



cps Automotive

FX134a SERIES REFRIGERANT RECOVER / RECYCLE / VACUUM AND RECHARGE UNIT

Covered under US Patent
8,082,750 and other
patents pending.

Certified by ITS under SAE
J2911 to meet SAE J2788
for R-134a.

Certified by ITS under SAE
J2911 to meet high voltage
compressor service per SAE
J2788 R-134a.



OPERATION MANUAL

Models: FX134a

Unit Consists Of:

- FX134a Automotive Refrigerant Management Center
- Low and High side service hoses R-134a
- Low and High side R134a Service Couplings
- Tank Refill Adapter-Fits High side female for R-134a tank thread
- R-134a fittings for hose storage and oil flush block
- 41 cubic Inch CPS filter drier (Replacement part number FX3030X1)
- Vent Temperature Probe
- 1 lb (454 gram) check weight
- SD Card with A/C Database
- Operation manual
- 1 Roll 2.25" x 50" Thermal Paper

End user to provide:

- Refrigerant oil and/or dye for injection system
- Refrigerant

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Specifications

	FX134a Specifications
Power	115vac. 60Hz, 15a; 10' 12 gauge power cord
Compressor	2/3 HP Twin Cylinder Oil-less
Vacuum Pump	6 CFM, single stage
Gauges	3.5" Low side, 30 in/Hg to 250 psi; High Side, 0 to 600 psi
Hoses	120" barrier type
Refrigerant	R134a
Storage Tank	50 lb DOT with processor controlled heat band
Display	7" Touch Screen with 256 color graphical display
Printer	22mm heat transfer graphical
Construction	Sheet metal frame adorned by injection and rotary molded plastic. Two handle bars, 4" front casters and 10" foam-filled rear tires for exceptional maneuverability

INTRODUCTION

The CPS FX Series Refrigerant Management Centers are designed to revolutionize A/C equipment ease and endurance. From the seven inch 256 color touch screen display, to the patented and patent-pending oil-less compressor and motorized ball valves, we are confident the FX Series equipment will quickly impress you with its ease of use and superior functionality.

There are many features built into the FX Series equipment. Below are the most noteworthy:

- **A/C System Capacities Database**—provides refrigerant/oil type and capacities for most vehicles sold in North America since 1994.
- **Multiple Language Support**—the FX series comes standard in English. Other languages will be made available and easily installed via an SD card.
- **Heated tank**—to help reduce the times the vehicle AC system must be started in order to complete charging, we have added a tank heating blanket to every FX machine.
- **Care and Maintenance**—the FX Series designers made ease of maintenance a priority. The vacuum pump oil drain and fill ports are accessible from the outside — no disassembly is required. The refrigerant filter is located on top of the tank and machines Graphical User Interface walks you through the filter replacement process.

CPS is pleased to bring to the automotive technician the many innovations commercial HAVC/R technicians have enjoyed for years. We hope you will enjoy using your new FX Series Refrigerant Management Center.

GENERAL SAFETY

Only qualified service personnel should operate this unit. Most governmental entities require that the user to be licensed in order to operate this equipment. Please check with your local government authorities.

DANGER – This unit is designed to only work with R134A refrigerant. Use with other refrigerants may cause death, destruction and tidal waves.

DANGER - This unit's recovery tanks contain liquid refrigerant. Overfilling a recovery tank may cause a violent explosion resulting in severe injury or even death. Do not disable the overfill safety features. Always make sure the correct tank is on the scale.

DANGER - Only use CPS recovery tanks designed for this unit. See your distributor for replacement CPS tanks.

DANGER - Avoid breathing refrigerant vapors and lubricant vapor or mist. Breathing high concentration levels may cause heart arrhythmia, loss of consciousness or even suffocation. Exposure may irritate eyes, nose, throat, and skin. Please read the manufacturers Material Safety Data Sheet for further safety information on refrigerants and lubricants.

DANGER - Electrical shock hazard!!!! Always disconnect power source when servicing this equipment.

DANGER - DO NOT USE COMPRESSED AIR TO PRESSURE TEST OR LEAK TEST THE UNIT OR THE VEHICLE AIR CONDITIONING SYSTEM.

DANGER - Mixtures of air and refrigerant are combustible at elevated pressures. These mixtures are potentially dangerous and may result in fire or explosion causing personal injury or property damage.

