

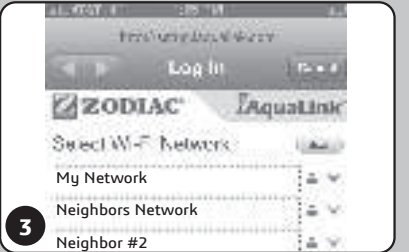
Helpful Hints Astuces Utiles Consejos prácticos



What the LEDs mean
Red = Power
Yellow - Slow Flashing = Searching for Network
Yellow - Solid = Connected to Network
LEDs may flicker—this is normal
Green - Solid = Connected to Internet

Que signifient les LED
Rouge = Alimentation
Jaune - Clignotement Lent = Recherche de Réseau
Jaune - Fixe = Connecté au Réseau
Les LED peuvent clignoter — c'est normal
Vert - Fixe = Connecté à Internet

Lo que significan los LED
Rojo = Energía
Amarillo - Parpadeo lento = Buscando la red
Amarillo - Sólido = Conectado a la red
Los LEDs pueden parpadear, esto es normal.
Verde - Sólido = Conectado a Internet



Evaluating Wi-Fi signal strength
Signal strength depends on your router and the mounting location of the iQ30 web-connect device. Use the Hotspot method to evaluate (See Section 3.1). If you move the router closer and signal still not strong, consider installing a Wi-Fi range extender, Wi-Fi repeater, or another type of router. You may also install an app on your smart phone (e.g., Wi-Fi Analyzer or Wi-Fi SweetSpots) to check your signal strength and bandwidth.

Évaluation de la puissance du signal Wi-Fi
La puissance du signal dépend de votre routeur et de l'emplacement de montage de l'appareil iQ30 web-connect Utilisez la méthode du point d'accès pour évaluer (voir la section 3.1). Si vous rapprochez le routeur et que le signal n'est toujours pas fort, envisagez d'installer un prolongateur de portée Wi-Fi, un répéteur Wi-Fi ou un autre type de routeur. Vous pouvez également installer une application sur votre téléphone intelligent (par exemple, Wi-Fi Analyzer ou Wi-Fi SweetSpots) pour vérifier la puissance de votre signal et la bande passante.

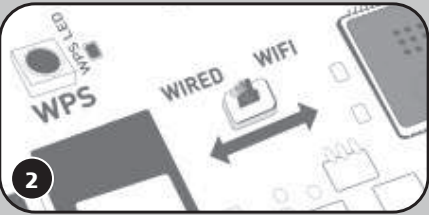
Evaluando la intensidad de la señal de Wi-Fi
La intensidad de la señal depende de tu enrutador y de la ubicación de montaje del iQ30 dispositivo de conexión a la web. Utilizar el método de Punto de Acceso (Hotspot) para evaluar (Ver Sección 3.1). En caso de que mueva el router más cerca y la señal siga sin ser fuerte, considere la posibilidad de instalar un extensor de alcance de Wi-Fi, un repetidor de Wi-Fi u otro tipo de router. Además, puede instalar una aplicación en su teléfono inteligente (por ejemplo, el Analizador de Wi-Fi o Wi-Fi SweetSpots) para comprobar la intensidad de la señal y el ancho de banda.



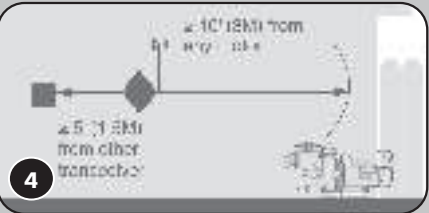
When and how to use a 6584 multiplex board
A maximum of two (2) RS485 cables can be connected per RS485 connector. To connect additional RS485 devices, a Multiplex Board may be required.

Comment utiliser une carte multiplex 6584
Un maximum de deux (2) câbles RS485 peuvent être connectés par connecteur RS485. Pour connecter des dispositifs RS485 supplémentaires, une carte multiplex peut être nécessaire.

Cuándo y cómo usar una placa multiplexora
Se puede conectar un máximo de dos (2) cables RS485 por cada conector RS485. Para conectar dispositivos RS485 adicionales, puede ser necesaria un tablero multiplexor.



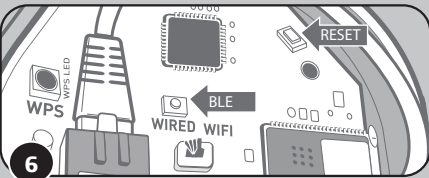
Restarting Wi-Fi setup mode
The iQ30 will start Wi-Fi setup mode when the WIRED / Wi-Fi switch is set to Wi-Fi and its memory has been cleared. To clear the memory, toggle the switch and leave it in the Wi-Fi position.
Redémarrage du mode de configuration Wi-Fi
Le iQ30 démarra le mode de configuration Wi-Fi lorsque le commutateur WIRED / Wi-Fi est positionné sur Wi-Fi et que sa mémoire a été effacée. Pour effacer la mémoire, basculez le commutateur et laissez-le en position Wi-Fi.
Reinício del modo de configuración de Wi-Fi
El iQ30 comenzará el modo de configuración de Wi-Fi cuando el interruptor WIRED / Wi-Fi esté configurado en Wi-Fi y su memoria se haya borrado. Para borrar la memoria, cambia el interruptor y déjalo en la posición de Wi-Fi.



For best reception (Wi-Fi installs only)
A. Always install the iQ30 web-connect device with the antenna on the right side, toward the sky and within arms reach.
B. Install at least 10' (3m) from any high voltage electric motors and 5' (1.5m) away from other transceivers.
C. Install as close to the home network router as possible.

Pour une meilleure réception (installations Wi-Fi)
A. Installez toujours l'appareil iQ30 web-connect avec l'antenne sur le côté droit, vers le ciel et à portée de bras.
B. Installez-le au moins à 10 pi (3 m) de tout moteur électrique haute tension et à 5 pi (1,5 m) des autres émetteurs-récepteurs.
C. Installez-le le plus près possible du routeur du réseau domestique.

Para una mejor cobertura (instalaciones de Wi-Fi)
A. Siempre instala el iQ30 dispositivo de conexión a la web con la antena a la derecha, hacia el cielo y al alcance de la mano.
B. Instale al menos a 3 metros (10') de cualquier motor eléctrico de alto voltaje y a 1.5 metros (5') de otros transmisores.
C. Instale lo más cerca posible del enrutador de la red local.



Reset Button
Pressing the reset button located at the top right of the iQ30 at location SW1 causes the iQ30 to power cycle. It does not clear any memory configuration.

Bouton de Réinitialisation
Le fait d'appuyer sur le bouton de réinitialisation situé en haut à droite de l'iQ30 à l'emplacement SW1 provoque le redémarrage de l'iQ30. Il n'efface aucune configuration de mémoire.

Botón de Reinicio
Al presionar el botón de reinicio ubicado en la parte superior derecha del iQ30 en la ubicación SW1, el iQ30 se apaga y reinicia. No borra ninguna configuración de memoria.

BLE Button
Located in the middle of the board above the WiFi / Wired toggle switch is the BLE button that when pressed puts the unit into pairing mode.
Some Jandy applications use this mode for connection.
Normal iQ30 operation does not require the use of BLE and the button is typically not used.
Refer to the specific instructions of the Jandy application which uses Bluetooth for more information.

Bouton BLE
Situé au milieu de la carte au-dessus de l'interrupteur à bascule WiFi / Câblé se trouve le bouton BLE qui, lorsqu'il est enfoncé, met l'appareil en mode d'appariage.
Certaines applications Jandy utilisent ce mode pour la connexion.
Le fonctionnement normal de l'iQ30 ne nécessite pas l'utilisation de BLE et le bouton n'est généralement pas utilisé.
Reportez-vous aux instructions spécifiques de l'application Jandy qui utilise Bluetooth pour plus d'informations.

Botón BLE
Ubicado en el medio de la placa, encima del interruptor de palanca WiFi / Cableado, se encuentra el botón BLE que, cuando se presiona, pone la unidad en modo de emparejamiento.
Algunas aplicaciones de Jandy utilizan este modo de conexión.
El funcionamiento normal del iQ30 no requiere el uso del BLE y, por lo general, el botón no se usa.
Consulte las instrucciones específicas de la aplicación Jandy que utiliza Bluetooth para obtener más información.



This Quick Start Guide is to help you quickly install your system. Be sure to read all WARNINGS in the complete installation manual.

Ce guide de démarrage rapide est destiné à vous aider à installer rapidement votre système. Assurez-vous de lire tous les AVERTISSEMENTS dans le manuel d'installation complète.

Este manual de inicio rápido es para ayudarlo a instalar de forma rápida su sistema. No olvide leer todas las ADVERTENCIAS en el manual completo de instalación.

