200-0005-026	Energy Chain 26 Links
7	1	23300-0069-806	PG8-6 Tube Union
8	1	13600-0076-000	2.4 Kw Loadpoint Spindle Rear
9	4	66272-0040-000	FRTW M4 DIN125A
10	4	66272-0050-000	FRTW M5 DIN125A
11	4	66272-0060-000	FRTW M6 DIN125A
12	1	66272-0080-000	FRTW M8 DIN125A
13	2	66272-0100-000	Flat Washer M10
14	3	67272-0030-000	HSLW M3 DIN127B
15	4	67272-0040-000	HSLW M4 DIN127B
16	4	67272-0050-000	HSLW M5 DIN127B
17	4	67272-0060-000	HSLW M6 DIN127B
18	1	67272-0080-000	Spring Washer M8 DIN 127
19	2	67272-0100-000	Washer, Spring M10
20	2	70472-0050-008	FLHCS M5x0.8 L=8mm DIN7991
21	2	70472-0050-016	FLHCS M5x0.8 L=16mm DIN7991
22	2	70756-0100-060	SHCS M10x1.5 L=60 DIN 912 Steel Dacrom Plated
23	3	70772-0030-008	SHCS M3x0.5 L=8mm DIN912
24	6	70772-0040-012	SHCS M4x0.7 L=12mm DIN912
25	2	70772-0050-010	SHCS M5x0.8 L=10mm DIN912
26	6	70772-0060-025	SHCS M6x1 L=25mm DIN 912
27	1	70772-0080-016	SHCS M8x1.25 L=16mm DIN 912
28	2	75572-0050-000	HN M5 DIN934
29	1	83200-0204-004	Yellow Tube Od=6 Id=4 Poly, L=0.05m
30	1	LA990-0442-001-03	2" DC Spindle Housing

APPROVED

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ALL DIMENSIONS BEFORE FINISH UNLESS OTHERWISE SPECIFIED											
GENERAL TOLERANCES: LENGTHS: h12 HOLES: H12 ANGLES: 0.5° BETWEEN HOLES: ± 1/2IT12	BREAK SHARP EDGES 0.2 MAX FILLET RADIUS 0.4 MAX C° SINK INTERNAL THREAD 90° TO MAJOR DIA. P/2 MATERIAL: HEAT TREATMENT: FINISH:										
SURFACE ROUGHNESS: N7 (✓) TOL. FOR WELDED CONSTRUCTION: DIFFERENCE BETWEEN DIAGONALS 0-500 0.6MM 500-2000 1.0MM 2000+ 1.5MM	<table border="1"> <tr> <th>NAME</th> <th>DATE</th> </tr> <tr> <td>DRAWN Perkatov</td> <td>15.03.05</td> </tr> <tr> <td>DESIGN Perkatov</td> <td></td> </tr> <tr> <td>CHECK A. Segal</td> <td></td> </tr> <tr> <td>APPR. Aran H.</td> <td></td> </tr> </table> TITLE: HT Spindle DRAWING No. 07200-0445-000-00	NAME	DATE	DRAWN Perkatov	15.03.05	DESIGN Perkatov		CHECK A. Segal		APPR. Aran H.	
NAME	DATE										
DRAWN Perkatov	15.03.05										
DESIGN Perkatov											
CHECK A. Segal											
APPR. Aran H.											
DIMENSIONS IN MM. DO NOT SCALE DWG.	SCALE: 1:2.5 SIZE: A2 FORMAL RELEASE SHEET 1 OF 1										

