

10810 W. LITTLE YORK RD., #130 HOUSTON, TX 77041-4051 VOICE (713) 973-6905 FAX (713) 973-9352 web: www.twrlighting.com

# IMPORTANT!!!

PLEASE TAKE THE TIME TO FILL OUT THIS FORM COMPLETELY. FILE IT IN A SAFE PLACE. IN THE EVENT YOU EXPERIENCE PROBLEMS WITH OR HAVE QUESTIONS CONCERNING YOUR CONTROLLER, THE FOLLOWING INFORMATION IS NECESSARY TO OBTAIN PROPER SERVICE AND PARTS.

MODEL #	AA0
ТҮРЕ	
SERIAL #	
PURCHASE DATE	
PURCHASED FROM	



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APPENDIX

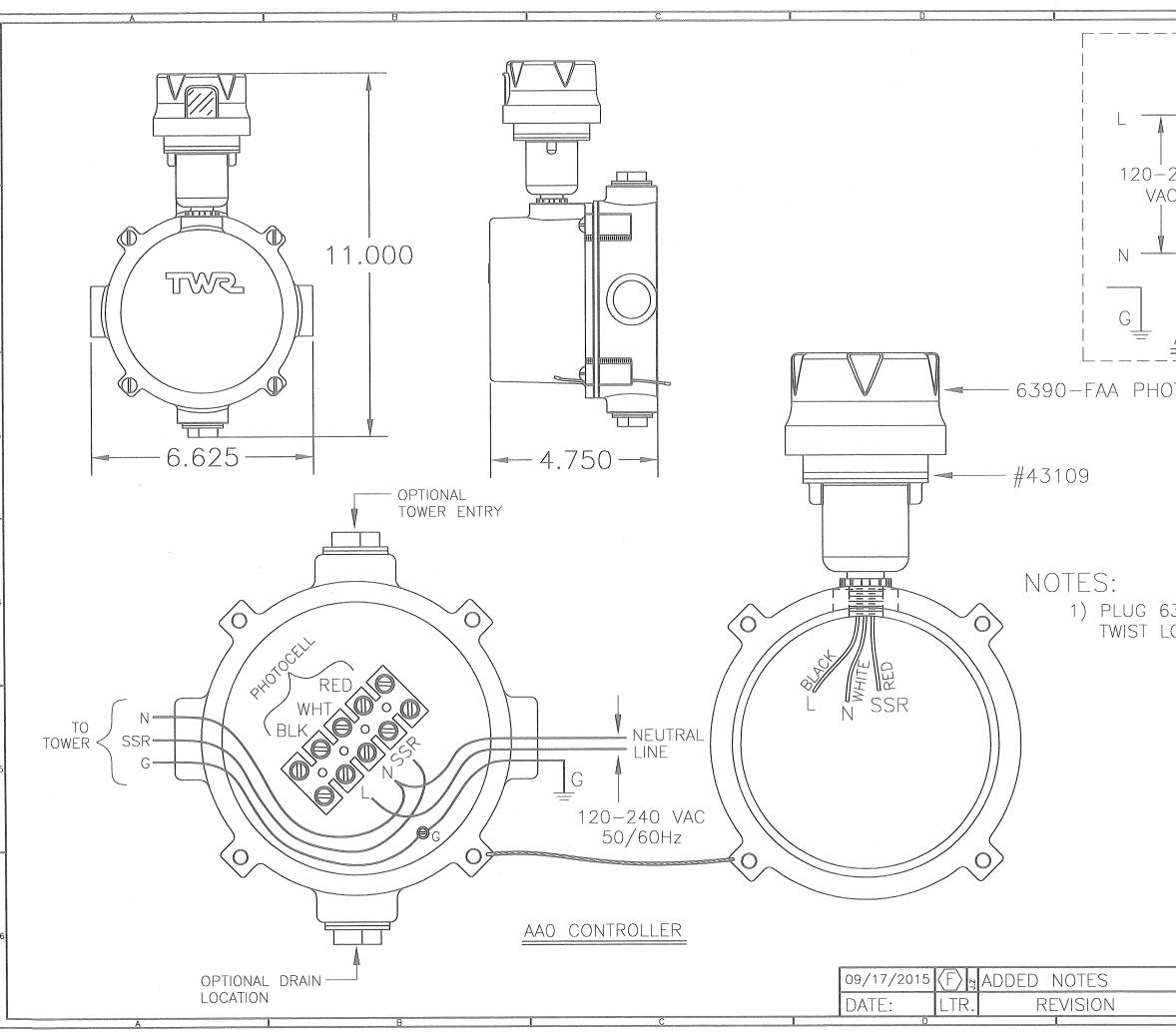
WARRANTY & RETURN POLICY

**RETURN MERCHANDISE AUTHORIZATION (RMA) FORM** 



## APPENDIX

CHASSIS LAYOUT & SCHEMATIC	
OL-2 SIDELIGHT ASSEMBLY DETAIL	310 (REV B)
SIDELIGHT RECEPTACLE WIRING	
JUNCTION AND STRAIN RELIEF BOXES	100089 (REV A)
LK1A0 LIGHTING KIT w/NON-ALARMED	259-01 (REV D)
LK2A0 LIGHTING KIT w/NON-ALARMED	259-02 (REV D)
LIGHTING KIT w/CABLE FOR OL2 LIGHT	
WRAPLOCK FASTENING DETAIL	100984



E F	-
240 6390 FAA 2-LAMPS	2
AAO CONTROLLER SCHEMATIC	
TOCELL	3
390-FAA PHOTOCELL INTO (#43109) OCK RECEPTACLE AND TWIST TO LOCK.	4
	5
AAO CONTROLLER 120-240 VAC 50/60Hz PROD' DEPT SERV DEPT ENGINEER ENGINEER ENGINEER DRAWN BY G.D. SEBEK SHEET SIZE SHEET QTY. B SHEET SIZE SHEET QTY.	6
DATE <u>11/13/92</u> SCALE N.T.S. DWG. NO. <u>201-R</u> The use of non-OEM parts or modifications to original equipment design will void the manufacturer warranty and could invalidate the assurance of complying will FAA requirements as published in Advisory Circular 150/5345-43. NOTICE: The drawings and photographic images contained herein are the sole property of TWR Lighting. Inc. All information contained herein that is not generally known shall be considered confidential execute to the setter the information has been previously established. The drawings and photographic images contained herein may not be reproduced, copied or used as the basis for manufacture or sale or promotion or any other purpose without the expressed written pemission of TWR Lighting. Inc.	