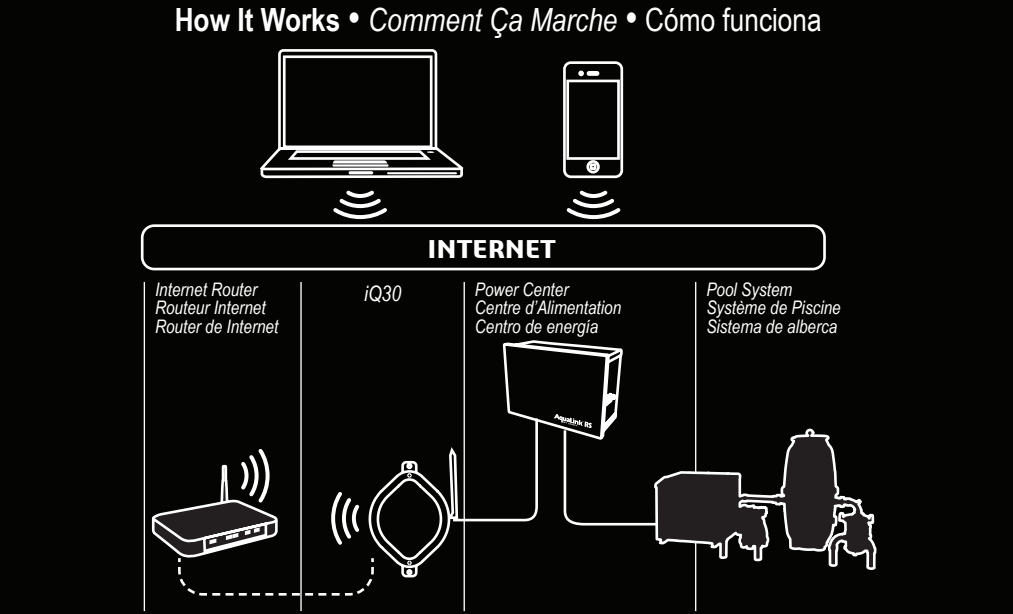
FOR YOUR SAFETY This product must be installed and serviced by a contractor who is licensed and qualified in pool equipment by the jurisdiction in which the product will be installed where such state or local requirements exist, the maintainer must be a professional with sufficient experience in pool equipment installation and maintenance so that all of the instructions in this manual can be followed exactly. Before installing this product, read and follow all warning notices and instructions that accompany this product. Failure to follow warning notices and instructions may result in property damage, personal injury, or death. Improper installation and/or operation will void the warranty. Improper installation and/or operation can create unwanted electrical hazard which can cause serious injury, property damage, or death. Turn off power at the main circuit feeding the AquaLink power center to disconnect the power center from the system.

POUR VOTRE SÉCURITÉ Ce produit doit être installé et entretenu par un professionnel agréé et qualifié en équipement de piscine par la juridiction dans laquelle le produit sera installé là où de telles exigences nationales ou locales existent, l'agent d'entretien doit être un professionnel ayant une expérience suffisante en installation d'équipement de piscine et maintenance afin que toutes les instructions de ce manuel puissent être suivies à la lettre. Avant d'installer ce produit, lisez et suivez tous les avertissements et instructions qui accompagnent ce produit. Le non-respect des avertissements et des instructions peut entraîner des dommages matériels, des blessures corporelles ou la mort. Une installation et/ou une manipulation incorrecte annulera la garantie. Une installation et/ou une manipulation incorrecte peut créer un risque électrique indésirable pouvant entraîner des blessures graves, des dommages matériels ou la mort. Coupez l'alimentation au circuit principal alimentant le centre d'alimentation d'AquaLink pour déconnecter le centre d'alimentation du système.

POR SU SEGURIDAD La instalación y el mantenimiento de este producto debe ser realizado por un contratista que tenga licencia y esté cualificado en equipos para piscinas por la jurisdicción en la que se instalará el producto, cuando existan dichos requisitos estatales o locales, el encargado del mantenimiento debe ser un profesional con suficiente experiencia en la instalación y el mantenimiento de equipos para piscinas, de modo que se puedan seguir exactamente todas las instrucciones de este manual. Lea y siga todas las advertencias e instrucciones que acompañan a este producto antes de instalarlo. No seguir los avisos e instrucciones de advertencia puede resultar en daños a la propiedad, lesiones personales o la muerte. La instalación y/o el funcionamiento inadecuados anularán la garantía. Una instalación y/o funcionamiento inadecuados pueden crear un peligro eléctrico no deseado que puede causar lesiones graves, daños a la propiedad o la muerte. Desconecte la energía en el circuito principal que alimenta el centro de energía del AquaLink para desconectar el centro de energía del sistema.

Installation manual and Owner's manual are available at -
Le manuel d'installation et le manuel du propriétaire sont disponibles à -
El manual de instalación y el manual del propietario están disponibles en línea en -

www.iAquaLink.com:
USA 1-800-822-7933 | CAN 1-888-647-4004 | AUS 1 300 186 875



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Quick Start Guide Guide de Démarrage Rapide Guía rápida de inicio



iAquaLink 3.0 (iQ30) Web-Connect Device Dispositif Web-Connect Dispositivo de Conexión a la Web

⚠ WARNING	ATTENTION	ADVERTENCIA
To prevent risk of electrical shock which can result in severe injury or death, ENSURE that the AquaLink® system is OFF before proceeding with installation. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This device must be installed to provide a separation distance of at least 20cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter, except in accordance with FCC multi-transmitter product guidelines. NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: - Reorient or relocate the receiving antenna. - Increase the separation between the equipment and receiver. - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. - Consult the dealer or an experienced radio/TV technician for help. Modifications made to this equipment, which are not authorized by the manufacturer, may void the user's authority to operate this equipment.		
Pour éviter tout risque de choc électrique pouvant entraîner des blessures graves ou la mort, ASSUREZ-VOUS que le système AquaLink® est éteint avant de procéder à l'installation. Cet appareil est conforme à la section 15 des règles de la FCC. L'opération est soumise aux deux conditions suivantes : (1) Cet appareil ne doit pas causer d'interférences nuisibles, et (2) cet appareil doit accepter toute interférence reçue, y compris les interférences susceptibles de provoquer un fonctionnement indésirable. Ce dispositif doit être installé pour fournir une distance de séparation d'au moins 20 cm par rapport à toutes les personnes et ne doit pas être installé ou utilisé en conjonction avec une autre antenne ou un autre émetteur, sauf conformément aux directives de la FCC concernant les produits multi-émetteurs. REMARQUE : Cet équipement a été testé et déclaré conforme aux limites d'un appareil numérique de classe B, conformément à la section 15 des règles de la FCC. Ces limites sont conçues pour fournir une protection raisonnable contre les interférences nuisibles dans une installation résidentielle. Cet équipement génère, utilise et peut émettre de l'énergie par radiofréquence et, s'il n'est pas installé et utilisé conformément aux instructions, peut provoquer des interférences nuisibles aux communications radio. Toutefois, il n'y a aucune garantie que des interférences ne se produiront pas dans une installation particulière. Si cet équipement provoque des interférences nuisibles à la réception de la radio ou de la télévision, ce qui peut être déterminé en éteignant et en rallumant l'équipement, l'utilisateur est encouragé à essayer de corriger les interférences en appliquant une ou plusieurs des mesures suivantes : - Réorienter ou déplacer l'antenne de réception. - Augmenter l'écart entre l'équipement et le récepteur. - Connecter l'équipement à une prise sur un circuit différent de celui auquel le récepteur est connecté. - Consulter le revendeur ou un technicien de radio ou de télévision expérimenté pour obtenir de l'aide. Des modifications non autorisées par le fabricant qui sont apportées à cet équipement peuvent annuler le droit de l'utilisateur à utiliser cet équipement.		
Para prevenir el riesgo de una descarga eléctrica que puede resultar en lesiones graves o la muerte, ASEGÚRESE de que el sistema AquaLink® esté APAGADO antes de proceder a la instalación. Este dispositivo cumple con la sección 15 de las Normas de la FCC. El funcionamiento está sujeto a las siguientes dos condiciones: (1) Este dispositivo no puede causar interferencias dañinas y (2) este dispositivo debe aceptar cualquier interferencia recibida, incluidas las que puedan causar un funcionamiento no deseado. Este dispositivo debe instalarse para proporcionar una distancia de separación de al menos 20 cm de todas las personas, y no debe colocarse ni utilizarse junto con ninguna otra antena o transmisor, excepto según lo especificado en las pautas de productos de transmisores múltiples de la FCC. NOTA: Tras probar este dispositivo, se determinó que cumple con los límites para un dispositivo digital de Clase B, según la sección 15 de las Normas de la FCC. Dichos límites están diseñados para proporcionar una protección razonable contra interferencias perjudiciales en una instalación residencial. Este equipo genera, usa y puede irradiar energía de radiofrecuencia y, si no se instala o utiliza según las instrucciones, puede causar interferencia dañina a las comunicaciones por radio. Sin embargo, no hay garantía de que no se produzcan interferencias en una instalación específica. Si este equipo causa interferencia dañina en la recepción de radio o televisión, lo cual se puede determinar encendiendo y apagando el equipo, se recomienda al usuario que intente corregir la interferencia mediante una o más de las siguientes medidas: - Reorientar o reubicar la antena receptora. - Aumentar la separación entre el equipo y el receptor. - Conecte el equipo a una toma de corriente en un circuito diferente al que está conectado el receptor. - Consultar con el distribuidor o con un técnico de radio/TV experimentado para obtener ayuda. Las modificaciones realizadas a este equipo, que no están autorizadas por el fabricante, pueden anular la autoridad del usuario para operar este equipo.		

1. WIRE IQ30 WEB-CONNECT DEVICE TO THE AQUALINK® AUTOMATION SYSTEM

CONNECTEZ LE DISPOSITIF IQ30 WEB-CONNECT AU SYSTÈME D'AUTOMATISATION AQUALINK®

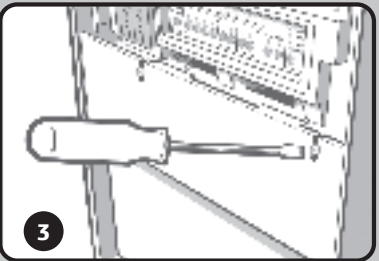
CONECTE EL IQ30 DISPOSITIVO DE CONEXIÓN A LA WEB AL SISTEMA DE AUTOMATIZACIÓN AQUALINK®



Turn off power to AquaLink. Remove the dead panel. Pass IQ30 web-connect device cable through the low voltage raceway.