10.4. LED Illumination Head Assembly 00990-0626-000-05



10.5. Microscope Assembly STD. 07100-0629-000-00

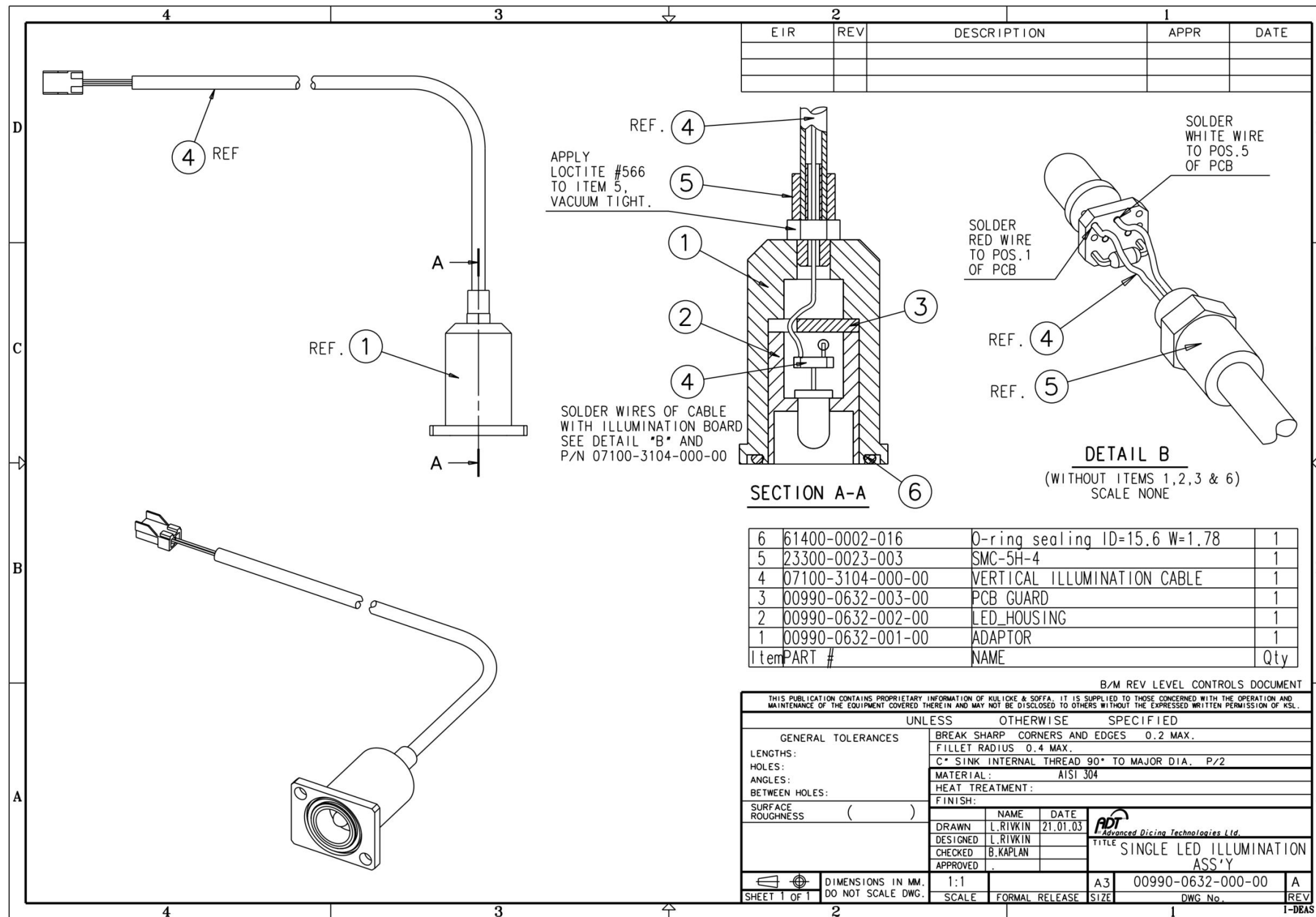
EIR	REV.	DESCRIPTION	APPR.	DATE

Microscope Type	P/N
X30	00990-0618-000-01
X60	00990-0611-000-02
X120	00990-0612-000-01
X240	00990-0613-000-00
H.D X4	00990-0609-000-00
X100- 3.5X	07100-0635-000-00
2.9X	07100-0629-000-00

