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## 290/350 RIDER SCRUBBERS

THESE TOUGH, COMPACT SCRUBBERS COMBINED THE PRODUCTIVITY OF RIDERS WITH THE MANEUVERABILITY OF WALK-BEHINDS. FACTORY CATS ARE DESIGNED TO CLEAN SCHOOLS, MALLS, WAREHOUSES, RETAIL OUTLETS, WHILE STANDING UP TO THE RIGORS OF CONTRACT CLEANING.

WITH TWO SPECIALIZED CLEANING SYSTEMS TO CHOOSE FROM, FACTORY CATS OFFER THE PERFORMANCE AND CAPACITY REQUIRED TO CLEAN YOUR UNIQUE APPLICATION.

THE TWO "DISK" MACHINES, WITH 29", AND 35" SCRUB PATHS, OFFER GIMBALED BRUSH DRIVE AND 35% MORE SCRUBBING POWER THAN COMPETITIVE BRANDS.

THE "CYLINDRICAL" MACHINES, OFFER ALL THE PERFORMANCE OF DISK SCRUBBERS PLUS THE ABILITY TO SWEEP. THE CYLINDRICAL PICKS UP WOODCHIPS, NAILS, BROKEN GLASS, GRAVEL, AND METAL CHIPS. THE DEBRIS IS HELD IN THE SLIDE-OUT HOPPER WHICH PERMITS EASY DISPOSAL.

PRODUCTIVITY IS A FUNCTION OF SCRUB WIDTH, RUN TIME AND TANK CAPACITY. THESE FACTORY CATS TOP THE CHART, WHILE MAINTAINING UNSURPASSED MANUVERABILITY. WITH 40% LARGER TANKS, WIDER SCRUB PATHS, HIGHER SCRUBING PRESSURES, MORE VACUUM, AND BIGGER BATTERY PACKS YOU WILL HAVE LESS STOPPING TO REFILL, FEWER TRIPS DOWN THE AISLE, LESS DOUBLE SCRUBBING, DRY SAFE CLEAN FLOORS, AND EXTRA RUN TIME.

THE OPERATOR SITS IN A SPRING- SUSPENSIONED, FULLY ADJUSTABLE, MID-BACK CHAIR. THE STEERING COLUMN HAS FOUR SETTINGS, FURTHER ENHANCING OPERATOR COMFORT. HEADLIGHT, HORN BACKUP ALARM, NON-MARKING TIRES, AND ARMRESTS ARE STANDARD. OPERATORS ARE ABLE TO TURN WITHIN A 64" AISLE, WHILE MAINTAINING EXCELLENT WATER CONTROL. WE ALSO OFFER, FOR CLEANING IN REMOTE AREAS, A COMPLETE LINE OF HAND TOOLS, INCLUDING VAC WANDS, SPRAY HOSES, AND POWERED SCRUB WANDS.

FACTORY CATS EXCLUSIVE "CENTRAL COMMAND II" ENERGY MANAGEMENT SYSTEM OFFERS AUTOMATIC CONTROLS. WHEN THE OPERATOR STOPS THE MACHINE, BRUSHES, AND SOLUTION FLOW STOPS, THE SAFETY-SET PARKING BRAKE IS APPLIED, AND VACUUM STOPS AFTER A 22 SECOND DELAY. ALL "CENTRAL COMMAND" COMPONENTS, INCLUDING THE CURTIS CONTROLLER, AUTO REST CIRCUIT BREAKERS, AND MARINE DUTY SWITCHES, ARE IN A SEALED MODULE.

FACTORY CATS USE THE MOST POWERFUL MOTORS AVALIABLE, SO THEY ARE TYPICALLY RUN AT ONLY 75% OF THEIR CAPACITY. THIS LEAVES POWER IN RESERVE FOR TIMES WHERE HEAVY STRIPPING IS REQUIRED, AND GREATLY PROLONGS MOTOR LIFE. THESE FACTORY CATS ARE CONSTUCTED OF HEAVY GAUGE STEEL, AND SPECIALLY PLATED OR POWDER PAINTED TO PROTECT YOUR INVESTMENT. THE TANKS HAVE EXTRA THICK WALLS, QUALITY INSERTS, AND "THROUGH TUBES" FOR STRENGTH. STEEL BUMPERS PROTECT THE SCRUBHEAD AND FRONT END FROM COLLISION DAMAGE. THE CORNER ROLLERS ARE POLYURETHANE, AND TALL TO DISPERSE THE FORCE OF IMPACT WITHOUT LEAVING MARKS ON YOUR WALLS. THE WHOLE MACHINE IS PUT TOGETHER WITH STAINLESS STEEL FASTENERS TO HELP PROLONG THE LIFE AND DURABILATY OF YOUR MACHINE.

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## **MACHINE INFORMATION**

PLEASE FILL THIS AREA OUT AT THE TIME OF INSTALLATION FOR FUTURE REFERENCE.

MODEL NUMBER
--------------

SERIAL NUMBER:\_\_\_\_\_

INSTALLATION DATE:\_\_\_\_\_

INSTALLING DEALER:\_\_\_\_\_\_

DEALER CONTACT: \_\_\_\_\_\_

ADDRESS:

PHONE NUMBER:\_\_\_\_\_

THIS OPERATOR AND PARTS MANUAL SHOULD BE CONSIDERED A PERMANENT PART OF THE UNIT AND SHOULD REMAIN WITH THE UNIT AT ALL TIMES. THIS OPERATOR AND PARTS MANUAL COVERS ALL THE TOMCAT 290/350 SERIES SCRUBBERS. YOU MAY FIND DESCRIPTIONS AND FEATURES THAT ARE NOT ON YOUR PARTICULAR MODEL. THE INFORMATION AND SPECIFICATIONS INCLUDED IN THIS PUBLICATION WERE IN EFFECT AT THE TIME OF PRINTING. MID-CENTRAL RESERVES THE RIGHT TO MAKE CHANGES WITHOUT NOTICE INCURRING ANY OBLIGATION.

TO REGISTER FOR WARRANTY, FAX YOUR WARRANTY REGISTRATION FORM TODAY!



R.P.S. CORPORATION P.O. BOX 368 RACINE, WI 53401 PHONE: 800-634-4060 FAX 866-901-3335 WWW.FACTORYCAT.COM

### WARRANTY REGISTRATION FORM

\*\*\*COMPLETE FORM IMMEDIATELY AND FAX BACK TO (886)-901-3335\*\*\*

DEALER:	SERIAL NUMBER:
LOCATION (CITY, STATE):	INSTALL DATE:
CUSTOMER:	HOUR METER:
CONTACT:	INSTALLED BY:
ADDRESS:	
CITY:STATEZIF	D
PHONE: FAX:	
FACTORY CAT MODEL NUMBER:	
OPTIONS: 1	
2	
3.	
5	O
PADS:	
BRUSHES:	
SQUEEGEE SIZE:	
BUYER'S REPRESENTAVE HAS:	
1. RECEIVED INSTRUCTION IN 2. RECEIVED OPERATOR'S MA	ANY OPERATOR SHOULD READ THE MANUAL
DEALER REP. PRINT:	SIGN:
CUSTOMER PRINT:	

## <u>MODEL</u>

## <u>290</u>



BODY CONSTRUCTION/DIMENSIONS TANK MATERIAL: CHASSIS CONSTRUCTION: REAR WHEELS: FRONT WHEEL: SIZE (L X W X H): SQUEEGEE SIZE: WEIGHT (WITHOUT BATTERIES): WEIGHT (WITH BATTERIES):	POLY 3/16" STEEL 12" X 5" 12" X 4" 61" X 29" 32", 35", OR 38" 750 LBS. 1,260 LBS	POLY 3/16" STEEL 12" X 5" 12" X 4" 61" X 35" 35", 38", OR 45" 810 LBS. 1,320 LBS.
BRUSH/PAD SYSTEM BRUSH/PAD DIAMETER (DISK): DRIVE TO BRUSH (DISK): SCRUBBING PATH (DISK): BRUSH MOTOR POWER (DISK): BRUSH MOTOR SPEED(DISK): BRUSH SPEED (DISK): BRUSH SPEED (DISK): DRIVE TO BRUSH (CYLINDRICAL): DRIVE TO BRUSH (CYLINDRICAL): BRUSH MOTOR POWER (CYLINDRICAL): BRUSH MOTOR SPEED (CYLINDRICAL): BRUSH SPEED (CYLINDRICAL): BRUSH SPEED (CYLINDRICAL): BRUSH DOWN PRESSURE: BRUSH ADJUSTMENT:	<ul> <li>(2) 15.5 INCHES</li> <li>DIRECT</li> <li>29 INCHES</li> <li>(2) 1.0 HP</li> <li>350 RPM</li> <li>(2) 26 INCHES</li> <li>CHAIN</li> <li>26 INCHES</li> <li>2.0 HP</li> <li>800 RPM</li> <li>800 RPM</li> <li>0-200 LB.</li> <li>(5) AUTOMATIC SETTINGS</li> </ul>	<ul> <li>(2) 18 INCHES</li> <li>DIRECT</li> <li>35 INCHES</li> <li>(2) 1.0 HP</li> <li>350 RPM</li> <li>350 RPM</li> <li>(2) 28 INCH OR (2) 32 INCH</li> <li>CHAIN</li> <li>28 INCHES OR 32 INCHES</li> <li>2.0 HP</li> <li>800 RPM</li> <li>800 RPM</li> <li>0-250 LB.</li> <li>(5) AUTOMATIC SETTINGS</li> </ul>
<u>Solution system</u> Sol. TANK CAP: Solution Flow RATE:	38 GAL 0-1.75 GPM	38 GAL 0-1.75 GPM
<u>Recovery System</u> Rec. Tank Cap: Vacuum Power (Standard): Vacuum Power (Optional): Drain Hose: Cleanout Door (Optional) Waterlift:	40 GAL 1.0 HP 2.0 HP 2.0 INCHES 5.0 INCHES 70 INCHES	40 GAL 1.0 HP 2.0 HP 2.0 INCHES 5.0 INCHES 70 INCHES
<u>Battery System</u> Battery ah Rating: Battery Run Time: Charger (Automatic):	(4) 396 AH UP TO 6 HRS. 36 AMP, 110 VOLT	(4) 396 AH UP TO 6 HRS. 36 AMP, 110 VOLT
<u>DRIVE SYSTEM</u> TRANSAXLE DESCRIPTION: SPEED CONTROL: BRAKING SYSTEM:	2.0 HP, SEALED 0-5 MPH DYNAMIC BRAKING	2.0 HP, SEALED 0-5 MPH DYNAMIC BRAKING
<u>Productivity</u> Scrubbing Width: Scrubbing Rate/Hour (Normal): Scrubbing Rate/Hour (Maximum):	29 INCHES 35,000 FT/HR 47,000 FT/HR	35 INCHES 45,000 FT/HR 58,000 FT/HR
<u>WARRANTY</u> PARTS: LABOR: TANKS:	3 YEARS 1 YEAR 10 YEARS	3 YEARS 1 YEAR 10 YEARS

## **COMMON WEAR PARTS**

ITEM brush type	MODEL <u>290-D</u> <sub>DISK</sub>	MODEL <u>290-C</u> cylindrical	MODEL <u>350-D</u> <sub>DISK</sub>	MODEL <u>350-C</u> CYLINDRICAL
	15-421SS 15-421S 15-421C 15-421PS 15-421P 15-421N 15-421T 15-421D ER RETAINING CLI T: 40-423 REPLAC	NA 25-521S 25-521C 25-521PS 25-521P 25-521N 25-521T NA P: 40-433 EMENT LOCATING C	18-421SS 18-421S 18-421C 18-421PS 18-421P 18-421N 18-421T 18-421D LIP FOR ALL DISK I	NA 32-521S 32-521C 32-521PS 32-521P 32-521N 32-521T NA BRUSHES
<u>Pads</u> Super Black Black Brown Green Blue Red White	15-422BB 15-422B 15-422BR 15-422G 15-422BL 15-422R 15-422W	NA NA NA NA NA NA	18-422BB 18-422B 18-422BR 18-422G 18-422BL 18-422R 18-422W	NA NA NA NA NA
<u>Squeegee kits</u>	<u>SIZE</u> 32" 35" 38" 45"	<u>GUM RUBBER</u> 22-770G 25-770G 28-770G 290-770G	<u>NEOPRENE</u> 22-770N 25-770N 28-770N 290-770N	LINATEX 22-770L 25-770L 28-770L 290-770L

KIT INCLUDES: (1) REAR BLADE, (1) FRONT BLADE, AND (2) BACKUP WHEELS WITH HARDWARE

NOTE: IT IS STAMPED INTO THE TOP OF THE SQUEEGEE BLANK, ON 32", 35", 38", AND 45" SQUEEGEES.

MODEL 290: HAS A 38" SQUEEGEE UNLESS OTHER SIZE IS SPECIALLY ORDERED AT TIME OF PURCHASE MODEL 350: HAS A 45" SQUEEGEE UNLESS OTHER SIZE IS SPECIALLY ORDERED AT TIME OF PURCHASE

<u>NOTE:</u> THE 32" AND 35" SQUEEGEES ARE DESIGNED FOR NARROW ISLES AND MAY NOT HAVE THE SAME WATER CONTROL AROUND TIGHT TURNS AS THE LARGER SQUEEGEES.

<u>Soap</u> Heavy Duty Degreaser Citrus Freezer Tire Mark Remover

CALL YOUR LOCAL DEALER FOR MORE SOAP INFORMATION

# **SAFETY MESSAGES**

YOUR SAFETY, AND THE SAFETY OF OTHERS, IS VERY IMPORTANT, AND OPERATING THIS UNIT SAFELY IS AN IMPORTANT RESPONSIBILITY.

TO HELP YOU MAKE INFORMED DECISIONS ABOUT SAFETY, WE HAVE PROVIDED OPERATING PROCEDURES AND OTHER SAFETY INFORMATION IN THE MANUAL. THIS INFORMATION INFORMS YOU OF POTENTIAL HAZARDS THAT COULD HURT YOU OR OTHERS.

IT IS NOT PRACTICAL OR POSSIBLE TO WARN YOU OF ALL THE HAZARDS ASSOCIATED WITH OPERATING THIS UNIT. YOU MUST USE YOUR OWN GOOD JUDGEMENT.

THIS IS INTENDED FOR COMMERCIAL USE. IT IS DESIGNED TO BE USED ON HARD FLOORS IN AN INDOOR ENVIRONMENT, WITH THE RECOMMENDED PADS OR BRUSHES.

#### 1. DO NOT OPERATE UNIT:

UNLESS TRAINED AND AUTHORIZED. UNLESS OPERATOR MANUAL IS READ AND UNDERSTOOD. IF UNIT IS NOT PROPER CONDITION.

#### 2. WHEN OPERATING UNIT:

REMOVE LOOSE OBJECTS FROM THE FLOOR THAT MAY BE PROJECTED FROM THE REVOLVING BRUSHES. KEEP HANDS AND FEET AWAY FROM REVOLVING BRUSHES. DO NOT OPERATE MACHINE WHERE FLAMMABLE LIQUIDS ARE PRESENT. USE EXTREME CAUTION WHEN MANUEVERING.

#### 3. BEFORE LEAVING:

MAKE SURE MACHINE IS TURNED OFF. STOP ON LEVEL SURFACES. DISCONNECT BATTERIES.

#### 4. BEFORE SERVICING:

STOP ON LEVEL SURFACE, AND SECURE MACHINE. DISCONNECT BATTERIES.

# **!! SAFETY PRECAUTIONS!!**

WARNING: HAZARDOUS VOLTAGE. SHOCK, BURNS OR ELECTROCUTION CAN RESULT. ALWAYS DISCON-NECT THE BATTERIES BEFORE SERVICING MACHINE.

WARNING: BATTERIES EMIT HYDROGEN GASES, EXPLOSION OR FIRE CAN RESULT. KEEP SPARKS AND OPEN FLAMES AWAY.

WARNING: CHARGE UNIT IN A WELL VENTILATED AREA, AND KEEP BATTERY COMPARTMENT OPEN WHEN CHARGING. EXPLOSION OR FIRE COULD RESULT.

WARNING: BATTERY ACID CAN CAUSE BURNS. WEAR PROTECTIVE EYE WEAR AND GLOVES WHEN SERVICING BATTERIES.

WARNING: DO NOT STORE OUTDOORS OR PRESSURE WASH. PREVENT FROM GETTING ELECTRONIC COMPONENTS WET.

WARNING: THE USE OF PARTS AND SOLUTIONS OTHER THAN RECOMMENDED BY THE MANUFACTURER MAY CAUSE DAMAGE OR ENDANGER PEOPLE.

WARNING: DRESS SAFELY. DO NOT WEAR RINGS OR METAL WRIST WATCHES WHILE WORKING ON THIS MACHINE. THEY CAN CAUSE AN ELECTRICAL SHORT, WHICH, CAN CAUSE SERIOUS BURNS. DO NOT WORK ON THIS MACHINE WHILE WEARING A TIE, SCARF OR OTHER LOOSE, DANGLING NECKWARE OR CLOTHING. THESE LOOSE ITEMS CAN TANGLE IN THE ROTATING PARTS AND CAUSE SERIOUS INJURY OR EVEN DEATH.

WARNING: DO NOT USE THE MACHINE AS A STEP LADDER OR CHAIR.

WARNING: ONLY OPERATE THIS MACHINE FROM THE OPERATORS SEAT. IT WAS NOT DESIGNED TO CARRY PASSENGERS.

WARNING: DO NOT OPERATE THIS MACHINE ON RAMPS OR UNEVEN SURFACES. WHEN CLIMBING A RAMP, ALWAYS DRIVE THE MACHINE IN FORWARD STRAIGHT UP OR DOWN THE RAMP. NEVER DRIVE ACROSS THE INCLINE. DO NOT BACK DOWN OR TURN ON RAMPS! WARNING: ALWAYS USE THE CHARGER PROVIDED BY THE MANUFACTURER TO CHARGE THE MACHINE. IT IS AN AUTOMATIC CHARGER, SPECIFICALLY DESIGNED TO CHARGE AT THE APPROPRIATE RATE. IF YOU MUST USE A DIFFERENT CHARGER, DISCONNECT THE BATTERIES BEFORE CHARGING. THIS WILL PREVENT DAMAGE TO THE ELECTRONIC SPEED CONTROLLER.

WARNING: UNDERSTAND THE DYNAMIC BRAKING SYSTEM BEFORE YOU OPERATE THE MACHINE ON RAMPS. MACHINE DOES NOT COAST. RELEASING THE FOOTPEDAL WILL AUTOMATICALLY APPLY BRAKING FORCE, AND STOP THE MACHINE.

WARNING: DO NOT PARK THE MACHINE ON RAMPS OR SLOPES. THE MACHINE HAS A PARKING BRAKE, BUT IT IS RECOMMENDED THAT IT IS ALWAYS PARKED ON LEVEL GROUND.

