



**EW51501**

## **Driveline Fluid Exchange Machine**



## **Operations Manual**

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# **INTRODUCTION** *to the* **Wynn's Driveline Fluid Exchange Machine**

Congratulations on the purchase of your Wynn's driveline fluid exchange machine!

Simply put, this machine is the cleanest, safest, easiest, fastest, most thorough, and most cost-efficient method of driveline fluid exchange ever devised. Suddenly, driveline maintenance has become a more realistic proposition. Fluid exchanges are cleaner and neater than ever!

Service neglect leads to driveline system complaints including objectionable noise. Historically, driveline fluid service has been neglected, often due to the lack of a convenient method for providing such fluid exchange services. Previous methods for servicing the driveline system or replacing the driveline fluid were time consuming and often inefficient or incomplete. Now, it's easier than ever to replace the old driveline fluid to ensure a long, trouble-free life.

**Please take time to read through this manual to familiarize yourself with this machine before performing your first driveline fluid exchange.**

## **CUSTOMER SERVICE CONTACT INFORMATION**

For product information, tech support, or to order replacement parts, please call: **833-303-4644**  
or visit: ***equipment.wynnsusa.com***

# IMPORTANT SAFETY NOTICE

For your safety, read this manual thoroughly before operating your machine. This machine is intended for use by properly trained, skilled professional automotive technicians. The safety messages presented below and throughout this user's manual are reminders to the operator to exercise care when using this unit. Before using this machine, always refer to and follow the safety messages and applicable service procedures provided by the manufacturer of the vehicle being serviced.

## • Read All Safety Instructions

Read, understand and follow all safety messages and instructions in this manual. Safety messages in this section of the manual contain a signal word with a three-part message and, in some instances, an icon.

## • Signal Words

The signal word indicates the level of the hazard in a situation:

### **DANGER**

*Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury to the operator or to bystanders.*

### **WARNING**

*Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury to the operator or to bystanders.*

### **CAUTION**

*Indicates a potentially hazardous situation which, if not avoided, may result in moderate or minor injury to the operator or to bystanders.*

### **IMPORTANT**

*Indicates a situation which, if not avoided, may result in damage to the machine, or the vehicle being serviced.*

## • Safety Messages

Safety messages in this section contain three different type styles:

- Normal type states the hazard.
- **Bold type** states how to avoid the hazard.
- *Italic type* states the possible consequences of not avoiding the hazard.

## • Safety Symbols

A safety symbol, when present, gives a graphical description of the potential hazard, and how to avoid the hazard:



**Risk of Fire**



**Read Instructions Before Use**



**Risk of Explosion**



**Mandatory Eye Protection**



**Risk of Entanglement**



**Mandatory Protective Gloves**



**Dangerous Fumes**



**Mandatory Protective Clothing**



**Do Not Pull or Move**

# IMPORTANT SAFETY INSTRUCTIONS

## DANGER



Engine exhaust contains toxic gases.

- **Vent vehicle's exhaust away from work area.**
- **Do not breathe exhaust.**

*Exhaust gases will cause injury or death.*

## WARNING



Improper use and operation.

- **Read, understand and follow all safety messages and operational procedures in this manual before operating the machine.**
- **This equipment should be operated only by qualified personnel.**
- **Use this equipment only as described in this manual.**

*Improper use and operation of this product can result in injury.*

## WARNING



Engine systems can malfunction expelling fuel, oil vapors, hot steam, hot toxic exhaust gases and other debris.

- **Wear safety goggles and protective clothing, user and bystander.**

*Engine systems that fail can cause serious injury.*

## WARNING

Risk of unexpected vehicle movement.

- **Block drive wheels before starting vehicle's engine to begin an exchange.**
- **Unless instructed otherwise, set parking brake and put gear selector in park.**
- **Do not leave a running vehicle unattended.**

*A moving vehicle can cause injury.*

## WARNING



Engine has moving parts. Risk of entanglement.

