

PROFESSIONAL 18 INCH ROTARY SURFACE CLEANER

AW-7020-8000

OPERATING INSTRUCTIONS AND PARTS LIST

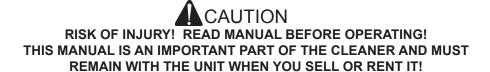


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INTRODUCTION

Congratulations on the purchase of your new Mi-T-M Rotary Surface Cleaner! You can be assured this Cleaner was constructed and designed with quality and performance in mind. Each component has been rigorously tested to ensure the highest level of acceptance.

Your Rotary Surface Cleaner is equipped with a heavy duty high pressure swivel with the versatility of using this Cleaner in both cold and hot water applications. Simply connect the rotary surface Cleaner to your pressure washer, pull the trigger and walk behind for fast and efficient cleaning!

This manual was compiled for your benefit. The contents of this manual are based on the latest product information available at the time of publication. Mi-T-M reserves the right to make changes in price, color, material, equipment, specifications or models at any time without notice.

! IMPORTANT!

These paragraphs are surrounded by a "SAFETY ALERT BOX". This box is used to designate and emphasize Safety Warnings that must be followed when operating this Rotary Surface Cleaner. Accompanying the safety warnings are "signal words" which designate the degree or level of hazard seriousness. The "signal words" used in this manual are as follows:

DANGER: Indicates an imminently hazardous situation which,

if not avoided, WILL result in death or serious injury.

WARNING: Indicates a potentially hazardous situation which, if

not avoided, COULD result in death or serious injury.

CAUTION: Indicates a potentially hazardous situation which, if

not avoided MAY result in minor or moderate injury.



The symbols set to the left of this paragraph are "Safety Alert Symbols". These symbols are used to call attention to items or procedures that could be dangerous to you or other persons using this equipment.

ALWAYS PROVIDE A COPY OF THIS MANUAL TO ANYONE USING THIS EQUIPMENT. READ ALL INSTRUCTIONS IN THIS MANUAL AND ANY INSTRUCTIONS SUPPLIED BY MANUFACTURERS OF SUPPORTING EQUIPMENT BEFORE OPERATING THIS UNIT AND ESPECIALLY POINT OUT THE "SAFETY WARNINGS" TO PREVENT THE POSSIBILITY OF PERSONAL INJURY TO THE OPERATOR.

Unbox the unit and inspect for signs of obvious or concealed freight damage. Be sure that all damaged parts are replaced and the mechanical problems are corrected prior to the operation of the cleaner. Write in the serial number in the space provided below.

If you have questions, contact your Customer Service Representative at 800-553-9053.

Please have the following information available for all service calls:

- Model Number
- Serial Number
- 3 Date and Place of Purchase

SPECIFICATIONS

Operating Pressure (PSI/ BAR)	2000-4000/ 138-276
Water Volume (GPM/ IPM)	3.0-10.0/ 11.36- 37.85
Maximum Temperature (°F/ °C)	212°/ 100°
Maximum RPM	2500
Unit Net Weight (lbs./ Kg)	19/ 8.62
Unit Net Dimensions (IN/ CM)	L18.75 x W18.75 x H71.25/ L47.6 x W47.6 x H181.0
Unit Shipping Weight (lbs./ Kg)	25/ 11.34
Unit Shipping Dimensions (IN/ CM)	L35.0 x W19.75 x H10.25/ L88.9 x W50.2 x H26.0



SAFETY WARNINGS



When using this product, basic precautions should always be observed, including the following: READ ALL SAFETY WARNINGS BEFORE USING ROTARY SURFACE CLEANER