WARNING: DO NOT OPERATE THE MACHINE IF ANY PARTS HAVE BEEN REMOVED OR DAMAGED.

WARNING: DO NOT REMOVE, PAINT OVER, OR DESTROY WARNING DECALS. IF WARNING DECALS BECOME DAMAGED, THEY MUST BE REPLACED.

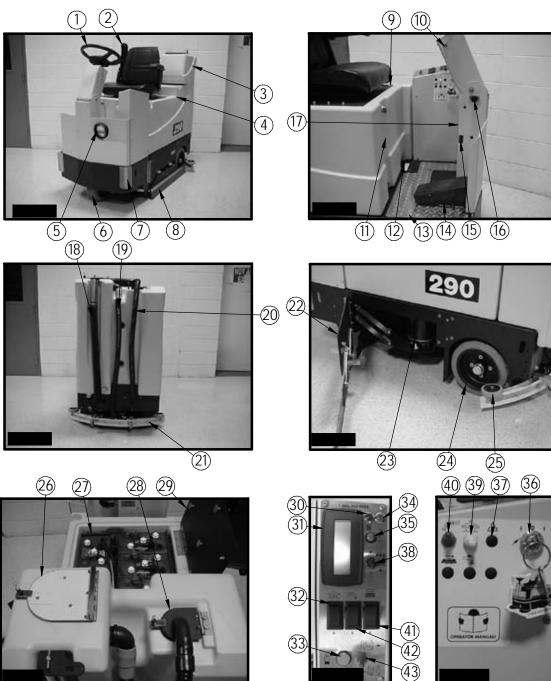
WARNING: DO NOT OPERATE MACHINE IN UNSAFE CONDITION. IF THE MACHINE IS IN NEED OF REPAIR OR IS IN ANY WAY UNSAFE TO OPERATE, THE MATTER SHOULD BE REPORTED IMMEDIATELY TO THE SHIFT SUPERVISOR. DO NOT OPERATE THE MACHINE UNTIL IT IS RETURNED TO PROPER OPERATING CONDITION.

WARNING: THIS MACHINE MUST ONLY BE OPERATED BY TRAINED OPERATOR. AS PART OF HIS OR HER TRAINING, THEY MUST READ THIS MANUAL THOROUGHLY. IF EXTRA COPIES ARE NEEDED, CONTACT YOUR LOCAL DEALER.

WARNING: ALWAYS TURN OFF THE MACHINE, BEFORE LEAVING IT UNATTENDED.

WARNING: DO NOT OPERATE OVER ELECTRICAL FLOOR OUTLETS. MAY RESULTS IN SERIOUS INJURY.

# MACHINE CONTROLS AND FEATURES



# CONTROLS AND FUNCTIONS

#### SEE FIGURES (1-6B) ON PAGE 7

#### SEE FIGURE 1

1. STEERING WHEEL: STEERS THE MACHINE.

2. ADJUSTABLE SEAT WITH ARM RESTS: YOUR MACHINE IS EQUIPPED WITH AN ADJUSTABLE SEAT WITH ARM RESTS FOR COMFORT

3. RECOVERY TANK: HOLDS UP TO 40 GALLONS OF DIRTY WATER RECOVERED BY THE MACHINE.

4. SOLUTION TANK: HOLDS UP TO 38 GALLONS OF CLEAN WATER AND SOLUTION DETERGENT.

5. HEAD LIGHT: HELPS YOU SEE IN LOW LIGHT AREAS AND TO WARN ONCOMING TRAFFIC.

6. FRONT DRIVE WHEEL: DRIVES AND STEERS MACHINE.

7. BUMPER ROLLERS: HELPS PREVENT DAMAGE TO MACHINE AND OBJECTS THAT YOU MAY DRIVE CLOSE TO WHILE CLEANING.

8. DOOR WIPER: GOES UP AND DOWN WITH SCRUB DECK TO KEEP WATER FROM SPLASHING OUT OF MACHINE.

#### SEE FIGURE 2.

9. SEAT ADJUSTMENT: PERMITS THE SEAT TO BE ADJUSTED FORWARD AND BACKWARDS FOR OPERATORS COMFORT.

10. HORN BUTTON: SOUNDS THE HORN FOR WARNING ONCOMING TRAFFIC.

11. SOLUTION LEVEL INDICATOR: SHOWS OPERATOR THE PRECISE LEVEL OF CLEANING DETERGENT IN THE TANK.

12. SOLUTION FLOW CONTROL: USED TO MODULATE THE SOLUTION FLOW (GPM).

13. NON SLIP FLOOR PLATE: HELPS PREVENT SLIPPING WHILE GETTING ON AND OFF OF MACHINE.

14. FOOT PEDAL : CONTROLS THE ACCELERATION AND DECELERATION OF THE MACHINE.

15. CHARGER PORT: RED 50 USED TO RECEIVE CHARGER INPUT. NOTE: ONLY USE CHARGER PROVIDED.

16. ADJUSTABLE STEERING: FOUR SETTINGS FOR OPERATOR COMFORT AND EASE OF ENTRY.

17. CIRCUIT BREAKER: 50 AMP RESETABLE CIRCUIT BREAKER.

#### SEE FIGURE 3

18. RECOVERY DRAIN HOSE: ALLOWS FOR CONTROLLED DRAINING OF THE RECOVERY TANK.

19. VACUUM HOSE: VACUUMIZES SQUEEGEE . NOTE: KEEP FREE AND CLEAR OF BLOCKAGE.

20. VACUUM HOSE: MAIN VACUUM HOSE FROM VACUUM TO RECOVERY TANK.

21. SQUEEGEE BLADE: SQUEEGEES WATER TO BE RECOVERED BY THE VACUUM HOSE.

#### SEE FIGURE 4

22. SIDE DOOR: PROVIDES EASY ACCESS TO SCRUB DECK.

23. SCRUB DECK: MAIN COMPONENTS THAT SCRUB AND CLEAN FLOORS.

24. REAR WHEELS: NON MARKING REAR TIRES

25. SQUEEGEE BLADE PROTECTION WHEELS: HELP PROTECT THE SQUEEGEE WHEN CLEANING CLOSE TO OBJECTS.

#### SEE FIGURE 5

26. RECOVERY ACCESS DOOR: USED FOR FLUSHING OUT RECOVERY TANK WITH FRESH WATER.

27. BATTERIES: YOUR MACHINE IS EQUIPPED WITH FOUR (6 VOLT DEEP CYCLE 396 AMP HOUR BATTERIES)

28. FOAM PROTECTION SCREEN: USED TO PROTECT VACUUM MOTOR FROM DEBRIS.

29. BATTERY ACCESS LID: USED TO VENT BATTERIES DURING CHARGING, OR TO ACCESS BATTERIES FOR SERVICE.

#### SEE FIGURES 6A AND 6B

30. HIGH WATER RECOVERY LIGHT: INDICATES WHEN THE RECOVERY TANK IS NEARLY FULL.

31. LCD SCREEN: LISTS FUNCTIONS AND SETTING OF THE MACHINE. (SEE PAGES 17-19)

32. SQUEEGEE SWITCH: RAISES AND LOWERS THE SQUEEGEE.

33. ONE TOUCH BUTTON: ACTIVATES BRUSHES, SQUEEGEE, VACUUM SYSTEM, AND SOLUTION FLOW SIMUTANEOUSLY.

34. LOW WATER SOLUTION LIGHT: INDICATES WHEN THE SOLUTION TANK IS DOWN TO 5 GALLONS.

35. MENU CONTROL: SCROLLS THROUGH DIFFERENT OPTIONS ON THE LCD DISPLAY.

36. KEY SWITCH: TURNS THE MAIN POWER ON AND OFF.

37. OPTIONAL RECYLING SWITCH: TURNS ON THE RECYCLING PUMP. (GREEN)

38. SCRUB DECK DOWN PRESSURE SWITCH: CONTROLS THE PRESSURE PUT ON THE SCRUB DECK.

39. VACUUM WAND SWITCH: TURNS ON THE VACUUM MOTOR. (WHITE)

40. OPTIONAL SPRAY JET: TURNS ON THE SPRAY JET PUMP. (BLUE)

41. SCRUB DECK SWITCH: RAISES AND LOWERS THE SCRUB DECK.

42. SOLUTION SWITCH: OPENS AND CLOSES THE SOLUTION VALVE. GLOWS BLUE WHEN OPEN.

43. FORWARD/REVERSE SWITCH: CONTROLS THE DIRECTION OF THE TRACTION MOTOR. (RED)

# MACHINE SETUP

### **UNCRATING MACHINE**

CAREFULLY CHECK THE CRATE FOR ANY SIGNS OF DAMAGE. BATTERIES ARE IN THE UNIT.

TO UNCRATE THE MACHINE, REMOVE BANDING FROM AROUND THE CRATE. TAKE OFF THE TOP AND SIDES AND DISPOSE OF PROPERLY. REMOVE BANDING FROM MACHINE. REMOVE THE CHOCKS AROUND THE DRIVE WHEELS. FOLD DOWN RAMP, AND DRIVE MACHINE OFF OF THE BASE. NOTIFY THE CARRIER IMMEDIATELY IF CONCEALED DAMAGE IS DISCOVERED.

### **CONNECTING BATTERIES**

YOUR MACHINE IS EQUIPPED WITH (FOUR) 6 VOLT, DEEP CYCLE, 396 AMP HOURS BATTERIES, WHICH FORM A 24 VOLT SYSTEM. MAXIMUM BATTERY DIMENSIONS ARE 7"W X 15"L X 15"H.

- 1. TURN ALL SWITCHES TO THE OFF POSITION AND REMOVE KEY.
- 2. HINGE OPEN THE BATTERY ACCESS LID TO ACCESS THE BATTERY COMPARTMENT.
- 3. ALL OF THE FOUR BATTERY CABLES ARE CONNECTED TO THE BATTERIES. LOCATE ANY LOOSE ONES AND CONNECT TO THE OPEN TERMINAL. TIGHTEN WITH 9/16" WRENCH. (SEE FIGURE 7.)
- TURN ON MAIN POWER SWITCH AND CHECK THE BATTERY CONDITION METER TO ENSURE CORRECT INSTALLATION. CHARGE BATTERIES IF NEEDED. (SEE: BATTERY CHARGING)

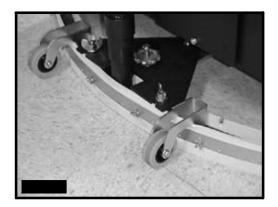


### ATTACHING SQUEEGEE

1. LOWER THE SQUEEGEE MOUNTING PLATE BY DEPRESSING THE SQUEEGEE SWITCH TO THE DOWN POSITION. (SEE FIGURE 8.)



- 2. LOOSEN THE TWO WING NUTS ON THE SQUEEGEE AND SLIDE THEM INTO THE SLOTS IN THE SQUEEGEE MOUNTING PLATE. THE SQUEEGEE TRAIL WHEELS SHOULD FACE OUTWARD. (SEE FIGURE 9.)
- 3. TIGHTEN THE TWO WINGNUTS, AND CONNECT VACUUM HOSE FROM THE MACHINE TO THE SQUEEGEE. (SEE FIGURE 9.)
- 4. YOU MAY HAVE TO ADJUST THE SQUEEGEE PITCH, BY USING THE PITCH ADJUSTMENT. (SEE FIGURE 9.)

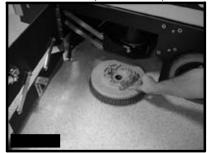


### ATTACHING <u>DISK BRUSHES</u>

- 1. TURN ON MACHINE POWER
- 2. RAISE THE SCRUB DECK BY DEPRESSING THE BRUSH SWITCH TO THE UP AND OFF POSITION AND TURN MACHINE POWER BACK OFF. (SEE FIGURE 10.)



- 3. OPEN SIDE DOOR TO ACCESS SCRUB DECK
- SELECT THE CORRECT PADS OR BRUSHES THAT BEST MEET YOUR CLEANING APPLICATION. CONSULT YOUR LOCAL DEALER FOR ASSISTANCE.
- 5. PAD INSTALLATION ATTACH PADS TO PAD DRIVERS BEFORE CONNECTING DRIVERS TO MOTOR HUB.
- 6. ATTACH BRUSHES OR PADS TO MOTOR HUBS. SQUEEZE THE SCISSOR LOCKING DEVICE AND LIFT BRUSH UP ON TO THE MOTOR DRIVE HUB. MAKE SURE THE SCISSORS CLOSE AND LOCK ONCE THE BRUSHES ARE ON. (SEE FIGURE 11.)



7. LIFT UP ON THE WIPERS FIRST TO CLOSE SIDE DOOR AND DEPRESS THE LATCH UNTIL THE DOOR IS SECURED. (SEE FIGURE 12.)



### ATTACHING CYLINDRICAL BRUSHES

- 1. TURN ON MACHINE POWER
- 2. RAISE THE SCRUB DECK BY DEPRESSING THE BRUSH SWITCH TO THE UP AND OFF POSITION AND TURN MACHINE POWER BACK OFF. (SEE FIGURE 10.)
- 3. OPEN THE SIDE DOOR TO ACCESS CYLINDRICAL SCRUB DECK
- UNSCREW THE THREE WINGNUTS ON THE BRUSH ACCESS DOOR AND REMOVE THE DOOR. (SEE FIGURE 13.)



5. SLIDE THE BRUSHES IN ONE AT A TIME. WHEN YOU GET THE BRUSH ON THE DRIVER SPIN IT WITH YOUR HAND UNTIL YOU FEEL IT ENGAGE AND DROP IN. (SEE FIGURE 14.)



6. WHEN BOTH BRUSHES ARE ENGAGED REPLACE THE BRUSH ACCESS DOOR AND TIGHTEN IT BACK DOWN WITH THE WINGNUTS. (SEE FIGURE 15.)



7. LIFT UP ON THE WIPERS FIRST TO CLOSE SIDE DOOR AND DEPRESS THE LATCH UNTIL THE DOOR IS SECURED. (SEE FIGURE 12.)

\*\*\*FOR CORRECT PAD APPLICATION , CALL YOUR LOCAL DEALER\*\*\* **PAGE 10** 



#### PRE-CLEANING CHECK LIST ONE PASS SCRUBBING

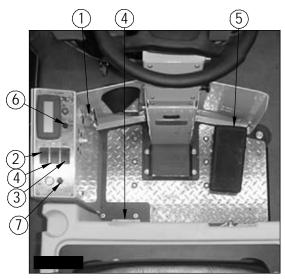
READ AND UNDERSTAND THE SAFETY SECTION ON PAGE 5 AND 6 BEFORE OPERATING MACHINE.

- 1. CHECK BATTERY CONDITION GAUGE ON THE CENTRAL COMMAND II LCD SCREEN. TO CHECK GAUGE PUSH MENU CONTROL BUTTON UNTIL BATTERY GUAGE APPEARS. MAKE SURE BATTERIES ARE FULLY CHARGED BEFORE USING.
- 2. CHECK THE CONDITION OF PADS OR BRUSHES.
- 3. CHECK THE CONDITION OF THE SQUEEGEE BLADES.
- 4. TRANSPORT THE MACHINE TO THE FILLING STATION. RAISE THE SCRUBHEAD AND SQUEEGEE WHEN TRANSPORTING.
- 5. TURN MACHINE OFF.
- 6. OPEN SOLUTION FILL DOOR AT THE SIDE OF THE MACHINE AND FILL THE TANK WITH UP TO 38 GALLONS OF CLEAN WATER. THE CLEAR TUBE AT THE FRONT OF THE MACHINE INDICATES THE AMOUNT OF WATER IN THE TANK.
- 7. ADD CLEANING CHEMICAL. USE THE PROPER DILUTION RATIO INDICATED ON THE BOTTLE.
- NOTE: USE ONLY NONFLAMMABLE COMMERCIAL CLEANING CHEMICALS. YOUR AUTHORIZED DISTRIBUTOR CAN ASSIST YOU IN SELECTING A PROPER CHEMICAL.



STEPS: (SEE FIGURE 17.)

- TURN MACHINE ON WITH THE KEY SWITCH. 1.
- 2. LOWER SQUEEGEE BY PRESSING THE SWITCH.
- 3. LOWER SCRUB HEAD TO THE FLOOR, USE THE TOP HALF (+) OF THE BRUSH SWITCH.
- 4. TURN ON THE SOLUTION SWITCH AND ADJUST THE SOLUTION LEVER TO THE DESIRED SETTING.
- BEGIN SCRUBBING BY DEPRESSING THE 5. FOOT PEDAL SLOWLY AND THEN TO THE SPEED REQUIRED, THE HEADLIGHT SHOULD ILLUMINATE.
- ONCE THE MACHINE BEGINS TO MOVE, 6. CHECK THE DOWN PRESSURE GAUGE. START SCRUBBING AT THE #1 OR # 2 MARKS, DO NOT USE THE #4 OR #5 MARKS WITHOUT MANAGEMENTS APPROVAL.
- TO OPERATE MACHINE IN REVERSE. 7 SIMPLY SWITCH THE REVERSE SWITCH TO THE REVERSE POSITION, BACK UP ALARM MAY SOUND AND YOUR REV SPEED IS SET TO ROUGHLY 50% OF FORWARD.
- 8. TO STOP THE MACHINE, LET OFF OF THE FOOT PEDAL, AND THE MACHINE WILL STOP AUTOMATICALLY.



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#### **OPERATING HINTS**

1. OBSERVE THE AMOUNT OF SOLUTION THE MACHINE IS DISPENSING ON THE FLOOR AND ADJUST TO THE DESIRED FLOW. TO INCREASE THE SOLUTION FLOW RATE, MOVE THE SOLUTION LEVER TO THE OPERATORS RIGHT. TO SHUT THE SOLUTION OFF COMPLETELY, USE THE SWITCH, OR JUST RELEASE THE FOOT PEDAL.

2. KEEP AN EYE ON THE REC FULL LIGHT TO MAKE SURE THERE IS NOT FOAMY BUILDUP IN THE RECOVERY TANK. IF EXCESS FOAM BEGINS TO DEVELOP, POUR A RECOMMENDED FOAM CONTROL SOLUTION INTO THE RECOVERY TANK. FOAM IS USUALLY AN INDICATION OF EXCESSIVE SOAP.

3. ALWAYS OPERATE AT LOWER SPEEDS WHEN SCRUBBING AROUND WALLS AND OBJECTS. YOU SHOULD REDUCE THE SPEED, TO MAINTAIN CONTROL WHEN TURNING.

4. IF SQUEEGEE STARTS TO STREAK, RAISE AND WIPE THE BLADES WITH A CLEAN CLOTH. IF THE PROBLEM CONTINUES, CHECK THE BLADES FOR WEAR OR DAMAGE, AND ROTATE IF NEEDED. YOU NEED TO PRESWEEP BEFORE SCRUBBING.

5. CHANGE OR TURN OVER PADS WHEN DIRTY. ROTATE THE SCRUB BRUSHES EVERY WEEK.

6. STAY CLEAR OF OBJECTS PROTRUDING FROM THE FLOOR, SUCH AS SOCKETS, GRATES, DIES, FOR THEY WILL DAMAGE THE PADS AND SQUEEGEE BLADES.