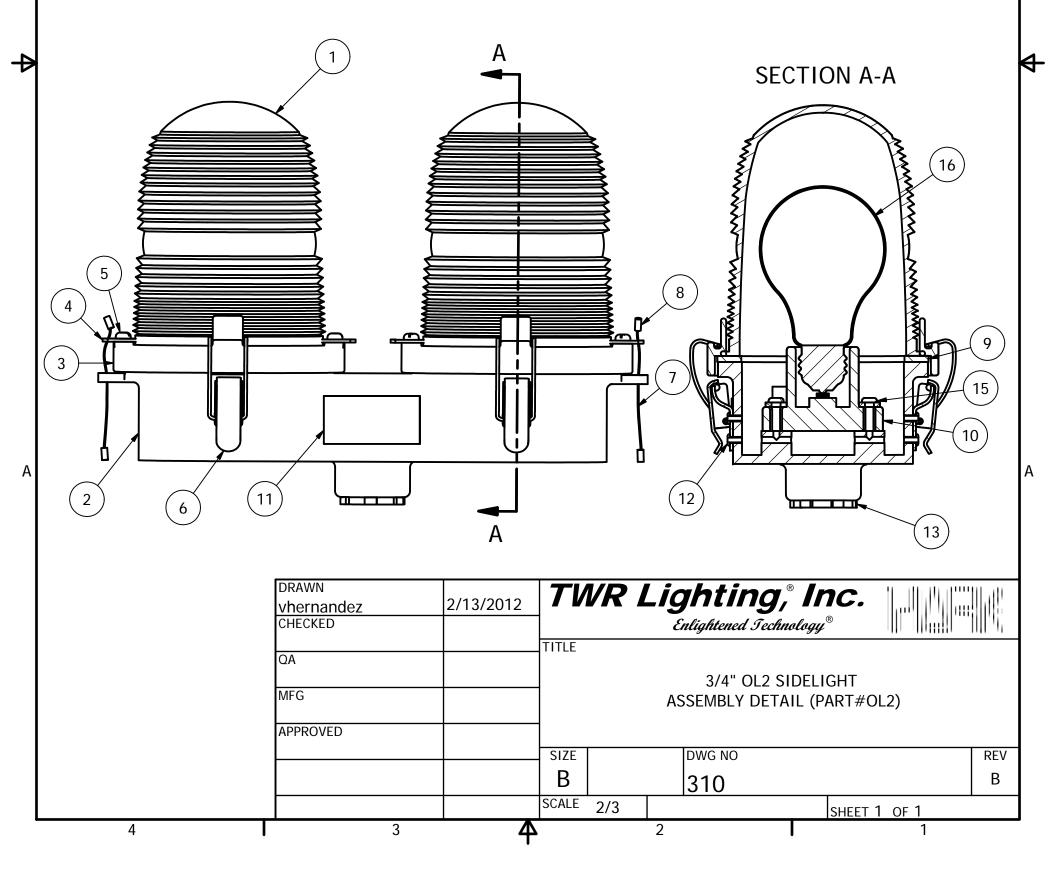
2			1		
_	PARTS LIST				
	ITEM	QTY	PART NUMBER	DESCRIPTION	
	1	2	AP35222	RED SIDELIGHT GLASS	
	2	1	OL2C	DOUBLE SIDELIGHT BODY	
	3	2	106C	LENS HOLDER RING	
	4	4	12V245	OL LENS CLIP	
	5	4	832X14PH	8-32 X 1/4 PH SS SLOT SCREW	
	6	4	HC255SS	SIDELIGHT LATCHES	
	7	2	7X7SS	1/16 HOL 7X7 S.S. WIRE	
	8	4	A1A	STAKON CRIMP	
	9	2	OLG	OL GASKET	
	10	2	TWR19062	SIDELIGHT RECEPTACLE	
	11	1	100324	OL2 SERIAL NUMBER LABEL	
	12	8	18PRSS	1/8 X .40 SS POP RIVET	
	13	1	A314	3/4" CONDUIT LOCKNUT GALV.	
*	14	4	104G	WHITE TEFLON WASHER	В
	15	4	832X34PH	8-32 X 3/4" S.S. PH SLOT	
~	16	2	116A21TS	116W-120V LAMP (TYP.)	