	NINGS BEFORE USING ROT	ARY SURFACE CLEANER
HAZARD	POTENTIAL CONSEQUENCE	PREVENTION
RISK OF INJECTION OR SEVERE CUTTING INJURY	Serious injury or death could occur from high pressure spray penetrating the skin.	Keep clear of nozzle and spray! Never put your hand, fingers or body directly over the spray nozzle.
4		Never point the high pressure discharge spray at yourself or anyone else.
1/200		This product is to be used only by trained operators.
		Always keep operating area clear of all persons.
		DO NOT allow children to operate this unit.
		If an accident does occur, and the spray appears to have penetrated the skin, SEEK EMERGENCY MEDICAL CARE. DO NOT TREAT AS A SIMPLE CUT! Be prepared to tell a physician exactly what kind of cleaning agents you were using by reading the Detergent Label and the Material Safety Data Sheet (MSDS) provided with your detergent.
		High pressure hoses should be inspected daily for signs of wear. If evidence of failure exists, promptly replace all suspect hoses to prevent the possibility of injury from the high pressure spray. If a hose or fitting is leaking, NEVER PLACE YOUR HAND DIRECTLY ON THE LEAK.
		Before using rotary surface cleaner, or when quick connecting high pressure hoses, be certain the "collar" on the female quick connect is locked securely to prevent accidental discharge and that all quick coupler fittings are secure.
		NEVER operate the gun with the trigger wired in the open position. To prevent accidental discharge, the trigger gun should be securely locked when not in use.
	Do not make repairs or adjustments while unit is running.	Before removing the spray nozzle or servicing the unit, ALWAYS shut off the unit and trigger the gun to release trapped pressure. (Even after you shut off the unit, there is high pressure water left in the unit until you release it by triggering the gun.) Allow the unit to cool down and service in a clean, dry, flat area.



SAFETY WARNINGS READ ALL SAFETY WARNINGS BEFORE USING ROTARY SURFACE CLEAN

HAZARD CONS RISK OF BURNS Serious inju	TENTIAL SEQUENCE Iry may occur ng Hot Surfaces.	PREVENTION The Rotary Surface Cleaner is capable of accepting a maximum of 212°F. When using in a hot water application, do not touch or direct discharge stream at persons. Be cautious of hose fittings as surface
The state of the s		capable of accepting a maximum of 212°F. When using in a hot water application, do not touch or direct discharge stream at persons. Be cautious of hose fittings as surface
		temperatures are the same as the water temperature.
1 ,	ry or death rom detergents or penetrating	SEEK EMERGENCY MEDICAL CARE if the spray appears to have penetrated the skin! DO NOT TREAT AS A SIMPLE CUT! Be prepared to tell a physician exactly what kind of cleaning agents you were using by reading the Material Safety Data Sheet (MSDS) provided with your detergent.
		Never use any solvents or highly corrosive detergents or acid type cleaners with this rotary surface cleaner.
		Protective equipment such as rubber suits, gloves and respirators are advisable, especially when using cleaning detergents.
		Keep all detergents out of the reach of children!
Serious injury can occur from loose debris being propelled at a high speed from the spray gun.	debris being t a high speed	ALWAYS wear protective goggles when operating the unit to shield the eyes from flying debris and detergents.
nom the sp	ray guii.	DO NOT direct spray toward fragile materials such as glass for shattering could occur.
caused by t	ses his balance he thrust of	Stay alert-watch what you are doing. Do not operate the unit when fatigued or under the influence of alcohol or drugs.
spray nozzl	ing through the e.	NEVER squeeze the trigger unless securely braced.
		DO NOT overreach or stand on unstable support.
		Wet surfaces can be slippery, wear protective foot gear and keep good footing and balance at all times.