7. DURING BRIEF STOPS YOU DO NOT HAVE TO TURN ANYTHING OFF, THE BRUSHES AND SOLUTION WILL AUTOMATICALLY STOP WHEN THE FOOT PEDAL IS RELEASED.

8. ALWAYS KEEP AN EYE ON YOUR GAUGES. THEY LET YOU KNOW THE STATUS OF A PARTICULAR SYSTEM AT A GLANCE. IF YOUR BATTERY GAUGE IS READING LOW, YOU MUST STOP IMMEDIATELY, AND RECHARGE. RUNNING THE BATTERIES DEAD, WILL RESULT IN DAMAGE TO THE BATTERIES. EXCESSIVE SCRUBBING PRESSURE WILL BLOW A BREAKER.

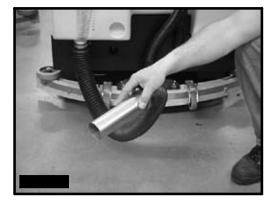
9. WHEN YOU RUN OUT OF SOLUTION, RAISE THE BRUSHES, AND CONTINUE TO VACUUM THE REMAINING WATER UNTIL IT IS CONSUMED. THE SOLUTION SIGHT HOSE IS USED TO INDICATE THE LEVEL OF DETERGENT REMAINING IN THE TANK.

10. WHEN YOU ARE READY TO STOP, PICK UP THE BRUSHES, TURN OFF THE SOLUTION SWITCH, PICK UP THE SQUEEGEE, AND DRIVE THE MACHINE BACK TO THE CHARGING AREA. BE SURE TO DRAIN BOTH TANKS BEFORE STORING MACHINE.

### DRAINING RECOVERY TANK

ALWAYS EMPTY RECOVERY TANK WHEN REFILLING THE SOLUTION TANK. TO DRAIN THE RECOVERY TANK, PERFORM THE FOLLWING STEPS.

1. REMOVE DRAIN HOSE FROM THE EXPANSION PLUG HOLDER BY TUNING THE T-HANDLE COUNTER CLOCKWISE. OPEN THE TOP "RECOVERY ACCESS LID" AND FLUSH OUT WITH WATER TO KEEP TANK CLEAN. (SEE FIGURE 18.)



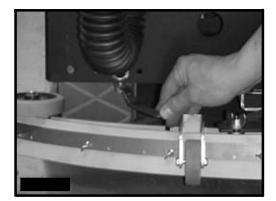
2. RINSE THE RECOVERY TANK AFTER EVERY USE. THIS WILL PREVENT HEAVY BUILDUP ON THE BOTTOM OF THE TANK, FOUL ODORS, AND CLOGGING OF THE DRAIN HOSE.

3. ONCE TANK IS EMPTY, PUT DRAIN HOSE BACK ON THE PLUG AND TIGHTEN BY TURNING THE T-HANDLE CLOCK WISE.

#### DRAINING SOLUTION TANK

TO DRAIN LEFT OVER CLEANING SOLUTION FROM THE SOLUTION TANK, PERFORM THE FOLLOWING STEPS. (SEE FIGURE 19.)

1. ROTATE THE BLUE SOLUTION TANK DRAIN VALVE OUTWARDS.



# BATTERY <u>CHARGING</u>

CAUTION: THE FOLLOWING INSTRUCTIONS ARE INTENDED FOR THE 24V CHARGER SUPPLIED WITH THE MACHINE. DO NOT USE ANY OTHER CHARGER WITH THIS MACHINE.

### CHARGER SPECIFICATIONS

OUTPUT VOLTAGE OF 24 VOLTS.

OUTPUT CURRENT OF 36 AMPS MAX.

INPUT VOLTAGE OF 110 VOLTS/60 HZ.

AUTOMATIC SHUT OFF CIRCUIT.

MADE FOR DEEP CYCLE BATTERIES.

DANGER: ALWAYS CHARGE BATTERIES IN A WELL VENTILATED AREA. BATTERIES EMIT HYDROGEN GAS. EXPLOSION OR FIRE CAN RESULT. KEEP SPARKS AND FLAME AWAY. SHIELD EYES WHEN SERVICING BATTERIES AND AVOID CONTACT WITH BATTERY ACID. LEAVE ACCESS PANEL OPEN WHEN CHARGING!

- 1. TRANSPORT MACHINE TO A WELL VENTILATED AREA FOR CHARGING.
- 2. TURN THE MACHINE OFF.
- 3. HINGE OPEN THE BATTERY ACCESS PANEL TO EXPOSE THE BATTERIES. (SEE FIGURE 20.) (CAUTION ALWAYS WEAR EYE PROTECTION WHEN BATTERIES ARE EXPOSED)



- 4. CHECK THE WATER LEVEL IN EACH BATTERY. DO NOT CHARGE THE MACHINE UNLESS THE WATER IS SLIGHTLY HIGHER THAN THE PLATES. IF NEEDED, ADD ENOUGH DISTILLED WATER TO JUST SLIGHTLY COVER THE PLATES. DO NOT OVER FILL. BATTERIES CAN OVERFLOW DURING CHARGING. REPLACE CAPS BEFORE CHARGING.
- 5. WITH THE RED CHARGER PLUG DISCONNECTED FROM THE MACHINE, PLUG THE CHARGER POWER CORD INTO A GROUNDED 110 VOLT STANDARD WALL OUTLET. (SEE FIGURE 21.)
- 6. CONNECT THE RED CHARGER PLUG INTO THE BATTERY CHARGING PORT LOCATED ON THE LOWER PORTION OF THE STEERING TOWER.



- 7. THE CHARGER WILL AUTOMATICALLY BEGIN CHARGING, AND AUTOMATICALLY SHUT OFF WHEN FULLY CHARGED (CHECK GAUGE)
- 8. AFTER THE CHARGER HAS TURNED OFF, UNPLUG THE RED CHARGER PLUG FROM THE MACHINE AND DISCONNECT THE CHARGER FROM THE WALL OUTLET.
- 9. RECHECK THE CELL LEVEL AFTER CHARGING. IF NEEDED, ADD DISTILLED WATER UP TO THE CORRECT LEVEL. BE CERTAIN TO REPLACE THE CAPS SECURELY AND TO WIPE OFF THE TOP OF THE BATTERIES WITH A CLEAN CLOTH.

# **MAINTENANCE**

### MONTHLY DAILY MAINTENANCE MAINTENANCE

- 1. REMOVE AND CLEAN PADS OR BRUSHES. NEVER USE SOILED PADS WHEN CLEANING. REPLACE PADS WHEN THEY BECOME PACKED WITH RESIDUE.
- 2. REMOVE AND CLEAN DEBRIS FROM THE FLOAT SHUT-OFF SCREEN LOCATED INSIDE THE RECOVERY TANK.
- 3. DRAIN AND RINSE TANKS THOROUGHLY INSPECT VACUUM HOSE FOR ANY OBJECTS OBSTRUCTING THE AIR FLOW.
- 4. RAISE SQUEEGEE AND WIPE BLADES WITH A CLEAN CLOTH. STORE SQUEEGEE IN THE RAISED POSITION TO PREVENT DAMAGE OR SETTING OF THE BLADES.
- 5. WIPE DOWN MACHINE IF NEEDED. USE A NONABRASIVE, NON SOLVENT CLEANER, OR A CLEAN DAMP CLOTH.
- 6. RECHARGE THE BATTERIES IF NEEDED.

- 1. CHECK SCRUB HEAD AND SQUEEGEE LIFTING CABLES FOR WEAR AND SPRING TENSION.
- 2. CHECK MACHINE FOR WATER LEAKS AND LOOSE NUTS AND BOLTS.
- 3. CHECK TO SEE IF BATTERY CABLES ARE TIGHTENED (TIGHTEN IF NEEDED)
- 4. CHECK PARKING BRAKE
- 5. CHECK CONDITION OF SCRUB DECK LIFTING CABLE.

## WEEKLY <u>MAINTENANCE</u>

- 1. CHECK BATTERY WATER LEVEL IN EACH CELL OF THE BATTERIES, AND FILL AS NEEDED. ALWAYS USE DISTILLED WATER TO REFILL BATTERIES. BATTERIES SHOULD BE FILLED APPROXIMATELY 3/4" TO 1" ABOVE THE PLATES. OVERFILLING WILL CAUSE THE BATTERIES TO LEAK DURING CHARGING. THE CHARGING PROCESS CREATES GAS BUBBLES INSIDE THE BATTERY, WHICH EFFECTIVELY INCREASES THE VOLUME OF THE ELECTROLITE.
- 2. CLEAN BATTERY TOPS TO PREVENT CORROSION.
- 3. ROTATE BRUSHES. ROTATE THE LEFT TO THE RIGHT AND RIGHT TO LEFT. ON CYLINDRICAL MODELS FROM FRONT TO BACK, OR END TO END IF USING DIFFERENT MATERIALS.

### YEARLY MAINTENANCE

1. CALL YOUR LOCAL DEALER FOR YEARLY MAINTENANCE

### **STORING MACHINE**

- 1. BE SURE TO FLUSH THE TANKS OUT COMPLETELY, AND TO DRAIN ALL WATER FROM THE MACHINE.
- 2. REMOVE THE RECOVERY TANK LID TO PROMOTE AIR CIRCULATION.
- 3. RAISE BRUSHES AND SQUEEGEE.

## PREVENTATIVE MAINTENANCE RECORDS

#### USE THIS FORM TO MAKE COPIES FOR YOUR INTERNAL RECORDS

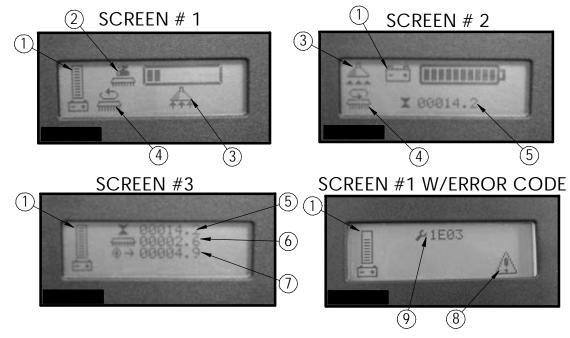
PREVENTATIVE MAINTENANCE	CHECKED	<u>NOTE</u>
ROTATE BRUSHES ROTATE SIDE BROOMS DRAIN SOLUTION TANK FLUSH SOLUTION SYSTEM CLEAN SOLUTION SCREEN DRAIN RECOVERY TANK FLUSH RECOVERY TANK CLEAN VACUUM SCREEN ROTATE REAR SQUEEGEE BLADE CHECK BATTERY WATER LEVEL CHECK BATTERY VOLTAGE CHECK CHARGER CONDITION CHECK BATTERY CONNECTIONS CHECK CHEMICAL LEVEL CHECK MACHINE PERFORMANCE SCRUBBING POWER VACUUM POWER CONTROLS WATER ON TURNS GAUGES AND CONTROLS CHECK WHEEL TRACTION		
OTHER:		
OTHER:		
PAST HOUR METER READING:		
CURRENT HOUR METER READING:		
AVERAGE WEEKLY USAGE:		
TECHNICIAN PRINT:		
TECHNICIAN SIGNATURE:		DATE:
MANAGER SIGNATURE:		DATE:

## PREVENTATIVE MAINTENANCE RECORDS

#### USE THIS FORM TO MAKE COPIES FOR YOUR INTERNAL RECORDS

PREVENTATIVE MAINTENANCE	<u>CHECKED</u>	NOTE
ROTATE BRUSHES ROTATE SIDE BROOMS DRAIN SOLUTION TANK FLUSH SOLUTION SYSTEM CLEAN SOLUTION SYSTEM CLEAN SOLUTION SCREEN DRAIN RECOVERY TANK FLUSH RECOVERY TANK CLEAN VACUUM SCREEN ROTATE REAR SQUEEGEE BLADE CHECK BATTERY WATER LEVEL CHECK BATTERY VOLTAGE CHECK CHARGER CONDITION CHECK BATTERY CONNECTIONS CHECK CHEMICAL LEVEL CHECK MACHINE PERFORMANCE SCRUBBING POWER VACUUM POWER CONTROLS WATER ON TURNS GAUGES AND CONTROLS CHECK WHEEL TRACTION		
OTHER:		
OTHER:		
Past Hour Meter Reading:		
CURRENT HOUR METER READING:		
AVERAGE WEEKLY USAGE:		
TECHNICIAN PRINT:		
TECHNICIAN SIGNATURE:		DATE:
MANAGER SIGNATURE:		DATE:

### LCD SCREEN MENU DISPLAYS



\*\*\* USE GREEN MENU SELECTION BUTTON ON CONTROL PANEL TO CHANGE SCREENS\*\*\*

FIGURES 22-25.

- 1. <u>BATTERY LEVEL INDICATOR</u> INDICATES THE ENERGY LEVEL REMAINING IN THE BATTERIES. (SHOWN ON ALL MENU DISPLAYS)
- 2. <u>SCRUBBING DECK DOWN PRESSURE GAUGE</u> SETS THE DOWN PRESSURE ON THE BRUSHES. (SEE FIGURE 22.)
- 3. VACUUM ON TELLS YOU WHEN THE VACCUM IS ON. (SEE FIGURES 22. AND 23)
- 4. SCRUBBING MOTORS ON TELLS YOU WHEN THE BRUSH MOTORS ARE RUNNING. (SEE FIGURES 22. AND23.)
- 5. KEY SWITCH HOUR METER TELLS YOU THE TOTAL HOURS THE MACHINE HAS ON. (SEE FIGURES 23. AND 24.)
- 6. <u>SCRUBBING BRUSH HOUR METER</u> TELLS YOU THE TOTAL HOURS THE BRUSH MOTORS HAVE BEEN USED. (SEE FIGURE 24.)
- 7. TRANSPORT HOUR METER TELLS YOU THE TOTAL HOURS THE DRIVE SYSTEM HAS BEEN USED. (SEE FIGURE 24.)
- 8. ERROR WARNING SYMBOL INDICATES WHEN THERE HAS BEEN A DIAGNOSTIC CODE ERROR. (SEE FIGURE 25.)
- 9. <u>DIAGNOSTIC CODE</u> WHEN THE MACHINE HAS DETECTED AN ERROR IT WILL DISPLAY THE WARNING SYMBOL AND A DIAGNOSTIC CODE WHICH TELL YOU WHATS WRONG. (SEE FIGURE 25.)

(FOR COMMAND ERROR CODES AND DISCRIPTIONS SEE PAGE 18. AND 19.)

### TROUBLESHOOTING CENTRAL COMMAND

NOTE: THIS MACHINE IS OPERATED BY A SOPHISTICATED ELECTRONIC "BRAIN" THAT HAS MANY FAIL-SAFES WITHIN IT. THE BRAIN SELF-ANALYZES PROBLEMS AND FLASHES A FOUR-DIGIT NUMERIC CODE OF WHAT IS WRONG IN THE LCD WINDOW.

MOST OF THESE CODES REQUIRE A TECHNICIAN'S ATTENTION. YOU SHOULD NOT ATTEMPT REPAIRS YOU ARE UNCOMFORTABLE WITH, ESPECIALLY IF YOU ARE NOT USED TO WORKING ON ELECTRONICS.

THE COMPLETE LIST OF CODES IS PUBLISHED IN THE SIMPLIFIED ELECTRONIC TROBLESHOOTING MANUAL, WHICH IS AVAILABLE TO TECHNICAL PEOPLE. HOWEVER, WE HAVE INCLUDED THE BASIC CODES THAT YOU CAN USUALLY RESOLVE YOURSELF.



1. 1E03 AND 1E04 ERROR. CHECK THE SMALL SAFETY SWITCH NEXT TO THE RED PLUG BELOW THE DASHBOARD. THIS SWITCH WILL TURN OFF THE TRACTION DRIVE AND BRUSHES AS A SAFETY FEATURE WHILE THE CHARGER IS PLUGGED IN. THE SWITCH MAY BE STUCK, OR THE PLUG TWISTED AT AN ANGLE, ENGAGING THE SWITCH. THIS CODE WILL ALSO FLASH IF THE WIRING BECOMES VERY WET. IN THIS CASE, EITHER WAIT UNTIL THE WIRING DRIES OUT, OR CALL A TECHNICIAN.



2. 7601 AND 7602 ERROR. PAD CURRENT OVER LOAD. THIS CAN CAN OCCUR WHEN THE PADS HIT A BUMP IN THE FLOOR. TO RESTART THE PADS, TURN OFF THE KEY AND TURN IT ON AGAIN. TO AVOID THIS ERROR, EITHER SLOW DOWN ON BUMPY PARTS OF THE FLOOR, OR REDUCE DOWNPRESSURE ON THE PADS.

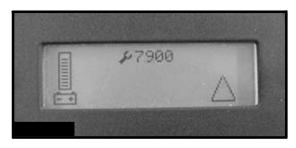


3. 1600 ERROR. VOLTAGE EXCEEDS THE MAXIMUM. EITHER THE BATTERIES ARE MIS-WIRED, OR THE CHARGER IS STILL PLUGGED INTO THE MACHINE.

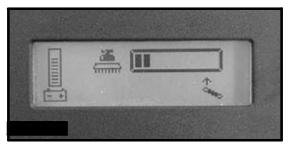


4. 7700, 7701, 7702, AND 7703 ERROR. THE VACUUM MOTOR HAS EXCEEDED THEIR AUTHORIZED POWER LIMITS. TURN OFF KEY AND TURN ON AGAIN TO CLEAR.

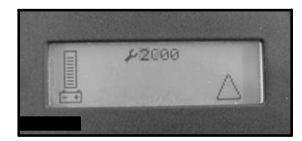
### TROUBLESHOOTING CENTRAL COMMAND



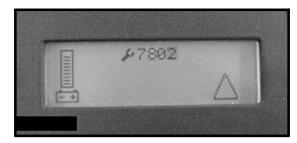
5. 7900 AND 7901 ERROR. THE EMERGENCY STOP BUTTON IS OUT



6. 2FO1 ERROR. YOU PRESSED THE FOOT PEDAL BEFORE TURNING ON THE KEY. TURN OFF THE KEY AND TRY AGAIN, LEAVING FOOT OFF OF THE PEDAL.



7. 2C00 AND 2C01 ERROR. LOW VOLTAGE WARNING. VOLTAGE HAS DROPPED DOWN BELOW THE MINIMUM REQUIRED TO OPERATE THE MACHINE. IF YOU WAIT A FEW MINUTES, THE BATTERIES MAY COAST UP A BIT IN VOLTAGE, ALLOWING YOU TO DRIVE VERY SLOWLY TO THE RECHARGE STATION. IF NOT, YOU WILL HAVE TO RELEASE THE PARKING BRAKE (ON THE FRONT WHEEL, PULL LEVER TOWARD THE FRONT OF THE MACHINE TO RELEASE) AND PUSH THE MACHINE TO RECHARGING STATION.