- **Do not place tools on fenders or other places in engine compartment.**
- **Keep yourself, clothing, battery cables and service hoses clear of moving parts such as fan blades, belts and pulleys.**

*Contact with moving parts can cause injury.*

## **WARNING**



Risk of expelling pressurized fluids.

- **Wear safety goggles and protective clothing, user and bystander.**
- **Always unplug the machine from its power source when not in use.**
- **Keep the service hoses away from hot or moving engine parts. Hoses can split or burst causing fluid to be expelled.**
- **Avoid contact with driveline fluid.**
- **Treatment methods are as follows:**
  - Eyes: Flush eyes with plenty of water.**
  - Skin: Wash with soap and water.**
  - Inhalation: Move to uncontaminated area.**
  - Ingestion: If large amount, get medical attention.**
  - If any irritation persists, get medical attention.**

- **Dispose of used fluid according to environmental laws and regulations.**

*Although automatic transmission and driveline fluid pose no significant health hazards, some individuals may experience adverse reactions upon contact. Pressurized fluid can cause serious injury.*

## **WARNING**



Risk of fire or explosion.

- **Do not operate the machine in the vicinity of open containers of flammable liquids such as gasoline.**
- **Keep hoses and jumper cables away from heat sources and sharp edges.**
- **Do not operate equipment with damaged cords or hoses until they have been examined by a qualified serviceman.**

*Fire or explosion can cause injury.*

## **WARNING**



Risk of fire or explosion. Gases produced by a battery are highly explosive.

- **Wear safety goggles and protective clothing, user and bystander.**
- **This machine is equipped to operate on 12-volt DC power only. A power source greater than this can result in serious injury to the user as well as damage to the machine.**
- **Do not smoke, place metal tools on battery or allow a spark or flame in vicinity of battery.**
- **Clean battery terminals before hooking the machine's battery clips to them. During cleaning, keep airborne corrosion from eyes, nose and mouth.**
- **Be sure both battery cables are tightly connected to the battery terminals as instructed before proceeding with a fluid exchange.**
- **Never remove battery cables from the battery terminals while the machine is operating.**

*Battery explosion can cause injury.*

## **WARNING**



Battery acid is a highly corrosive sulfuric acid.

- **Wear safety goggles and protective gloves, user and bystander.**
- **Have plenty of fresh water and soap nearby. If battery acid contacts skin, clothing, or eyes, flush exposed area with soap and water for 10 minutes.**
- **While cleaning battery's terminals, keep airborne corrosion from eyes, nose and mouth.**
- **Do not touch eyes while working near battery.**

*Battery acid can burn eyes and skin.*

## **WARNING**



Risk of burns.

- **Wear gloves when working near hot engine components.**
- **Do not touch hot exhaust systems, manifolds, engines, radiators, etc.**
- **The fluid coming from the vehicle along with some of the machine's components that the fluid comes into direct contact with (i.e. external: hoses and quick-disconnect fittings; internal: hoses and all fittings) may reach temperatures uncomfortable to the touch. Exercise caution in avoiding contact with these items.**

*Hot components can cause injury or discomfort.*

## **CAUTION**



Risk of injury.

- **This equipment should be operated by qualified personnel only.**
- **Use this equipment only as described in this manual.**
- **Always unplug the machine from its power source when not in use.**
- **Loop the power cord loosely in its proper location when machine is not in use.**
- **Do not operate equipment with a damaged battery cables or hoses, or if the equipment has been dropped or damaged, until it has been examined by a qualified service representative.**
- **Care should be taken to arrange the battery cables and service hoses so that they will not be tripped over or pulled.**
- **Never pull on the power cables or service hoses to transport the machine. Damage may occur to these components, or machine may tip over.**
- **Keep area of operation clear of unnecessary tools and equipment. Utilize recessed tool storage areas on the top of the machine.**
- **Never leave the machine running unattended.**
- **This machine is not designed for any other purpose than the exchanging of driveline fluid.**

*Operation of your machine by anyone other than qualified personnel may result in injury.*

## **IMPORTANT**

Risk of equipment damage.