Coupez l'alimentation d'AquaLink. Retirez le panneau mort. Faites passer le câble du dispositif IQ30 web-connect dans la goulotte à câbles basse tension.

Apague el AquaLink. Retire el panel sin carga. Pase el cable del iQ30 dispositivo de conexión a la web a través del conducto de bajo voltaje.



Reinstall the dead panel (close doors if applicable) to ensure high-voltage areas are secured.

Réinstallez le panneau mort (fermez les portes le cas échéant) pour vous assurer que les zones à haute tension sont sécurisées.

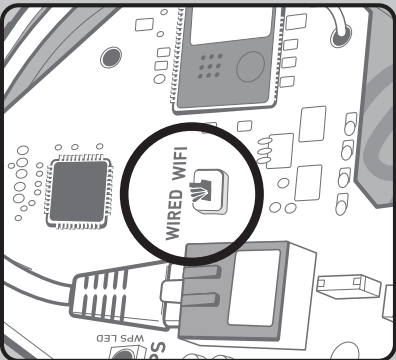
Reinstale el panel sin carga (cierre las puertas si es necesario) para asegurar que las áreas de alto voltaje estén aseguradas.

2. START WI-FI SETUP MODE
DÉMARRER LE MODE DE CONFIGURATION WI-FI
INICIE EL MODO DE CONFIGURACIÓN DE WI-FI

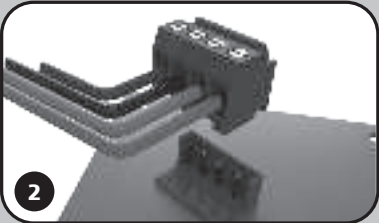
NOTE: This step will clear all current Wi-Fi settings from memory.

REMARQUE: Cette étape effacera tous les paramètres Wi-Fi actuels de la mémoire.

NOTA: Este paso borrará de la memoria todos los ajustes actuales de Wi-Fi.



i See Helpful Hints #2 for more info
Voir les Astuces Utiles #2 pour plus d'informations
Ver Consejos Útiles #2 para más información

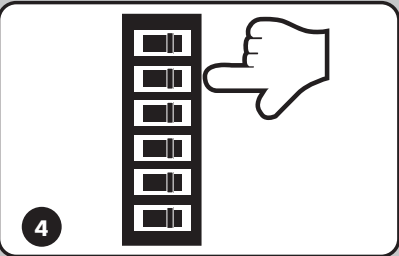


Connect RS485 cable to an open connector on the AquaLink power center board.

NOTE: Do not connect more than two RS485 cables per red terminal bar.

Connectez le câble RS485 à un connecteur ouvert sur la carte du centre d'alimentation d'AquaLink.
REMARQUE: Ne connectez pas plus de deux câbles RS485 par barre à bornes rouge.

Conecte el cable RS485 a un conector abierto en la placa central de energía del AquaLink.
NOTA: No conecte más de dos cables RS485 por cada barra terminal roja.



Restore power to the AquaLink system.

Restablez l'alimentation du système d'AquaLink.
Restaurar la energía del sistema AquaLink.

Remove the device lid by removing the two screws on the cover. To clear any previous Wi-Fi settings, toggle the Wired-Wi-Fi switch. Set the switch to the desired mode. Proceed to step 3.1 or 3.2 to reprogram the Wi-Fi settings.

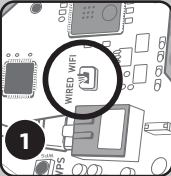
Retirez le couvercle du dispositif en retirant les deux vis sur le couvercle. Pour effacer tous les paramètres Wi-Fi précédents, basculez le commutateur Wired-Wi-Fi. Positionnez le commutateur sur le mode souhaité. Passez à l'étape 3.1 ou 3.2 pour reprogrammer les paramètres Wi-Fi.

Retire la tapa del dispositivo quitando los dos tornillos de la cubierta. Para borrar cualquier configuración previa de Wi-Fi, cambia el interruptor de la conexión Wi-Fi por cable. Ponga el interruptor en el modo deseado. Proceda al paso 3.1 o 3.2 para reprogramar los ajustes de Wi-Fi.

3. CONNECT IQ30 WEB-CONNECT DEVICE TO THE HOME NETWORK

3.1 Wi-Fi: Hotspot Method

(*Home network name (SSID) and password are required)



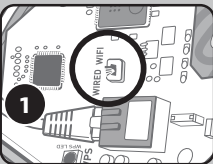
Remove two screws from front cover. Remove the cover and gasket from the web-connect device. To clear Wi-Fi settings and enter Wi-Fi Setup mode, toggle the WIRED / Wi-Fi switch to WIRED then back to Wi-Fi.

NOTE: If the IQ30 is having communication issues with the RS it may be due to a interference issue on the RS-485 serial bus. To verify, use a OneTouch controller connected to the RS and see if the IQ30 is listed in the equipment section of system status and help. If its not, line resistance may be required by adding a closed jumper shunt to the pins at location J5 on the IQ30.

Retirez les deux vis du cache avant. Retirez le cache et le joint du dispositif web-connect. Pour effacer les paramètres Wi-Fi et passer en mode de Configuration Wi-Fi, basculez le commutateur WIRED / Wi-Fi sur WIRED puis de nouveau sur Wi-Fi.
REMARQUE: Si l'IQ30 a des problèmes de communication avec le RS, cela peut être dû à un problème d'interférence sur le bus série RS-485. Pour vérifier, utilisez un contrôleur OneTouch connecté au RS et regardez si l'IQ30 est répertorié dans la section équipement de l'état du système et de l'aide. Si ce n'est pas le cas, une résistance de ligne peut être requise en ajoutant un shunt de cavalier fermé aux broches à l'emplacement J5 sur l'IQ30.
Retire dos tornillos de la cubierta frontal. Retire la cubierta y la junta del dispositivo de conexión a la web. Para borrar los ajustes de Wi-Fi y entrar en el modo de configuración de Wi-Fi, cambie el interruptor POR CABLE / Wi-Fi a POR CABLE y luego de vuelta a Wi-Fi.

NOTA: Si el IQ30 tiene problemas de comunicación con el RS, puede deberse a un problema de interferencia en el bus serie RS-485. Para verificar, use un controlador OneTouch conectado al RS y vea si el IQ30 aparece en la sección de equipo de estado del sistema y ayuda. Si no es así, es posible que se requiera resistencia de línea agregando una derivación de puente cerrada a los pines en la ubicación J5 en el IQ30.

3.2 Wi-Fi: WPS Method Wi-Fi: La Méthode WPS Wi-Fi: Método WPS



Remove the two screws from front cover. Remove the cover and gasket from the web-connect device. To clear Wi-Fi settings and enter Wi-Fi Setup mode, toggle the WIRED / Wi-Fi switch to WIRED then back to Wi-Fi.

Retirez les deux vis du cache avant. Retirez le cache et le joint du dispositif web-connect. Pour effacer les paramètres Wi-Fi et passer en mode de Configuration Wi-Fi, basculez le commutateur WIRED / Wi-Fi sur WIRED puis de nouveau sur Wi-Fi.

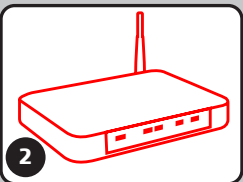
Retire los dos tornillos de la cubierta frontal. Retire la cubierta y la junta del dispositivo de conexión a la web. Para borrar los ajustes de Wi-Fi y entrar en el modo de configuración de Wi-Fi, cambie el interruptor POR CABLE / Wi-Fi a CABLE y luego de vuelta a Wi-Fi.



Open the Wi-Fi settings on your smart device and choose the network named "iAquaLink-***"
Ouvrez les paramètres Wi-Fi de votre appareil intelligent et choisissez le réseau nommé « iAquaLink-*** »

Abra la configuración de Wi-Fi en su dispositivo inteligente y elija la red llamada "iAquaLink-***"

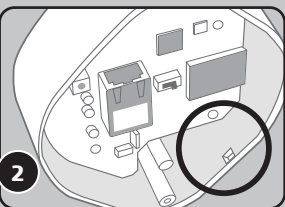
i Some devices will automatically redirect you to the Log In screen. If this does not occur, open a browser and navigate to "iaqualink.com" or 192.168.4.1.
Certains appareils vous redirigeront automatiquement vers l'écran de Connexion. Si cela ne se produit pas, ouvrez un navigateur et accédez à « iaqualink.com » ou 192.168.4.1.
Algunos dispositivos te redirigirán automáticamente a la pantalla de inicio de sesión. Si esto no sucede, abra un navegador y navegue hasta "iaqualink.com" o 192.168.4.1.



Press the WPS button on the home network router. To find it, look for the WPS symbol.

Appuyez sur le bouton WPS du routeur du réseau domestique. Pour le trouver, recherchez le symbole WPS

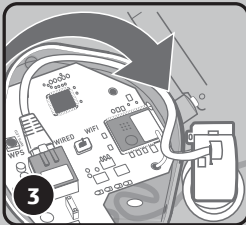
Presiona el botón WPS del router de la red local. Para encontrarlo, busque el símbolo WPS



Using needle-nose pliers, remove the plastic break-away.

À l'aide d'une pince à bec effilé, retirez le plastique détachable.

Utilizando unas pinzas de punta, retire el plástico que se rompió.