8. 7802 ERROR. THE TRACTION MOTOR WAS USED TO CLIMB A RAMP, AND WAS RUNNING UP THE RAMP FOR MORE THAN THE 60 SECONDS ALLOWED FOR THIS. TURN OFF THE KEY, TURN ON AGAIN, AND CONTINUE. YOU SHOULD NOT USE THIS MACHINE TO CLIMB RAMPS SO STEEP AND SO LONG THAT THIS CODE COMES UP REPEATEDLY, OR YOU COULD OVERHEAT THE TRACTION MOTOR.

9. ALL OTHER ERROR CODES. TURN OFF THE KEY, AND DISCONNECT THE POSITVE BATTERY CABLE FROM THE BATTERIES FOR MORE THAN ONE MINUTE (THE TIME IS NEEDED TO DRAIN THE BRAIN'S ON-BOARD CAPACITOR). RECONNECT CABLES, BEING SURE THAT IT IS TIGHT. TOO LOOSE AND YOU WILL BURN BATTERY. IF YOU OVERTIGHTEN THE CABLES YOU CAN DAMAGE THE BATTERY'S LEAD TERMINAL. TRY AGAIN.

10. IF THE PROBLEMS CANNOT BE SOLVED BY ANY OF THESE SOLUTION CALL YOUR LOCAL DEALER'S SERVICE DEPARTMENT.

# TROUBLE SHOOTING

PROBLEM	CAUSE	SOLUTION
NO POWER, NOTHING OPERATES	Faulty key switch Batteries need charging Faulty battery Loose Battery Cable Main Circuit Breaker Tripped	Contact local servicing dealer SEE Charging Batteries Replace Battery Tighten Loose Cable Wait 5 Minutes for Auto Reset Determine Cause and Correct
BRUSH MOTOR(S) DO NOT OPERATE	BRUSH DECK IS NOT DOWN FOOT PEDAL IS NOT DEPRESSED BRUSH CIRCUIT BREAKER TRIPPED CARBON BRUSHES WORN FAULTY BRUSH MOTOR OR WIRES	PUT BRUSH DECK DOWN ENGAGE FOOT PEDAL WAIT 5 MINUTS FOR AUTO RESET DETERMINE CAUSE AND CORRECT CONTACT LOCAL SERVICING DEALER CONTACT LOCAL SERVICING DEALER
DRIVE MOTOR DOES NOT OPERATE	RECHARGE SWITCH MISADJUSTED FAULTY SPEED CONTROLLER OR WIRES FAULTY DRIVE MOTOR FAULTY WIRING CARBON BRUSHES WORN	CONTACT LOCAL SERVICING DEALER CONTACT LOCAL SERVICING DEALER CONTACT LOCAL SERVICING DEALER CONTACT LOCAL SERVICING DEALER CONTACT LOCAL SERVICING DEALER
VACUUM MOTOR DOES NOT OPERATE	SQUEEGEE IS IN THE UP POSITION FAULTY VACUUM SWITCH VACUUM CIRCUIT BREAKER TRIPPED FAULTY VACUUM MOTOR CARBON BRUSHES WORN	ROTATE SQUEEGEE LIFT LEVER DOWN TRY OPERATING "WHITE " TOGGLE WAIT 5 MINUTES FOR AUTO RESET DETERMINE CAUSE AND CORRECT CONTACT LOCAL SERVICING DEALER CONTACT LOCAL SERVICING DEALER
DRIVE MOTOR RUNS INCORRECTLY	FAULTY SPEED CONTROLLER OR WIRES FAULTY POTENTIOMETER LOOSE WIRES	CONTACT LOCAL SERVICING DEALER CONTACT LOCAL SERVICING DEALER CONTACT LOCAL SERVICING DEALER
INSUFFICIENT SOLUTION FLOW	SOLUTION TANK LOW FLOW KNOB TURNED DOWN SOLUTION FILTER CLOGGED SOLUTION LINE CLOGGED	REFILL SOLUTION TANK, DRAIN RECOVERY TANK MOVE LEVER TO ON REMOVE COVER AND CLEAN REMOVE AND BLOW OUT WITH COMPRESSED AIR REMOVE COVER AND CLEAN

# TROUBLE SHOOTING

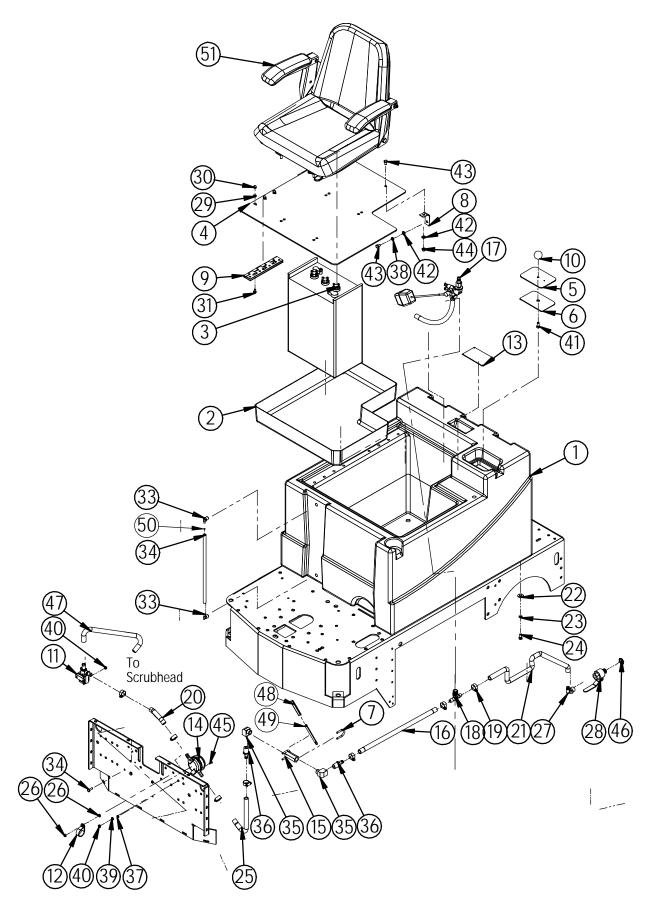
PROBLEM	CAUSE	<u>SOLUTION</u>
NO SOLUTION FLOW	NO SOLUTION IN TANK SOLUTION VALVE OFF SOLUTION SWICH OFF SOLUTION SCREEN CLOGGED FAULTY SOLUTION SOLENOID FAULTY SOLUTION SWITCH	FILL SOLUTION TANK ROTATE LEVER TO ON TURN SOLUTION SMITCH ON REMOVE AND CLEAN SCREEN CONTACT LOCAL SERVICING DEALER CONTACT LOCAL SERVICING DEALER
POOR WATER RECOVERY	RECOVERY TANK IS FULL BALL/SCREEN IN RECOVERY TANK IS CLOGGED VACUUM HOSE IS CLOGGED SQUEEGEE IS CLOGGED SQUEEGEE BLADE IS WORN FAULTY VACUUM HOSE VACUUM MOTOR GASKET TORN TANK GASKET FAULTY DRAIN PLUG LOOSE VAC MOTOR FAULTY BATTERY CHARGE LOW	EMPTY RECOVERY TANK REMOVE SCREEN AND CLEAN REMOVE DEBRIS ROTATE OR REPLACE BLADES CONTACT LOCAL SERVICING DEALER CONTACT LOCAL SERVICING DEALER TIGHTEN LID CONTACT LOCAL SERVICING DEALER CHARGE BATTERIES OVERNIGHT
POOR WATER RECOVERY ON TURNS	WPERS WORN WPERS CHATTER SQUEEGEE SWING IS BINDING INCORRECT SQUEEGEE SIZE	REPLACE WIPER MATERIAL TIGHTEN PIVOT POINTS CONTACT LOCAL SERVICING DEALER CONTACT LOCAL SERVICING DEALER
REAR TIRES NOISY	Bearing Dry Faulty Hubs	GREASE BEARINGS CONTACT LOCAL SERVICING DEALER
POOR TRACTION	EXCESSIVE BRUSH PRESSURE WORN DRIVE TIRE HEAVY SOAP CONCENTRATION	REDUCE PRESSURE WITH SWITCH
SHORT RUN TIME	BATTERIES RUN DOWN BATTERIES STILL DOWN BATTERIES LOW ON WATER BATTERIES OVER CYCLED	Charge Batteries Twice Contact Local Servicing Dealer Fill with Distilled Water to 3/4" Above The Lead Plates Contact Local Servicing Dealer

# MODEL 290/350

# MACHINE PARTS SECTION

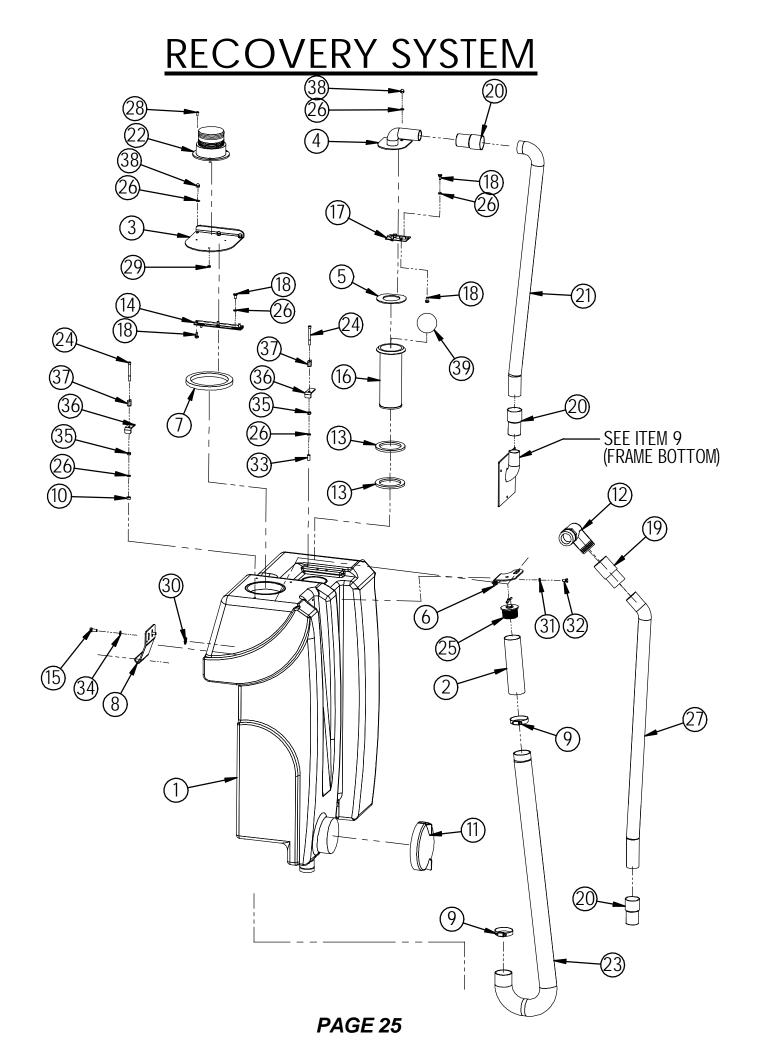
Some parts are made in red and yellow. If you need yellow parts use the alternate part number which will start with (291-XXXX). If you need red parts, use the normal part number that will start with (290-XXXX). If there is only one part number, that is the only color that part comes in.

# SOLUTION SYSTEM



# SOLUTION SYSTEM

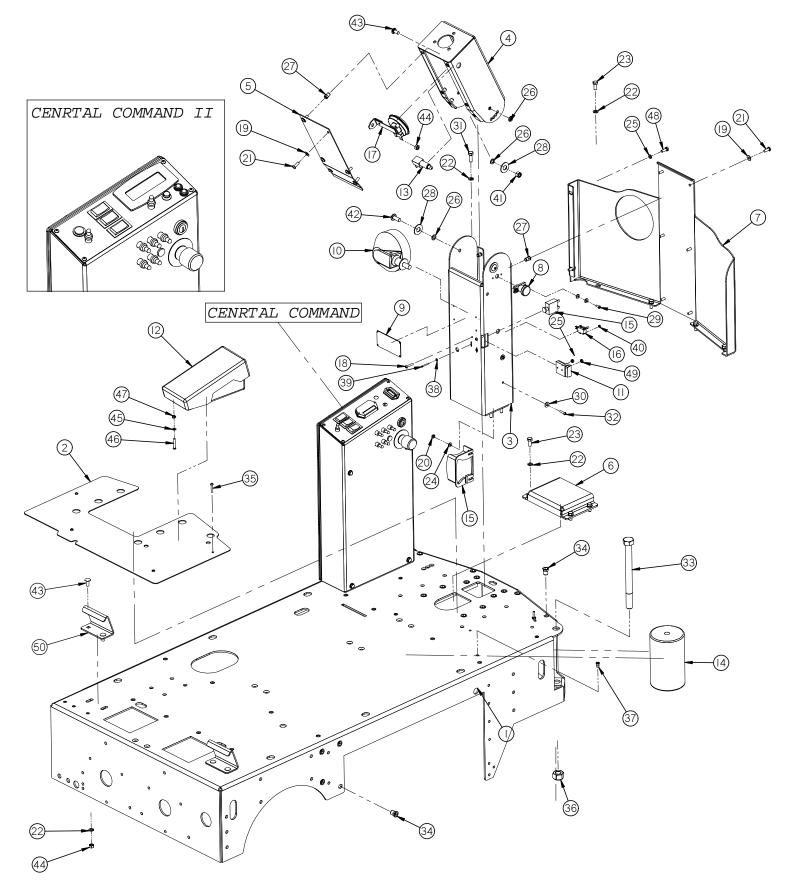
Item	Part No.	Alt. Part No.	Part Desription	Qty
1	290-4140	291-4140	SOLUTION TANK	1
2	290-1480	2,11110	BATTERY TRAY	11
3	290-2110		BATTERY 6 VOLT 395 AH	4
4	290-1300		BATTERY COMP'T COVER	$\frac{1}{1}$
5	290-4152		SOLUTION TANK LID	$\frac{1}{1}$
6	290-4153		SOL TANK LID GASKET	$\frac{1}{1}$
7	H-01519		1/4-20 X 1.75 " U BOLT	2
8	290-4151		LID STRAP	1
9	5-122		HINGE 8" SS	2
10	21-7101		LIFT KNOB	$\frac{2}{1}$
11	21-4500		ADJUSTABLE SOLUTION FLOW VALVE	$+\frac{1}{1}$
12	H-3225T5		RUBBER LOOP CLAMP	$\frac{1}{1}$
13	5-728		DETERGENT WARNING PLATE	1
14	5-913		INLINE FILTER	
15	290-4158		1/2" NPT BALL VALVE	
16	290-4175		1/2" ID X 3/4" OD X 28.0" LG CLEAR TUBE	
17	290-4175		FLOAT VALVE ASSEMBLY	1
17	290-8520		1/2" NPT X 1/2" BARBED TEE	
10	H-081		CLAMP 7/16"- 25/32" SS	$\frac{1}{7}$
20	290-4160		1/2" ID X 3/4" OD X 5.0" LG CLEAR TUBE	1
20	290-4164		1/2" ID X 3/4" OD X 24.0" LG CLEAR TUBE	1
21	H-99001		FW 3/8" SS	6
22	H-71065		LW 5/16" SS	6
23	H-70053		HCS 5/16"- 18 X 3/4" SS	6
24			1/2" ID X 3/4" OD X 15.0" LG CLEAR TUBE	1
	290-4159			2
26 27	H-NJO4C 5-447		JNYL 1/4" - 20 SS 1/2" NPT TO 1/2" BARBED ELBOW	1
			1/2" NPT TO 1/2 BARBED ELBOW 1/2" NPT BALL VALVE	
28	290-4550		LW 1/4"	
29 30	H-33618 H-37708		1/4-20 LC ACORN NUT	4
			HCS 1/4-20 LC ACORN NOT HCS 1/4"- 20 X 1/2"	
31	H-13001			3
32	290-4150		1/4" ID X 1/2" OD X 14" LG CLEAR TUBE	1
33	290-4149		1/4" NPT X 1/4" BARB X 90 DEG	
34	H-70003		HCS 1/4" - 20 X 3/4" SS	2
35	21-4042		1/2" NPT X 90 DEG ST ELBOW	2
36	290-4176		.50 NPT X .50 BARB	2
37	H-70858		NYLOK #10-32 SS	
38	H-33620		LW 5/16"	
39	H-71063		LW 1/4" SS	
40	H-70710		HN 1/4"- 20 SS	3
41	H-13053		HCS 5/16"-18 X 3/4"	1
42	H-33080		FW 5/16" SAE	2
43	H-13051		HCS 5/16"- 18 X 1/2"	2
44	H-37021		NYLOK 5/16"-18	1
45	<u>H-72563</u>		RPH #10-32 X 1/2" SS	2
46	H-07005		1/2" NPT LOCKNUT	1
47	290-4174		1/2" ID X 3/4" OD X 19.0" LG CLEAR TUBE	1
48	290-7721		LEVER GRIP	1
49	290-7720		BALL VALVE LEVER	1
50	290-4148		7/32" POLYPROPYLENE BALL	1
51	8-143		SEAT WITH ARM RESTS	1