SAFETY WARNINGS

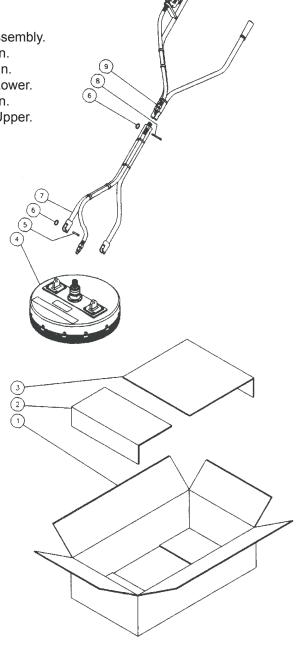


READ ALL SAFETY W	ARNINGS BEFORE USI	NG ROTARY SURFACE CLEANER
HAZARD	POTENTIAL CONSEQUENCE	PREVENTION
RISK OF BODILY INJURY	Injury may occur from the rotary surface cleaner.	ALWAYS hold on firmly to the handles of the Rotary Surface Cleaner when operating the unit. Failure to do so can cause the Cleaner to move dangerously. To prevent accidental discharge, the trigger gun should be securely locked when not in use. Always wear eye and ear protection when using the Rotary Surface
		Cleaner. Other protective clothing such as a rubber suit, gloves, respirator, etc., may be necessary when using detergents.
		Never make adjustments on the machine while in operation.
		DO NOT leave pressurized unit unattended. Shut off the pressure washer and release trapped pressure before leaving.
		Know how to stop the Rotary Surface Cleaner. Be thoroughly familiar with controls.

!SAVE THESE INSTRUCTIONS!

FEATURES

- 1. Box.
- 2. Insert.
- 3. Insert.
- 4. Cover Assembly.
- 5. Clevis Pin.
- 6. Bridge Pin.
- 7. Handle-Lower.
- 8. Clevis Pin.
- 9. Handle-Upper.



INSTALLATION & PREPARATION

NOZZLE SELECTION & INSTALLATION:

- Your Rotary Surface Cleaner will come installed with one set of 2502.5 nozzles.
 - a. The minimum orifice size to be used in your Rotary Surface Cleaner is half that which is being used in your pressure washer. Example: If your pressure washer uses a size 5 orifice, you will need to use a size 2.5 orifice in your Rotary Surface Cleaner. (Two nozzles are inserted in the Rotary Surface Cleaner, therefore; two nozzles x size 2.5 orifice = size 5 orifice.)
 - b. The nozzles being used should have a 15°-25° spray pattern; anything less than a 15° spray pattern can damage the area being cleaned. Anything more than 25° may not allow the bar to rotate.

Nozzle

Spray Pattern (Parallel to Bar) Rotating Bar

2. Nozzles should be screwed into the rotating bar. The spray fan should be parallel to the Rotating Bar. (See figure at right.)

UNIT ASSEMBLY:

- 1. Line up the holes on the lower part of handle (7) with the holes on the cover assembly (4).
- 2. Insert the clevis pins (5) through the handle and cover holes and attach to the bridge pins (6).
- 3. Attach the upper handle (9) by lining up the hole in the upper and lower handle. Push the clevis pin (8) through the aligned hole and attach to the bridge pin (6).
- 4. Quick connect the Rotary Surface Cleaner hose assembly to the handle center and to the swivel located on the unit base.

SET-UP:

- Locate the high pressure discharge hose on your pressure washer and ensure it is securely connected to the water outlet of the pressure washer. Quick connect the other end of the high pressure discharge hose to the gun on the Rotary Surface Cleaner.
- Connect the water supply hose, one end to your pressure washer, the other end to a pressurized water supply.

SURFACE PREPARATION:

- 1. Clear any loose debris from the area to be cleaned.
- Never attempt to clean surface with objects that protrude from the surface being cleaned. Striking any raised obstacle during operation will damage machine. If contact does occur and results in vibration when operating machine, STOP and replace spray bar.



Risk of Injury or damage to machine!!

NEVER OPERATE THE UNIT IF IT BEGINS TO VIBRATE!

Shutdown the unit and tighten the rotating bar, bolts and fittings.