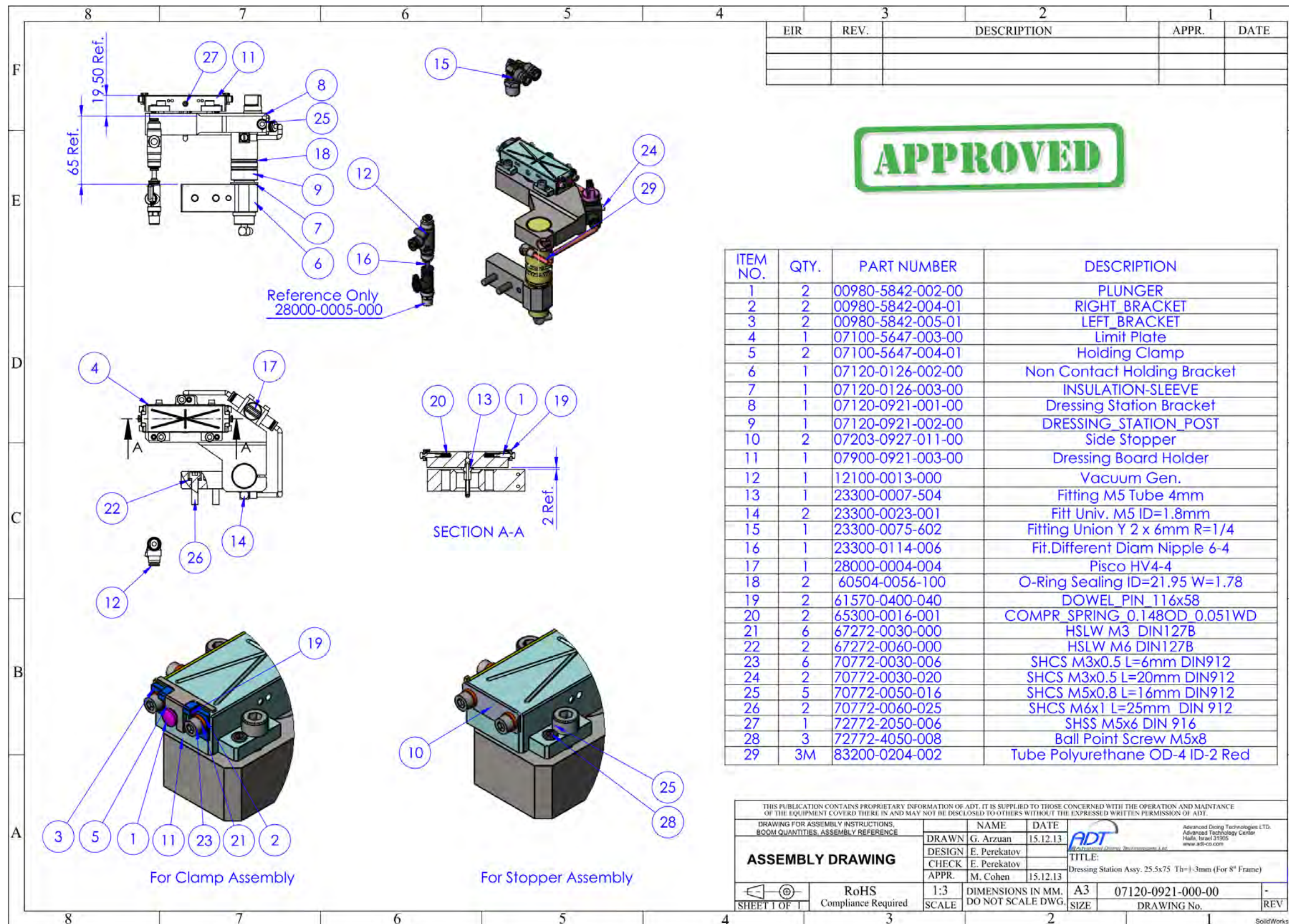
Ref. 00990-0632-000-00

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DRAWING FOR ASSEMBLY INSTRUCTIONS, BOOM QUANTITIES, ASSEMBLY REFERENCE	DRAWN	NAME	DATE	 Advanced Dicing Technologies LTD. Advanced Technology Center Haifa, Israel 31905 www.adt-co.com
ASSEMBLY DRAWING	DESIGN	S. Yuzefovich	01.11.12	TITLE: 2.9 Mag Microscope
	CHECK	R. Friedman		
	APPR.	M. Cohen	01.11.12	
RoHS Compliance Required	1:1 SCALE	DIMENSIONS IN MM. DO NOT SCALE DWG.	A3 SIZE	07100-0629-000-00 DRAWING No.
SHEET 1 OF 1				REV

10.6. Singled Illumination Assembly 00990-0632-000-00



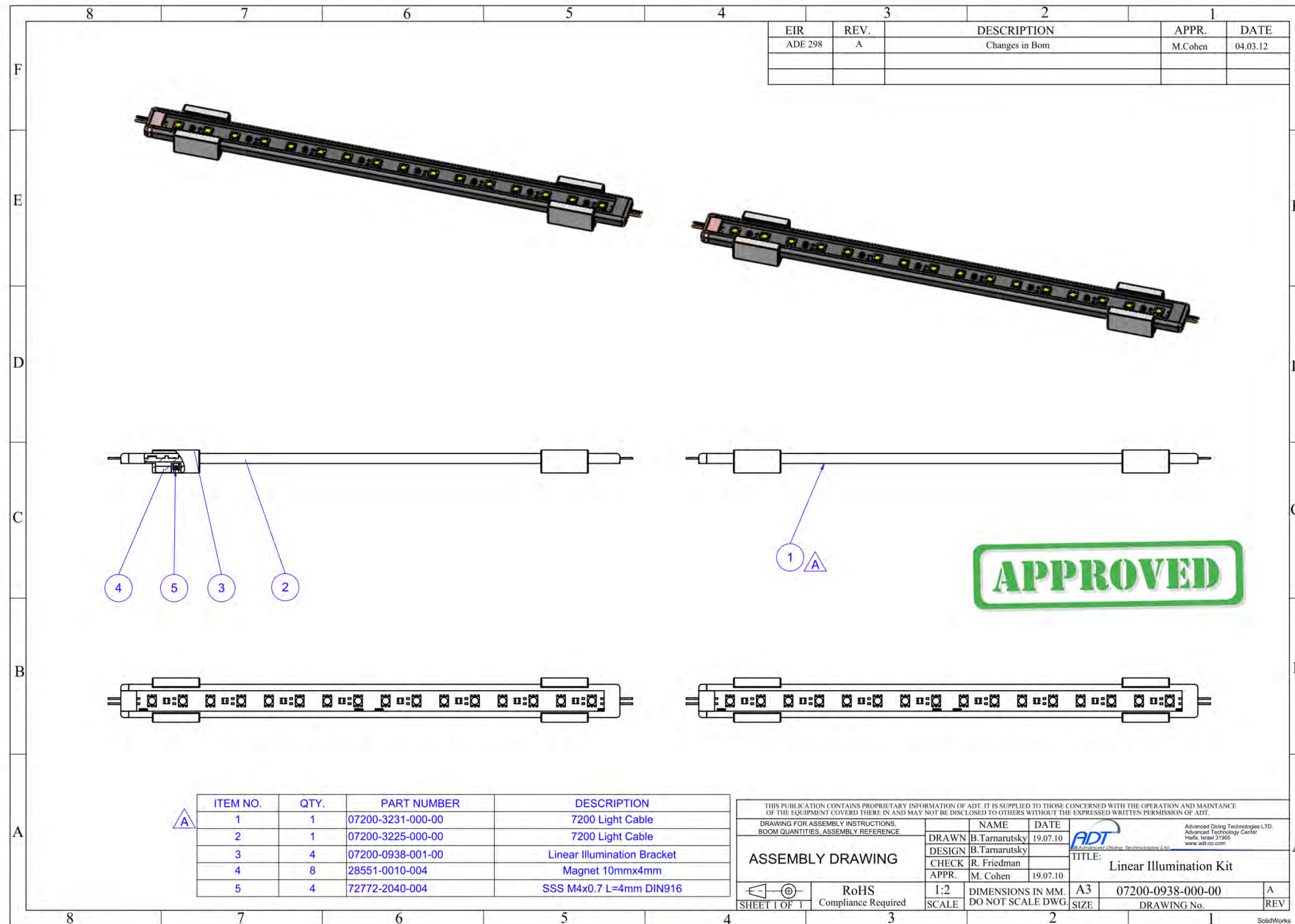
10.7. Dress Station Assembly 07900-0921-000-01



ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	2	00980-5842-002-00	PLUNGER
2	2	00980-5842-004-01	RIGHT BRACKET
3	2	00980-5842-005-01	LEFT BRACKET
4	1	07100-5647-003-00	Limit Plate
5	2	07100-5647-004-01	Holding Clamp
6	1	07120-0126-002-00	Non Contact Holding Bracket
7	1	07120-0126-003-00	INSULATION-SLEEVE
8	1	07120-0921-001-00	Dressing Station Bracket
9	1	07120-0921-002-00	DRESSING_STATION_POST
10	2	07203-0927-011-00	Side Stopper
11	1	07900-0921-003-00	Dressing Board Holder
12	1	12100-0013-000	Vacuum Gen.
13	1	23300-0007-504	Fitting M5 Tube 4mm
14	2	23300-0023-001	Fitt Univ. M5 ID=1.8mm
15	1	23300-0075-602	Fitting Union Y 2 x 6mm R=1/4
16	1	23300-0114-006	Fit.Different Diam Nipple 6-4
17	1	28000-0004-004	Pisco HV4-4
18	2	60504-0056-100	O-Ring Sealing ID=21.95 W=1.78
19	2	61570-0400-040	DOWEL_PIN_116x58
20	2	65300-0016-001	COMPR SPRING 0.148OD 0.051WD
21	6	67272-0030-000	HSLW M3 DIN127B
22	2	67272-0060-000	HSLW M6 DIN127B
23	6	70772-0030-006	SHCS M3x0.5 L=6mm DIN912
24	2	70772-0030-020	SHCS M3x0.5 L=20mm DIN912
25	5	70772-0050-016	SHCS M5x0.8 L=16mm DIN912
26	2	70772-0060-025	SHCS M6x1 L=25mm DIN 912
27	1	72772-2050-006	SHSS M5x6 DIN 916
28	3	72772-4050-008	Ball Point Screw M5x8
29	3M	83200-0204-002	Tube Polyurethane OD=4 ID=2 Red

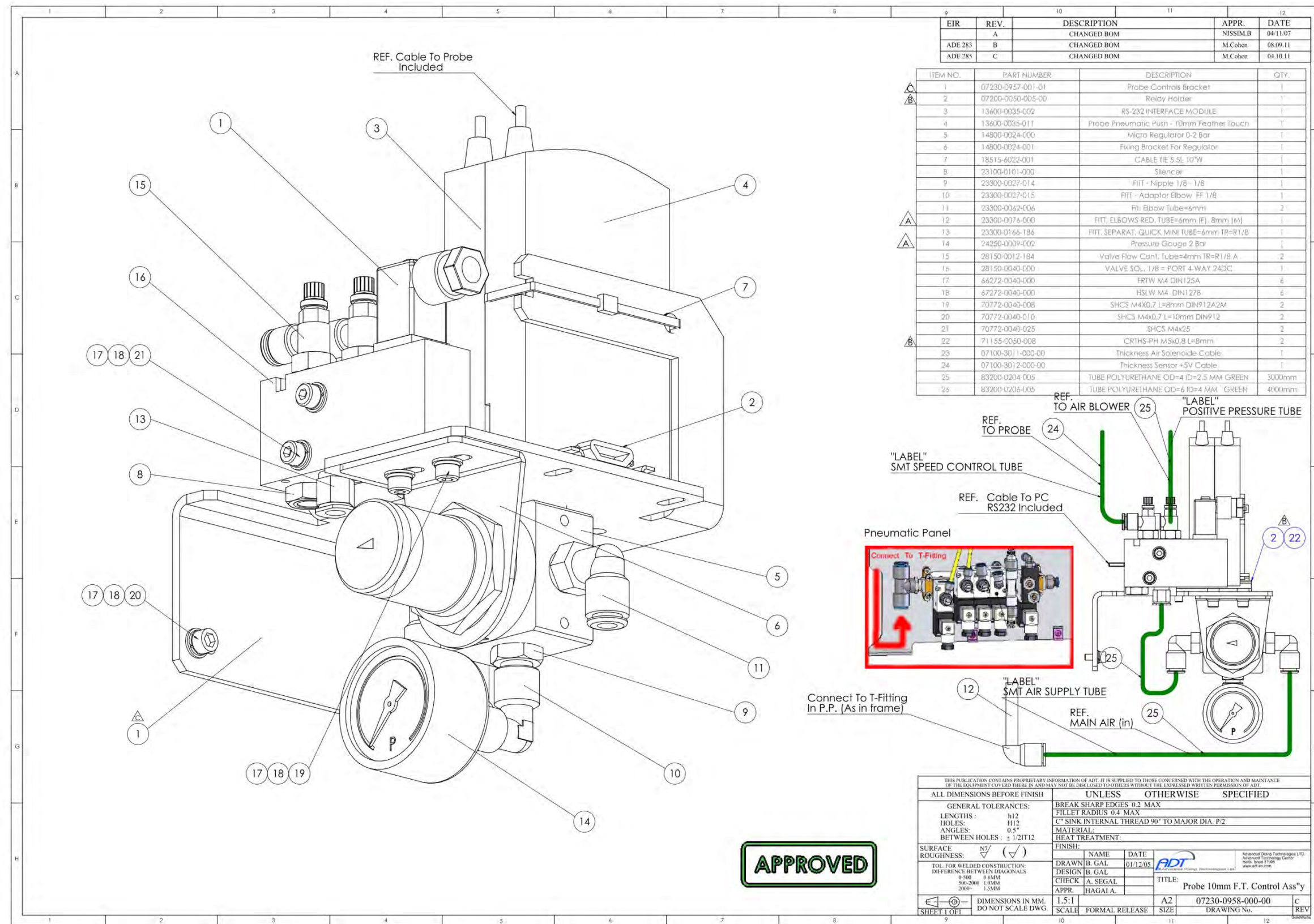
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DRAWING FOR ASSEMBLY INSTRUCTIONS, BOOM QUANTITIES, ASSEMBLY REFERENCE		NAME	DATE
DESIGN		G. Arzuwan	15.12.13
CHECK		E. Perekatov	
APPR.		M. Cohen	15.12.13
RoHS Compliance Required		1:3 DIMENSIONS IN MM. DO NOT SCALE DWG.	
SHEET 1 OF 1		A3	07120-0921-000-00
		SIZE	DRAWING No.
			REV