CAUTION - all hoses may contain liquid refrigerant under pressure. Contact with refrigerant may cause frostbite or other related injuries. Wear proper personal protective equipment such as safety goggles and gloves. When disconnecting any hose, please use extreme caution.

CAUTION - do not use this equipment in the vicinity of spilled or open containers of gasoline or other flammable substances. Make certain that all safety devices are functioning properly before operating the equipment.

Cord Gauge (awg)Cord Length (Ft)

CAUTION - to reduce the risk of fire, avoid the use of extension cords thinner than NO. 16 awg. (1,5mm²). The following table references extension cord wire size vs. maximum length:




























Cord Gauge (awg)	Cord Length (Ft)
16	10
14	20
12	25




























CAUTION - This equipment should only be used in locations with mechanical ventilation that provides as least 4 air changes per hour.

CAUTION - RISK OF INJURY, the equipment should only be operated by certified personnel.

CAUTION - Use only CPS certified hose assemblies on this unit. The hose assemblies are made to proper length, contain shut offs where required and have direct effect on the proper operation of this equipment

ICON LIBRARY

ICON NAME	DESCRIPTION	IMAGE
AIR PURGE	Tap to select AIR PURGE	
AIR PURGE	The AIR PURGE icon indicates that the unit is purging air from the tank	
AMERICAN	Tap to select AMERICAN Units	
BAR	Tap to select BAR	
BOTH COUPLERS	Tap to select BOTH couplers	
° C	Tap to select CELSIUS	
CALIBRATION	Tap to select CALIBRATION	
CHANGE TANK	The CHANGE TANK icon notifies the user to change the tank	
CHANGE UOM	Tap to change the unit of measurement	
CHARGE	Tap to perform a CHARGE service	
CHARGE COMPLETE	Indicates that the CHARGE service is COMPLETE	
Charge Low Side	Press to select Low Side Charging	
CHECK SCALE COMPLETE	The SCALE CHECK COMPLETE notifies users that a scale check is complete	
Close Ball vale	Press to close ball valve	
CLOSE COUPLER	The CLOSE COUPLER icon notifies the user to close the coupler during a recharge service	
CLOSE HP	Notifies the user to CLOSE HP valve during a CHARGE service	
CLOSEVALVE	Notifies user to CLOSE VALVE	
COMPLETE	Indicates that a given operation is COMPLETE	
CONNECT HP	Notifies user to connect HP port during tank refill	
CPS FILTER	CPS FILTER	
DATABASE	Tap to access the vehicle DATABASE	
DISCONNECT COUPLERS	Notifies the user to DISCONNECT COUPLERS	
DRAIN OIL	The DRAIN OIL icon notifies the user that oil is draining from the vehicle	
ERROR	Displays when there is an ERROR	
° F	Tap to select FARENHEIGHT	
FAILED	Indicates that a given operation FAILED	
FILTER	Displays the current status of the filter life.	

ICON NAME	DESCRIPTION	IMAGE
FILTER CHANGE	Displays when a filter change is required	
FILTER CHANGE	Tap to CHANGE FILTER	
FILTER CHANGE	Tap to CHANGE FILTER	
FULL CYCLE COMPLETE	Indicates that the FULL CYCLE service is COMPLETE	
GRAMS	Tap to select GRAMS as UOM	
HELP	Tap to launch the HELP Menu	
HELP	Provides Firmware version	
HIGH COUPLER	Tap to select the HIGH SIDE coupler only	
HOME	Tap to launch the HOME screen	
INJECTION	Notifies the user to INJECT oil and/or dye at this point in the service	
INTERNATIONAL	TAP to select INTERNATIONAL UOM's	
KGCM2	Tap to select KGCM2	
KGS	Tap to select KGS as UOM	
KPA	Tap to select KPA	
LANGUAGE	Tap to select LANGUAGE	
LBS	Tap to select LBS as UOM	
LBS:OZ	Tap to select LBS:OZ as UOM	
LEAKCHECK	Indicates that a LEAK CHECK is being performed	
LOW COUPLER	Tap to select the LOW SIDE coupler only	
MAINTENANCE	Tap to launch the MAINTENANCE menu	
MAINTENANCE FILTER CHANGE	Tap to CHANGE FILTER	
MANIFOLD	Tap to launch the MANIFOLD function	
METRIC	Tap to select METRIC UOM's	
MPA	Tap to select MPA	
NOT NOW	Tap to postpone suggested operation	
Open Ball Valve	Press to Open Ball Valve	
OZ	Tap to select OZ as UOM	