Insert the ethernet cable into the ethernet port and wrap the cable inside the device and out of the break-away. To reduce electromagnetic noise, wrap ethernet cable twice around a snap-on ferrite bead exterior to the device, as shown in figure (3). Contact Zodiac Pool Systems LLC Customer Service for a Ferrite Kit (PN# R0914600), provided free of charge. (Ferrite Specs: Fair-Rite PN# 0443806406)

Remplace the device cover and gasket and tighten screws. Insérez le câble Ethernet dans le port Ethernet et enroulez le câble à l'intérieur du dispositif et hors de la séparation. Pour réduire le bruit électromagnétique, enroulez deux fois le câble Ethernet autour d'une perle de ferrite encliquetable à l'extérieur de l'appareil, comme illustré sur la figure (3). Contactez le service clientèle de Zodiac Pool Systems LLC pour obtenir une de ferrite (réf. n° R0914600), fournie gratuitement. (Spécifications de la ferrite : Fair-Rite n°0443806406)
Remettez en place le cache et le joint du dispositif et serrez les vis.

Inserte el cable de ethernet en el puerto de ethernet y envuelva el cable dentro del dispositivo y fuera de la apertura. Para reducir el ruido electromagnético, enrolle el cable Ethernet dos veces alrededor de un cordón de ferrita a presión en el exterior del dispositivo, como se muestra en la figura (3). Comuníquese con el Servicio de Atención al Cliente de Zodiac Pool Systems LLC para obtener un Kit de Ferrita (PN# R0914600), que se proporciona sin cargo. (Especificaciones de Ferrita: Fair-Rite PN# 0443806406) Reemplace la cubierta del dispositivo y la junta y apriete los tornillos.

i Weatherproof the cable break-away by sealing with silicone. Protégez le câble sortant des intempéries en scellant avec du silicone. Impermeabilizar la apertura del cable sellando con silicona.

4. SET UP USER ACCOUNT



Download the free iAquaLink app from the Apple App Store or from Google Play, or navigate to "iAquaLink.com" from any browser. Select "Sign Up" to create an account.

Téléchargez l'application gratuite iAquaLink depuis l'App Store d'Apple ou Google Play, ou accédez à « iAquaLink.com » à partir de n'importe quel navigateur. Sélectionnez « Sign Up » pour créer un compte. Descargue la aplicación gratuita iAquaLink desde el Apple App Store o desde Google Play, o navegue hasta "iAquaLink.com" desde cualquier navegador. Seleccione "Regístrate" para crear una cuenta.

i The pool owner must register with their own email and password to use the iAquaLink app or web interface.

Le propriétaire de la piscine doit s'inscrire avec son propre e-mail et mot de passe pour utiliser l'application iAquaLink ou l'interface Web.

El propietario de la alberca debe registrarse con su propio correo electrónico y contraseña para usar la aplicación iAquaLink o la interfaz web.

CONNECTEZ LE DISPOSITIF IQ30 WEB-CONNECT AU RÉSEAU DOMESTIQUE

Wi-Fi: La Méthode de Point d'Accès

(*Le nom du réseau domestique (SSID) et le mot de passe sont requis)



If prompted for a password, enter the password for the home network (case sensitive).

Si un mot de passe vous est demandé, saisissez le mot de passe du réseau domestique (respectez les majuscules et minuscules).

Si se le pide una contraseña, introduzca la contraseña de la red local (distingue entre mayúsculas y minúsculas).

The web-connect device will disconnect from your smart device at this point.

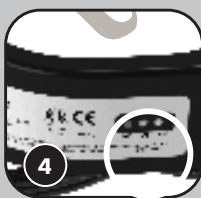
À ce stade, le dispositif web-connect se déconnectera de votre appareil intelligent.

El dispositivo de conexión a la web se desconectará de su dispositivo inteligente en este momento.

CONECTE EL IQ30 DISPOSITIVO DE CONEXIÓN A LA WEB A LA RED LOCAL

Wi-Fi: Método de punto de acceso

(*Nombre de la red local (SSID) y la contraseña son necesarias)



When connection to the home network is established, the yellow 'LAN' LED stops blinking and turns solid. When connection to the Internet is established, the green 'WEB' LED turns solid.

Lorsque la connexion au réseau domestique est établie, la LED jaune « LAN » cesse de clignoter et devient fixe. Lorsque la connexion à Internet est établie, la LED verte « WEB » devient fixe.

Quando se establece la conexión con la red local, el LED amarillo 'LAN' deja de parpadear y se pone sólido.

Quando se establece la conexión a Internet, se pone sólido el LED verde 'WEB'.

Replace device cover and gasket and tighten screws. Remettez le cache et le joint du dispositif en place et serrez les vis.

Vuelva a colocar la cubierta del dispositivo y la junta y apriete los tornillos.

i See Helpful Hints #1 for more info.
Voir les Astuces Utiles #1 pour plus d'informations.
Consulte la sección Consejos útiles #1 para obtener más información.



When connection to the home network is established, the yellow 'LAN' LED stops blinking and turns solid. When connection to the Internet is established, the green 'WEB' LED turns solid.

Lorsque la connexion au réseau domestique est établie, la LED jaune « LAN » cesse de clignoter et devient fixe. Lorsque la connexion à Internet est établie, la LED verte « WEB » devient fixe.

Quando se establece la conexión con la red local, el LED amarillo 'LAN' deja de parpadear y se pone sólido. Cuando se establece la conexión a Internet, se pone sólido el LED verde 'WEB'.

Vuelva a colocar la cubierta del dispositivo y la junta y apriete los tornillos.

i See Helpful Hints #1 for more info.
Voir les Astuces Utiles #1 pour plus d'informations.
Consulte los consejos útiles #1 para más información.



When connection to the home network is established, the yellow 'LAN' LED stops blinking and turns solid. When connection to the Internet is established, the green 'WEB' LED turns solid.

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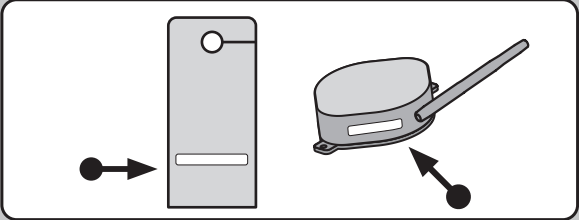
Quando se establece la conexión con la red local, el LED amarillo 'LAN' deja de parpadear y se pone sólido. Cuando se establece la conexión a Internet, se pone sólido el LED verde 'WEB'.

Replace device cover and gasket and tighten screws. Remettez le cache et le joint du dispositif en place et serrez les vis.

Vuelva a colocar la cubierta del dispositivo y la junta y apriete los tornillos.

i See Helpful Hints #1 for more info.
Voir les Astuces Utiles #1 pour plus d'informations.
Consulte la sección Consejos útiles #1 para obtener más información.

CONFIGURER UN COMPTE UTILISATEUR



After creating an account, select the [+] in the top right corner (app) or "Add Location" tab (web). Enter the device serial number found on the door hanger or the side of the web-connect device.

Après avoir créé un compte, sélectionnez le [+] dans le coin supérieur droit (application) ou l'onglet « Add Location » (Web). Saisissez le numéro de série du dispositif qui se trouve sur l'affichette de porte ou sur le côté du dispositif.

Después de crear una cuenta, seleccione el [+] en la esquina superior derecha (app) o en la pestaña "Agregar ubicación" (web). Ingrese el número de serie del dispositivo que se encuentra en el soporte de la puerta o en el lateral del dispositivo de conexión a la web.

i For security reasons, you must be connected to the same network as the IQ30 web-connect device to add it to your account. Pour des raisons de sécurité, vous devez être connecté au même réseau que le dispositif IQ30 web-connect pour l'ajouter à votre compte.

Por motivos de seguridad, debe estar conectado a la misma red que el iQ30 dispositivo de conexión a la web para agregarlo a su cuenta.

CONFIGURE CUENTA DE USUARIO



Select your system from the "My Systems" screen (app) or the "Locations" tab (web) to monitor, program, and control your entire pool system.

Sélectionnez votre système à partir de l'écran « My Systems » (application) ou de l'onglet « Locations » (web) pour surveiller, programmer et contrôler l'ensemble de votre système de piscine.

Seleccione su sistema en la pantalla "Mis sistemas" (aplicación) o en la pestaña "Ubicaciones" (web) para monitorear, programar y controlar todo su sistema de piscinas.

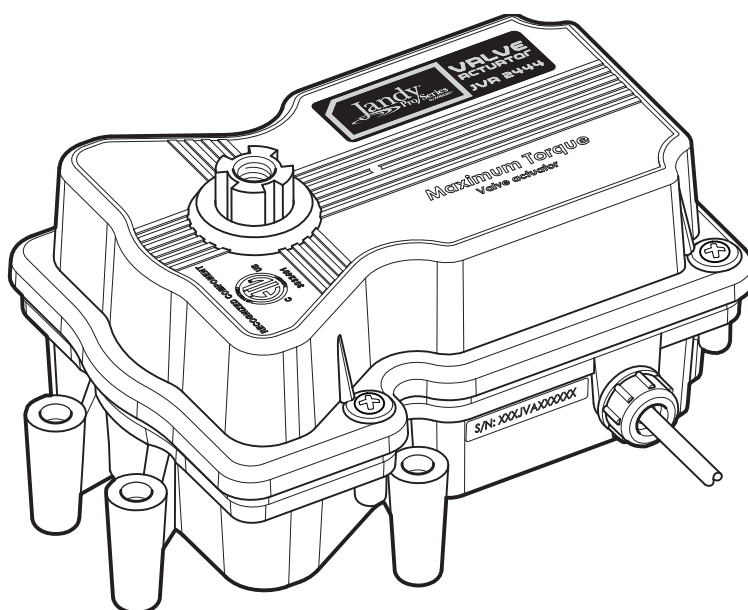
i The web interface is also available from the app. Access it by selecting [Web] from the top-right corner after selecting your system from the "My Systems" screen.