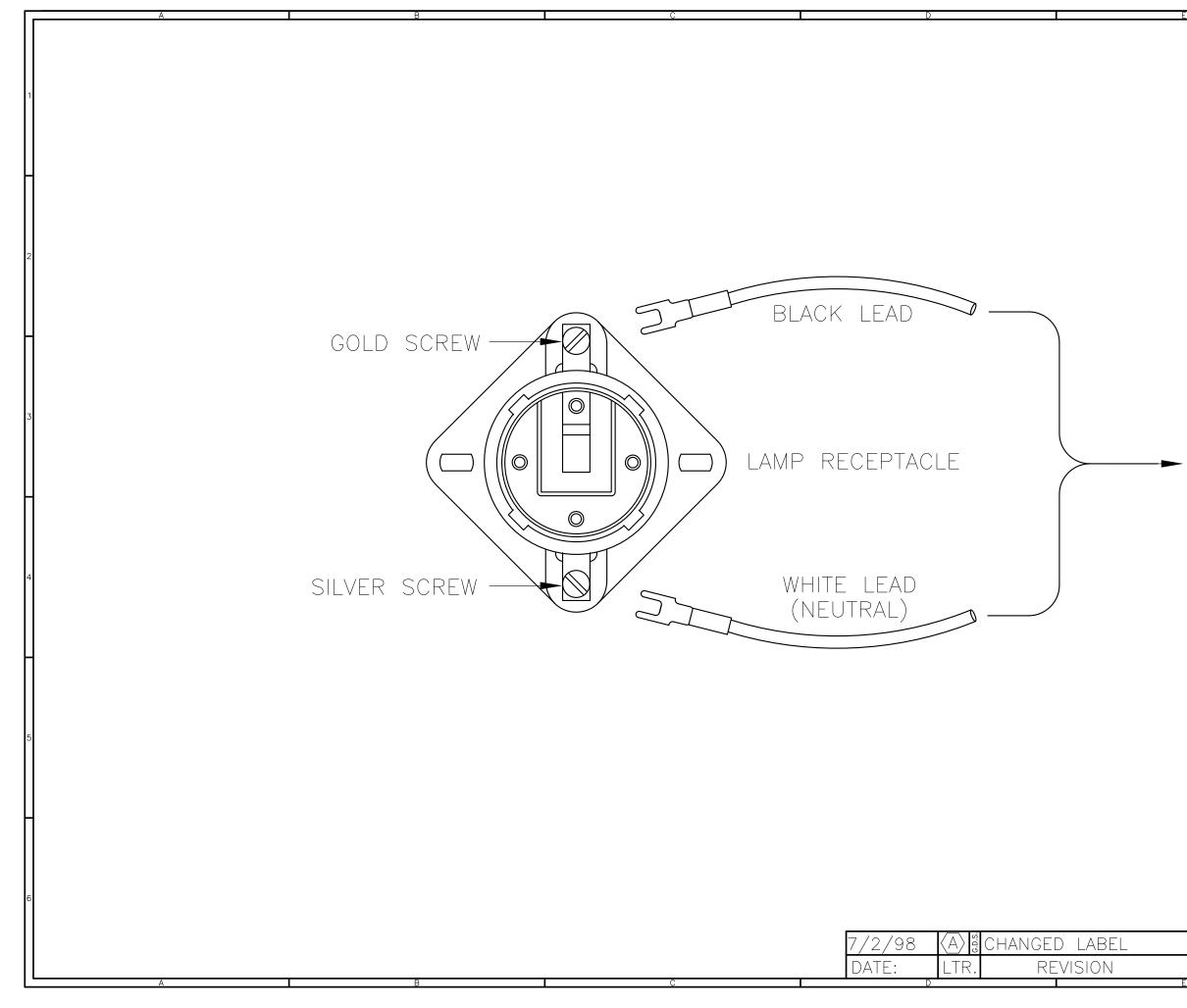
\* = PART NOT SHOWN

~ = PART SOLD SEPARATELY

#### NOTE:

1. FAA APPROVED LIGHT USES THE 116A21TS LAMP. OTHER LAMPS ARE AVAILABLE TO MEET YOUR APPLICATION.





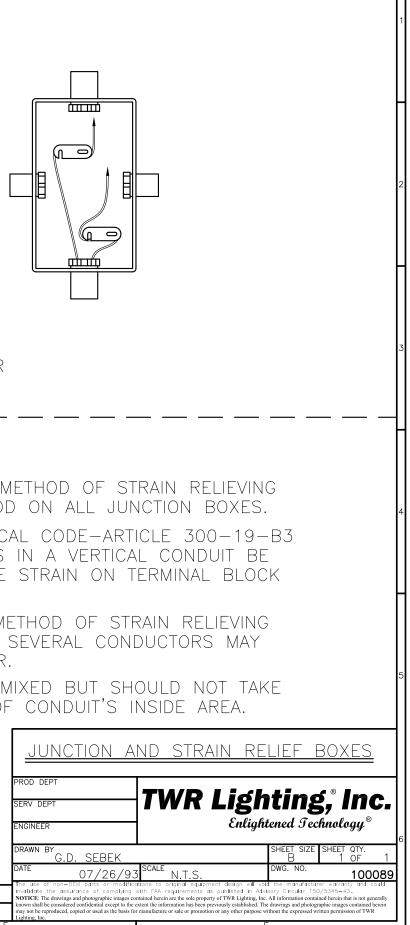
# TO JUNCTION BOX

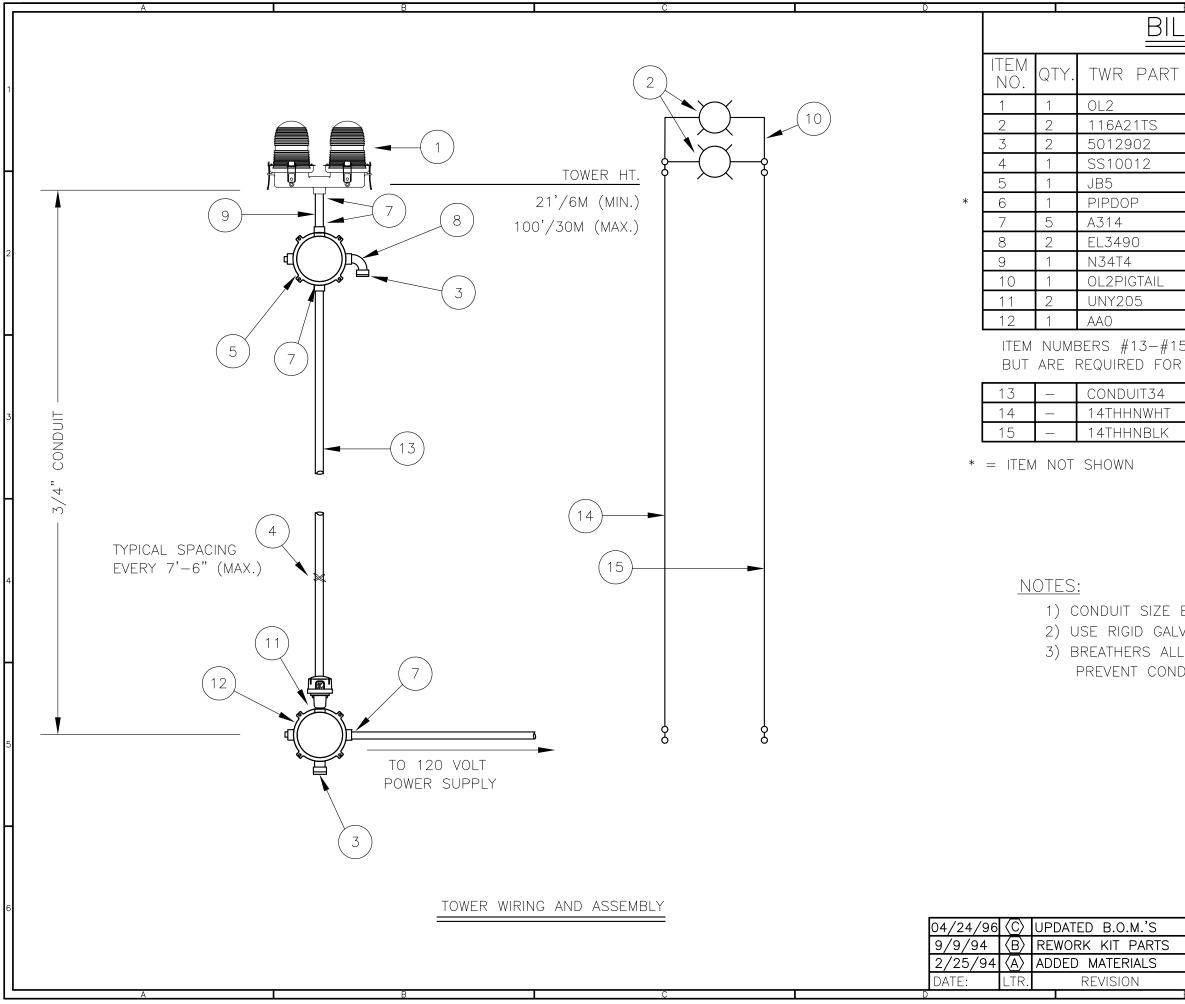
|--|

PROD DEPT SERV DEPT ENGINEER	TWR Lighting Enlightened Tech	5,° Inc. <sup>3nology®</sup>	HARK	e
drawn by G.D. SEBEK		sheet size B	SHEET QTY. 1 OF 1	
 DATE 06/08/91	I <sup>scale</sup> N.T.S.	DWG. NO.	274–S	
The use of non-OEM parts or modifications to original equipment design will void the manufacturer warranty and could invalidate the assurance of complying with FAA requirements as published in Advisory Circular 150/5345-43. NOTICE: The drawings and photographic images contained herein are the sole property of TWR Lighting, Inc. All information contained herein that is not generally				
known shall be considered confidential except to the e	tained herein are the sole property of TWR Lighting, Inc. xtent the information has been previously established. The manufacture or sale or promotion or any other purpose wi	drawings and photogr	aphic images contained herein	

Α		В		C	D	<u>E</u>
3	JB-5 AND 3/4" JUNCTION					ND JB-8SR Iction box
using this .	JUNCTION BOX METI	HOD SPACING	IS 100 FEET		2) THE NATION	THIS METHOD Al electrica
		RES IN 1"	WIRE AREA SQ. INCHES	WEIGHT PER 100 FEET	SUPPORTED Connection 3) Sketch illi	
5 12 THHN 10 THHN 8 THHN 6 THHN 4 THHN		26 17 9 7 4	0.0117 0.0184 0.0373 0.0519 0.0845		BE GROUPEI 4) CONDUCTOR	D TOGETHER.
6						Ĩ