ICON LIBRARY

ICON NAME	DESCRIPTION	IMAGE
PLACE WEIGHT	Notifies user to PLACE WEIGHT on the scale	
PRINT	Tap to PRINT a report of the service	
PSIG	Tap to select PSIG	
PT	Tap to select PRESSURE TRANSDUCER	
PURITY	PURITY	
QUIT	Tap to quit the current function	
R1234yf	Tap to select R1234yf Refrigerant	
R134a	Tap to select R134a Refrigerant	
R22	Tap to select R22 Refrigerant	
R407	Tap to select R407 Refrigerant	
RECOVERY	Tap to perform an RECOVERY service	
RECOVERY COMPLETE	Indicates that the RECOVERY service is COMPLETE	
REFRIGERANT	REFRIGERANT	
REFRIGERANT CHANGE	Tap to CHANGE REFRIGERANT	
REGISTER	Tap to REGISTER unit	
RELAY	Tap to select RELAY	
REMOVE WEIGHT	Notifies user to REMOVE WEIGHT from scale	
SAE	Tap to select SAE	
SAE CHARGE	Tap to perform a SAE CHARGE service	
SAE CHARGE COMPLETE	Indicates that the SAE CHARGE service is COMPLETE	
SCALE	Tap for SCALE functions	
SCALE CHECK	Tap to perform SCALE CHECK	
SCALE CHECK	The SCALE CHECK icon notifies users that a scale check is in progress	
FULL CALIBRATION	Tap to perform full calibration	
SCALE ZERO	Tap to RE-ZERO the scale	
SERVICE	Tap to select SERVICE	
SERVICE HOSES BEING FLUSHED	Indicates that the SERVICES HOSES are BEING FLUSHED	

ICON NAME	DESCRIPTION	IMAGE
SET TIME	Tap to SET TIME	
SETTINGS	Tap to launch the SETTINGS screen	
SETUP	Tap to launch the SEUP menu	
SPEAKER	Tap to enable sound	
START AC	Notifies user to start vehicle and turn on AC during service	
TANK	Indicates the level of refrigerant in the TANK	
TANK FULL	Notifies user that TANK is FULL	
TANK HOSE		
TANK REFILL	Tap to perform a TANK REFILL	
Tank Tare Setup	Press to change tank weight and WC	
TANKS REFILL COMPLETE	Indicates that the TANK REFILL is COMPLETE	
TARE	Tap to select TARE	
TURN UPSIDE DOWN	Notifies user to TURN TANK UPSIDE DOWN during tank refill	
UNIT	Tap to select UOM	
UPDATE	Tap to UPDATE	
UPGRADE	Tap to select UPGRADE	
UPKEEP	Tap to launch the UPKEEP menu	
VACUUM	Tap to perform a VACUUM service	
VACUUM COMPLETE	Indicates that the VACUUM service is COMPLETE	
VOLUME	Tap to Choose VOLUME UOM	
WARNING	The WARNING icon appears to caution users of a potential hazard	
WEIGHT	Tap to Choose WEIGHT UOM	
ZERO	Tap to RE-ZERO the pressure transducer	
ZEROING	Indicates that the unit is ZEROING	

FIRST TIME START UP

1. Remove the black tank cover on the back of the unit by unscrewing the two thumb screws located on each side of the cover. Remove the protective packaging from between the storage tank and the scale. See Figure A below.



Figure A: Shipping support to be removed before start up.

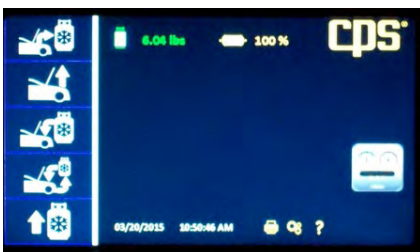
2. Plug the unit into the proper power source. Push the blue lighted power switch. All functions will be operated directly from the 7" Touch Screen.
3. Connect service hoses to the machine.
4. Install oil purge bottle

Registration: To register your machine for warranty, please visit:

<http://motorvac.com/FXRegister>

5. Press the key to enter your shop information into your unit. This information will appear on certain screens and on print outs. Pressing will cause the unit to proceed with set up without personalizing your unit. Selecting will cause the unit to ask you later if you want personalize your FX134a.
6. When personalization has been completed, press OK and the unit will proceed through self-calibration. When complete, the Home screen will appear.
7. Select the Gear icon to enter mode to change the default language, Date/Time and units of measure. The FX134A will allow you to modify the weight unit of measure prior to entering the charge amount. This feature anticipates that the vehicle may be asking for a unit of measure that is not your selected default.
8. Fill the internal storage tank. From the Home screen, select Connect the red high side hose to a virgin, or recycled refrigerant tank using the supplied tank adapter. Refrigerant will be moved from the external tank to the internal tank in a liquid state. Therefore, a virgin tank may be turned upside down, or if filling from a recycled tank, the hose may be connected to the "liquid" port. Follow the directions on the FX display.

Congratulations, your FX Series Refrigerant Management Center is ready to use.



Note: Each time the machine is turned on it MUST be disconnected from a vehicle

THEORY OF OPERATION


FX Series Refrigerant Management Centers feature a touch screen Graphical User Interface (GUI) that makes operations intuitive. In this section, we will cover each operation's objective. The screen provides the specific information and directions during operation, so the descriptions below are limited to operation theory.



Recovery

Select "Recovery" if you want to recover and recycle refrigerant currently in the vehicle prior to opening the system for repair.


The recovery process creates a vacuum on the vehicle system, pulling the refrigerant into a distillation chamber. The chamber has a coil inside that is heated by compressor outlet gas. This process "distills" the refrigerant (turns it to gas) and separates liquids and debris from the refrigerant. The refrigerant passes through a coalescing filter and compressor and is condensed into a liquid before coming to rest in the internal storage tank.

The process ends when the machine detects that the system is void of refrigerant. The machine will display the amount recovered throughout the process and at the end. The ending amount may be printed by pressing the  icon visible on the Home screen after recovery is completed.




Vacuum

Select "Vacuum" if the vehicle system is void of refrigerant and is ready to be recharged. Vacuuming the vehicle utilizes the FX Series' 6 CFM vacuum pump to pull air and boil moisture from the AC system. A specific vacuum time may be selected by entering the time (in minutes) on the displayed key pad. If a vacuum time of 10 minutes or greater is selected, vacuuming will be followed by a 2 minute leak test (vacuum decay test).


If pressure equal to or greater than 5 psi is observed, the vacuum pump will not start and you will be advised to perform the recovery function prior to attempting vacuuming. Results may be printed by pressing the  icon on the Home Screen.



Charge

Select "Charge" to refill the vehicle system to its designed capacity. Enter the desired charge amount using the displayed keypad. Units other than that selected at start-up may be selected using the "units" key. If the required charge amount is not visible on the vehicle or if the J639 tag is missing from the vehicle, the FX series offers a database feature that allows the user to look up the correct charge for most vehicles sold in North America since 1994. Press the  key to access this feature.

The FX134a will charge in the liquid phase through the filter/dryer into the hoses until the desired charge amount is reached. The unit will then ask if you want to enter the Car Health mode. Do so if you want to check/print system pressures and vent temperature. If you choose no to Car Health, the machine will guide you through the process to move the refrigerant contained in the hoses into the vehicle's AC system.

The FX134A is equipped with a heat blanket but if it cannot complete the charge due to pressure equalization, it will notify the user to close the high side coupler and start the vehicle. This process will quickly complete the charge sequence. Results may be printed by pressing the  icon on the Home Screen.

THEORY OF OPERATION



Full Cycle

Select “Full Cycle” to recover, recycle, vacuum, leak check (if desired) and charge the vehicle AC system. The display will prompt you to enter a vacuum time and a vehicle charge amount. As described in the “Charge” sequence, the database may be used to retrieve the charge amount for most vehicles sold in North America.

Once Full Cycle has been selected and started, the machine will proceed with the recovery process described above. At the end of recovery, the unit will automatically proceed to vacuuming and leak test (if the vacuum time selected was greater than 10 minutes.) Once vacuuming is complete, the desired charge amount will be installed in the vehicle. The unit will then ask if you want to enter the Car Health mode. Do so if you want to check/print system pressures and vent temperature. If you choose no to Car Health, the machine will guide you through the process to move the refrigerant contained in the hoses into the vehicle’s AC system.