# **RECOVERY SYSTEM**

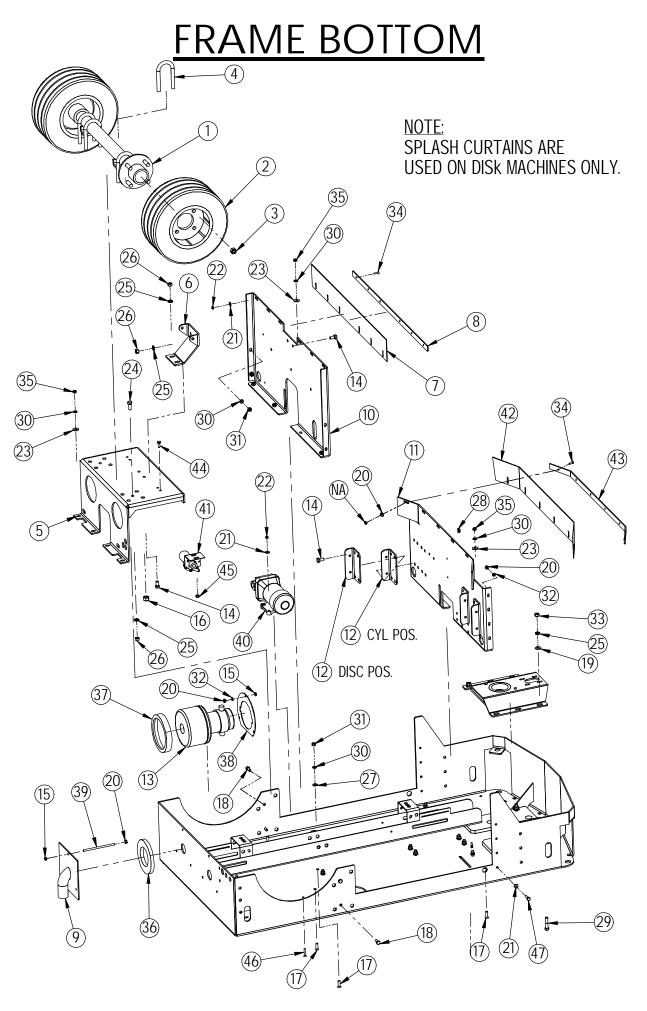
Item	Part No.	Alt. Part No.	Part Desription	Qty
1	290-7010	291-7010	RECOVERY TANK	1
2	5-920		DRAIN HOSE END TUBE	1
3	290-4112		RECOVERY TANK LID	1
4	290-4110		VAC SCREEN INLET	1
5	290-7390		VAC INLET GASKET	1
6	5-7180		DRAIN HOSE BRACKET	1
7	290-7420		REC TANK LID GASKET	1
8	290-1120		FRONT TANK SUPPORT	1
9	5-719		CLAMP 1 9/16 - 2 1/2 " SS	2
10	21-2211		SPACER 1/2 OD X 1/4"	1
11	7-415		CLEANOUT DOOR W/GASKET & DISC	1
12	290-7040		RECOVERY TANK ELBOW	1
13	38-738		STRAINER GASKET	2
14	8-180		6-7/8" SS HINGE	1
15	H-13053		HCS 5/16"-18 X 3/4"	2
16	8-911		SCREEN STRAINER	1
17	290-4115		VAC INLET HINGE	1
18	H-13001		HCS 1/4"- 20 X 1/2"	9
19	290-7212		1-1/2" - 2" HOSE CUFF	1
20	21-4072		HOSE CUFF, 1 1/2"	3
21	290-7213		VAC HOSE 37" LG	1
22	8-293		STROBE LIGHT	1
23	290-7210		DRAIN HOSE	1
24	H-23213		SHCS 1/4"- 20 X 2 1/2"	2
25	5-727		DRAIN HOSE PLUG	1
26	H-33618		LW 1/4"	11
27	290-7214		VAC HOSE 40" LG	1
28	H-73743		BHSCS 10-32 X 1/2" SS	3
29	H-70858		NYLOK #10-32 SS	3
30	H-33761		5/16" INT/EXT STAR WASHER	1
31	H-71063		LW 1/4" SS	2
32	H-70001		HCS 1/4"-20 X 1/2 SS"	2
33	5-822		Spacer, 1/4" ID, 3/8" OD, 11/16" Long	1
34	H-33620		LW 5/16"	2
35	H-36102		HN 1/4"-20	2
36	5-417		DOOR CLIP	2
37	5-418A		CLAMPING KNOB	2
38	H-37708		1/4-20 LC ACORN NUT	5
39	38-712		OVERFILL SHUTOFF BALL	1

# FRAME TOP



# FRAME TOP

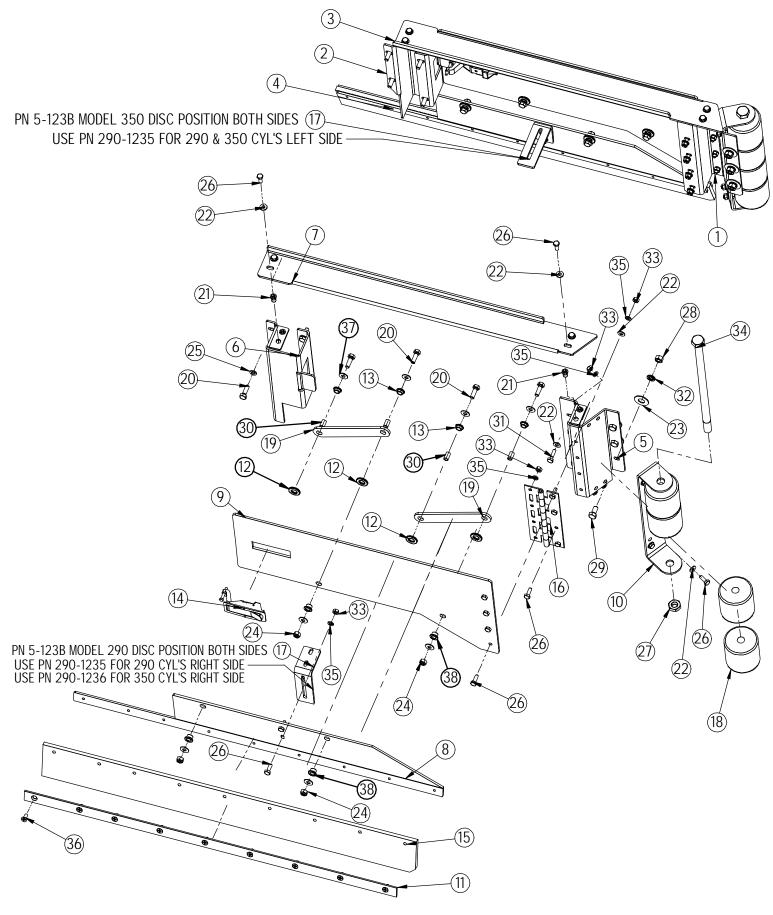
Item	Part No.	Alt. Part No.	Part Desription	Qty
	290-1100	/iic r di t i to:	FRAME WELDMENT	
2	290-1610		NON SKID FLOOR PLATE	
3	290-1170	291-1170	LOWER STEERING TOWER	
4	290-1171	291-1171	UPPER STEERING TOWER	
5	290-1172	291-1172	COVER	
6	290-1173	201-1172	DRIVE COVER	
7	290-1180	291-1180	FRONT APRON	
8	290-7050	291-1100	INDEX PLUNGER	
9	4-101		SERIAL NUMBER PLATE	
10	8-291		HEADLIGHT	
	4-257		CONNECTOR, RED 50, WITH CONTACTS	
12	8-290		FOOT PEDAL	
12	8-290 8-294B		PUSH BUTTON SWITCH, SILVER	
13				2
14	7-125A		ROLLER	
	8-292			
16	21-2230		MICRO SWITCH	
17	8-294		HORN	
18	H-28902		RPH #8-32 X I"	2
19	H-76061		FW 1/4" NYLON	12
20	H-37015		NYLOK #10-32	2
21	H-73754		BHSCS 1/4 - 20 X 3/4" SS	12
22	H-33620		LW 5/16"	16
23	H-13053		HCS 5/16"-18 X 3/4"	8
24	H-33074		FW #IO SAE	6
25	H-71063		LW I/4" SS	2
26	H-76063		FW 3/8" NYLON	6
27	H-250HCN		HCN 1/4"-20	8
28				4
29	H-29048		RPH #10-32 X 1/2"	2
30	H-71009		FW #IO SS	2
31	H-13055		HCS 5/16"-18 X 1"	4
32	H-72565		RPH #10-32 X 3/4" SS	2
33	H-11380		HCS 3/4-10 X 8-1/2	2
34	H-312HCN		HCN 5/16"-18	25
35	H-29072		RPH #10-32 X I"	4
36	H-37039		NYLOK 3/4"- 10	2
37	H-1032HCN		HCN #10-32	4
38	H-33066		FW #4 SAE	2
39	H-28678		RPH #4-40 X I"	2
40	H-37006		NYLOK #4-40	2
41	H-37024		NYLOK 3/8"-16	2
42	H-73815		BHSCS 3/8"- 16 X I" SS	2
43	H-21253		CB 5/16"- 18 X 3/4"	5
44	H-36104		HN 5/16"-18	5
45	H-71009		FW 3/16" X 7/16" SS	2
46	H-73747		RPH #10-32 X I I/4" SS	2
47	H-70858		NYLOK #10-32 SS	2
48	H-70003		HCS I/4"- 20 X 3/4" SS	2
49	H-37406		KN #8-32	2
50	290-1115		BOTTOM LATERAL TANK LOCATOR	2
50	230-1113		DUTTOW LATENAL TANK LUCATOR	2



# FRAME BOTTOM

Item	Part No.	Alt. Part No.	Part Desription	Qty
1	290-6040		REAR AXLE	1
2	290-6180	290-6185	REAR WHEEL (GREY STD.) (BLACK OPT.)	2
3	290-6187		LUG NUT, 1/2"- 20	1
4	290-6186		1/2-13 X 1-1/4 " U BOLT	4
5	290-5000		AXLE MOUNT	11
6	290-5001		SQUEEGEE DRAG BRACE	1
7	290-1253		REAR SPLASH CURTAIN	11
8	290-1254		REAR CURTAIN MTG STRIP	11
9	290-3003		VAC INLET ASS'Y	1
10	290-1250		REAR SPLASH GUARD	11
11	290-1260		FRONT SPLASH GUARD	$\frac{1}{1}$
12	290-1265		SCRUB ARM BRACKET	4
13	5-225		VAC MOTOR	$\frac{1}{1}$
14	H-70103		HCS 3/8"-16 X 3/4" SS	20
15	H-NJ04C		JNYL 1/4" - 20 SS	9
16	H-37130		NYLOK NUT, 1/2"- 20	8
17	H-29598		FPH 5/16"- 18 X 1"	17
17	H-13053		HCS 5/16"-18 X 3/4"	4
19	H-71017		FW 3/8" SS	3
20	H-70710		HN 1/4"- 20 SS	20
20	H-71013		FW 1/4" X 5/8" SS	12
22	H-70858		NYLOK #10-32 SS	8
23	H-71016		FW 5/16" X 7/8" USS	12
23	H-70105		HCS 3/8"- 16 X 1" SS	2
24	H-71067		LW 3/8" SS	10
25	H-70712		HN 3/8"-16 SS	
20	H-33080		FW 5/16" SAE	6
27	H-0129158		JNYL 3/8- 16 SS	16
20	H-70145		HCS 3/8"- 24 X 1 3/4" SS	4
30	H-33620		LW 5/16"	21
30	<u>H-33020</u> H-70861		NYLOK 5/16" - 18 SS	9
31	H-71063		LW 1/4" SS	14
				_
33	H-70732		HN 3/8"- 24 SS FHP 10-32 X 3/4" SS	4
34	H-72684			12
35	H-NJ05C		JNYL 5/16"- 18 SS VAC BOX GASKET	
36 37	290-3001		VAC BOX GASKET	
	5-708A			
38	38-734		BLOWER RING FTS 1/4"- 20 X 5" SS	1
39	H-00221			
40	5-891		PUMP, WATER JET	1
41	290-8500		PUMP 24V DC (OPTIONAL)	1
42	290-1310		FR. SPLASH CURTAIN - SHORT	1
40	290-1315		FR. SPLASH CURTAIN - LONG	
43	290-1320		CURTAIN MTG STRIP - SHORT	1
	290-1325		CURTAIN MTG STRIP - LONG	
44	H-70003		HCS 1/4"- 20 X 3/4" SS	8
45	H-70860		NYLOK 1/4"- 20 SS	4
46	H-72686		FHP 10-32 X 1-1/4" SS	4
47	H-70005		HCS 1/4"- 20 X 1" SS	4
48	H-71009		FW #10 SS	6

# DOOR/WIPER/ROLLER ASSEMBLY

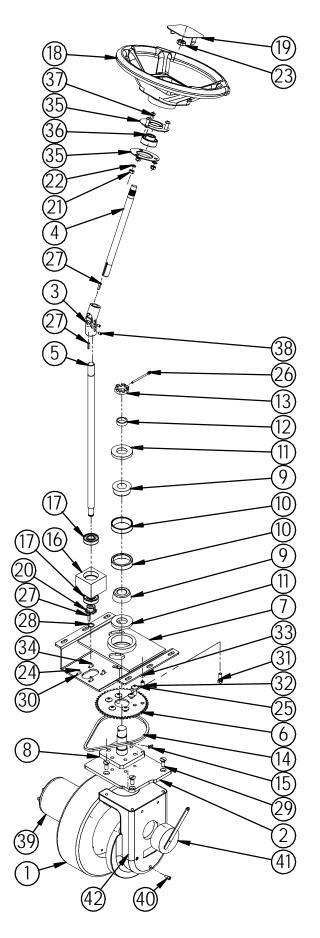


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# DOOR/WIPER/ROLLER ASSEMBLY

Item	Part No.	Part Desription	Qty
1	290-1270	FRONT LH POD	<u>U</u> (y 1
2	290-1270	REAR LH POD	1
3	290-1200	LH POD TOP SUPPORT	1
4	290-1290	LIFFOD FOF SOFFORT	1
5	290-1230	FRONT RH POD	1
6	290-1271	REAR RH POD	1
7	290-1201	RH POD TOP SUPPORT	1
8	290-1231	RIGHT WIPER	1
9	290-1231	DOOR	2
10	290-1220	ROLLER BRACKET	2
11	290-1120	WPER BAND	2
12	290-4030	FW BRONZE .500 ID X 1.00 OD X .125 THK	2
12	290-1248	3/8" ID, 1/2" OD, 1/4" LG BEARING	8
13	5-130	DOOR LATCH	o 2
14		WIPER BLADE	2
	5-402LA 5-122	8" SS HINGE	2
16			2
17	5-123B 290-1235	WIPER LIFTING BRACKET	Z
18	21-1127	ROLLER	8
19	21-1050	PARALLEL LINK	4
20	H-70055	HCS 5/16"- 18 X 1" SS	16
21	H-250HCN	HCN 1/4"-20	8
22	H-71013	FW 1/4" X 5/8" SS	36
23	H-71021	FW 3/8" X 7/8" SS	6
24	H-70861	NYLOK 5/16" - 18 SS	8
25	H-71065	LW 5/16" SS	8
26	H-70003	HCS 1/4"- 20 X 3/4" SS	36
27	H-37038	JNYL 5/8"- 11	2
28	H-70712	HN 3/8"-16 SS	6
29	H-70103	HCS 3/8"-16 X 3/4" SS	6
30	290-1234	.375 OD. X .31 ID. X .625 LG	4
31	H-70005	HCS 1/4"- 20 X 1" SS	8
32	H-71067	LW 3/8" SS	6
33	H-70710	HN 1/4"- 20 SS	36
34	H-13337	HB 5/8"- 11 X 13"	2
35	H-71063	LW 1/4" SS	36
36	H-72706	FHP 1/4"- 20 X 5/8" SS	18
37	H-78015	FW 5/16" X 3/4" SS	13
38	290-1245	3/8" ID, 1/2" OD, 3/8" LG, FLANGE BEARING	

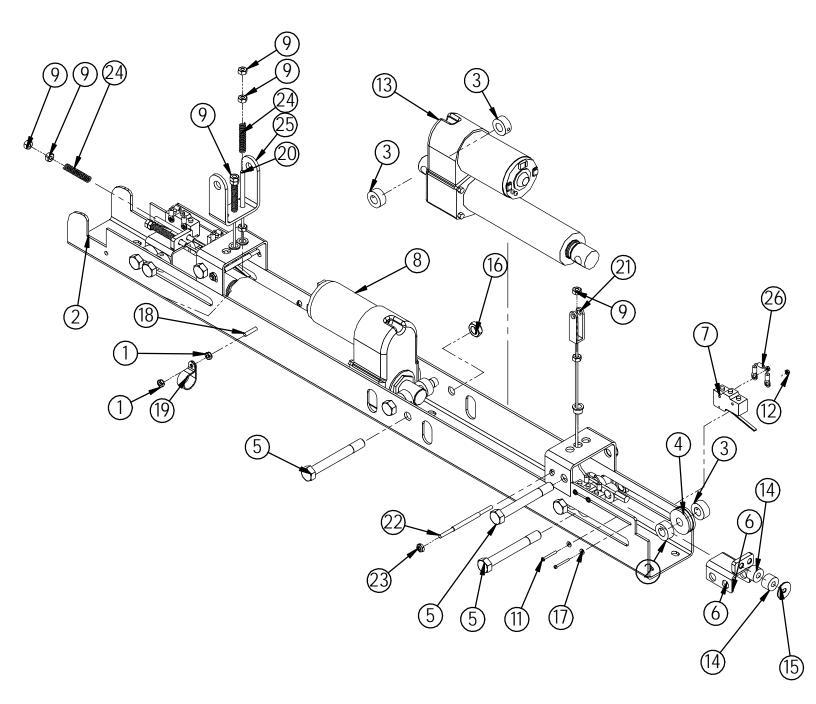
# **STEERING/TRACTION ASSEMBLY**



# **STEERING/TRACTION ASSEMBLY**

ltem	Part No.	Part Desription	Qty
1	290-7315	BLACK TIRE (OPTIONAL)	1
	290-7320	GREY TIRE (STANDARD)	
2	290-7326	PIVOT PLATE	1
	290-7110	U-JOINT	1
4	290-7090	STEERING SHAFT, UPPER	$\frac{1}{1}$
3 4 5	290-7120	STEERING SHAFT, LOWER	$\frac{1}{1}$
6	37-7314	LARGE STEERING SPROCKET	1
7	37-7315	DROP PLATE	1
8	37-7316	PIVOT SHAFT	1
9	37-7317	TAPERED ROLLER BEARING	
10	37-7318	BEARING CAP	2
11	37-7319	STEERING SHAFT SEAL	2 2 2 1
12	37-7320	PRE LOAD SLEEVE	1
13	37-7321	SLOTTED NUT, 2.0 - 12	1
14	290-7327	STEERING CHAIN	
15	5-831	MASTER LINK	
16	8-723	BEARING BLOCK	$\frac{1}{1}$
17	8-723B	BEARING	
18	8-703	STEERING WHEEL	2
19	8-701A	STEERING COVER	
20	5-826	10 TOOTH SPROCKET	
20	H-36104	HN 5/16"-18	
22	H-33620	LW 5/16"	6 5 1
23	H-37038	JNYL 5/8"- 11	1
24	H-13003	HCS 1/4"-20 X 3/4"	2
25	H-24103	BHSCS 3/8"- 24 X 1"	6
26	H-65129	3/16" X 2-1/2" COTTER PIN	1
26 27	H-00270	3/16" X 3/4" KEY	3
28	H-68013	SNAPRING 5/8"	3
29	H-28121	FHS 3/8-16 X 1"	4
30	H-33618	LW 1/4"	
31	H-13055	HCS 5/16"-18 X 1"	22
32	H-25595	SS CP 3/8"- 24 X 1/2"	
33	H-05233	PVC TUBING	
34	H-24617	SHCS, LOW HEAD, 1/4- 20 X 5/8"	2
35	4-364A	FLANGE, 1.75" ID	2
36	4-352	BEARING	1
37	H-94071	BHSCS 5/16-18 X 1	3
38	H-25328	SSS CP 1/4"-20 X 3/8"	2
39	290-7313	24V, 2HP, MOTOR	1
40	H-79041	SHCS 1/4-20 X 1/2 SS	3
41	290-7323	24 VOLT ELECTRIC BRAKE	1
41	5-2225	END HOUSING	1
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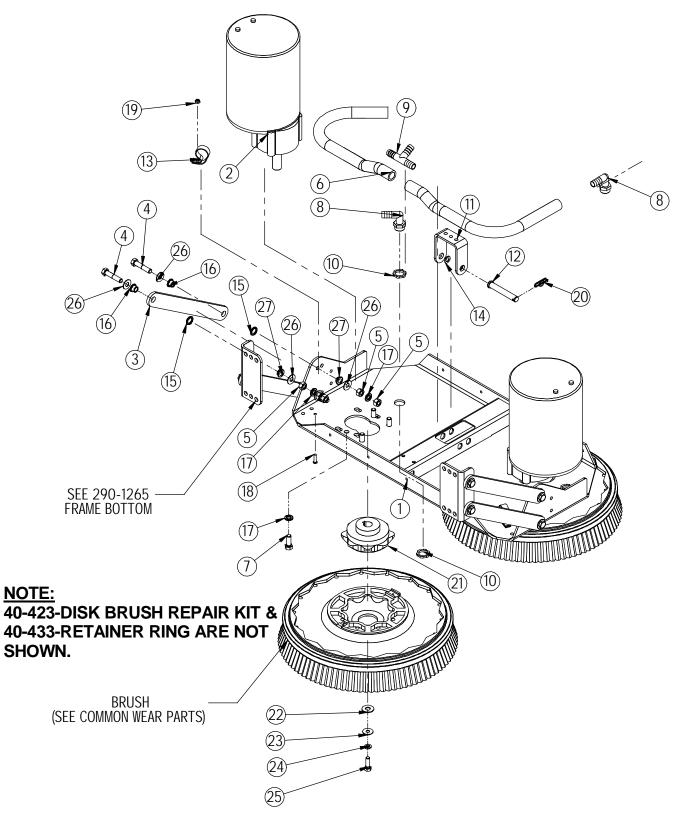
## ACTUATOR SLIDE ASSEMBLY