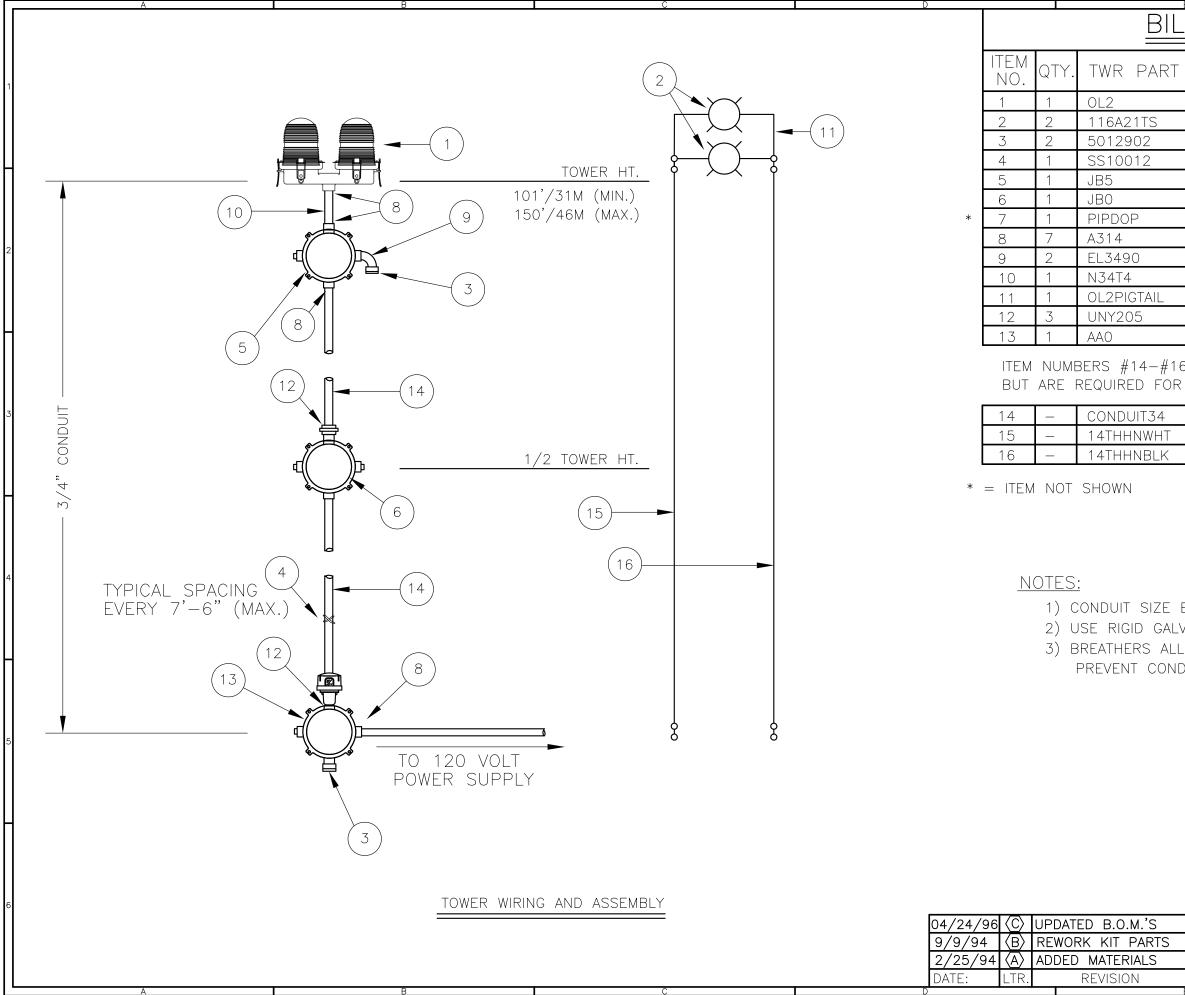
	9/29/00	A) ä	UPDATED NOTES
	DATE:	LTR.	REVISION
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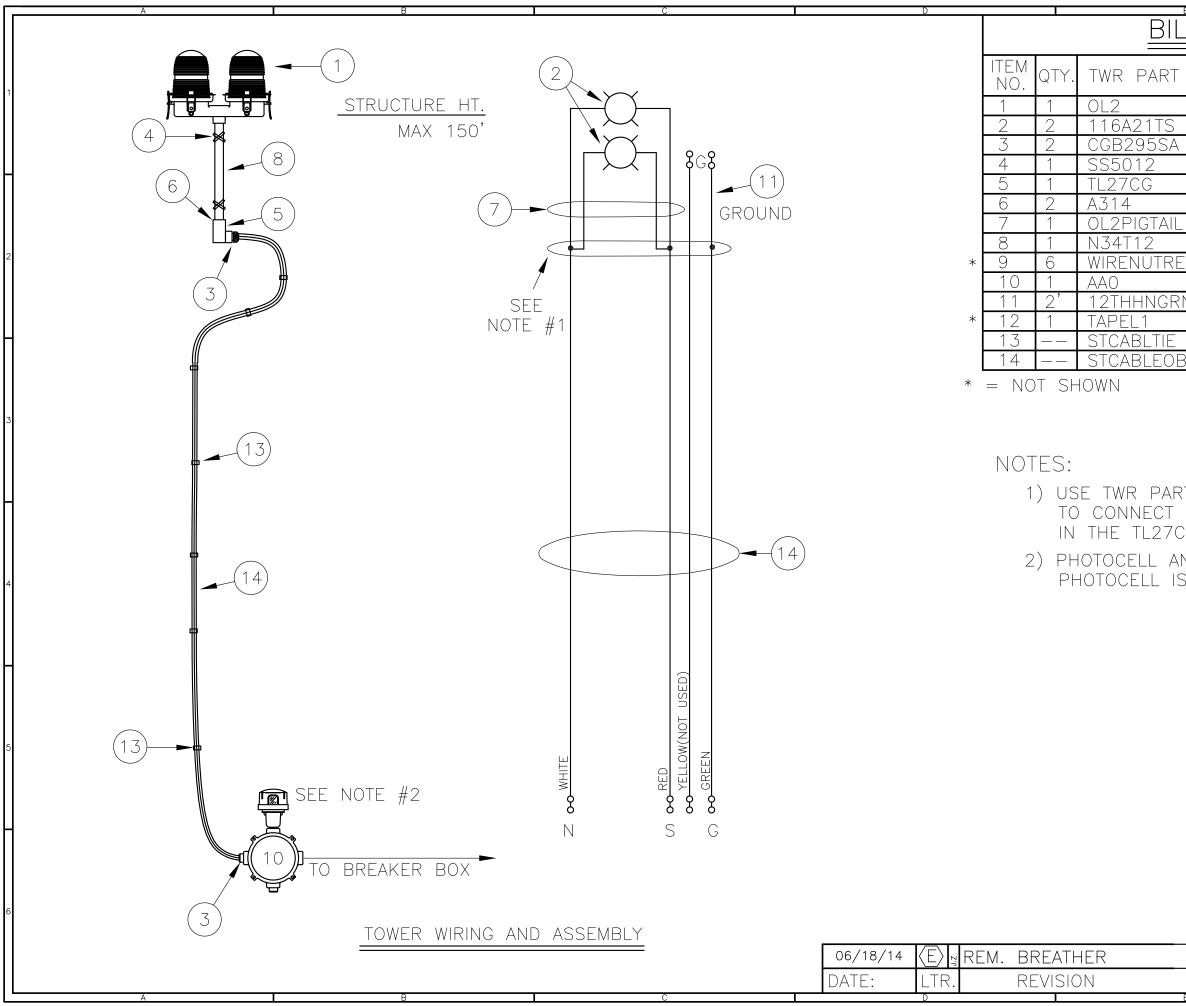
E	F	_
LL (	OF MATERIALS	
T NO.	DESCRIPTION	1
	DOUBLE OBSTRUCTION LIGHT	
	116 WATT 120 VOLT LAMP	
	BREATHER	
	WRAPLOCK 3/4" JUNCTION BOX	Н
	4 oz. PIPE DOPE	
	3/4" CONDUIT LOCKNUTS	
	3/4"90°SHORT ELBOW	
	3/4" X 4" CONDUIT NIPPLE	2
	18" OL2 PIGTAIL	
	3/4" UNION	
	AAO NON-ALARMED CONTROLLER	Ц
	NOT INCLUDED IN THE KIT	
r insta	ALLATION.	
	3/4" CONDUIT (TWR HT. + 30'/9M)	
	#14 THHN WHT. WIRE (TWR HT.+40'/12M)	3
	#14 THHN BLK. WIRE (TWR HT.+40'/12M)	
		Π
		4
	ON USING TYPE THHN WIRE.	
	D STEEL CONDUIT.	
low fo Idensat	OR CIRCULATION OF AIR TO	Н
DLIISAI	HON.	
		5
	<u>lk1ao lighting kit w/non-alarmed</u>	
=	ONTROLLER (TOWERS 21'/6M TO 100'/30M)	
PROD DE		
SERV DE		
ENGINEE		6
DRAWN E	E.A.SALAZAR B 1 OF 1	
DATE	1/5/93 SCALE N.T.S. DWG. NO. 259-01	