L'interface web est également disponible depuis l'application. Accédez en sélectionnant [Web] dans le coin supérieur droit après avoir sélectionné votre système dans l'écran « My Systems ». Además, la interfaz web está disponible en la aplicación. Acceda a ella seleccionando [Web] en la esquina superior derecha después de seleccionar su sistema en la pantalla "Mis sistemas".



INSTALLATION AND OPERATION MANUAL

Jandy® Pro Series Valve Actuator Model JVA 2444



WARNING

FOR YOUR SAFETY - This product must be installed and serviced by a contractor who is licensed and qualified in pool equipment by the jurisdiction in which the product will be installed where such state or local requirements exist. The maintainer must be a professional with sufficient experience in pool equipment installation and maintenance so that all of the instructions in this manual can be followed exactly. Before installing this product, read and follow all warning notices and instructions that accompany this product. Failure to follow warning notices and instructions may result in property damage, personal injury, or death. Improper installation and/or operation will void the warranty.



Improper installation and/or operation can create unwanted electrical hazard which can cause serious injury, property damage, or death.

ATTENTION INSTALLER - This manual contains important information about the installation, operation and safe use of this product. This information should be given to the owner/operator of this equipment.

EQUIPMENT INFORMATION RECORD

DATE OF INSTALLATION _____

INSTALLER INFORMATION _____

INITIAL PRESSURE GAUGE READING (WITH CLEAN FILTER) _____

PUMP MODEL _____

HORSEPOWER _____

FILTER MODEL _____

SERIAL NUMBER _____

CONTROL PANEL MODEL _____

SERIAL NUMBER _____

NOTES: _____

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Section 1. Safety Information

IMPORTANT SAFETY INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

READ AND FOLLOW ALL INSTRUCTIONS

When installing and using this electrical equipment, basic safety precautions should always be followed, including the following:

WARNING

This manual contains important information about the installation, operation and safe use of this product. This information should be given to the owner/operator of this equipment.

WARNING

This product must be installed and serviced by professionals who are qualified in pool/spa product installation and service. Improper installation and/or operation can create an unwanted electrical hazard which can cause serious injury, property damage, or death. Improper installation and/or operation will void the warranty.

WARNING

Disconnect power to the system at the main circuit breaker before servicing to avoid risk of electric shock which can result in property damage, severe injury or death. All wiring must be done in accordance with the National Electrical Code® (NEC®), NFPA-70. In Canada, all wiring must be done in accordance with the Canadian Electrical Code (CSA C22.1). All applicable local installation codes and regulations must be followed.

SAVE THESE INSTRUCTIONS

Section 2. General Information

2.1 Introduction

This manual contains information for the proper installation and operation of Jandy® Pro Series Valve Actuators (JVA). Procedures in this manual must be followed exactly. To obtain additional copies of this manual visit www.zodiacpoolsystems.com. For address information, see back cover.

2.2 Description

Valve Actuators are designed to meet the needs of today's more advanced, automatic pool equipment. These fully adjustable actuators offer versatile pool/spa automation with easy setups. All actuators work with AquaLink® RS Control Systems and are available in 24 volt units.

JVA 2444 Specifications	
Voltage	24 VAC
Amperage	0.75 AMPS
Cycles	60 Hz
Wire	3-conductor
Black	Common
Red	Switch Leg
White	Switch Leg

Section 3. JVA Mounting Positions

3.1 Standard JVA Position

Standard Plumbing position is with the middle port (B) as the incoming or common port to the valve (see Figure 1).

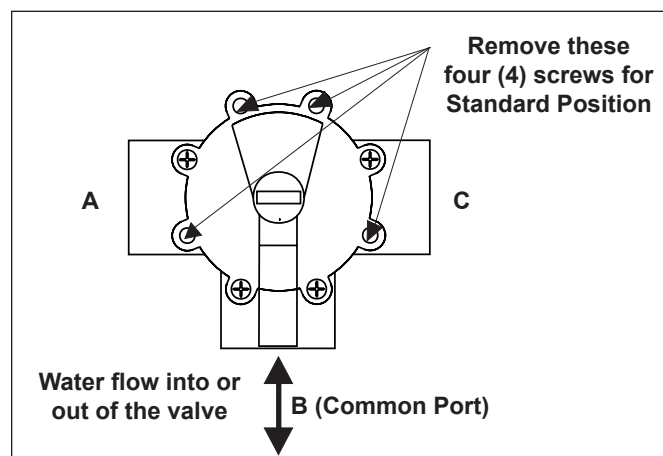


Figure 1. Standard Plumbing

Standard Mounting position is with the main body of the actuator over port B (see Figure 2).

NOTE If the valve(s) are plumbed with port B as the common port (Standard Plumbing) and the main body of the actuator(s) are mounted over port B (Standard Mounting), there is no need to adjust the actuator cams.

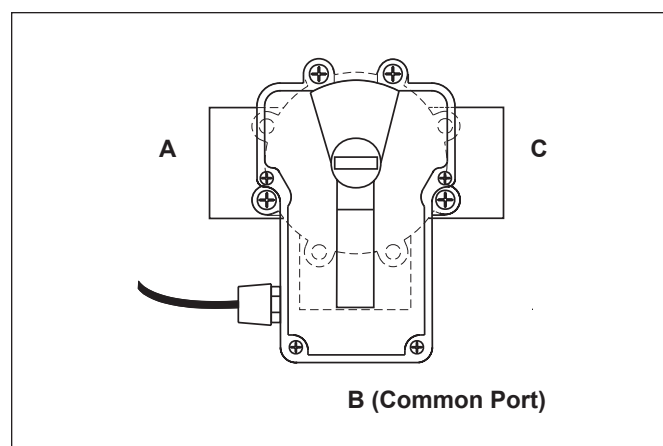


Figure 2. Standard JVA Mounting

3.2 Actuator Mounting

JVA's mount directly on all full-size Jandy Pro Series Valves (8 screws on lid). Zodiac recommends motorizing Jandy Pro Series Never Lube® Valves only.

JVA's may be mounted onto valves in any of the four (4) positions in Figure 3.

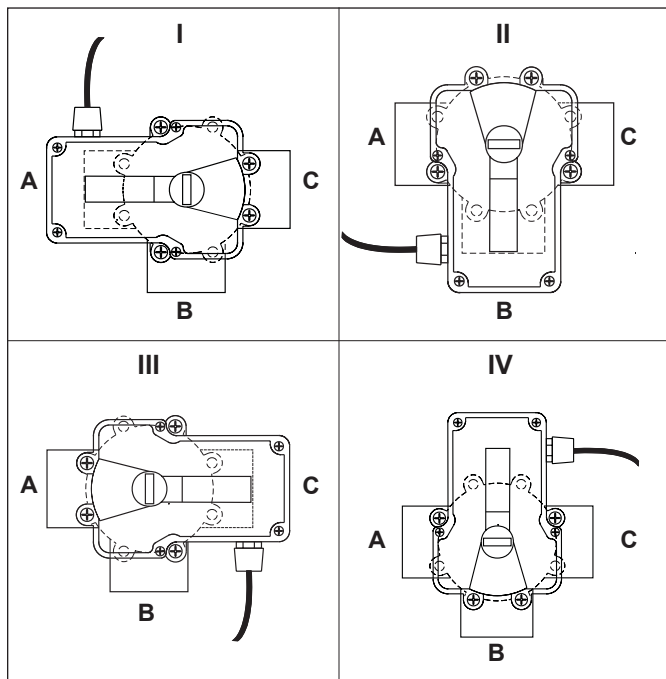


Figure 3. JVA Mounting Positions.

1. Unscrew the locking knob by turning the knob counterclockwise. Remove the locking knob and valve handle (see Figure 4).
2. For standard valves, remove the four (4) large Phillips head screws from the valve. The location of the screws you remove will determine how the actuator will be mounted (see Figure 4). When installing the large 3" valve, it is not necessary to remove any screws. Use the four mounting bosses provided.

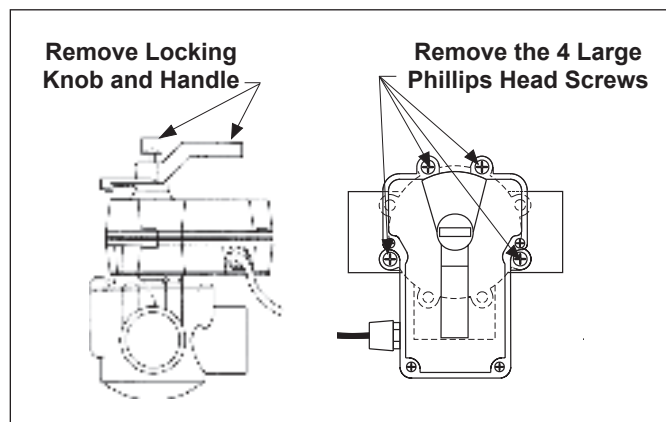


Figure 4. Remove Locking Knob and Lid Screws

3. Turn the actuator over so you can see into the clear actuator shaft. There are four (4) "teeth" on the inside of the shaft. Locate the smallest "tooth" and align this "tooth" with the smallest slot on the valve (see Figure 5).