## ACTUATOR SLIDE ASSEMBLY

Item	Part No.	Part Desription	Qty
1	H-37408	KN #10-32	4
2	290-7660	ACTUATOR CHANNEL	1
3	H-33374	SHAFT COLLAR, 1/2" ID	16
4	5-772	PULLEY, NYLON	3
5	H-11219	HCS 1/2"- 13 X 4.0"	8
6	290-7710	CABLE TROLLEY	2
7	5-223	LIMIT SWITCH	4
8	290-2210	ACTUATOR; 1000 LB. LOAD (20:1)	1
9	H-36152	HN 1/4"- 28	18
10	H-6389	Flanged Bushing 3/8" id x 5/8" od, Nylon	3
11	H-28679	PPH #4-40 X 1"	8
12	H-37006	NYLOK #4-40	6
13	5-221	ACTUATOR; 1000 LB. LOAD (10:1)	1
14	21-7690	POLYURETHANE SPRING	2
15	H-33207	FW 1/4" X 1"	1
16	H-37032	JAM NYLOK NUT, 1/2"- 13	8
17	H-33066	FW #4 SAE	8
18	H-72566	RPH #10-32 X 1" SS	2
19	H-78LC	7/8" NYLON LOOP CLAMP	2
20	290-7713	SCRUBHEAD LIFT CABLE 12.25"	2
21	290-7890	SQUEEGEE LIFT CABLE	1
22	H-01321	Double ended stud, 1/4-20 X 4" SS	2
23	H-NJO4C	JNYL 1/4" - 20 SS	4
24	290-7712	COMPRESSION SPRING	6
25	290-4010	LIFT BRACKET	1
26	5-270	EMF SUPP DIODE	4
27	H-01320	FW 1/2" ID X 1/8" THICK NYLON	2

#### DISK SCRUBHEAD ASSEMBLY

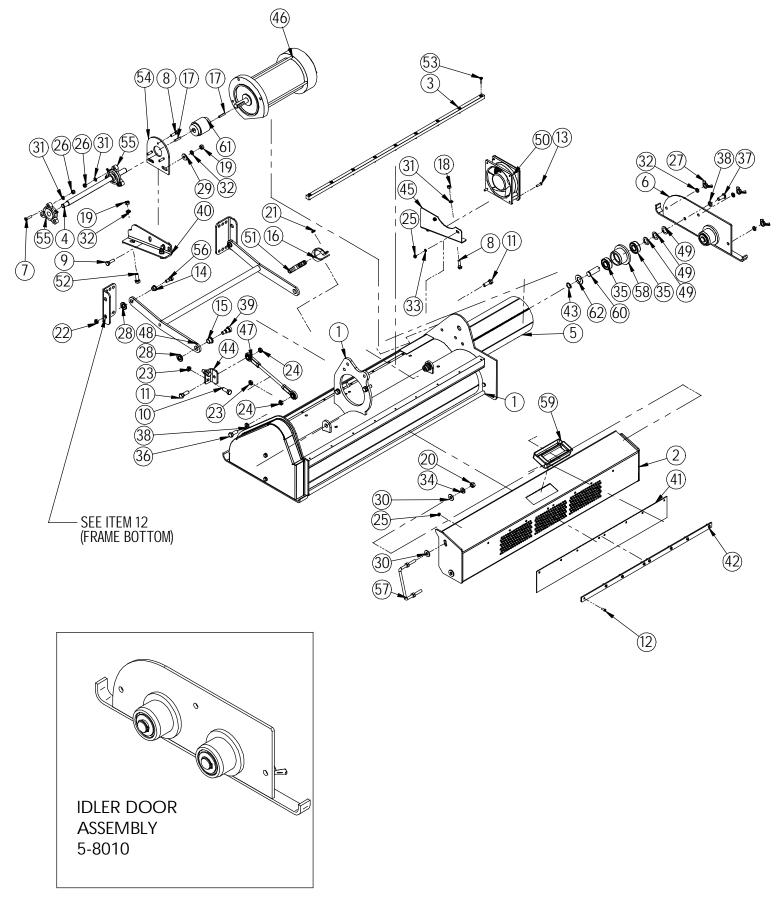


## DISK SCRUBHEAD ASSEMBLY

Item	Part No.	Part Desription	Qty
1	7-402	SCRUB HEAD PLATFORM	1
2	38-222	MOTOR 1 HP X 350 RPM	2
3	5-124	LATERAL ARM	4
4	H-70110	HCS 3/8"- 16 X 1-3/4" SS	8
5	H-70712	HN 3/8"-16 SS	11
6	7-4034	REINF. HOSE 5/8 ID X 18" LG	1
7	H-70105	HCS 3/8"- 16 X 1" SS	7
8	5-447	1/2 NPT X 1/2" BARB ELBOW	2
9	5-446	1/2 " PLASTIC BARB TEE	1
10	H-07005	1/2" NPT LOCKNUT	4
11	290-4010	LIFT BRACKET	1
12	H-CP238	1/2" X 3" CLEVIS PIN	1
13	H-78LC	7/8 LOOP CLAMP	2
14	H-76063	FW 3/8" NYLON	2
15	290-1247	FW BRONZE .50" ID X 1.0" OD X .062	5
16	290-1245	3/8" ID, 1/2" OD, 3/8" LG, FLANGE BEARING	3
17	H-71067	LW 3/8" SS	11
18	H-72565	RPH #10-32 X 3/4" SS	1
19	H-70858	NYLOK #10-32 SS	1
20	H-RUE22	1/2" RUE RING COTTER	1
21	21-5000	BRUSH DRIVER	2
22	H-99001	FW 3/8" SS	2
23	H-71016	FW 5/16" X 7/8" USS	2
24	H-71065	LW 5/16" SS	2
25	H-70055	HCS 5/16"- 18 X 1" SS	2
26	H-71017	FW 3/8" SS	10
27	290-1243	3/8" ID, 1/2" OD, 1/4" LG BEARING	2
			-

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## CYLINDRICAL-DECK

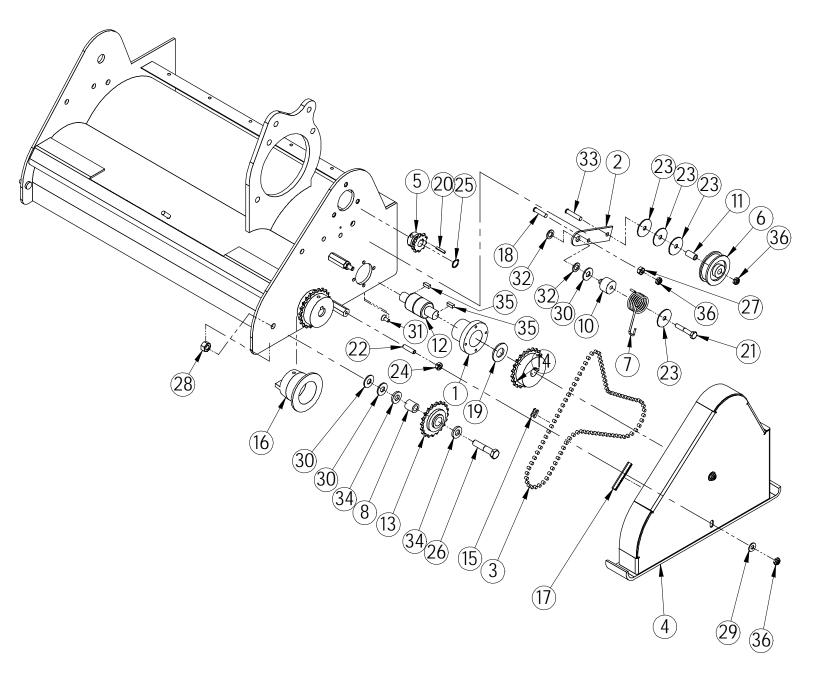


## CYLINDRICAL-DECK

Item	Part No.	Part Description	Qty
1	32-9000	32" CYL BRUSH HEAD	<u>Ury</u> 1
2	25-9050	25" HOPPER	1
	28-9050	28" HOPPER	1
	7-811	32" HOPPER	
3	25-8320	HOPPER RAIL, 25"	1
	28-8320	HOPPER RAIL, 28"	I
	5-832	HOPPER RAIL, 32"	
4	290-8355	DRIVE SHAFT, 25" CYL	1
'	290-8360	DRIVE SHAFT, 28" CYL	
	290-8365	DRIVE SHAFT, 32" CLY	
5	SEE PAGE 4	CYLINDRICAL BRUSH	2
6	5-801	IDLER DOOR	1
7	H-72710	FHP 1/4" - 20 X 1" SS	3
8	H-70005	HCS 1/4"- 20 X 1" SS	5
9	H-70055	HCS 5/16"- 18 X 1" SS	
10	H-70105	HCS 3/8"- 16 X 1" SS	2 2 2
11	H-01219	HCS 3/8"- 24 X 1 1/8" SS	2
12	H-72563	RPH #10-32 X 1/2" SS	8
13	H-72565	RPH #10-32 X 3/4" SS	2
14	290-1245	3/8" ID, 1/2" OD, 3/8" LG,	2
		FLANGE BEARING	
15	290-1246	1/2" ID X 5/8" OD X 1/2" LG	2
		FLANGED BEARING	
16	H-3225T5	RUBBER LOOP CLAMP	1
17	H-01125	3/16" X 1" KEY	2
18	H-70710	HN 1/4"- 20 SS	2
19	H-70711	HN 5/16"- 18 SS	4
20	H-36106	HN 3/8"-16	2
21	H-NJO4C	JNYL 1/4" - 20 SS	1
22	H-NJO5C	JNYL 5/16"- 18 SS	2
23 24	H-0129158	JNYL 3/8-16 SS JNYL 3/8-24 SS	4
24	H-00531	JNYL 3/8-24 SS	2 4 2 10 6 3
25	H-70858	NYLOK #10-32 SS	10
26	H-70860	NYLOK 1/4"- 20 SS	6
27	H-70911	WINGNUT 5/16"- 18 SS	3
28	290-1248	FW BRONZE .500 ID X 1.00	4
		OD X .125 THK	

Item	Part No.	Part Description	Qty
29	H-71016	FW 5/16" X 7/8" USS	2
30	H-33008	FW 3/8" USS	4
31	H-71063	LW 1/4" SS	8
32	H-71065	LW 5/16" SS	7
33	H-33614	LW #10	2
34	H-33622	LW 3/8"	2
35	1-421	IDLER BEARING	4
36	H-70105	HCS 3/8-16 X 1" SS	3
37	H-73815	BH SCHS 3/8-16 X 1" SS	
38	H-71067	LOCKWASHER 3/8 SS	4
39	H-25452	SB 1/2" X 1/2" SS	2
40	28-9005	FAN PLATE MOUNT	
41	28-9060	HOPPER SPLASH SHIELD	1
42	28-9070	SPLASH SHIELD HOPPER	1
		STRIP	
43	H-35313	17mm SNAP RING	2
44	290-1350	CYL SUPPORT BRACKET	1
45	290-8100	FAN MTG BRACKET	1
46	22-2110	2 HP MOTOR	1
47	7-843	ADJ LATERAL ARM	1
48	290-9020	CYLINDRICAL LIFT ARM	1
49	H-17002	FW 17mm NYLON	6
50	5-212	COOLING FAN	1
51	5-446	1/2 " PLASTIC BARB TEE	1
52	H-70055	HB 5/16"- 18 X 1" SS	2
53	H-72684	FHP 10-32 X 3/4" SS	9
54	5-8102	BEARING PLATE	1
55	5-829	FLANGE BEARING	2
56	H-25444	SB 3/8" X 3/8" SS	
57	5-834	HOPPER HANDLE	1
58	5-838	BRUSHIDLER	2
59	5-849	RECESSED HANDLE	1
60	5-858	IDLER SHAFT	2
61	8-613	FLEXIBLE COUPLER	
62	H-00797	FW 17.3mm X 33.2mm X	2
		1.6mm	

## CYLINDRICAL-MECHANICAL

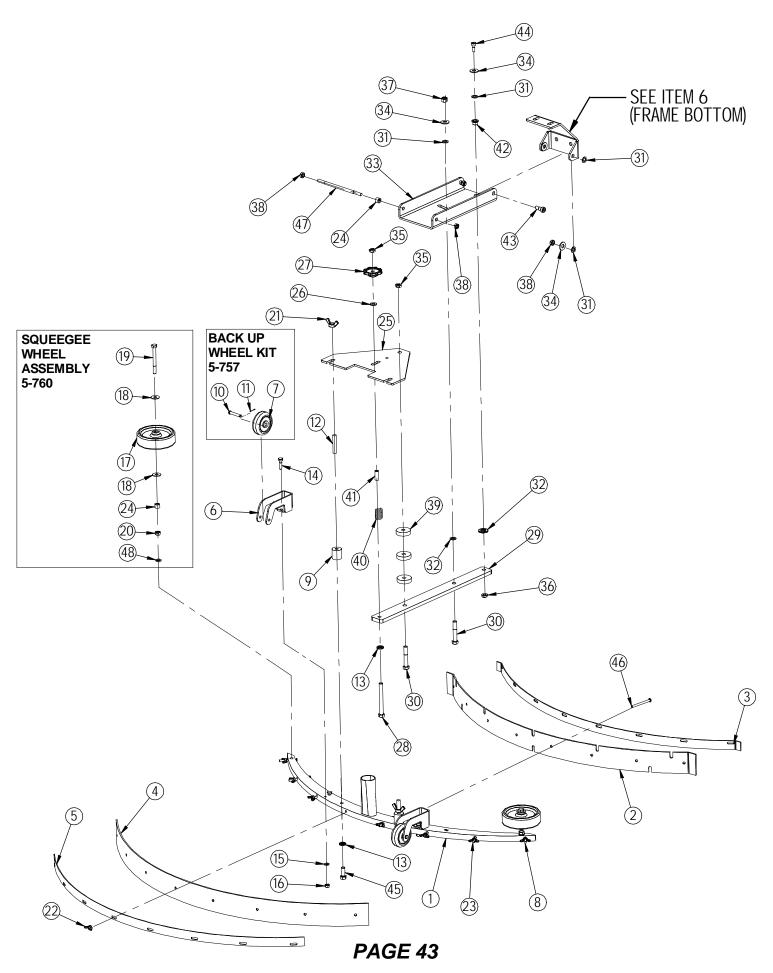


## CYLINDRICAL-MECHANICAL

Item	Part #	Description	Qty
1	1-305	BEARING HOUSING	2
2	22-7970	MOVABLE IDLER ARM	1
3	22-8300	DRIVE CHAIN	1
4	22-9021	CHAIN GUARD	1
5	290-8260	10 TOOTH SPROCKET	1
6	4-317	IDLER PULLEY	1
7	4-319	TENSION SPRING	1
8	5-793	IDLER SPACER	1
9	5-796	GREASE (USE ONLY OEM GREASE - NOT SHOWN)	1
10	5-798	SPRING PIVOT	1
11	5-822	Spacer, 1/4" ID, 3/8" OD, 11/16" Long	1
12	5-824	DRIVE BEARING	2
13	5-827	20 TOOTH SPROCKET	1
14	5-828	22 TOOTH SPROCKET	2
15	5-831	MASTER LINK	1
16	5-837	BROOM DRIVER	2
17	5-845A	WINDLACING - (WEATHER STRIPPING)	1
18	H-00272	SCS 1/4"- 20 X 1.0"	1
19	H-00279	WASHER 5/8 TEFLON	1
20	H-01343	1/8" X 1/8" X 3/4" KEY	1
21	H-15009	HCS 1/4"- 20 X 1-1/2" GRADE 8	1
22	H-255HD	STUD 1/4"- 20 X 1"	2
23	H-33208	FW1/4"X11/4"	4
24	H-36202	JN 1/4"- 20	2
25	H-68011	SNAPRING .5"	1
26	H-70145	HCS 3/8-24 X 1 3/4" SS	1
27	H-70710	HN 1/4"- 20 SS	1
28	H-70732	HN 3/8"-24 SS	1
29	H-71013	FW 1/4" X 5/8" SS	2
30	H-71017	FW 3/8" SS	3
31	H-72682	FHP 10-32 X 1/2" SS	1
32	H-76063	FW 3/8" NYLON	2
33	H-93580	SCS 1/4"- 20 X 1 1/4"	1
34	H-98025	WASHER 3/8 GRADE 8	2
35	H-K1432	3/16" X 1/2" KEY	4
36	H-NJO4C	JNYL 1/4" - 20 SS	4