The use of non-OEM parts or modifications to rightal equipment design will vold the manufacturer warranty and could invalidate the assurance of Con FAA requirements as published in Advisory Circular 150/5345-43. NOTICE: The drawings and photographic images contained herein are the sole property of TWR Lighting. Inc. All information contained herein that is not get known shall be considered confidential except to the extent the information has been provisely established. The drawings and photographic images contained may not be produced, copied or used as the basis for manufacture or sale or promotion or any other propose without the expressed written permission of TWI

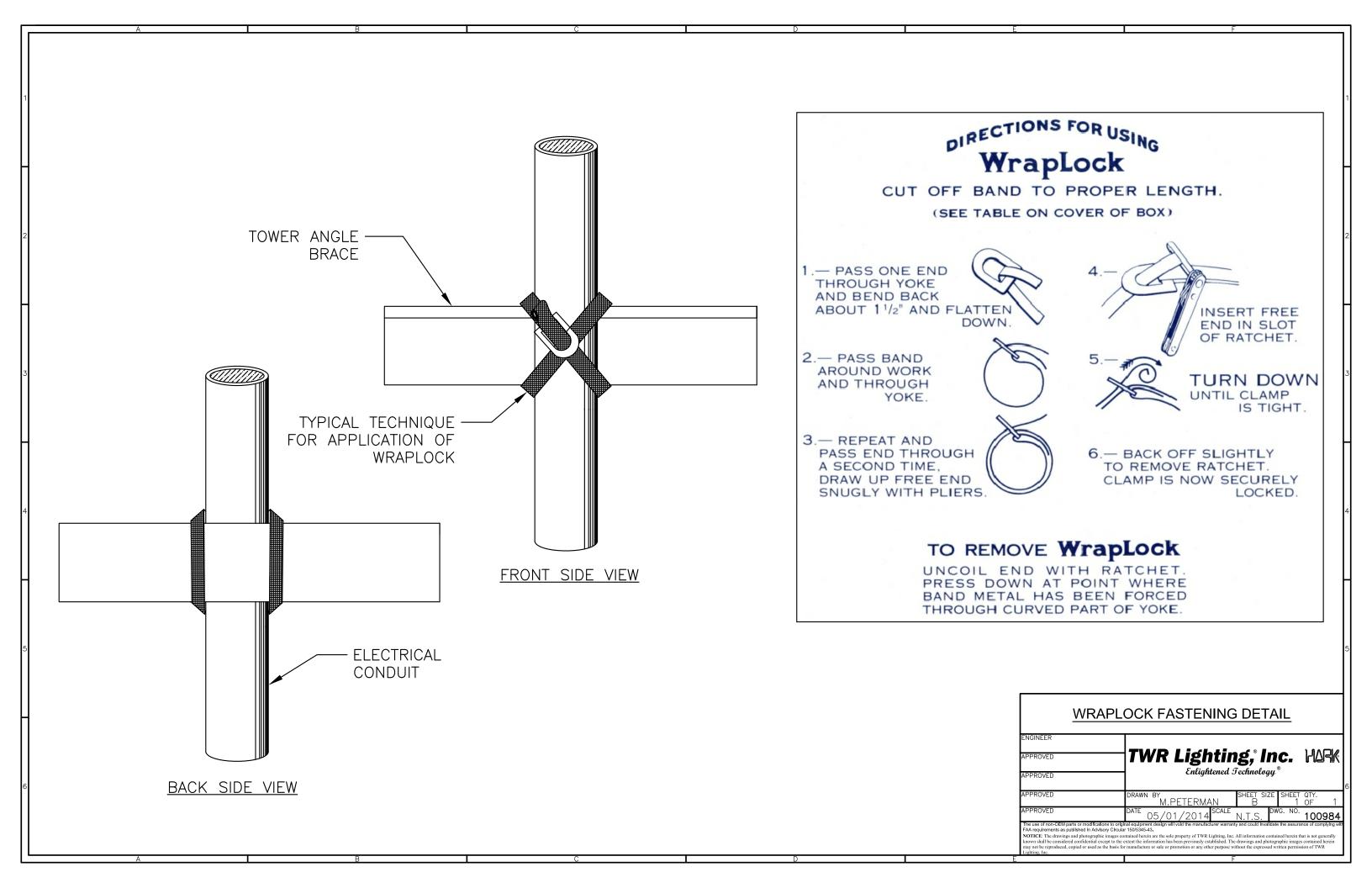


E	F	_
	OF MATERIALS	
T NO.	DESCRIPTION	1
	DOUBLE OBSTRUCTION LIGHT	
	116 WATT 120 VOLT LAMP BREATHER	
	WRAPLOCK	Ц
	3/4" JUNCTION BOX	
	3/4" STRAIN RELIEF BOX 4 oz. PIPE DOPE	$\left  \right $
	3/4" CONDUIT LOCKNUTS	
	3/4"90° SHORT ELBOW	2
	3/4" X 4" CONDUIT NIPPLE 18" OL2 PIGTAIL	$\left  \right $
	3/4" UNION	
	AAO NON-ALARMED CONTROLLER	Η
16 ARE	NOT INCLUDED IN THE KIT	
r insta	ALLATION.	
	3/4" CONDUIT (TWR HT. + 30'/9M)	3
	#14 THHN WHT. WIRE (TWR HT.+40'/12M)	
	#14 THHN BLK. WIRE (TWR HT.+40'/12M)	$\left\  \right\ $
		Ц
		4
	ON USING TYPE THHN WIRE.	
	D STEEL CONDUIT. DR CIRCULATION OF AIR TO	
IDENSAT		Η
		5
	LK2AO LIGHTING KIT W/NON-ALARMED	
PROD DE		$\left\  \right\ $
SERV DE	TWR Lighting, Inc.	$\ $
ENGINEEF	Enlightened Technology®	6
DRAWN E	E.A.SALAZAR B 1 OF 1	ľ
DATE	DWG, NO.	11

DATE 1/5/93 SCALE N.T.S. DWG. NO. 259–02 The use of nor-OEM parts or modifications to orbiful equipment design will vold the manufacturer warranty and could hvalidate the assurance of complying will FAA requirements as published in Advisory Circular 150/534543. NOTICE: The drawings and photographic images contained herein at the sole property of TWR Lighting. Inc. All information contained herein that is not generally known shall be considered confidential except to the extent the information has been previously established. The drawings and photographic images contained herein may not be reproduced, copied or used as the basis for manufacturer or sale or promotion or any other purpose without the expressed written permission of TWR Lighting, Inc.



	DF MATERIALS	]
NO.	DESCRIPTION	1
N	DOUBLE OBSTRUCTION LIGHT 116 WATT 120 VOLT LAMP 3/4" CORD CONNECTOR .562	'
	WRAPLOCK 50' L CONDULET W/COVER & GASKET 3/4" CONDUIT LOCKNUTS 18" OL2 PIGTAIL	-
ED RN	3/4" X 12" NIPPLE RED WIRE NUT AAO CONTROLLER #12 THHN GREEN WIRE BLACK ELECTRICAL TAPE	2
В	CABLE TIES (TWR. HT. ÷ 5) WIRE CABLE (TWR HT. + 30')	
от #\м/	UDENILITDED AND TADEL 1	3
STĈA CG. ND P	IRENUTRED AND TAPEL1 BLEOB WIRE TO OL2PIGTAIL IGTAIL PROVIDED WITH CONTROLLER. BE MOUNTED OUTDOORS.	4
		5
	AAO LIGHTING KIT W/ CABLE FOR OL2 LIGHT	
PROD DE SERV DEF ENGINEER	TWR Lighting, Inc.	6
DRAWN B DATE	G.D. SEBEK B 1 OF   04/14/98 SCALE N.T.S. DWG. NO. T10333   n-OEM parts or modifications to original equipment design will wold the manufacturer warranty and could invalidate the assurance of complying with T1033	