INSTALLATION & PREPARATION

PRE-START INSPECTION PROCEDURES:

- Inspect Rotary Surface Cleaner before each use. Tighten rotating bar, bolts and fittings as needed.
- Ensure all connections are secure. Turn the water supply completely "ON". (DO NOT START PRESSURE WASHER!)
- 3. Inspect hoses for kinking, cut or leaks. If found, DO NOT USE HOSE! Replace damaged hoses before starting.
- Unlock the trigger gun and squeeze the trigger. Water will begin flowing from the nozzles of the Surface Cleaner. Ensure nozzles are not clogged and spray pattern is not erratic. Change nozzles before proceeding if problems exist.
- Be sure that all damaged parts are replaced and that the mechanical problems are corrected prior to operation. If you need service, contact an Authorized Service Center.



♠ END OF PREPARATION INSTRUCTIONS





THE FOLLOWING CONTAINS OPERATING AND MAINTENANCE INSTRUCTIONS.

DO NOT ATTEMPT TO OPERATE THIS ROTARY SURFACE
CLEANER UNTIL YOU HAVE <u>READ AND UNDERSTOOD</u> ALL
SAFETY WARNING AND INSTRUCTIONS LISTED IN THIS MANUAL.

INCORRECT OPERATION OF THIS UNIT CAN CAUSE SERIOUS INJURY!!

DO NOT ALTER OR MODIFY THIS EQUIPMENT IN ANY MANNER!

OPERATION

START-UP:

- Lock the trigger gun on the Rotary Surface Cleaner in the "OFF" position (move the lever on the gun handle to a 90° angle so it rests against the handle grip).
- 2. Ensure all connections are secure.
- Unlock the trigger gun and squeeze the trigger while starting the Pressure Washer.
- 4. Water will begin flowing from the nozzles of the Surface Cleaner. Ensure nozzles are not clogged and spray pattern is not erratic. Turn the pressure washer and water supply off and change nozzles before proceeding if problems exist.
- Walk slowly behind the unit, cleaning as you go. If striping occurs, slow down the pace. Do not allow machine to remain stationary on soft surfaces such as wood.
- 6. Check "weep holes" on top of the swivel periodically. Water will seep slowly. If it shoots out, shut-down the unit and replace seals and/or main seal.

CAUTION

Risk of Injury or damage to machine!!
NEVER OPERATE THE UNIT IF IT BEGINS TO VIBRATE!
Shutdown the unit and tighten the rotating bar, bolts and fittings.

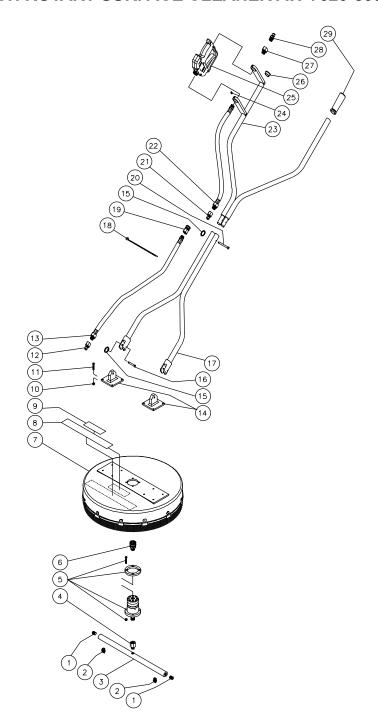
SHUT-DOWN:

- 1. Turn the Pressure Washer off.
- 2. Turn the water supply off.
- 3. Squeeze the trigger gun to relieve water pressure.
- 4. Disconnect and drain the water hose and wipe down unit. Store unit in a non-freezing environment.