The user may print the results by pressing  on the “Home” screen.



Tank Refill

Select “Tank Refill” to add refrigerant to the internal storage tank. It is suggested that at least 4.5 lbs or 2 kg of refrigerant be available in the storage tank prior to beginning any operation. If the tank contains less than this amount, choose this operation to add refrigerant to the internal tank. This operation transfers refrigerant in the liquid state to the internal storage tank. The Refrigerant amount transferred in this mode is not counted toward the filter life.

Start by connecting the red hose to the liquid port on the supply cylinder using the supplied adapter. For virgin cylinders with one port, turn the tank upside down once connected and open the tank valve and coupler.

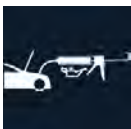
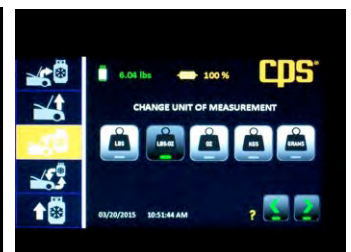
Follow the directions on the display until the process is completed.

OTHER FUNCTIONS



Change Units

This function will be displayed when setting the charge amount. It allows you to change from the default unit of measure to that on the J639 tag on the vehicle. For instance, if the machine default was set to lbs:oz and the vehicle tag provides refrigerant capacity in grams use this feature to change the unit of measure to grams for this charge only.





Add Oil

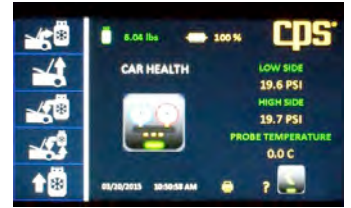
This icon appears the end of the charge operation and is a reminder to add back the amount of oil that was removed during recovery. If you had entered the amount of oil after charging, that amount will also appear with the icon. If not, check the oil discharge bottle to determine the change in volume since the last recovery. Add this amount back to the system.

OTHER FUNCTIONS






Car System Health Mode

This mode allows for checking of system pressures and vent temperature before and after servicing the AC system. System parameters can be printed while in this mode to provide a before and after comparison. When entering the Car Health mode, the machine will prompt you to start the AC system. You can then collect and print readings. If you plan to recover next, press the  button. You will be taken to the Home screen. If all is well, press  and the machine will guide you through clearing the hoses of refrigerant back into the AC system.



Change Unit of Measure or Language



Press the maintenance icon and select . This will take you to a screen to allow you to select either  or .



Air Purge

The FX series features automatic air purge at unit start up. An air purge may also be selected in the maintenance mode. Air purges reduce “non-condensable gases” in the storage tank to an acceptable level and may take a few minutes to complete. Do not turn the machine off or unplug the unit during an Air Purge cycle.

Loading new Firmware

From time to time firmware updates will become available. Should you need to install updated firmware; files will be sent to you to place onto a USB stick. Go to the  mode and select . After selecting, the machine will guide you through the process, including telling you when to insert the USB stick into the USB port. When complete, the machine will reset. When the Home screen appears, it is complete.

MAINTENANCE AND CARE



Filter Changes



The filter/dryer has the capacity to dry 150lbs of recovered refrigerant. A filter life monitor is displayed on the Home screen. When indicated the filter must be changed.

To change the filter:


1. Remove the black plastic tank cover. Have the filter reset code available before proceeding. It comes with each new filter.
2. On the display Press the  key and select . Then select .
3. Follow the displayed directions. Replace the black tank cover when completed.



Scale Maintenance

Use this mode to check, tare or calibrate the internal tank scale. To access “Scale Maintenance”, press the  icon, then select . Select the desired function and follow the on screen instructions. To perform the “Test” mode, you will need to remove the black plastic tank cover and then use the 1lb test weight included with the system. The Test mode will alert the user to the need to re-calibrate the scale.


A  requires lifting the tank while operating the display. It is best to have two people available for  and .

Use  to reset the empty tank weight to zero, thereby enabling indication of the refrigerant weight. Calibration is suggested only if the calibration test was off by more than .02lbs. Calibration may be performed by a service center. CPS technical support can also assist with the process. Calibration requires a certified 25lb weight.



Pressure Transducer Maintenance

Use this mode if you suspect that the internal pressure transducer readings are inaccurate. The internal pressure transducers are used during recovery, vacuum, air purge and in the manifold mode.