NOTICE: The known shall be	ents as published in Advisory Clrcular 150/5345-43, drawings and photographic images contained herein are the sole property of TWR Lighting, Inc. All information contained herein that is not generally considered confidential except to the extent the information has been previously established. The drawings and photographic images contained herein roduced, copied or used as the basis for manufacture or as all or promotion or any other purpose without the expressed written permission of TWR	





#### Warranty & Return Policy

**TWR Lighting<sup>®</sup>**, **Inc. ("TWR<sup>®</sup>") warrants its products (other than "LED Product")** against defects in design, material (excluding incandescent bulbs) and workmanship for a period ending on the earlier of two (2) years from the date of shipment or one (1) year from the date of installation.

**TWR Lighting<sup>®</sup>**, **Inc.** ("**TWR**<sup>®</sup>") **warrants its "LED Product**" against defects in design, material and workmanship for a period of five (5) years from the date of shipment. TWR<sup>®</sup>, at its sole option, will, itself, or through others, repair, replace or refund the purchase price paid for "LED Product" that TWR<sup>®</sup> verifies as being inoperable due to original design, material, or workmanship. All warranty replacement "LED Product" is warranted only for the remainder of the original warranty of the "LED Product" replaced. Replacement "LED Product" will be equivalent in function, but not necessarily identical, to the replaced "LED Product."

**TWR Lighting<sup>®</sup>**, **Inc. ("TWR<sup>®</sup>") warrants its "LED Product"** against light degradation for a period of five (5) years from the date of installation. TWR<sup>®</sup>, at its sole option, will, itself, or through others, repair, replace, or refund the purchase price paid for "LED Product" that TWR<sup>®</sup> verifies as failing to meet 75% of the minimum intensity requirements as defined in the FAA Advisory Circular 150/5345-43G dated 09/26/12. All warranty replacement "LED Product" is warranted only for the remainder of the original warranty of the "LED Product" replaced. Replacement "LED Product" will be equivalent in function, but not necessarily identical, to the replaced "LED Product."

# **Replacement parts (other than "LED Product") are warranted for 90 days from the date of shipment.**

Conditions not covered by this Warranty, or which might **void** this Warranty are as follows:

- x Improper Installation or Operation
- x Misuse
- x Abuse
- x Unauthorized or Improper Repair or Alteration
- x Accident or Negligence in Use, Storage, Transportation, or Handling
- x Any Acts of God or Nature
- x Non-OEM Parts

The use of Non-OEM parts or modifications to original equipment design will void the manufacturer warranty and could invalidate the assurance of complying with FAA requirements as published in Advisory Circular 150/5345-43.