TROUBLESHOOTING

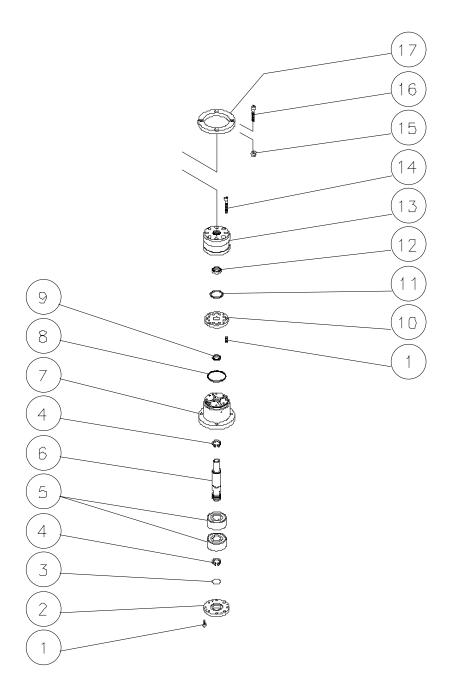
PROBLEM	PROBABLE CAUSE	REMEDY
Inadequate cleaning power.	Not enough PSI from pressure washer.	Ensure unit produces a minimum 2000 PSI. Most effective cleaning range is 2500-4000 PSI.
	Inadequate water supply.	Turn water supply completely "ON" and/ or clean water filter on pressure washer. Ensure unit produces a minimum of 3.0 GPM.
	Engine RPM on pressure washer is too low.	Increase throttle.
	Nozzle obstructed or worn.	Clean or replace as necessary.
	Incorrect nozzle orifice size.	Insert correct nozzle.
Rotating bar will not rotate.	Seal has drag.	Allow for break-in period.
	Snap ring dislodged.	Do not use! Contact your Customer Service.
	Seal malfunction.	Do not use! Contact your Customer Service.
	Bearing failure.	Do not use! Contact your Customer Service.
Excessive vibration of Surface Cleaner OR	Nozzle clogged.	Clean or replace.
Cleaner base is creating a suction to the surface.	Rotating bar, bolts or fittings loose.	Tighten.
	Rotating bar or swivel rotor bent.	Replace.
Streaked cleaning pattern.	Insufficient water supply OR PSI of pressure washer is too low. (Won't allow Rotating Bar to move.)	Increase water supply OR ensure pressure is a minimum of 2000 PSI and GPM is a minimum of 3.0.
	Nozzle clogged.	Clean or replace.
	Cleaning too fast.	Slow down pace.
Water weeping from swivel.	Small amount of seepage is normal.	No modification is necessary.
Water shooting from swivel.	Seal malfunction.	Replace.