10.8. Linear Illumination Kit 07200-0938-000-00



10.9. Probe (10 mm) FT Control Assembly

07230-0958-000-00



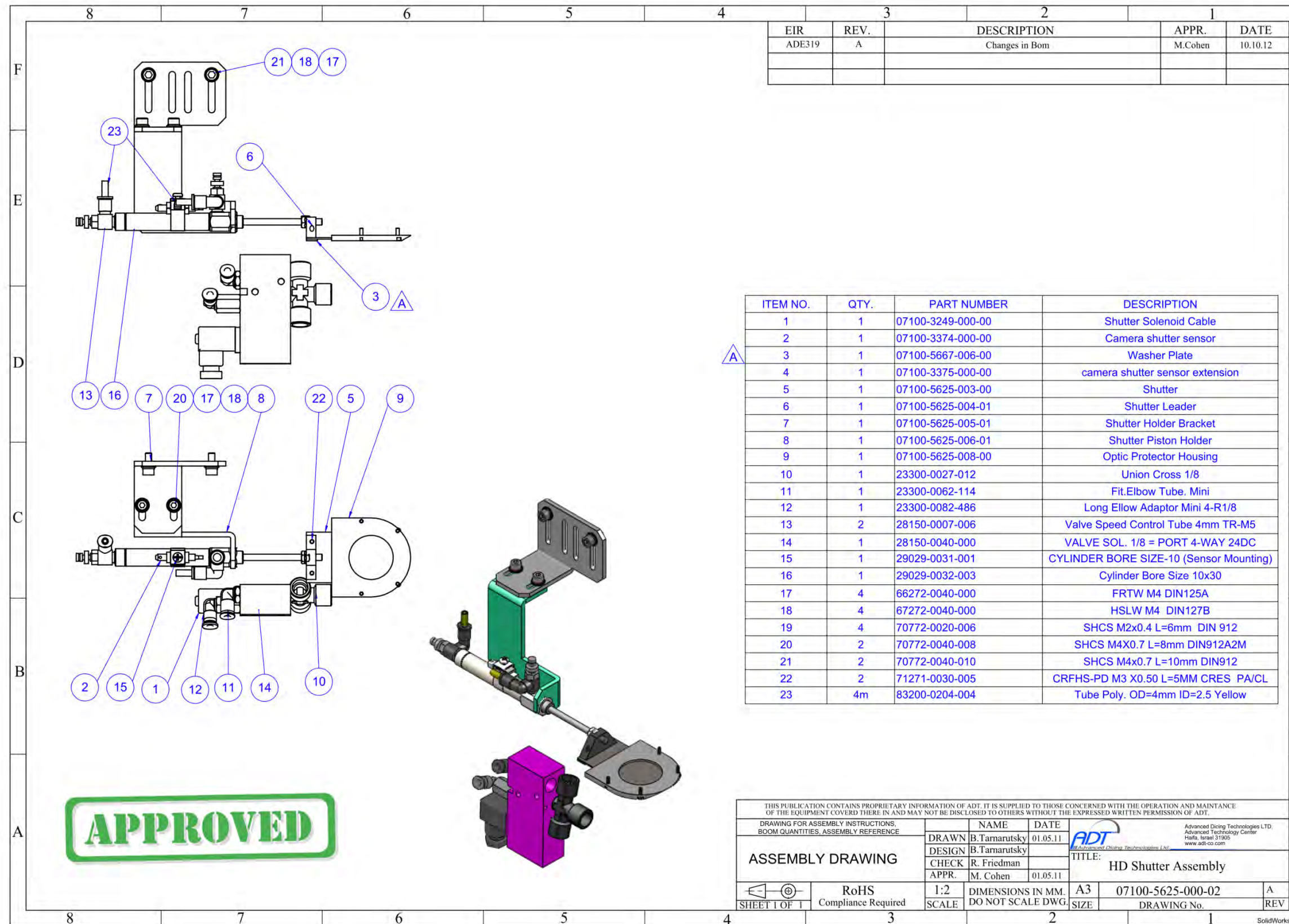
10.10. Probe (10 mm) Shielding Kit Assembly 07100-5641-000-00