To enter this mode, press the maintenance icon. Then select PT. This will allow the transducer  to be set, or calibrated. Calibration will require a certified pressure source of 180 psig. Setting zero requires removal of the system hoses.

Follow the displayed direction for the select transducer maintenance function.



High Pressure Alert

The FX134a will alert the user should a high pressure condition exist on the outlet side of the compressor. When such a condition is detected, the compressor will be turned off and not allowed to restart until the high pressure condition is remedied. In such case, check that the tank valves and hose ball valves to the tank and filter are all open. If all valves are open, then contact technical support to determine the cause of the alarm.



Tank Overfill Limit



The FX Series' 50lb internal storage tank is designed to contain a maximum of 38lbs of refrigerant. If this amount is exceeded, the user will be alerted and system operations will be halted. Before normal operation can continue, the overfill condition must be remedied by moving refrigerant from the FX tank to another storage tank or into a vehicle AC system. The charge function may be used to transfer internally stored refrigerant to an external storage facility.

MAINTENANCE AND CARE

Service Mode

This mode should only be entered with direction by technical support or by an authorized service center. This mode enables the testing of each device controlled by the FX Series' computer. These devices include the ball valves, vacuum pump, compressor and pressure transducers. This mode can be located in the "Maintenance Mode"

Field Software Update

Updates to the system software will require use of this mode. Found in the "Maintenance Mode", an update password and the new software file installed on a USB drive will be required. Insert the USB stick with the new software update file into the USB port on the back of the control panel. Go to the  and select  Follow the displayed directions. Be sure power remains on during this operation.

Display Calibration

Under certain conditions the touch screen may lose its calibration (i.e., touches on the screen don't result in the desired result). If pressing a function on the screen does not actuate the function, or engages an adjacent function, the screen needs to be calibrated. To do so, turn the machine's power off. Then while pressing and holding any spot on the touch screen turn the power back on. A screen set up menu will be displayed. Select screen calibration and follow the on-screen directions.

PARTS LIST AND WARRANTY

Common Part List

Part Number	Description
FX3030X1	FX Series Maintenance Kit—Filter, Vacuum Pump oil and Coupler O-rings
Buy locally	Printer Paper—2.25" x 50' Thermal Sensitive Paper
QCL123	Low Side R134a Coupler
QCH134	High Side R134a Coupler
AR2788X14B	¼ SAE/High Side R134a tank refill adapter
AR2788X14A	½ AMCE/High Side R134a tank refill adapter
CRX400T	50lb Recovery Tank
481500	Oil Injection Kit
AR27XH115	Heater Blanket
RIXF	Refrigerant Identifier Filter
LDA1000H	Electronic Leak Detector for all Refrigerants

WARRANTY & REPAIR POLICY

CPS warrants the FX Series Refrigerant Management Centers are free of manufacturing defects. If a component should fail due to manufacturing defect during the first year in service, it will be repaired or replaced (at our option) at no charge. During the second year, parts failures caused by defect are covered under warranty. CPS will replace any failed part at no charge. Some failed parts must be returned to CPS. Labor time and mileage are not covered during the second year in service. CPS will cover the compressor for five full years of service, limited to the cost of the compressor only. Failed compressors will require return to CPS.

This guarantee does not apply to components that have been altered, misused, or returned solely in need of field service maintenance. The repair policy does not include components that are determined to be beyond economical repair. A component or product being presented for warranty repair must be accompanied by an original bill of sale and customer contact information.

A/C DATABASE END-USER LICENSE AGREEMENT

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A/C DATABASE END-USER LICENSE AGREEMENT

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- (b) This Agreement shall be governed by the laws of the State of New York without giving effect to any principles of conflicts of law. The United Nations Convention on Contracts for the International Sale of Goods shall not apply. You hereby irrevocably and unconditionally submit to the exclusive jurisdiction of any state or federal court sitting in New York, New York over any suit, action or proceeding arising out of or relating to this Agreement; provided that the foregoing shall not restrict Licensor or its agents from filing suits, actions or proceedings arising out of Host's failure to pay in any jurisdiction of Licensor or its agent's choice.
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- (e) This Agreement may only be amended, modified, suspended or canceled by a writing signed by MOTOR.
- (f) This Agreement may be assigned by MOTOR, but may not be assigned by You.

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