18 INCH ROTARY SURFACE CLEANER AW-7020-8000



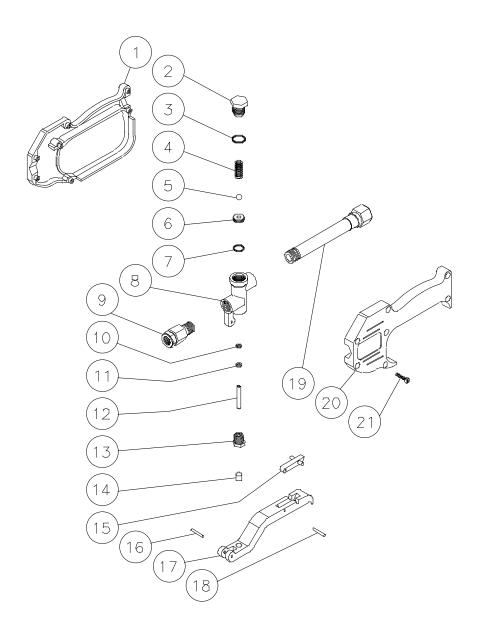
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- Spray Nozzle- 1502	1	Screw	27-8911	2
- Spray Nozzle- 1502.5	2	Spray Nozzle- 1501.5	18-0294	2
- Spray Nozzle- 1503	-	Spray Nozzle- 1502	18-0295	2
- Spray Nozzle- 2501.5	-	Spray Nozzle- 1502.5	18-0096	2
- Spray Nozzle- 2502	-	Spray Nozzle- 1503	18-0053	2
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17 Lower Handle 7-0147 1 18 Wire Tie 33-0022 7 19 Quick Connect 17-0001 1 20 Clevis Pin 43-0098 1 21 Quick Connect 17-0017 1 22 High Pressure Hose *(Three Feet Required) 15-0182 1 23 Upper Handle 7-0148 1 24 Screw 27-8913 2 25 Trigger Gun 16-0351 1 26 Cap 62-0108 1 27 Reducer 23-0342 1 28 Quick Connect 17-0005 1 29 Grip 7-0149 1	15	Bridge Pin	43-0096	3
18 Wire Tie 33-0022 7 19 Quick Connect 17-0001 1 20 Clevis Pin 43-0098 1 21 Quick Connect 17-0017 1 22 High Pressure Hose *(Three Feet Required) 15-0182 1 23 Upper Handle 7-0148 1 24 Screw 27-8913 2 25 Trigger Gun 16-0351 1 26 Cap 62-0108 1 27 Reducer 23-0342 1 28 Quick Connect 17-0005 1 29 Grip 7-0149 1	16	Clevis Pin	43-0097	2
19 Quick Connect 17-0001 1 20 Clevis Pin 43-0098 1 21 Quick Connect 17-0017 1 22 High Pressure Hose *(Three Feet Required) 15-0182 1 23 Upper Handle 7-0148 1 24 Screw 27-8913 2 25 Trigger Gun 16-0351 1 26 Cap 62-0108 1 27 Reducer 23-0342 1 28 Quick Connect 17-0005 1 29 Grip 7-0149 1	17	Lower Handle	7-0147	1
20 Clevis Pin 43-0098 1 21 Quick Connect 17-0017 1 22 High Pressure Hose *(Three Feet Required) 15-0182 1 23 Upper Handle 7-0148 1 24 Screw 27-8913 2 25 Trigger Gun 16-0351 1 26 Cap 62-0108 1 27 Reducer 23-0342 1 28 Quick Connect 17-0005 1 29 Grip 7-0149 1	18	Wire Tie	33-0022	7
21 Quick Connect 17-0017 1 22 High Pressure Hose *(Three Feet Required) 15-0182 1 23 Upper Handle 7-0148 1 24 Screw 27-8913 2 25 Trigger Gun 16-0351 1 26 Cap 62-0108 1 27 Reducer 23-0342 1 28 Quick Connect 17-0005 1 29 Grip 7-0149 1	19	Quick Connect	17-0001	1
22 High Pressure Hose *(Three Feet Required) 15-0182 1 23 Upper Handle 7-0148 1 24 Screw 27-8913 2 25 Trigger Gun 16-0351 1 26 Cap 62-0108 1 27 Reducer 23-0342 1 28 Quick Connect 17-0005 1 29 Grip 7-0149 1	20	Clevis Pin	43-0098	1
23 Upper Handle 7-0148 1 24 Screw 27-8913 2 25 Trigger Gun 16-0351 1 26 Cap 62-0108 1 27 Reducer 23-0342 1 28 Quick Connect 17-0005 1 29 Grip 7-0149 1	21	Quick Connect	17-0017	1
24 Screw 27-8913 2 25 Trigger Gun 16-0351 1 26 Cap 62-0108 1 27 Reducer 23-0342 1 28 Quick Connect 17-0005 1 29 Grip 7-0149 1	22	High Pressure Hose *(Three Feet Required)	15-0182	1
25 Trigger Gun 16-0351 1 26 Cap 62-0108 1 27 Reducer 23-0342 1 28 Quick Connect 17-0005 1 29 Grip 7-0149 1	23	Upper Handle	7-0148	1
26 Cap 62-0108 1 27 Reducer 23-0342 1 28 Quick Connect 17-0005 1 29 Grip 7-0149 1	24	Screw	27-8913	2
27 Reducer 23-0342 1 28 Quick Connect 17-0005 1 29 Grip 7-0149 1	25	Trigger Gun	16-0351	1
28 Quick Connect 17-0005 1 29 Grip 7-0149 1	26	Сар	62-0108	1
29 Grip 7-0149 1	27	Reducer	23-0342	1
	28	Quick Connect	17-0005	1
*Must Order in One Foot Lengths	29	Grip	7-0149	1
		*Must Order in One Foot Lengths		