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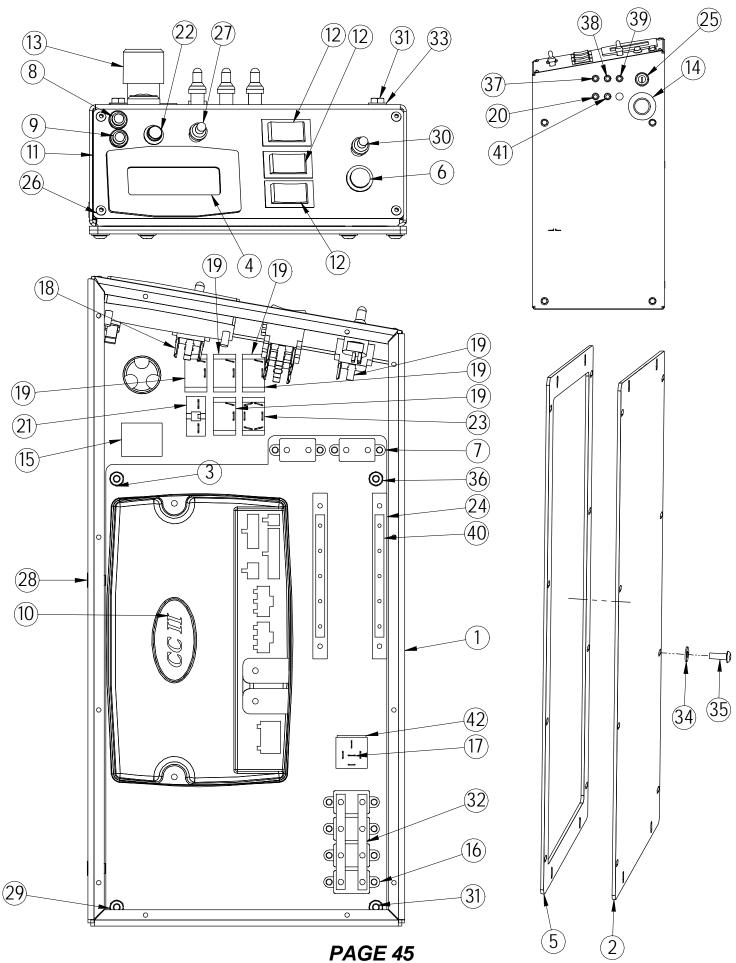
## SQUEEGEE ASSEMBLY



# SQUEEGEE ASSEMBLY

Item	Part No.	Part Desription	Qty	Item	Part No.	Part Desription	Qty
1	22-7181	30" SQUEEGEE WELDMENT	1	20	H-70711	HN 5/16"- 18 SS	2
	25-7181 28-7181	35" SQUEEGEE WELDMENT 38" SQUEEGEE WELDMENT		21	5-786	WINGNUT 3/8"-16 NICKEL	2
	290-7181	45" SQUEEGEE WELDMENT		22	H-70908	WINGNUT 10-32 SS	8
2	22-755G	30" SQUEEGEE BLADE, FRONT	1	23	H-00249	PPH #10-32 X 2 1/4" SS	4
	25-755G	35" SQUEEGEE BLADE, FRONT		24	H-33371	5/16" ID SHAFT COLLAR	3
	28-755G 290-756G	38" Squeegee Blade, Front 45" squeegee Blade, Front		25	21-7610	SQUEEGEE TRIANGLE PLATE	1
3	22-7170	30" SQUEEGEE BAND, FRONT	1	26	H-33080	FW 5/16" SAE	1
Ŭ	25-7170	35" SQUEEGEE BAND, FRONT		27	21-7205	PALM GRIP KNOB, 3/8-24	1
	28-7170 290-7170	38" Squeegee Band, Front 45" Squeegee Band, Front		28	H-10055	HCS 3/8"- 24 X 3.5" SS	1
4	230-7170 22-754G	30" SQUEEGEE BLADE, REAR	1	29	290-7150	SQUEEGEE TRAIL ARM	1
4	25-754G	35" SQUEEGEE BAND, REAR		30	H-70136	HCS 3/8"- 24 X 2 1/4" SS	2
	28-754G	38" SQUEEGEE BLADE, REAR		31	H-76063	FW 3/8" NYLON	7
	7-753G	45" SQUEEGEE BLADE, REAR	1	32	290-1248	FW BRONZE .500 ID X 1.00 OD X .125 THK	1
5	22-7160 25-7160	30" Squeegee Band, Rear 35" Squeegee Band, Rear	1	33	290-7130	SQUEEGEE SWING PLATE	1
	28-7160	38" SQUEEGEE BAND, REAR		34	H-71017	FW 3/8" SS	4
	290-7160	45" SQUEEGEE BAND, REAR		35	H-00531	JNYL 3/8-24 SS	2
6	21-7220	SQUEEGEE TRAIL MOUNTS	2	36	H-0129158	JNYL 3/8-16 SS	1
7	21-7570	BACK UP WHEEL (GREY)	2	37	H-77862	NYLOK 3/8"- 16 SS	1
8	H-72555	PPH #10-32 X 1 3/4" SS	2	38	H-NJ05C	JNYL 5/16"- 18 SS	4
9	5-846	PIVOT SHAFT	2	39	4-446	GROMMET-3/8 ID X 1-1/2 OD X .375	3
10	HZCP44	CLEVIS PIN 1/4 X 1 1/2"	2	40	21-7240	SPRING	1
11	H-RUE8	1/4" RUE RING COTTER	2	41	7-782C	5/16 CLEAR TUBING	1
12	H-S1060	STUD 3/8-16 X 1 1/2" SS	2	42	290-1245	3/8" ID, 1/2" OD, 3/8" LG, FLANGE BEARING	1
13	H-71067	LW 3/8" SS	3	43	H-2S444	SB 5/16" X 3/8" SS	2
14	H-70005	HCS 1/4"- 20 X 1" SS	4	44	H-79054	SHCS 5/16-18 X 3/4 SS	1
15	H-71063	LW 1/4" SS	4	45	H-70105	HCS 3/8"- 16 X 1" SS	2
16	H-70710	HN 1/4"- 20 SS	4	46	H-00288	PPH #10-32 X 2 1/2" SS	2
17	5-760B	SIDE WHEEL (GREY)	2	47	H-90281	1/4-20 X 6" DOUBLE ENDED STUD	1
18	H-71016	FW 5/16" X 7/8" USS	4	48	H-71065	LW 5/16" SS	2
19	H-70065	HCS 5/16"- 18 X 3" SS	2				