- **Connect battery cables to a 12-volt power source only (i.e. vehicle's battery).**
- **Servicing, transporting, or storing this machine in an attitude other than the normal operating position can result in fluid spillage and/or component damage.**
- **Never pull on the power cables or service hoses to transport the machine. Damage may occur to these components, or machine may tip over.**
- **Periodically clean the machine by wiping down with a clean, soft, dry cloth.**

*Improper operation of equipment may result in damage to machine or components.*

**SAVE AND FOLLOW THESE INSTRUCTIONS!**



# MACHINE SPECIFICATIONS

**Dimensions:** 38" H x 18" W x 26" D

**Weight:** 60 lbs.

**Waste Fluid Bottle:** 4 Qt.

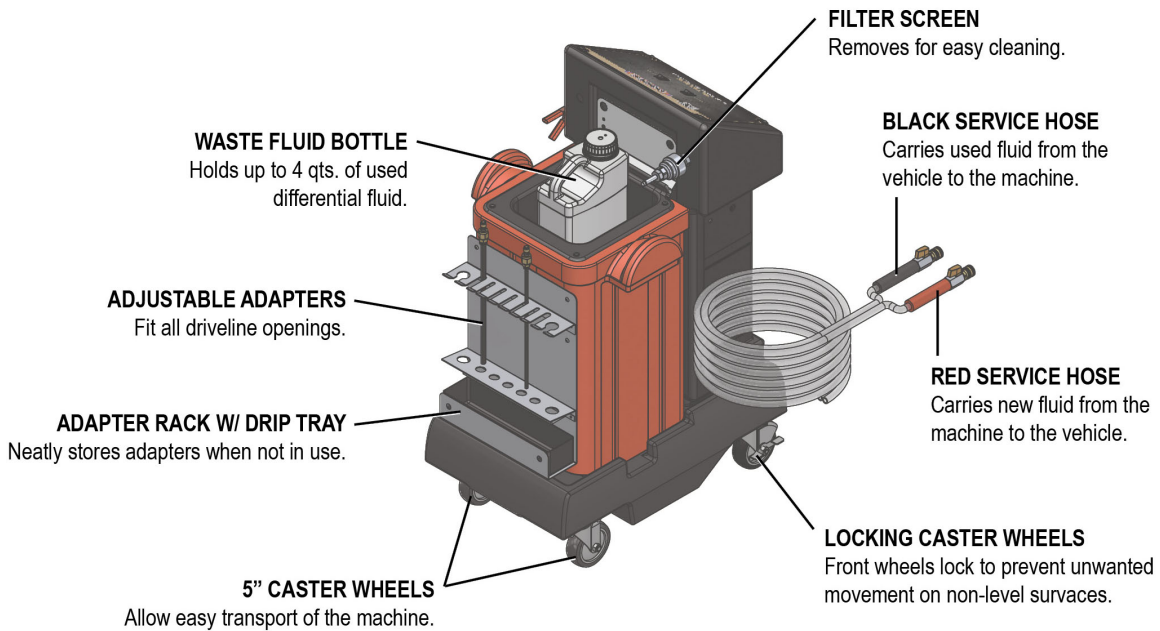
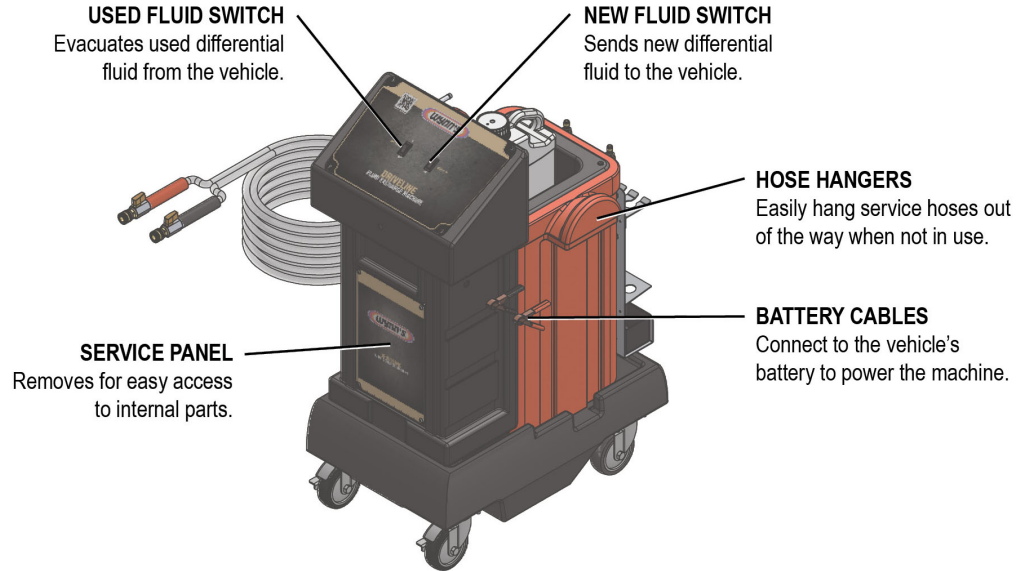
**Power:** 12V DC Power