EIR	REV.	DESCRIPTION	APPR.	DATE
	C	Changes in Bom (Del. Assy. 07230-0959-000-00)	B Tarnarutsky	29.01.12
ADE 319	D	DEL. PARTS: 23300-0061-666	M.Cohen	27.11.12
ADE 323	E	Changes in Bom	M.Cohen	13.03.13

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	07100-5641-001-00	Probe Top Shield	1
2	07100-5641-002-00	Probe Bottom Shield	1
3	07100-5641-003-00	C Clamp	1
4	07100-5641-004-00	Camera Holder with probe option	1
5	07100-3367-000-00	Air Consumption Solenoid Cable	1
6	07230-0955-001-00	PROBE MOBILE SHIELD	1
7	07230-0958-000-00	Probe 10mm F.T. Control Ass'y	1
8	23300-0004-003	Quick Fitting Tube=4mm M3 mini	1
9	23300-0064-086	UNION TEE UTD-8-6	1
10	23300-0061-666	Fit. Plug-in Y 2xTube=6mm Stem.=6mm	1
11	70472-0030-006	FLHCS M3x0.5 L=6mm DIN 7991	1
12	70772-0040-008	SHCS M4X0.7 L=8mm DIN912A2M	2

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ALL DIMENSIONS BEFORE FINISH		UNLESS OTHERWISE SPECIFIED	
GENERAL TOLERANCES:		BREAK SHARP EDGES 0.2 MAX	
SHAFTS : h12		FILLET RADIUS 0.4 MAX	
HOLES: H12		C° SINK INTERNAL THREAD 90° TO MAJOR DIA. P/2	
ANGLES: 0.5°		MATERIAL:	
DISTANCE : ± 1/2IT12		HEAT TREATMENT:	
SURFACE ROUGHNESS: N7 (✓)		FINISH:	
TOL. FOR WELDED CONSTRUCTION:		DRAWN Ziv H. 19.07.07	
DIFFERENCE BETWEEN DIAGONALS		DESIGN Ziv H.	
0-500 0.6MM		CHECK Boris T.	
500-2000 1.0MM		APPR. PEREKATOV	
2000+ 1.5MM		DATE	
DIMENSIONS IN MM. DO NOT SCALE DWG.		NAME	
1:2		DATE	
SCALE		FORMAL RELEASE	
SHEET 1 OF 1		SIZE	
		A3	
		07100-5641-000-00	
		DRAWING No.	
		E	
		REV	
		1	
		SolidWorks	

10.11. HD Camera Shutter Assembly 07100-5625-000-02



EIR	REV.	DESCRIPTION	APPR.	DATE
ADE319	A	Changes in Bom	M.Cohen	10.10.12

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	07100-3249-000-00	Shutter Solenoid Cable
2	1	07100-3374-000-00	Camera shutter sensor
3	1	07100-5667-006-00	Washer Plate
4	1	07100-3375-000-00	camera shutter sensor extension
5	1	07100-5625-003-00	Shutter
6	1	07100-5625-004-01	Shutter Leader
7	1	07100-5625-005-01	Shutter Holder Bracket
8	1	07100-5625-006-01	Shutter Piston Holder
9	1	07100-5625-008-00	Optic Protector Housing
10	1	23300-0027-012	Union Cross 1/8
11	1	23300-0062-114	Fit.Elbow Tube. Mini
12	1	23300-0082-486	Long Elbow Adaptor Mini 4-R1/8
13	2	28150-0007-006	Valve Speed Control Tube 4mm TR-M5
14	1	28150-0040-000	VALVE SOL. 1/8 = PORT 4-WAY 24DC
15	1	29029-0031-001	CYLINDER BORE SIZE-10 (Sensor Mounting)
16	1	29029-0032-003	Cylinder Bore Size 10x30
17	4	66272-0040-000	FRTW M4 DIN125A
18	4	67272-0040-000	HSLW M4 DIN127B
19	4	70772-0020-006	SHCS M2x0.4 L=6mm DIN 912
20	2	70772-0040-008	SHCS M4x0.7 L=8mm DIN912A2M
21	2	70772-0040-010	SHCS M4x0.7 L=10mm DIN912
22	2	71271-0030-005	CRFHS-PD M3 X0.50 L=5MM CRES PA/CL
23	4m	83200-0204-004	Tube Poly. OD=4mm ID=2.5 Yellow

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DRAWING FOR ASSEMBLY INSTRUCTIONS, BOM QUANTITIES, ASSEMBLY REFERENCE		NAME	DATE	Advanced Dicing Technologies LTD Advanced Technology Center Haifa, Israel 31905 www.adt-co.com
ASSEMBLY DRAWING		B.Tamarutsky	01.05.11	
		R. Friedman		
		M. Cohen	01.05.11	
RoHS Compliance Required		1:2 SCALE	DIMENSIONS IN MM. DO NOT SCALE DWG.	TITLE: HD Shutter Assembly
SHEET 1 OF 1				SIZE: A3 07100-5625-000-02 DRAWING No.