### Warranty & Return Policy

(continued)

**Field Service** – Labor, Travel, and Tower Climb are not covered under warranty. Customer shall be obligated to pay for all incurred charges. An extensive network of certified and insured Service Representatives is available if requested.

**Repair, Replacement or Product Return RMA Terms** – You must first contact our Customer Service Department at **713-973-6905** to acquire a Return Merchandise Authorization (RMA) number in order to return the product(s). Please have the following information available when requesting an RMA number:

- x The contact name and phone number of the tower owner or
- x The contact name and phone number of the contractor
- x The site name and number
- x The part number(s)
- x The serial number(s) (if any)
- x A description of the problem
- x The billing information
- x The Ship To address

This RMA number must be clearly visible on the outside of the box. If the RMA number is not clearly labeled on the outside of the box, your shipment will be refused. Please ensure the material you are returning is packaged carefully. The warranty is null and void if the product(s) are damaged in the return shipment.

# All RMAs must be received by TWR LIGHTING<sup>®</sup>, INC., 10810 W. LITTLE YORK RD. #130, HOUSTON, TX 77041-4051, within 30 days of issuance.

Upon full compliance with the Return Terms, TWR<sup>®</sup> will replace, repair and return, or credit product(s) returned by the customer. It is TWR<sup>®</sup>'s sole discretion to determine the disposition of the returned item(s).



## Warranty & Return Policy

(continued)

**<u>RMA Replacements</u>** – Replacement part(s) will be shipped and billed to the customer for product(s) considered as Warranty, pending return of defective product(s). When available, a certified reconditioned part is shipped as warranty replacement with a Return Merchandise Authorization (RMA) number attached. Upon receipt of returned product(s), inspection, testing, and evaluation will be performed to determine the cause of defect. The customer is then notified of the determination of the testing.

- x Product(s) that is deemed defective and/or unrepairable and covered under warranty a credit will be issued to the customer's account.
- x Product(s) found to have no defect will be subject to a **\$75.00 per hour testing charge (1 hour minimum), which will be invoiced to the customer.** At this time the customer may decide to have the tested part(s) returned and is responsible for the return charges.
- x Product(s) under warranty, which the customer does not wish returned, the customer will be issued a credit against the replacement invoice.

**<u>RMA Repair & Return</u>** – A Return Merchandise Authorization (RMA) will be issued for all part(s) returned to TWR<sup>®</sup> for repair. Upon receipt of returned product(s), inspection, testing, and evaluation will be performed to determine the cause of defect. The customer is then notified of the determination of the testing. If the returned part(s) is deemed unrepairable, or the returned part(s) is found to have no defect, the customer will be subject to a **\$75.00 per hour testing charge (1 hour minimum), which will be invoiced to the customer.** Should the returned parts be determined to be repairable, a written estimated cost of repair will be sent to the customer for their written approval prior to any work being performed. In order to have the tested part(s) repaired and/or returned, the customer must issue a purchase order and is responsible for the return shipping charges.

**RMA Return to Stock** – Any product order that is returned to TWR<sup>®</sup> for part(s) ordered incorrectly or found to be unneeded upon receipt by the customer, the customer may be required to pay a minimum **20% restocking fee**. Product returned for credit must be returned within 60-days of original purchase, be in new and resalable condition, and in original packaging. Once the product is received by TWR it's condition will be evaluated and a credit will be issued only once it is determined that the RMA Return Terms have been met.

<u>Credits</u> – Credits are issued once it is determined that all of the Warranty and Return Terms are met. All credits are processed on Fridays. In the event a Friday falls on a Holiday, the credit will be issued on the following Friday.



#### Warranty & Return Policy

(continued)

**<u>Freight</u>** – All warranty replacement part(s) will be shipped via ground delivery and paid for by TWR<sup>®</sup>. Delivery other than ground is the responsibility of the customer.

REMEDIES UNDER THIS WARRANTY ARE LIMITED TO PROVISIONS OF REPLACEMENT PARTS AND REPAIRS AS SPECIFICALLY PROVIDED. IN NO EVENT SHALL TWR® BE LIABLE FOR ANY OTHER LOSSES, DAMAGES, COSTS, OR EXPENSES INCURRED BY THE CUSTOMER, INCLUDING, BUT NOT LIMITED TO, LOSS FROM FAILURE OF THE PRODUCT(S) TO OPERATE FOR ANY TIME, AND ALL OTHER DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, INCLUDING ALL PERSONAL INJURY OR PROPERTY DAMAGE DUE TO ALLEGED NEGLIGENCE, OR ANY OTHER LEGAL THEORY WHATSOEVER. THIS WARRANTY IS MADE BY TWR® EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESSED OR IMPLIED. WITHOUT LIMITING THE **TWR<sup>®</sup>** THE FORGOING. MAKES NO WARRANTY GENERALITY OF OF MERCHANTABILITY OR FITNESS OF THE PRODUCT(S) FOR ANY PARTICULAR PURPOSE. TWR® EXPRESSLY DISCLAIMS ALL OTHER WARRANTIES.



### **RETURN MERCHANDISE AUTHORIZATION (RMA) FORM**

RMA#:	DATE:
CUSTOMER:	
	PHONE NO.:
	):
	SERIAL NO.:
ORIGINAL TWR INVOICE NO.:	DATED:
DESCRIPTION OF PROBLEM:	
	DATE NEEDED:
RETURN ADDRESS: PLEASE RETURN PRODUCT TO: 10810 W	. LITTLE YORK RD., #130 HOUSTON, TX 77041-4051



### **RETURN MERCHANDISE AUTHORIZATION (RMA) FORM**

RMA#:	DATE:
CUSTOMER:	
	PHONE NO.:
	):
	SERIAL NO.:
ORIGINAL TWR INVOICE NO.:	DATED:
DESCRIPTION OF PROBLEM:	
	DATE NEEDED:
RETURN ADDRESS: PLEASE RETURN PRODUCT TO: 10810 W	. LITTLE YORK RD., #130 HOUSTON, TX 77041-4051