## FEATURES

The Wynn's Driveline Fluid Exchange Machine provides an efficient removal and replacement of used gear oil from the driveline system. New gear oil fluid improves the life of the driveline and its' components, keeping the driveline running smoothly.

- ✓ Trouble-Free Service on Differentials, Manual Transmissions & Transfer Cases
- ✓ 2 Large 3.5 GPM Gear Pumps for Thicker, Heavier Fluids
- ✓ Includes 3 Specially Designed, Flexible & Adjustable Adapters for All Driveline Openings
- ✓ Convenient Adapter Storage
- ✓ Two-Button Operation
- ✓ 20' Power Cord for Service Performed on Lift or Over Pit
- ✓ Serviceable Magnetic Filter for Catching Metal Particles
- ✓ For Use with all Wynn's Driveline Products
- ✓ Convenient, Portable Roll-Around

# MACHINE OVERVIEW

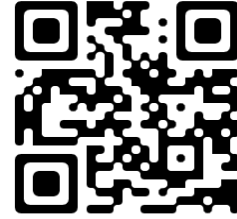


# OPERATING INSTRUCTIONS

## SAFETY RECOMMENDATIONS

Safety glasses and gloves should be worn during the service.

Use extreme caution when raising the vehicle on the lift.

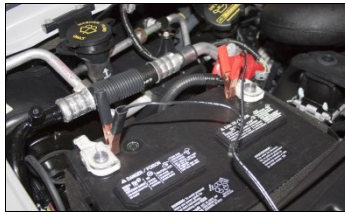


## PREPARATION

Attach to **NEW FLUID** cap / inlet tube the appropriate Wynn's Differential Fluid.

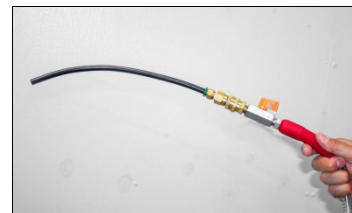
Connect battery cables to vehicle's battery.

Select appropriate adapter.



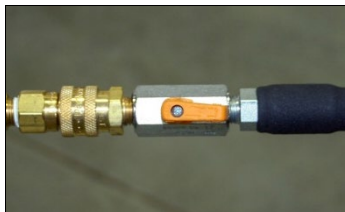
Attach the appropriate adapter to the **BLACK & RED** service hoses.