10.12. Z Encoder Assembly 07100-6100-000-00

EIR	REV.	DESCRIPTION	APPR.	DATE
	A	Changes in Boom	E. Perekatov	12.07.11
ADE 287	B	Correction Bom	M.Cohen	03.01.12
ADE 325	C	Correction Bom	M.Cohen	19.06.13

ITEM NO.	Exploded/QTY.	PART NUMBER	DESCRIPTION
1	1	07100-3187-000-00	Z Encoder Cable
2	1	07100-3188-000-00	Z Encoder Extension Cable
3	1	07100-6100-001-00	Encoder Bracket
4	1	07100-6100-003-00	Z Slide REWORK
5	1	07100-6100-004-00	Z-SLIDE COVER WELDING ASSY
6	1	07100-6100-005-00	Z slide right cover
7	1	07100-6100-006-00	Encoder cable cover
8	1	19035-0003-000	RGS20-S 100mm CUT
9	2	61700-6030-008	Dowel Pin M6 3x8mm
10	2	66272-0030-000	FRTW M3 DIN125A
11	2	66272-0040-000	FRTW M4 DIN125A
12	2	67272-0030-000	HSLW M3 DIN127B
13	2	67272-0040-000	HSLW M4 DIN127B
14	2	70772-0030-010	SHCS M3x10 DIN912
15	2	70772-0040-012	SHCS M4x0.7 L=12mm DIN912
16	4	71155-0030-004	CRTHS M3x0.5 L=4mm

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ALL DIMENSIONS BEFORE FINISH		UNLESS OTHERWISE SPECIFIED	
GENERAL TOLERANCES:		BREAK SHARP EDGES 0.2 MAX	
LENGTHS : h12		FILLET RADIUS 0.4 MAX	
HOLES: H12		C° SINK INTERNAL THREAD 90° TO MAJOR DIA. P/2	
ANGLES: 0.5°		MATERIAL: SEE P/L	
BETWEEN HOLES : ± 1/2IT12		HEAT TREATMENT:	
SURFACE ROUGHNESS: N7 (✓)		FINISH:	
TOL. FOR WELDED CONSTRUCTION: DIFFERENCE BETWEEN DIAGONALS 0-500 0.6MM 500-2000 1.0MM 2000+ 1.5MM		DRAWN Yuri O. 25/10/05	
		DESIGN Yuri O.	
		CHECK Segal A.	
		APPR.	
		DATE	
		NAME	
		DATE	
		TITLE: Z ENCODER ASS'Y	
DIMENSIONS IN MM. DO NOT SCALE DWG.		SCALE 1:2.5	
SHEET 1 OF 1		FORMAL RELEASE	
		SIZE A3	
		DRAWING No. 07100-6100-000-00	
		REV C	