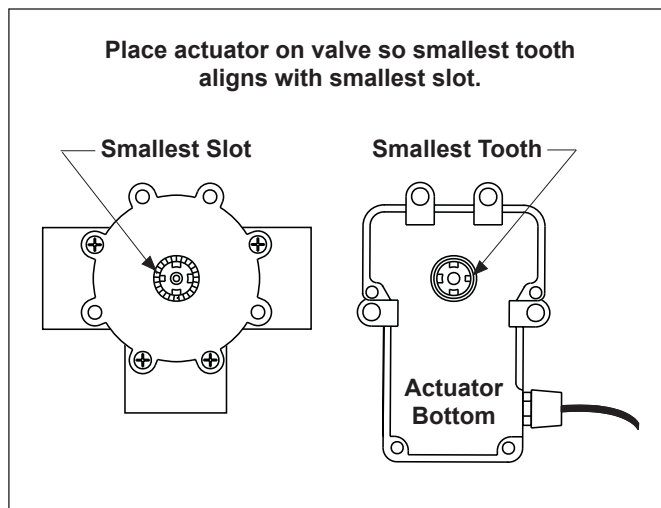


Figure 5. Actuator Mounting

4. Place the actuator onto the valve.
5. Rotate the actuator while keeping the two shafts engaged until the screw holes on the actuator legs align with the empty screw holes (from step 2) in the valve (see Figure 6).
6. Use the four (4) large 2" Phillips head screws (included with the JVA) to secure the JVA to the valve.
7. Put the valve handle on the actuator shaft. Put the knob on the shaft and tighten (finger tighten only).

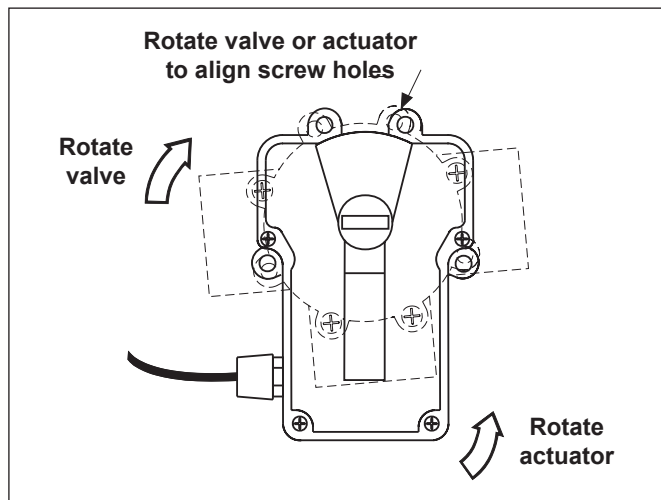


Figure 6. Actuator Mounting

Section 4. Synchronization

4.1 Synchronization Methods

If the valve is plumbed in the **Standard Plumbing** position and the actuator is mounted in **Standard Mounting** position, you do not have to change the cam settings from the factory settings. However, you may have to synchronize the cams.

One of the following will occur when the actuator is out of synchronization:

- the actuator will rotate in the wrong direction in relation to its controller (as in a solar heating system)
- one actuator will rotate incorrectly in relation to another actuator (as in pool/spa combination)

Figure 7 illustrates an example of the valves and actuators of a pool/spa combination that are out of synchronization. The valve on the left of the illustration (suction) is plumbed with the spa line on the left side of the valve and the pool line on the right; whereas, the valve on the right of the illustration (return) is plumbed with the pool on the left side of the valve and the spa on the right. In this configuration, if the actuators are activated, one will turn to spa while the other will turn to pool. The actuators will have to be synchronized.

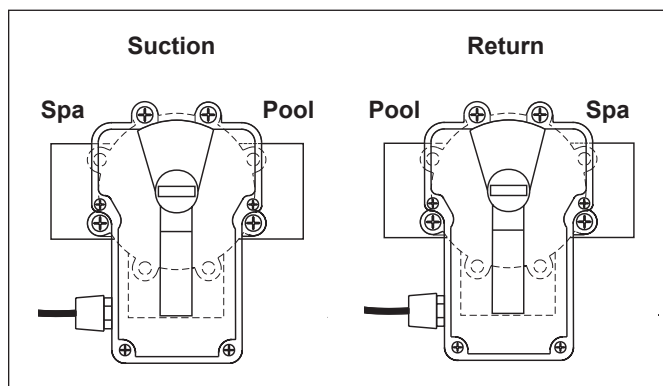
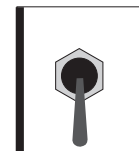


Figure 7. JVA Synchronization, Example

On the actuator that is out of synchronization, flip the toggle switch located on the bottom of the actuator to the ON 2 position (see Figure 8). The toggle positions are marked on the actuator top cover. Retry the system.



ON 1
OFF
ON 2

On/Off Switch is located on the bottom of the JVA

Figure 8. JVA Synchronization, Toggle

4.2 Resetting the Cams

⚠ WARNING

Improper cam settings can result in dead heading of the water flow which can cause injury or property damage. Improper cam settings and/or operation will void the warranty.

NOTE Before resetting cams, if the valve is plumbed in **Standard Plumbing** position and the actuator is in **Standard Mounting** position *there is no need for resetting the cams* (see Figure 9). If a port other than "B" is plumbed as the common port or if the actuator is mounted other than **Standard Mounting**, the cam setting must be changed so the actuator shaft and the valve diverter rotate properly. Refer to the Cam Setting Chart on page 8 for proper settings.

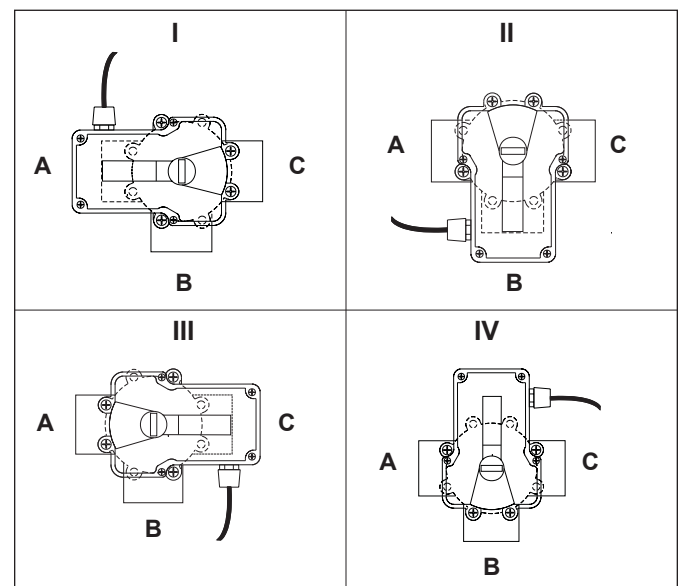


Figure 9. JVA Mounting Positions.

- Turn OFF actuator power.** Unscrew the locking knob by turning the knob counterclockwise. Remove the locking knob and valve handle.
- Remove the four (4) Phillips head screws that secure the actuator lid and then remove the lid.

3. **Important** - Rotate the actuator shaft so the arrow mark on the top cam aligns with the microswitch actuator (bottom cam arrow mark should also align with the bottom microswitch actuator, see Figure 10). Locate the mounting position for the actuator (as per Figure 9, the mounting position will be either I, II, III, or IV). Next, determine what valve port is the common or inlet port (as per Figure 9, the common port will be either A, B, or C). Then refer to the Cam Setting Chart below to determine what the cam settings should be. For example, if the actuator is in JVA mounting position "I", and the common port on the valve is port "A", the cam settings would be 90° for the top cam and 180° for the bottom.

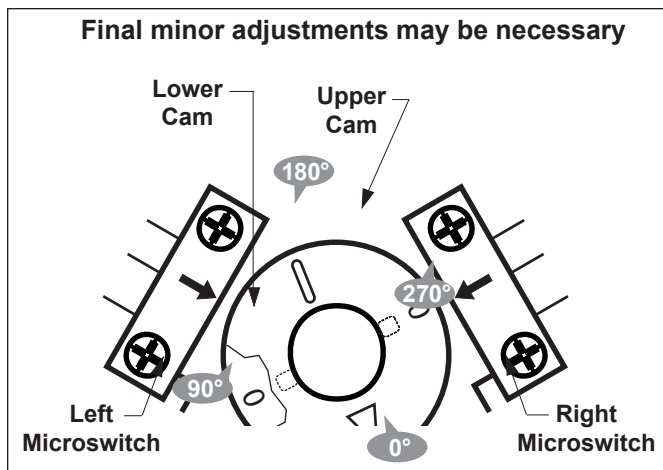


Figure 10. JVA Cams

NOTE The cam is marked with the arrow at "0", a long hash mark at the 180° position, and 2 short hash marks at the 90° and 270° positions.

4. To set the cams, rotate the cam(s) until the arrow mark on the cam(s) align with the microswitch actuator (see Figure 11).

NOTE The upper cam stops counterclockwise rotation and the lower cam stops clockwise rotation.

5. Turn power ON to the actuator and use the toggle switch located on the bottom of the actuator to check rotation. Move the toggle switch to either ON 1 or ON 2. Allow the actuator shaft to move until it stops. Check valve diverter position*, if the position is correct flip the toggle switch in the opposite direction and allow the shaft to stop again. If the stop positions are correct, go to step 6. If they are not, reset the cams until correct.

NOTE If the actuator does not move in either direction, refer to Section 6, *Troubleshooting*.

6. Replace the lid and tighten screws. Replace the handle and locking knob.

NOTE The end of the handle which has the word OFF embossed on it exactly duplicates the shape of the valve diverter. When the handle is placed on a valve or actuator shaft the word OFF will be directly over the center of the valve diverter.

Cam Setting Chart

NOTE Before resetting cams, always rotate the actuator shaft so the arrow mark on each cam aligns with the pointer above its microswitch.