**NOTE:** Use larger suction wand whenever possible.



## DRAIN DIFFERENTIAL

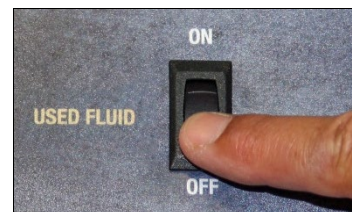
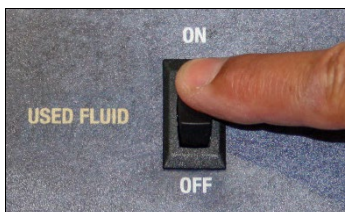
Open ball valve on **BLACK** service hose, and insert adapter into vehicle's differential fill hole.



Set the **USED FLUID** switch to the **ON** position to remove fluid from the vehicle's differential.

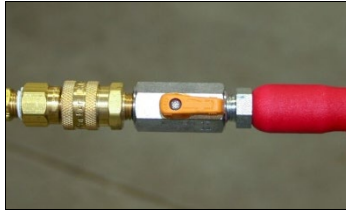
Set the switch **OFF** when finished.

**NOTE:** If vehicle has a drain plug, it can be removed to drain the system.



## FILL DIFFERENTIAL

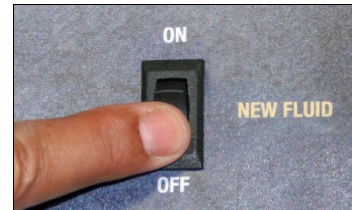
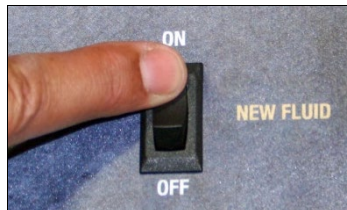
Open ball valve on **RED** service hose, and insert adapter into vehicle's differential fill hole.



Set the **NEW FLUID** switch to the **ON** position to add fluid to the vehicle's differential.

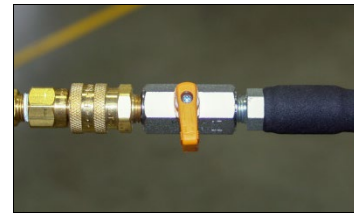
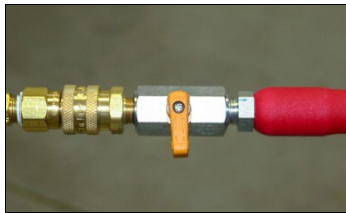
Set the switch **OFF** when finished.

**WARNING: Failure to turn NEW FLUID switch OFF before closing ball valve will cause blown fuse and or pump damage.**



## DISCONNECT

Close ball valves and remove adapters from service hoses.



Disconnect battery cables from vehicle's battery.