11. Accessories

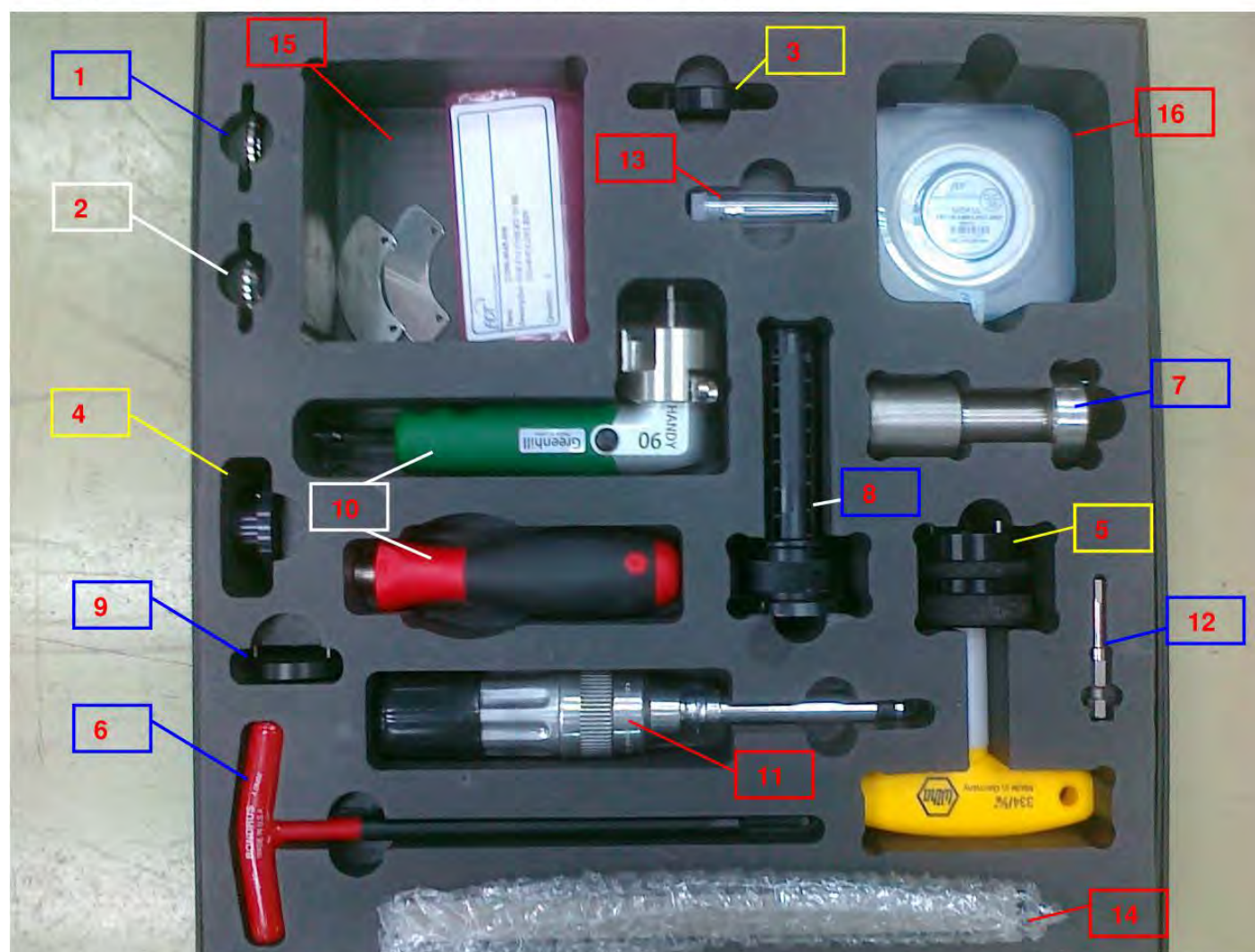
11.1. 2" Tool Kit 07100-0908-000-00



ADT, Advanced Dicing Technologies LTD.
5 HaMada St., P.O. Box 87
Hi-Tech Park (South)
Yokneam, Israel, 20692
www.adt-co.com

Phone: 972-4-8545222 Fax: 972-4-8545210

Tools Box and Tools Kit configurations



1. 2" Blade Nut (Rear), P/N – 07900-0440-099-00
P/N – 07900-0440-098-00 – Titanium Blade Nut (Option)
2. 2" Blade Nut for 7900 (Front), P/N – 07900-0441-099-00
P/N – 07900-0441-098-00 – Titanium Blade Nut (Option)
3. P/N – 00775-8900-008 – 4" Blade Nut
4. P/N – 00775-8922-000 – 4" Flange Wrench
5. P/N – 00775-8921-000-01 – 4" Blade Nut Wrench
6. P/N – 07700-0916-000-00 – 2" Hexagonal Wrench
7. P/N – 07700-0908-002-00 – 2" Blade Nut Tool
8. P/N – 00757-8711-101 – 2" Handling Tool
P/N – 00757-8711-101-BBD – 2" Handling Tool for special BBD flanges
9. P/N – 4B785-4000-000 – 2" Flange Separator Tool
10. P/N – 07900-0911-000-01 – Handle Blade W.O Shaft
11. Torque Meter Ass'y
P/N – 07700-0917-000-00 – For 7100/7200 2" Tools Kit
P/N – 4B785-3001-000-01 – For 7100/7200 4" Tools Kit
P/N – 27795-0012-000 – For 7900 Tools Kit
12. P/N – 07100-0905-001-00 – Hexagonal bit for 2" Spindle
Part of P/N – 07700-0917-000-00 (Item 11) Ass'y
13. P/N – 06980-0705-028 – Tray Target for Camera Calibration
14. P/N – 07100-0903-000-00 – Button and NCH Adjustment Bar Ass'y
15. Chamber for accompanied parts (Dressing Boards, Cooling Block Nozzles and Spacers, Spindle Water Fitting and so on)
16. Chamber for accompanied 2" – 3" Blades

Tools Box Configuration

	7100, 2"	7100, 4"	7200, 2"	7200, 4"	7900
Standard	1, 6, 7, 9, 13, 14	3, 4, 5, 13, 14	1, 6, 7, 9, 13, 14	3, 4, 5, 13, 14	1, 2, 8, 9, 10, 11, 13, 14
Optional	8, 11	11	8, 11	11	

11.2. 4" Wrench Set 4B785-3001-000-01

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	07500-0908-011-00	Flange Mounting Tool Box
2	1	4B785-3001-001-00	4" Torque Sponge Cover
3	1	4B785-3001-002-00	4" Torque Sponge Basis
4	1	4B785-3000-133	ADAPTOR FLANGE/SPINDLE 4"
5	1	4B785-3000-135	ADAPTOR T.M./BIT
6	1	4B785-3000-023	ALEN BIT 1/4"-5/16"
7	1	4B785-3000-231	DALERIN RING
8	1	4B785-3000-230	S.S. RETAINING RING FOR SHAFT 16mm
9	2	4B785-3000-232	S.S. ALEN SCREW 4/40" UNC, 1/2" LENGTH (WITHOUT HEAD)
10	1	27795-0012-000	Torgue Meter
11	2	4B785-3000-134	S.S. PIN DIAM. 2.38X8.85mm (3/32" X 3/8")

Diagram showing exploded view of the torque meter assembly with callouts 4, 5, 6, 7, 8, 9, and 10.

3D perspective view of the assembled torque meter on the sponge basis and cover.

APPROVED

The Torque Meter Calibrated To 31 ± 3 ibf x" Both Direction

EIR	REV.	DESCRIPTION	APPR.	DATE

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DRAWING FOR ASSEMBLY INSTRUCTIONS, BOOM QUANTITIES, ASSEMBLY REFERENCE	NAME	DATE	<p style="font-size: x-small;">Advanced Dicing Technologies LTD Advanced Technology Center Haifa, Israel 31905 www.adt-co.com</p>				
ASSEMBLY DRAWING	DRAWN	19.01.12					
CHECK	DESIGN	19.01.12					
APPR.	APP.	19.01.12					
SHEET 1 OF 1	RoHS Compliance Required	1:1 SCALE	DIMENSIONS IN MM. DO NOT SCALE DWG.	A3 SIZE	4B785-3001-000-01	DRAWING No.	REV