Actuator Mounting	Water Enters Port Common Port	Cam Setting		Water Exits Valve	
		Top Cam	Bottom Cam	Port or	Port
*I	A	90	180	B	C
I	B	90	270	A	C
I	C	180	90	A	B
*II	A	180	90	B	C
II	B	0	0	A	C
II	C	90	180	A	B
*III	A	90	180	B	C
III	B	270	90	A	C
III	C	0	270	A	B
*IV	A	0	270	B	C
IV	B	180	180	A	C
IV	C	270	0	A	B

*Two Port Valve Settings

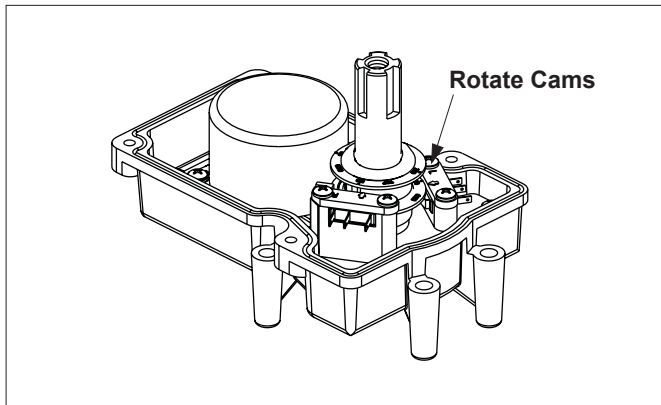


Figure 11. JVA Cam Adjustment

Section 5. Manual Operation

5.1 Manual Override

It is sometimes necessary to rotate valve(s) manually, without using the system controller. This occurs when the controller is not accessible/operational or when the spa or pool/spa combination require filling or draining.

There are two (2) methods of manually rotating the JVA; one with power on (system operational) and one with power off (no power to the control system).

CAUTION

To prevent damage to your equipment and to minimize the possibility of any injury resulting from such damage, make sure that the pool filtration pump is OFF BEFORE rotating the valve handle.

5.2 Manual Override, Power On

1. Move the toggle switch located on the bottom of the actuator to the opposite position (ON 1 switch to ON 2 or vice versa). This will rotate the motor to the opposite position.
2. Return the toggle switch to the original position after use.

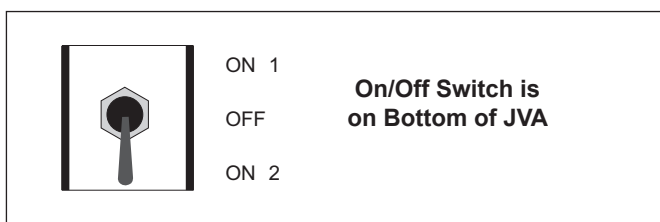


Figure 12. JVA Synchronization, Toggle

5.3 Manual Override, Power Off

1. Move toggle switch located on the bottom of actuator to the **OFF** (center) position.
2. Unscrew (counterclockwise) the locking knob above the handle four (4) full turns.
3. Push down on the locking knob (not the handle). This will disengage the gear train and allow the handle, and thus the valve diverter, to be moved to any position.
4. To return the actuator to automatic position, pull up on the handle while turning it clockwise or counterclockwise until you feel the shaft slide up into the gear train. Turn the locking knob down (clockwise) until snug.
5. Put toggle switch back to the original position.

Section 6. Maintenance

6.1 Actuator

The JVA has three (3) seals which should be lubricated once a year. One o-ring is located on the bottom of the actuator where the plastic shaft exits the housing and two (2) O-rings located in the top cover near where the shaft exits the top of the housing. Use the following steps to lubricate the seals:

1. Turn OFF power to the actuator.
2. Remove the locking knob and handle (see Figure 13).

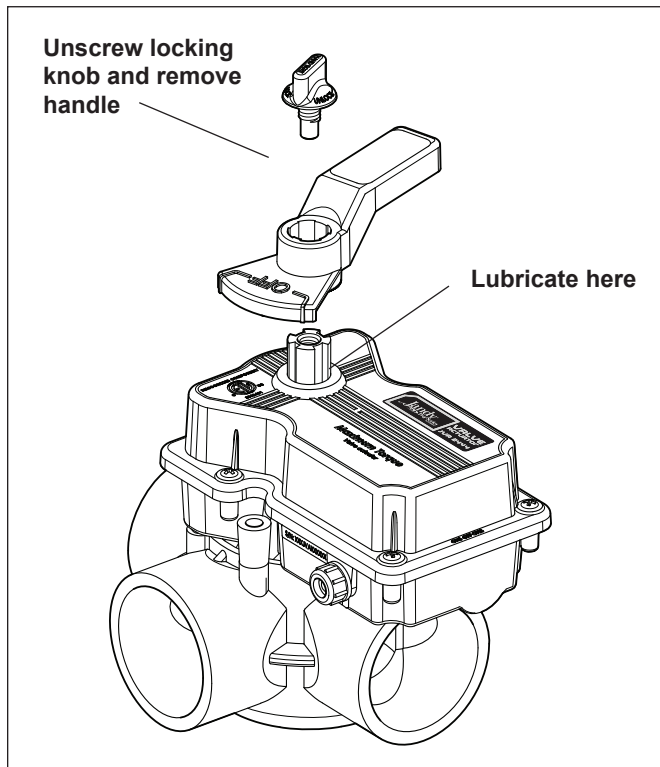


Figure 13. JVA Shaft Seal

3. Spread a small amount of Jandy Pro Series Lube or other silicone base lubricant around the actuator shaft just above the lock out ring (see Figure 13).
4. Reinstall handle and locking knob. Only tighten knob one (1) turn.
5. Push down on the locking knob to force the actuator shaft into manual.
6. Wipe a small amount of lubricant around the actuator shaft where it protrudes from the bottom of the actuator.
7. Turn handle once around to spread the lubricant.
8. Pull up on the handle and tighten locking knob.

6.2 Valve

NOTE This section does not apply to Jandy Pro Series Never Lube® Valves and non-positive seal valves. Never Lube Valves and non-positive seal valves can be identified by the absence of a grease cap. Never Lube Valves can also be identified by the name "Never Lube" on the handle.

Since the actuator rotates the valve diverter which redirects the flow of water, it is imperative that the seals and the O-rings within the valve body be lubricated often (at least every **three (3) months**). Use the following procedure to lubricate the valve diverter seals:

1. Turn off all pool/spa equipment.
2. Rotate valve handle so the OFF on the handle is over the word GREASE on the valve body.
3. Unscrew (counterclockwise) and remove the black cap of the grease fitting.
4. Fill cap with lubricant (Jandy Lube).
5. Replace cap on fitting and turn in (clockwise) until all of the lubricant has been forced into the valve.
6. Use manual operation to move the handle from side to side to spread the lubricant across the seal.
7. Reset the valve handle to its original position and start the equipment.

Once a year the valve should be disassembled and the O-ring and valve body inspected for damage. Thoroughly lubricate the square seal and the O-ring. Reassemble the valve.

Section 7. Wiring Diagrams

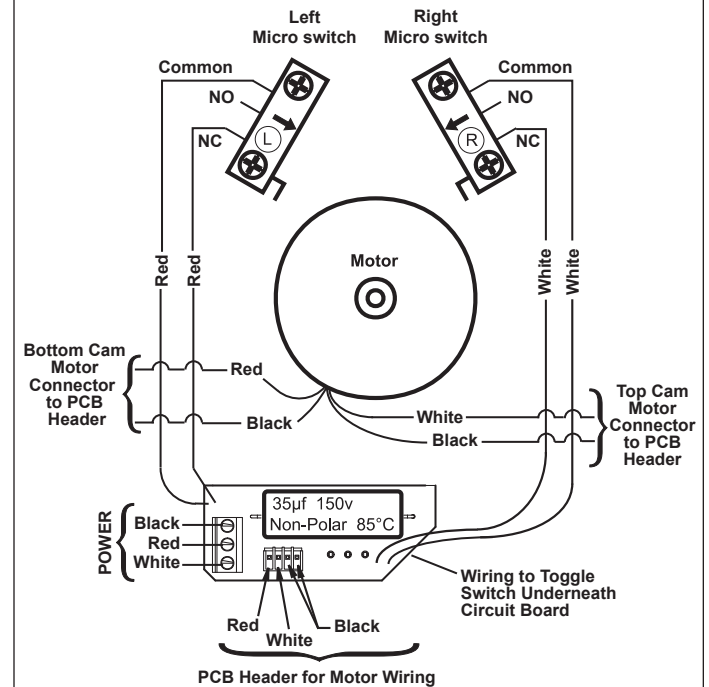
7.1 JVA Wiring Schematic 2444

⚠ WARNING

Disconnect power to the system at the main circuit breaker before servicing to avoid risk of electric shock which can result in property damage, severe injury or death. All wiring must be done in accordance with the National Electrical Code® (NEC®), NFPA-70. In Canada, all wiring must be done in accordance with the Canadian Electrical Code (CSA C22.1). All applicable local installation codes and regulations must be followed.

⚠ CAUTION

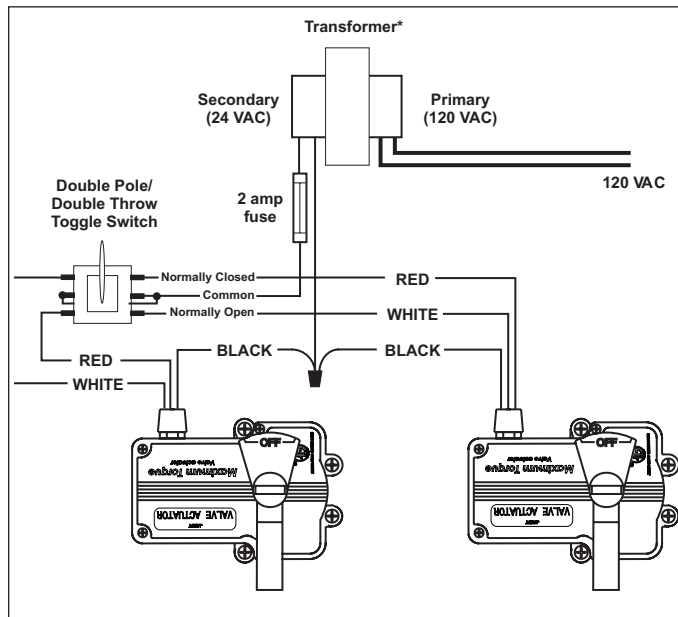
To avoid damage to the equipment and minimize risk of injury, use a properly sized, listed Class 2 transformer for connection to the power supply.