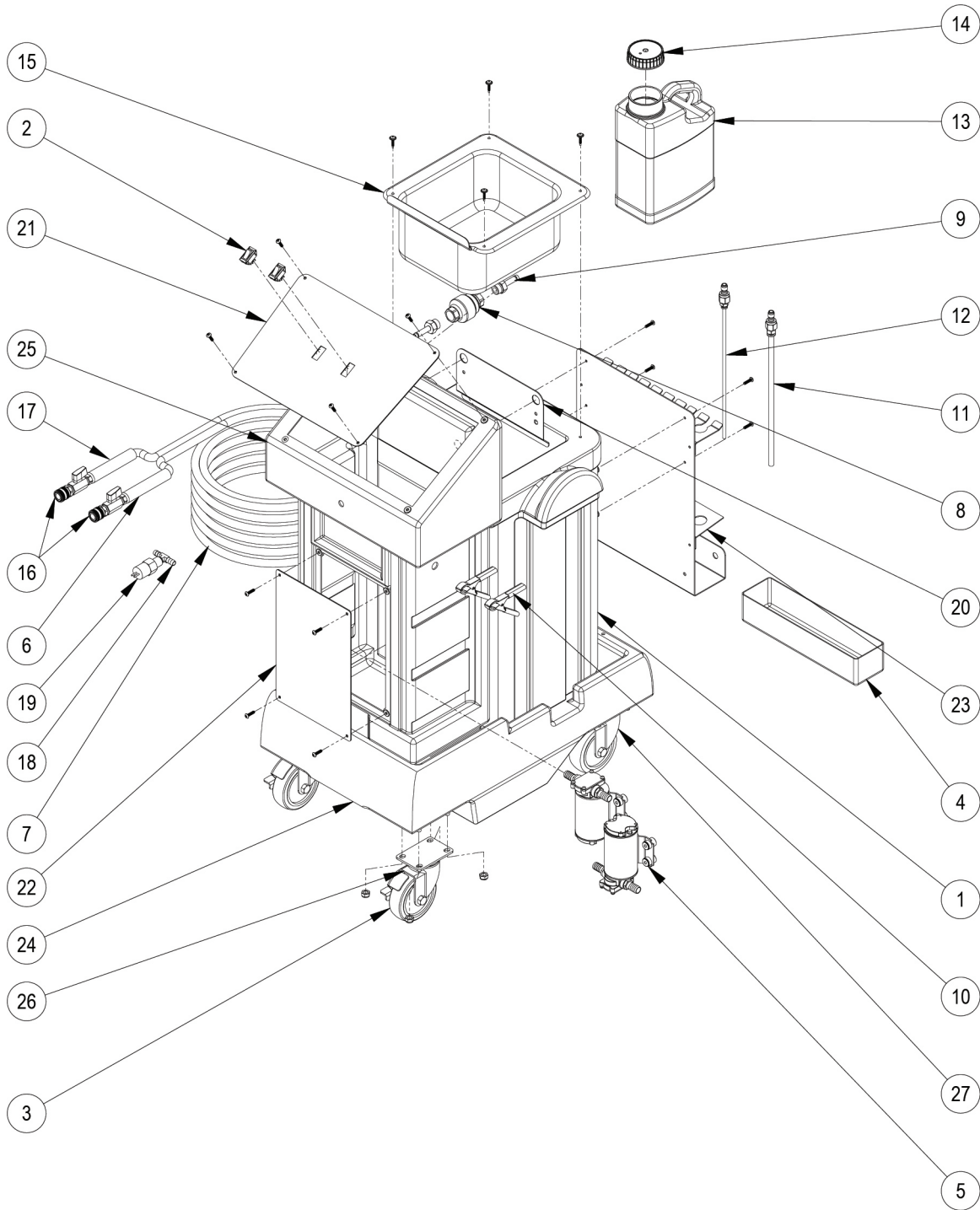


## MAINTENANCE

**Clean Magnetic Filter every 50 exchanges, or as needed:**

Remove magnetic filter and rinse with water.

# REPLACEMENT PARTS



ITEM NO.	PART NO.	DESCRIPTION	QTY
1	941252	REAR CABINET SUPPORT	1
2	941341	2WAY SWITCH	2
3	942137W	WHEEL ONLY 4" CASTERS	4
4	944003	DRIP PAN - PLASTIC	1
5	944022	PUMP - SMALL GEAR PUPPY	2
6	944063	BLACK SERVICE HOSE	1
7	944069	POLY SPRING HOSE-3/8ID PER FT	1
8	944096	MAGNOM MAGNETIC FILTER	1
9	944099	ADAPTER - SAE8 X 3/8 HOSE BARB	2
10	40100015	BATTERY CABLE ASSEMBLY	1
11	40100064	3/8 IN FLEXIBLE FILL OR REMOVE ADAPTER	1
12	40100066	1/4 IN FLEX SUCTION ADAPTER	1
13	40200438	1 GAL WASTE FLUID BOTTLE	1
14	40200439	CAP FOR 40200438 WASTE BOTTLE	1
15	40200440	2 GAL MOLDED TRAY	1
16	40200734	SIZE 1/4 SLEEVE LOCK SOCKET X 1/4 NPTF MALE COUPLER	2
17	40200735	RED SERVICE HOSE NEW STYLE	1
18	40200996	TEE FITTING 3/8 ID BARB X 3/8 ID BARB X 1/4 NPT MALE	1
19	40200997	PRESSURE SWITCH	1
20	40300260	PLATE - REAR CABINET	1
21	40300299	PANEL - OVERLAY ASSEMBLY	1
22	40300306	SERVICE PANEL - OVERLAY ASSEMBLY	1
23	P944018	HOSE RACK BLACK	1
24	R940750	CHASSIS - BLACK	1
25	R940751	CONSOLE - BLACK	1
26	R942118	CASTER 4" W/BRAKE	2
27	R942137	CASTER 4" SWIVEL	2