SWIVEL ASSEMBLY (33-0289)



SWIVEL ASSEMBLY (33-0289)			
REF.#	DESCRIPTION	PART #	QTY.
1	Bolt	27-8914	16
2	Lower Plate	33-0283	1
3	Quad Seal	N/A Sep.	1
4	Snap Ring	43-0094	2
5	Bearing	48-0068	2
6	Rotor Shaft	33-0284	1
7	Bearing Housing	33-0285	1
8	Static O-Ring	N/A Sep.	1
9	Secondary Seal	N/A Sep.	1
10	Upper Plate	33-0286	1
11	Static O-Ring	N/A Sep.	1
12	Main Seal	N/A Sep.	1
13	Seal Cap	33-0287	1
14	Bolt	27-8915	8
15	Nut	30-0136	12
16	Bolt	27-8916	4
17	Clamp Ring	43-0095	1
	Seal Kit (Inc. 3,8,9,11,12)	70-0218	

GUN ASSEMBLY (16-0351)



	GUN ASSEMBLY (16-0351)		
REF.#	DESCRIPTION	PART #	QTY.
1	Housing	16-0352	1
2	Plug	16-0353	1
3	Washer	N/A Sep.	1
4	Spring	49-0137	1
5	Ball	N/A Sep.	1
6	Seat	N/A Sep.	1
7	O-Ring	N/A Sep.	1
8	Housing	16-0354	1
9	Fitting	16-0355	1
10	O-Ring	N/A Sep.	1
11	Back-up Ring	N/A Sep.	1
12	Piston Rod	N/A Sep.	1
13	Plug	16-0356	1
14	Striker	16-0357	1
15	Trigger Lock	16-0358	1
16	Pin	43-0076	1
17	Trigger	16-0359	1
18	Pin	43-0093	1
19	Fitting	16-0360	1
20	Housing	16-0361	1
21	Screw	27-4061	7
	Gun Repair Kit (3,5-7,10,-12)	70-0217	

----- NOTES ------

NOTES

- NOTES ----



Mi-T-M warrants all parts, (except those referred to below), of your Rotary Surface Cleaner to be free from defects in materials and workmanship during the following periods:

- 1. For One (1) Year from the date of original purchase: High Pressure Swivel
- 2. For Ninety (90) days from the date of original purchase: Rotary Surface System Components

Defective parts not subject to normal wear and tear will be repaired or replaced at our option during the warranty period which upon examination is disclosed to have been defective in material or workmanship. In any event, reimbursement is limited to the purchase price paid.

Exclusions:

- Normal wear parts:
 Quick Connects Nozzles
 Trigger Gun Valve Assembly
- 2. This warranty does not cover parts damaged due to normal wear, misapplication, misuse, accidents, operation at other than recommended speeds, pressures or temperature, improper storage or freight damage. Parts damaged or worn because of the use of any type of detergents or by operation in abrasive or corrosive environments are not warranted. Failure to follow recommended operating and maintenance procedures also voids warranty.
- 3. The use of other than Genuine Mi-T-M Repair Parts will void warranty. Parts returned, prepaid to our factory or to a Mi-T-M Authorized Service Center will be inspected and replaced free of charge if found to be defective and subject to warranty. Under no circumstance shall the manufacturer bear any responsibility for loss of use of the unit, loss of time or rental, inconvenience, commercial loss or consequential damages. There are no warranties which extend beyond the description of the face hereof.

For Service or Warranty Consideration, contact Mi-T-M® Corporation 8650 Enterprise Drive, Peosta, IA 52068-0050 563-556-7484 / 800-553-9053 / Fax 563-556-1235 Monday - Friday 7:30 a.m. - 5:00 p.m. CST