7.2 JVA's with Toggle Switch

This diagram is for two (2) JVA 2444s.

To operate more JVA's, additional poles and a higher amperage fuse are needed. Do not double lug the JVA switch leg wires (red and white wires).

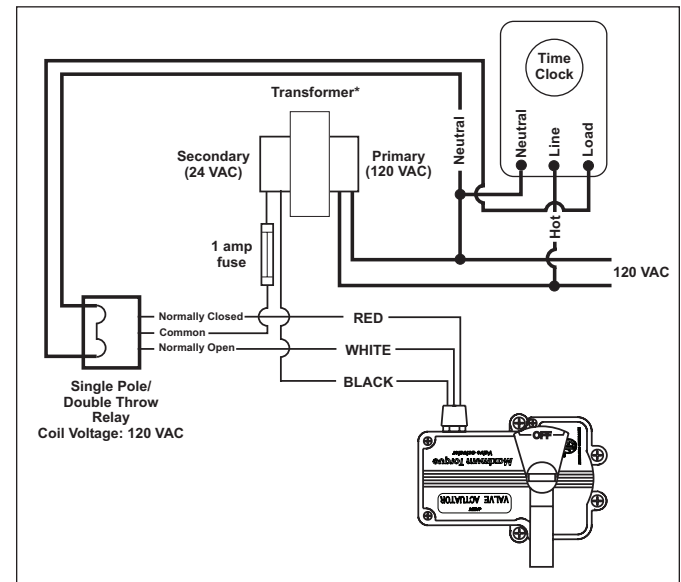


* Transformer must be sized for the number of JVA's. Each JVA requires .75 amp. at 24 VAC.

7.3 JVA's with Time Clock

This diagram is for a single JVA 2444.

To operate more JVA's, additional poles and a higher amperage fuse are needed. Do not double lug the JVA switch leg wires (red and white wires).



* Transformer must be sized for the number of JVA's. Each JVA requires .75 amp. at 24 VAC.

Section 8. Troubleshooting

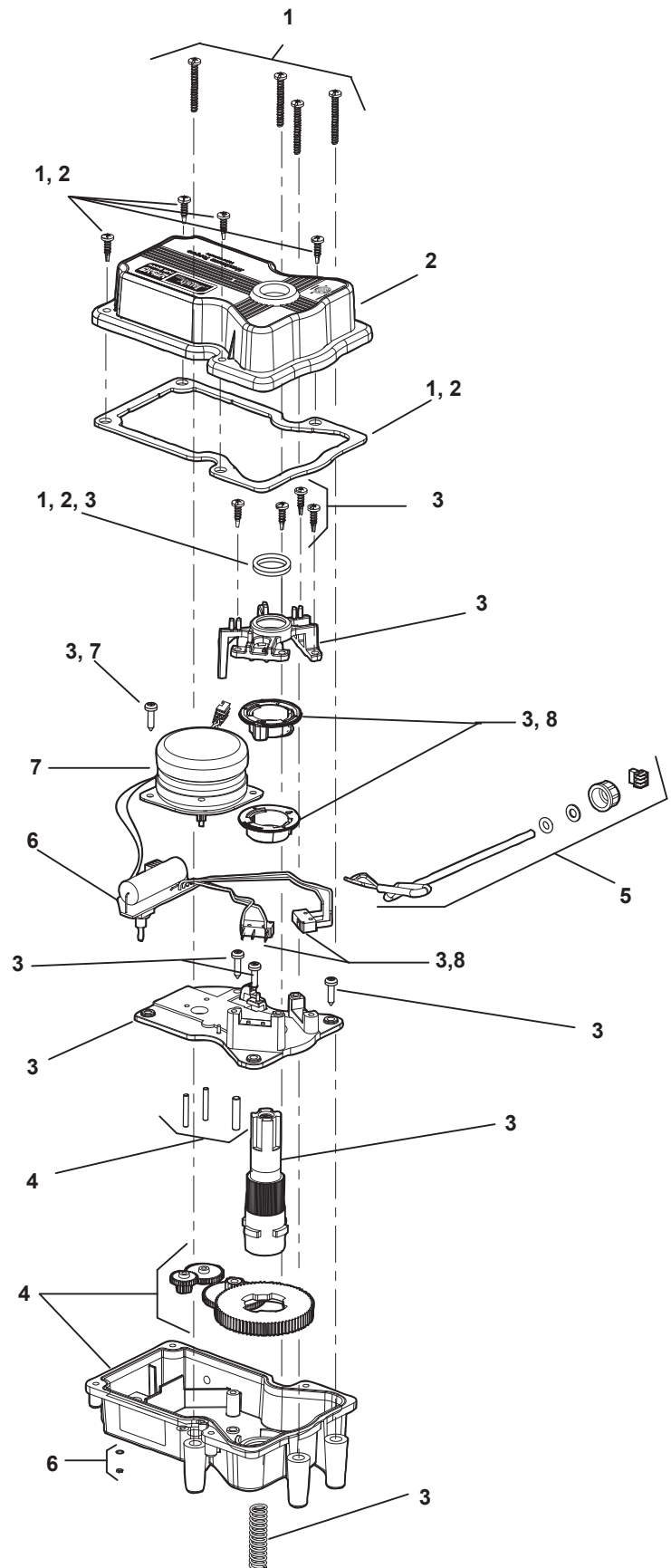
8.1 Troubleshooting

All major components, including the power cord, are replaceable without replacing the entire actuator. Each item may be replaced as a separate piece allowing easy infield repair. See *Section 8, Exploded Views and Replacement Kits*, for actuator replacement part numbers.

Problem	Cause	Solution/Check
Actuator handle oscillates.	Lack of valve seal lubrication. Obstruction in valve body.	Lubricate valve. Remove actuator and valve lid and inspect.
Actuator motor works but the valve diverter does not turn. NOTE On a pool/spa combination, the problem would be spa draining or overflowing.	A). Actuator shaft broken. B). Valve diverter broken. C). Actuator in manual position. D). Gear train damaged.	A). Replace actuator shaft. Refer to Shaft Replacement Kit instructions for disassembly. B). Replace valve diverter. C). Pull up on the handle while rotating counterclockwise. D). Refer to Gear Replacement Kit instructions for disassembly.
Actuator motor does not turn.	A) No power to the actuator. B) Toggle switch in OFF position. C) Motor has failed. D) Failed or broken microswitch. E) Both cams in contact with their microswitches.	A) Check voltage between black (common) wire and each switch leg (red then white) B) Move toggle switch to ON 1 or ON 2 position. C) Replace motor. D) Replace microswitch. E) Check Cam Setting section.
Actuator rotates in one direction but not back again.	A) Broken or damaged micro-switch. B) Bad connection(s). C) Bad control relay switch. D) Broken wire.	A) Replace microswitch. B) Check all connections. C) At the power source check the operation of the control relay or switch. D) Check red and white wires.
Water inside valve actuator.	Damaged seals.	Replace top lid and grease seals.

Section 9. JVA Exploded View and Spare Parts

Dwg. #	Kit #	Description	Qty.
1	R0409600	JVA Gasket and Screw Kit	
		Gasket	1
		O-ring,	2
		Screw, #14 x 2"	4
		Screw, #8 x 5/8"	4
2	R0411500	Top Housing Kit	
		Gasket	1
		O-ring	2
		Screw, #8 x 5/8"	4
		Housing, Top	1
3	R0408700	Center Plate Kit	
		O-ring	2
		Screw, #8 x 5/8"	8
		Bridge	1
		Top Cam (Clear)	1
		Bottom Cam (Textured)	1
		Microswitch	2
		Center Plate	1
		Output Shaft, Threaded	1
		Spring, JVA	1
4	R0411600	Gear Kit	
		Primary Gear	1
		Secondary Gear	1
		Large Pinion Gear	1
		Output Gear	1
		Housing, Bottom w/3 Pins	1
5	R0411800	Cable Kit, 20'	
		O-ring, Strain Relief	1
		Washer, Strain Relief	1
		Cap, Strain Relief	1
		Power Cord, 20' w/3-pin Connector	1
5	R0411900	Cable Kit, 75'	
		O-ring, Strain Relief	1
		Washer, Strain Relief	1
		Cap, Strain Relief	1
		Power Cord, 75' w/3-pin Connector	1
6	R0441700	PCB w/Toggle Switch Kit	
		PCB Sub-Assy, 24V w/PCB, w/Toggle Switch, Lock Washer and Nut	1
7	R0408500	Motor Kit	
		Screw, #8 x 5/8"	1
		Motor 24V, w/Wire and Connector	1
8	R0408600	Cam and Microswitch Kit	
		Top Cam (Clear)	1
		Bottom Cam (Textured)	1
		Microswitch	2



NOTES

NOTES

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ETL LISTED CONFORMS TO
UL-STD 1563
CERTIFIED TO CAN/CSA C22.2 NO.218.1