# Wynn's Equipment Limited Warranty Terms and Conditions

(1 Year on Equipment / 2 Years on Parts)

Seller warrants to its distributors that under normal use, care and service, the Equipment (except as otherwise provided herein) shall be free from defects in material and workmanship for One (1) year from the date of original invoice (unless a machine was put into inventory and later sold (such sale from inventor to occur no later than [six (6) months] after the date of original invoice), and a distributor can provide proof of sale and registered warranty card, then the one-year warranty will begin on the registration date) for all Equipment with an additional 12 months of coverage for **parts only**. External hoses, remote control modules, adapters and all other attachments, supplies and consumables (except as otherwise provided herein) are warranted for 90 calendar days from the date of original invoice. Filter elements are not warranted. Printed circuit boards purchased from Seller will be warrantable for a period of one (1) years from original purchase date, and any repair services for machines under warranty or to a purchased circuit board by an ITW employee or authorized representative shall be reimbursed.

**SELLER'S OBLIGATIONS UNDER THIS WARRANTY ARE LIMITED SOLELY TO THE REPAIR OR, AT SELLER'S OPTION, REPLACEMENT OF EQUIPMENT OR PARTS, AND LABOR COSTS ASSOCIATED WHICH TO SELLER'S SATISFACTION ARE DETERMINED TO BE DEFECTIVE AND WHICH ARE NECESSARY, IN SELLER'S JUDGEMENT, TO RETURN THE EQUIPMENT TO GOOD OPERATING CONDITION. NO OTHER WARRANTIES EXPRESS OR IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL APPLY AND ALL SUCH WARRANTIES ARE HEREBY EXPRESSLY DISCLAIMED.**

This warranty does not cover (and separate charges for parts, labor and related expenses shall apply to) any damage to, malfunctioning, inoperability or improper operation of the Equipment caused by, resulting from or attributable to (A) abuse, misuse or tampering; (B) alteration, modification or adjustment of the Equipment by anyone other than Seller's authorized representatives; (D) improper or negligent use, application, operation, care, cleaning, storage or handling; (E) fire, water, wind, lightning or other natural causes; (F) adverse environmental conditions, including, without limitation, excessive heat, moisture, corrosive elements, or dust or other air contaminants, radio frequency interference, electric power failure, power line voltages beyond those specified for the equipment, unusual physical, electrical or electromagnetic stress, and/or any other condition outside of Seller's environmental specifications; (G) use of the Equipment in combination or connection with other equipment, attachments, supplies or consumables not manufactured or supplied by Seller; or (H) failure to comply with any applicable federal, state or local regulation.

Repairs or replacements qualifying under this Warranty will be performed on regular business days during Seller's normal working hours within a similar timeframe and process as BUYER already has in place, to be accomplished by Wynn's/QMI distributors with the support and cooperation of the SELLER, or by SELLER or SELLER's subcontractors if that is acceptable to the BUYER following Purchaser's request or if agreed to between Seller and Buyer by Purchaser's/ ITW staff if necessary. All requests for Warranty service must be made during the stated Warranty period. **This warranty is non-transferable.**