## <u>CENTRAL COMMAND II</u>



## CENTRAL COMMAND II

Item         Part No.         Part Description           1         290-2010         CONTROL PANEL           2         290-2006         HARDWARE PANEL           4         290-2004         ACCESS COVER           5         290-2004         ACCESS COVER GASKET           6         290-2015         ONE TOUCH BUTTON           7         290-2815         CIR. BREAKER - 15A, 24V           8         290-2300         LOW SOLUTION (AMBER)           9         290-2310         FULL RECOVERY (RED)           10         290-2890         COMPUTER CONTROL           11         290-2013         CONT PANEL TOP PLATE           12         5-234         SWITCH, ROCKER, DPDT, ON/ON           13         5-300         EMERGENCY SHUT OFF (OPT)           14         5-301         EMERG CONTACT BLK (OPT)           16         5-289         CIR BREAKER 24V 50A           17         5-293         15 AMP RELAY           18         7-283         SWITCH, TOGGLE, MOM/OFF/MOM (DPDT)           19         5-892A         PROTECTIVE BOOT, TOGGLE SWITCH, (GRAY)           21         7-837         FUSE RESETTABLE 2 AMP           22         7-229         PUSH BUTTON SWITCH	Qty
3         290-2006         HARDWARE PANEL           4         290-2891         LCD SCREEN           5         290-2004         ACCESS COVER GASKET           6         290-2015         ONE TOUCH BUTTON           7         290-2815         CIR. BREAKER - 15A, 24V           8         290-2300         LOW SOLUTION (AMBER)           9         290-2310         FULL RECOVERY (RED)           10         290-2890         COMPUTER CONTROL           11         290-2013         CONT PANEL TOP PLATE           12         5-234         SWITCH, ROCKER, DPDT, ON/ON           13         5-300         EMERGENCY SHUT OFF (OPT)           14         5-301         EMERG LEGEND PLATE (OPT)           15         5-302         EMERG CONTACT BLK (OPT)           16         5-289         CIR BREAKER 24V 50A           17         5-293         15 AMP RELAY           18         7-283         SWITCH, TOGGLE, MOM/OFF /MOM (DPDT)           19         5-892A         PROTECTIVE BOOT, TOGGLE SWITCH, (GRAY)           21         7-837         FUSE RESETTABLE 2 AMP           22         7-229         PUSH BUTTON SWITCH           23         7-821         SWITCH, TOGGLE, ON/ON (DPDT) <td>1</td>	1
4         290-2891         LCD SCREEN           5         290-2004         ACCESS COVER GASKET           6         290-2015         ONE TOUCH BUTTON           7         290-2815         CIR. BREAKER - 15A, 24V           8         290-2300         LOW SOLUTION (AMBER)           9         290-2310         FULL RECOVERY (RED)           10         290-2310         CONT PAREL TOP PLATE           11         290-2013         CONT PANEL TOP PLATE           12         5-234         SWITCH, ROCKER, DPDT, ON/ON           13         5-300         EMERGENCY SHUT OFF (OPT)           14         5-301         EMERG LEGEND PLATE (OPT)           15         5-302         EMERG CONTACT BLK (OPT)           16         5-289         CIR BREAKER 24V 50A           17         5-293         15 AMP RELAY           18         7-283         SWITCH, TOGGLE, MOM/OFF/MOM (DPDT)           19         5-892A         PROTECTIVE BOOT, TOGGLE SWITCH, (GRAY)           21         7-837         FUSE RESETTABLE 2 AMP           22         7-229         PUSH BUTTON SWITCH           23         7-821         SWITCH, TOGGLE, ON/ON (DPDT)           24         7-287         BUSS BAR UHMW <td>1</td>	1
4         290-2891         LCD SCREEN           5         290-2004         ACCESS COVER GASKET           6         290-2015         ONE TOUCH BUTTON           7         290-2815         CIR. BREAKER - 15A, 24V           8         290-2300         LOW SOLUTION (AMBER)           9         290-2310         FULL RECOVERY (RED)           10         290-2310         CONT PAREL TOP PLATE           11         290-2013         CONT PANEL TOP PLATE           12         5-234         SWITCH, ROCKER, DPDT, ON/ON           13         5-300         EMERGENCY SHUT OFF (OPT)           14         5-301         EMERG LEGEND PLATE (OPT)           15         5-302         EMERG CONTACT BLK (OPT)           16         5-289         CIR BREAKER 24V 50A           17         5-293         15 AMP RELAY           18         7-283         SWITCH, TOGGLE, MOM/OFF/MOM (DPDT)           19         5-892A         PROTECTIVE BOOT, TOGGLE SWITCH, (GRAY)           21         7-837         FUSE RESETTABLE 2 AMP           22         7-229         PUSH BUTTON SWITCH           23         7-821         SWITCH, TOGGLE, ON/ON (DPDT)           24         7-287         BUSS BAR UHMW <td>1</td>	1
5         290-2004         ACCESS COVER GASKET           6         290-2015         ONE TOUCH BUTTON           7         290-2815         CIR. BREAKER - 15A, 24V           8         290-2300         LOW SOLUTION (AMBER)           9         290-2310         FULL RECOVERY (RED)           10         290-2890         COMPUTER CONTROL           11         290-2013         CONT PANEL TOP PLATE           12         5-234         SWITCH, ROCKER, DPDT, ON/ON           13         5-300         EMERGENCY SHUT OFF (OPT)           14         5-301         EMERG LEGEND PLATE (OPT)           15         5-302         EMERG CONTACT BLK (OPT)           16         5-289         CIR BREAKER 24V 50A           17         5-293         15 AMP RELAY           18         7-283         SWITCH, TOGGLE, MOM/OFF/MOM (DPDT)           19         5-892A         PROTECTIVE BOOT, TOGGLE SWITCH, (GRAY)           21         7-837         FUSE RESETTABLE 2 AMP           22         7-229         PUSH BUTTON SWITCH           23         7-821         SWITCH, TOGGLE, ON/ON (DPDT)           24         7-287         BUSS BAR UHMW           25         4-234         KEY SWITCH	1
6         290-2015         ONE TOUCH BUTTON           7         290-2815         CIR. BREAKER - 15A, 24V           8         290-2300         LOW SOLUTION (AMBER)           9         290-2310         FULL RECOVERY (RED)           10         290-2890         COMPUTER CONTROL           11         290-2013         CONT PANEL TOP PLATE           12         5-234         SWITCH, ROCKER, DPDT, ON/ON           13         5-300         EMERGENCY SHUT OFF (OPT)           14         5-301         EMERG LEGEND PLATE (OPT)           15         5-302         EMERG CONTACT BLK (OPT)           16         5-289         CIR BREAKER 24V 50A           17         5-293         15 AMP RELAY           18         7-283         SWITCH, TOGGLE, MOM/OFF/MOM (DPDT)           19         5-892         TOGGLE, ON-OFF SPST           20         5-892A         PROTECTIVE BOOT, TOGGLE SWITCH, (GRAY)           21         7-837         FUSE RESETTABLE 2 AMP           22         7-229         PUSH BUTTON SWITCH           23         7-821         SWITCH, TOGGLE, ON/ON (DPDT)           24         7-287         BUSS BAR UHMW           25         4-234         KEY SWITCH      <	1
7         290-2815         CIR. BREAKER - 15A, 24V           8         290-2300         LOW SOLUTION (AMBER)           9         290-2310         FULL RECOVERY (RED)           10         290-2890         COMPUTER CONTROL           11         290-2013         CONT PANEL TOP PLATE           12         5-234         SWITCH, ROCKER, DPDT, ON/ON           13         5-300         EMERGENCY SHUT OFF (OPT)           14         5-301         EMERG LEGEND PLATE (OPT)           15         5-302         EMERG CONTACT BLK (OPT)           16         5-289         CIR BREAKER 24V 50A           17         5-293         15 AMP RELAY           18         7-283         SWITCH, TOGGLE, MOW/OFF/MOM (DPDT)           19         5-892A         PROTECTIVE BOOT, TOGGLE SWITCH, (GRAY)           21         7-837         FUSE RESETTABLE 2 AMP           22         7-229         PUSH BUTTON SWITCH           23         7-821         SWITCH, TOGGLE, ON/ON (DPDT)           24         7-287         BUSS BAR UHMW           25         4-234         KEY SWITCH           26         H-73743         BHSCS 10-32 X 1/2" SS           27         H-01200         PROTECTIVE BOOT, TOGGLE SWITCH, (	1
8         290-2300         LOW SOLUTION (AMBER)           9         290-2310         FULL RECOVERY (RED)           10         290-2890         COMPUTER CONTROL           11         290-2013         CONT PANEL TOP PLATE           12         5-234         SWITCH, ROCKER, DPDT, ON/ON           13         5-300         EMERGENCY SHUT OFF (OPT)           14         5-301         EMERG LEGEND PLATE (OPT)           15         5-302         EMERG CONTACT BLK (OPT)           16         5-289         CIR BREAKER 24V 50A           17         5-293         15 AMP RELAY           18         7-283         SWITCH, TOGGLE, MOM/OFF/MOM (DPDT)           19         5-892         TOGGLE, ON-OFF SPST           20         5-892A         PROTECTIVE BOOT, TOGGLE SWITCH, (GRAY)           21         7-837         FUSE RESETTABLE 2 AMP           22         7-229         PUSH BUTTON SWITCH           23         7-821         SWITCH, TOGGLE, ON/ON (DPDT)           24         7-287         BUSS BAR UHMW           25         4-234         KEY SWITCH           26         H-73743         BHSCS 10-32 X 1/2" SS           27         H-01200         PROTECTIVE BOOT, TOGGLE SWITCH, (BLACK)	2
9         290-2310         FULL RECOVERY (RED)           10         290-2890         COMPUTER CONTROL           11         290-2013         CONT PANEL TOP PLATE           12         5-234         SWITCH, ROCKER, DPDT, ON/ON           13         5-300         EMERGENCY SHUT OFF (OPT)           14         5-301         EMERG LEGEND PLATE (OPT)           15         5-302         EMERG CONTACT BLK (OPT)           16         5-289         CIR BREAKER 24V 50A           17         5-293         15 AMP RELAY           18         7-283         SWITCH, TOGGLE, MOM/OFF/MOM (DPDT)           19         5-892         TOGGLE, ON-OFF SPST           20         5-892A         PROTECTIVE BOOT, TOGGLE SWITCH, (GRAY)           21         7-837         FUSE RESETTABLE 2 AMP           22         7-229         PUSH BUTTON SWITCH           23         7-821         SWITCH, TOGGLE, ON/ON (DPDT)           24         7-287         BUSS BAR UHMW           25         4-234         KEY SWITCH           26         H-73743         BHSCS 10-32 X 1/2" SS           27         H-01200         PROTECTIVE BOOT, TOGGLE SWITCH, (BLACK)           28         H-250HCN         HCN 1/4"-20	1
10         290-2890         COMPUTER CONTROL           11         290-2013         CONT PANEL TOP PLATE           12         5-234         SWITCH, ROCKER, DPDT, ON/ON           13         5-300         EMERGENCY SHUT OFF (OPT)           14         5-301         EMERG LEGEND PLATE (OPT)           15         5-302         EMERG CONTACT BLK (OPT)           16         5-289         CIR BREAKER 24V 50A           17         5-293         15 AMP RELAY           18         7-283         SWITCH, TOGGLE, MOM/OFF/MOM (DPDT)           19         5-892         TOGGLE, ON-OFF SPST           20         5-892A         PROTECTIVE BOOT, TOGGLE SWITCH, (GRAY)           21         7-837         FUSE RESETTABLE 2 AMP           22         7-229         PUSH BUTTON SWITCH           23         7-821         SWITCH, TOGGLE, ON/ON (DPDT)           24         7-287         BUSS BAR UHMW           25         4-234         KEY SWITCH           26         H-73743         BHSCS 10-32 X 1/2" SS           27         H-01200         PROTECTIVE BOOT, TOGGLE SWITCH, (BLACK)           28         H-250HCN         HCN 1/4"-20           30         H-01196         PROTECTIVE BOOT, TOGGLE SWI	1
11         290-2013         CONT PANEL TOP PLATE           12         5-234         SWITCH, ROCKER, DPDT, ON/ON           13         5-300         EMERGENCY SHUT OFF (OPT)           14         5-301         EMERG LEGEND PLATE (OPT)           15         5-302         EMERG CONTACT BLK (OPT)           16         5-289         CIR BREAKER 24V 50A           17         5-293         15 AMP RELAY           18         7-283         SWITCH, TOGGLE, MOM/OFF/MOM (DPDT)           19         5-892         TOGGLE, ON-OFF SPST           20         5-892A         PROTECTIVE BOOT, TOGGLE SWITCH, (GRAY)           21         7-837         FUSE RESETTABLE 2 AMP           22         7-229         PUSH BUTTON SWITCH           23         7-821         SWITCH, TOGGLE, ON/ON (DPDT)           24         7-287         BUSS BAR UHMW           25         4-234         KEY SWITCH           26         H-73743         BHSCS 10-32 X 1/2" SS           27         H-01200         PROTECTIVE BOOT, TOGGLE SWITCH, (BLACK)           28         H-250HCN         HCN 1/4"-20           30         H-01196         PROTECTIVE BOOT, TOGGLE SWITCH, (RED)           31         H-13005         HCS 1/4	1
12         5-234         SWITCH, ROCKER, DPDT, ON/ON           13         5-300         EMERGENCY SHUT OFF (OPT)           14         5-301         EMERG LEGEND PLATE (OPT)           15         5-302         EMERG CONTACT BLK (OPT)           16         5-289         CIR BREAKER 24V 50A           17         5-293         15 AMP RELAY           18         7-283         SWITCH, TOGGLE, MOM/OFF/MOM (DPDT)           19         5-892         TOGGLE, ON-OFF SPST           20         5-892A         PROTECTIVE BOOT, TOGGLE SWITCH, (GRAY)           21         7-837         FUSE RESETTABLE 2 AMP           22         7-229         PUSH BUTTON SWITCH           23         7-821         SWITCH, TOGGLE, ON/ON (DPDT)           24         7-287         BUSS BAR UHMW           25         4-234         KEY SWITCH           26         H-73743         BHSCS 10-32 X 1/2" SS           27         H-01200         PROTECTIVE BOOT, TOGGLE SWITCH, (BLACK)           28         H-250HCN         HCN 1/4"-20           30         H-01196         PROTECTIVE BOOT, TOGGLE SWITCH, (RED)           31         H-13005         HCS 1/4"-20 X 1"           32         E-4HBB         4 HOLE BUSS B	1
13         5-300         EMERGENCY SHUT OFF (OPT)           14         5-301         EMERG LEGEND PLATE (OPT)           15         5-302         EMERG CONTACT BLK (OPT)           16         5-289         CIR BREAKER 24V 50A           17         5-293         15 AMP RELAY           18         7-283         SWITCH, TOGGLE, MOM/OFF/MOM (DPDT)           19         5-892         TOGGLE, ON-OFF SPST           20         5-892A         PROTECTIVE BOOT, TOGGLE SWITCH, (GRAY)           21         7-837         FUSE RESETTABLE 2 AMP           22         7-229         PUSH BUTTON SWITCH           23         7-821         SWITCH, TOGGLE, ON/ON (DPDT)           24         7-287         BUSS BAR UHMW           25         4-234         KEY SWITCH           26         H-73743         BHSCS 10-32 X 1/2" SS           27         H-01200         PROTECTIVE BOOT, TOGGLE SWITCH, (BLACK)           28         H-250HCN         HCN 1/4"-20           29         H-36102         HN 1/4"-20           30         H-01196         PROTECTIVE BOOT, TOGGLE SWITCH, (RED)           31         H-13005         HCS 1/4"-20 X 1"           32         E-4HBB         4 HOLE BUSS BAR <td>3</td>	3
14         5-301         EMERG LEGEND PLATE (OPT)           15         5-302         EMERG CONTACT BLK (OPT)           16         5-289         CIR BREAKER 24V 50A           17         5-293         15 AMP RELAY           18         7-283         SWITCH, TOGGLE, MOM/OFF/MOM (DPDT)           19         5-892         TOGGLE, ON-OFF SPST           20         5-892A         PROTECTIVE BOOT, TOGGLE SWITCH, (GRAY)           21         7-837         FUSE RESETTABLE 2 AMP           22         7-229         PUSH BUTTON SWITCH           23         7-821         SWITCH, TOGGLE, ON/ON (DPDT)           24         7-287         BUSS BAR UHMW           25         4-234         KEY SWITCH           26         H-73743         BHSCS 10-32 X 1/2" SS           27         H-01200         PROTECTIVE BOOT, TOGGLE SWITCH, (BLACK)           28         H-250HCN         HCN 1/4"-20           29         H-36102         HN 1/4"-20           30         H-01196         PROTECTIVE BOOT, TOGGLE SWITCH, (RED)           31         H-13005         HCS 1/4"-20 X 1"           32         E-4HBB         4 HOLE BUSS BAR           33         H-33078         FW 1/4" X 5/8" SS	1
15         5-302         EMERG CONTACT BLK (OPT)           16         5-289         CIR BREAKER 24V 50A           17         5-293         15 AMP RELAY           18         7-283         SWITCH, TOGGLE, MOW/OFF/MOM (DPDT)           19         5-892         TOGGLE, ON-OFF SPST           20         5-892A         PROTECTIVE BOOT, TOGGLE SWITCH, (GRAY)           21         7-837         FUSE RESETTABLE 2 AMP           22         7-229         PUSH BUTTON SWITCH           23         7-821         SWITCH, TOGGLE, ON/ON (DPDT)           24         7-287         BUSS BAR UHMW           25         4-234         KEY SWITCH           26         H-73743         BHSCS 10-32 X 1/2" SS           27         H-01200         PROTECTIVE BOOT, TOGGLE SWITCH, (BLACK)           28         H-250HCN         HCN 1/4"-20           30         H-01196         PROTECTIVE BOOT, TOGGLE SWITCH, (RED)           31         H-13005         HCS 1/4"-20 X 1"           32         E-4HBB         4 HOLE BUSS BAR           33         H-33078         FW 1/4" SAE           34         H-71013         FW 1/4" X 5/8" SS           35         H-73754         BHSCS 1/4 - 20 X 3/4 SS	1
16         5-289         CIR BREAKER 24V 50A           17         5-293         15 AMP RELAY           18         7-283         SWITCH, TOGGLE, MOM/OFF/MOM (DPDT)           19         5-892         TOGGLE, ON-OFF SPST           20         5-892A         PROTECTIVE BOOT, TOGGLE SWITCH, (GRAY)           21         7-837         FUSE RESETTABLE 2 AMP           22         7-229         PUSH BUTTON SWITCH           23         7-821         SWITCH, TOGGLE, ON/ON (DPDT)           24         7-287         BUSS BAR UHMW           25         4-234         KEY SWITCH           26         H-73743         BHSCS 10-32 X 1/2" SS           27         H-01200         PROTECTIVE BOOT, TOGGLE SWITCH, (BLACK)           28         H-250HCN         HCN 1/4"-20           29         H-36102         HN 1/4"-20           30         H-01196         PROTECTIVE BOOT, TOGGLE SWITCH, (RED)           31         H-13005         HCS 1/4"-20 X 1"           32         E-4HBB         4 HOLE BUSS BAR           33         H-33078         FW 1/4" X 5/8" SS           35         H-73754         BHSCS 1/4 - 20 X 3/4 SS           36         H-33618         LW 1/4"	1
17       5-293       15 AMP RELAY         18       7-283       SWITCH, TOGGLE, MOM/OFF/MOM (DPDT)         19       5-892       TOGGLE, ON-OFF SPST         20       5-892A       PROTECTIVE BOOT, TOGGLE SWITCH, (GRAY)         21       7-837       FUSE RESETTABLE 2 AMP         22       7-229       PUSH BUTTON SWITCH         23       7-821       SWITCH, TOGGLE, ON/ON (DPDT)         24       7-287       BUSS BAR UHMW         25       4-234       KEY SWITCH         26       H-73743       BHSCS 10-32 X 1/2" SS         27       H-01200       PROTECTIVE BOOT, TOGGLE SWITCH, (BLACK)         28       H-250HCN       HCN 1/4"-20         29       H-36102       HN 1/4"-20         30       H-01196       PROTECTIVE BOOT, TOGGLE SWITCH, (RED)         31       H-13005       HCS 1/4"-20 X 1"         32       E-4HBB       4 HOLE BUSS BAR         33       H-33078       FW 1/4" X 5/8" SS         35       H-73754       BHSCS 1/4 - 20 X 3/4 SS         36       H-33618       LW 1/4"	4
18         7-283         SWITCH, TOGGLE, MOM/OFF/MOM (DPDT)           19         5-892         TOGGLE, ON-OFF SPST           20         5-892A         PROTECTIVE BOOT, TOGGLE SWITCH, (GRAY)           21         7-837         FUSE RESETTABLE 2 AMP           22         7-229         PUSH BUTTON SWITCH           23         7-821         SWITCH, TOGGLE, ON/ON (DPDT)           24         7-287         BUSS BAR UHMW           25         4-234         KEY SWITCH           26         H-73743         BHSCS 10-32 X 1/2" SS           27         H-01200         PROTECTIVE BOOT, TOGGLE SWITCH, (BLACK)           28         H-250HCN         HCN 1/4"-20           29         H-36102         HN 1/4"-20           30         H-01196         PROTECTIVE BOOT, TOGGLE SWITCH, (RED)           31         H-13005         HCS 1/4"-20 X 1"           32         E-4HBB         4 HOLE BUSS BAR           33         H-33078         FW 1/4" X 5/8" SS           35         H-73754         BHSCS 1/4 - 20 X 3/4 SS           36         H-33618         LW 1/4"	1
19       5-892       TOGGLE, ON-OFF       SPST         20       5-892A       PROTECTIVE BOOT, TOGGLE SWITCH, (GRAY)         21       7-837       FUSE RESETTABLE 2 AMP         22       7-229       PUSH BUTTON SWITCH         23       7-821       SWITCH, TOGGLE, ON/ON (DPDT)         24       7-287       BUSS BAR UHMW         25       4-234       KEY SWITCH         26       H-73743       BHSCS 10-32 X 1/2" SS         27       H-01200       PROTECTIVE BOOT, TOGGLE SWITCH, (BLACK)         28       H-250HCN       HCN 1/4"-20         29       H-36102       HN 1/4"-20         30       H-01196       PROTECTIVE BOOT, TOGGLE SWITCH, (RED)         31       H-13005       HCS 1/4"-20 X 1"         32       E-4HBB       4 HOLE BUSS BAR         33       H-33078       FW 1/4" X 5/8" SS         34       H-71013       FW 1/4" X 5/8" SS         35       H-73754       BHSCS 1/4 - 20 X 3/4 SS         36       H-33618       LW 1/4"	1
20         5-892A         PROTECTIVE BOOT, TOGGLE SWITCH, (GRAY)           21         7-837         FUSE RESETTABLE 2 AMP           22         7-229         PUSH BUTTON SWITCH           23         7-821         SWITCH, TOGGLE, ON/ON (DPDT)           24         7-287         BUSS BAR UHMW           25         4-234         KEY SWITCH           26         H-73743         BHSCS 10-32 X 1/2" SS           27         H-01200         PROTECTIVE BOOT, TOGGLE SWITCH, (BLACK)           28         H-250HCN         HCN 1/4"-20           29         H-36102         HN 1/4"-20           30         H-01196         PROTECTIVE BOOT, TOGGLE SWITCH, (RED)           31         H-13005         HCS 1/4"-20 X 1"           32         E-4HBB         4 HOLE BUSS BAR           33         H-33078         FW 1/4" X 5/8" SS           34         H-71013         FW 1/4" X 5/8" SS           35         H-73754         BHSCS 1/4 - 20 X 3/4 SS           36         H-33618         LW 1/4"	5
21       7-837       FUSE RESETTABLE 2 AMP         22       7-229       PUSH BUTTON SWITCH         23       7-821       SWITCH, TOGGLE, ON/ON (DPDT)         24       7-287       BUSS BAR UHMW         25       4-234       KEY SWITCH         26       H-73743       BHSCS 10-32 X 1/2" SS         27       H-01200       PROTECTIVE BOOT, TOGGLE SWITCH, (BLACK)         28       H-250HCN       HCN 1/4"-20         29       H-36102       HN 1/4"-20         30       H-01196       PROTECTIVE BOOT, TOGGLE SWITCH, (RED)         31       H-13005       HCS 1/4"-20 X 1"         32       E-4HBB       4 HOLE BUSS BAR         33       H-33078       FW 1/4" X 5/8" SS         34       H-71013       FW 1/4" X 5/8" SS         35       H-73754       BHSCS 1/4 - 20 X 3/4 SS         36       H-33618       LW 1/4"	1
22         7-229         PUSH BUTTON SWITCH           23         7-821         SWITCH, TOGGLE, ON/ON (DPDT)           24         7-287         BUSS BAR UHMW           25         4-234         KEY SWITCH           26         H-73743         BHSCS 10-32 X 1/2" SS           27         H-01200         PROTECTIVE BOOT, TOGGLE SWITCH, (BLACK)           28         H-250HCN         HCN 1/4"-20           29         H-36102         HN 1/4"-20           30         H-01196         PROTECTIVE BOOT, TOGGLE SWITCH, (RED)           31         H-13005         HCS 1/4"-20 X 1"           32         E-4HBB         4 HOLE BUSS BAR           33         H-33078         FW 1/4" SAE           34         H-71013         FW 1/4" X 5/8" SS           35         H-73754         BHSCS 1/4 - 20 X 3/4 SS           36         H-33618         LW 1/4"	1
23         7-821         SWITCH, TOGGLE, ON/ON (DPDT)           24         7-287         BUSS BAR UHMW           25         4-234         KEY SWITCH           26         H-73743         BHSCS 10-32 X 1/2" SS           27         H-01200         PROTECTIVE BOOT, TOGGLE SWITCH, (BLACK)           28         H-250HCN         HCN 1/4"-20           29         H-36102         HN 1/4"-20           30         H-01196         PROTECTIVE BOOT, TOGGLE SWITCH, (RED)           31         H-13005         HCS 1/4"-20 X 1"           32         E-4HBB         4 HOLE BUSS BAR           33         H-33078         FW 1/4" SAE           34         H-71013         FW 1/4" X 5/8" SS           35         H-73754         BHSCS 1/4 - 20 X 3/4 SS           36         H-33618         LW 1/4"	1
24         7-287         BUSS BAR UHMW           25         4-234         KEY SWITCH           26         H-73743         BHSCS 10-32 X 1/2" SS           27         H-01200         PROTECTIVE BOOT, TOGGLE SWITCH, (BLACK)           28         H-250HCN         HCN 1/4"-20           29         H-36102         HN 1/4"-20           30         H-01196         PROTECTIVE BOOT, TOGGLE SWITCH, (RED)           31         H-13005         HCS 1/4"-20 X 1"           32         E-4HBB         4 HOLE BUSS BAR           33         H-33078         FW 1/4" SAE           34         H-71013         FW 1/4" X 5/8" SS           35         H-73754         BHSCS 1/4 - 20 X 3/4 SS           36         H-33618         LW 1/4"	1
25       4-234       KEY SWITCH         26       H-73743       BHSCS 10-32 X 1/2" SS         27       H-01200       PROTECTIVE BOOT, TOGGLE SWITCH, (BLACK)         28       H-250HCN       HCN 1/4"-20         29       H-36102       HN 1/4"-20         30       H-01196       PROTECTIVE BOOT, TOGGLE SWITCH, (RED)         31       H-13005       HCS 1/4"-20 X 1"         32       E-4HBB       4 HOLE BUSS BAR         33       H-33078       FW 1/4" SAE         34       H-71013       FW 1/4" X 5/8" SS         35       H-73754       BHSCS 1/4 - 20 X 3/4 SS         36       H-33618       LW 1/4"	2
26       H-73743       BHSCS 10-32 X 1/2" SS         27       H-01200       PROTECTIVE BOOT, TOGGLE SWITCH, (BLACK)         28       H-250HCN       HCN 1/4"-20         29       H-36102       HN 1/4"-20         30       H-01196       PROTECTIVE BOOT, TOGGLE SWITCH, (RED)         31       H-13005       HCS 1/4"-20 X 1"         32       E-4HBB       4 HOLE BUSS BAR         33       H-33078       FW 1/4" SAE         34       H-71013       FW 1/4" X 5/8" SS         35       H-73754       BHSCS 1/4 - 20 X 3/4 SS         36       H-33618       LW 1/4"	1
27         H-01200         PROTECTIVE BOOT, TOGGLE SWITCH, (BLACK)           28         H-250HCN         HCN 1/4"-20           29         H-36102         HN 1/4"-20           30         H-01196         PROTECTIVE BOOT, TOGGLE SWITCH, (RED)           31         H-13005         HCS 1/4"-20 X 1"           32         E-4HBB         4 HOLE BUSS BAR           33         H-33078         FW 1/4" SAE           34         H-71013         FW 1/4" X 5/8" SS           35         H-73754         BHSCS 1/4 - 20 X 3/4 SS           36         H-33618         LW 1/4"	4
28       H-250HCN       HCN 1/4"-20         29       H-36102       HN 1/4"-20         30       H-01196       PROTECTIVE BOOT, TOGGLE SWITCH, (RED)         31       H-13005       HCS 1/4"-20 X 1"         32       E-4HBB       4 HOLE BUSS BAR         33       H-33078       FW 1/4" SAE         34       H-71013       FW 1/4" X 5/8" SS         35       H-73754       BHSCS 1/4 - 20 X 3/4 SS         36       H-33618       LW 1/4"	1
29       H-36102       HN 1/4"-20         30       H-01196       PROTECTIVE BOOT, TOGGLE SWITCH, (RED)         31       H-13005       HCS 1/4"-20 X 1"         32       E-4HBB       4 HOLE BUSS BAR         33       H-33078       FW 1/4" SAE         34       H-71013       FW 1/4" X 5/8" SS         35       H-73754       BHSCS 1/4 - 20 X 3/4 SS         36       H-33618       LW 1/4"	2
30         H-01196         PROTECTIVE BOOT, TOGGLE SWITCH, (RED)           31         H-13005         HCS 1/4"-20 X 1"           32         E-4HBB         4 HOLE BUSS BAR           33         H-33078         FW 1/4" SAE           34         H-71013         FW 1/4" X 5/8" SS           35         H-73754         BHSCS 1/4 - 20 X 3/4 SS           36         H-33618         LW 1/4"	12
31         H-13005         HCS 1/4"-20 X 1"           32         E-4HBB         4 HOLE BUSS BAR           33         H-33078         FW 1/4" SAE           34         H-71013         FW 1/4" X 5/8" SS           35         H-73754         BHSCS 1/4 - 20 X 3/4 SS           36         H-33618         LW 1/4"	1
32         E-4HBB         4 HOLE BUSS BAR           33         H-33078         FW 1/4" SAE           34         H-71013         FW 1/4" X 5/8" SS           35         H-73754         BHSCS 1/4 - 20 X 3/4 SS           36         H-33618         LW 1/4"	4
33         H-33078         FW 1/4" SAE           34         H-71013         FW 1/4" X 5/8" SS           35         H-73754         BHSCS 1/4 - 20 X 3/4 SS           36         H-33618         LW 1/4"	2
34         H-71013         FW 1/4" X 5/8" SS           35         H-73754         BHSCS 1/4 - 20 X 3/4 SS           36         H-33618         LW 1/4"	4
35         H-73754         BHSCS         1/4 - 20 X         3/4 SS           36         H-33618         LW 1/4"	12
36 H-33618 LW 1/4"	12
	4
38 H-01195 PROTECTIVE BOOT, TOGGLE SWITCH, (WHITE)	$\begin{vmatrix} 1 \\ 1 \end{vmatrix}$
39 H-01198 PROTECTIVE BOOT, TOGGLE SWITCH, (GREEN)	$\begin{vmatrix} 1 \\ 1 \end{vmatrix}$
40     E-5HBB     5 HOLE BUSS BAR	2
41 H-01197 PROTECTIVE BOOT, TOGGLE SWITCH, (YELLOW)	1
42 290-2020 BRACKET	1

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