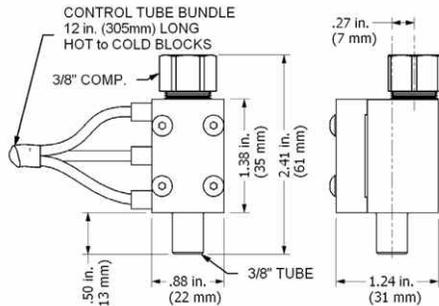
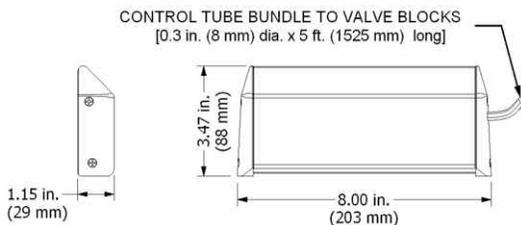


INLINE VALVE BLOCKS - applies to all models



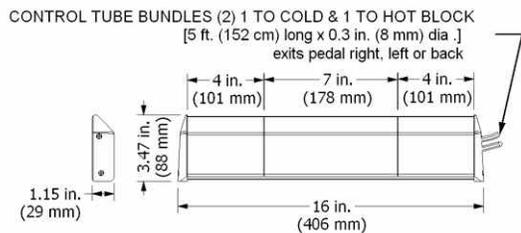
- SPECIFICATIONS**
- PRESSURE:** operating: 0 to 100 psi (690 kpa) max at 140°F (60°C)
static burst: 700 psi (4,830 kpa) at 72°F (22°C)
- FLOW:** hot & cold blocks: 7.2 gpm @ 60 psi (27 l/m @ 4 bar)
- CONSTRUCTION:** body: chrome plated brass and stainless steel
seals: high temperature silicone
filter and screening: polyethylene
- FILTRATION:** control circuit: 25 micron
main port: greater than .060" (1.5 mm)

KICK PEDAL - applies to models 1750, 1752, 1740 & 1742



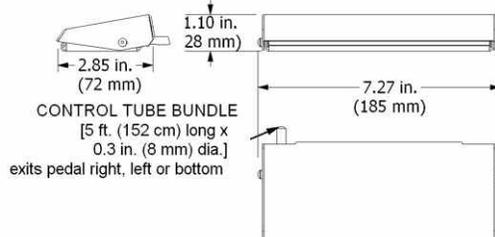
- SPECIFICATIONS**
- CONSTRUCTION:** cover - 18 gauge brushed stainless steel
base - anodized aluminium
end caps - glass reinforced polypropylene, grey
- MOTION:** vertical face momentary - approximately 1/8" (3 mm)
angled face continuous flow - approximately 1/8" (3 mm)
- MOUNTING:** vertical face (cabinet toe kick) with 2 #8 screws

HOT/WARM/COLD (HWC) KICK PEDAL - applies to models 1790 & 1792



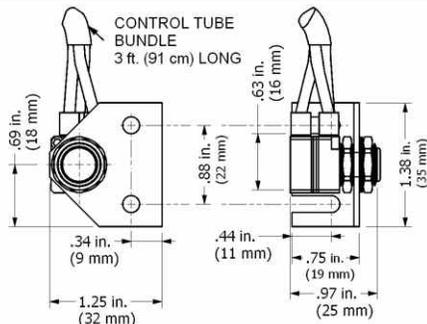
- SPECIFICATIONS**
- CONSTRUCTION:** covers - 18 gauge brushed stainless steel
base - anodized aluminium
end caps - glass reinforced polypropylene, red and blue
- MOTION:** vertical face momentary - approximately 1/8" (3 mm)
angled face continuous flow - approximately 1/8" (3 mm)
- MOUNTING:** vertical face (cabinet toe kick) with 2 #8 screws

UNIVERSAL KICK PEDAL - applies to models 1760, 1762 & 1763



- SPECIFICATIONS**
- CONSTRUCTION:** covers - 18 gauge brushed stainless steel
base - 18 gauge brushed stainless steel
end caps - glass reinforced polypropylene, red and blue
- MOTION:** hinged pedal momentary - approximately 3/8" (9 mm)
- MOUNTING:** vertical face (e.i. - cabinet toe kick) with 2 #8 screws
floor - polyurethane rubber feet or screws

ACTUATOR VALVE - applies to all models BRACKET - applies to models 1720, 1722 & 1710



- SPECIFICATIONS**
- PRESSURE:** operating - 0 to 100 psi (690 kpa) max at 140°F (60°C)
static burst - 700 psi (4,830 kpa) at 72°F (22°C)
- CONSTRUCTION:** body - chrome plated brass and stainless steel
seals - nylon reinforced EPDM
bracket - 16 gauge stainless steel
- MOTION:** button stroke - 0.02" (.5 mm)
- MOUNTING:** 15/31 - 32 UNF thread 15/32 hole
- TUBE BUNDLE:** 3x1/8" high density polyurethane tubes with PVC sheath

INSTALLATION INSTRUCTIONS
Models 1730, 1732, 1733 & 1734
Original Equipment Manufacturers (O.E.M.) Models



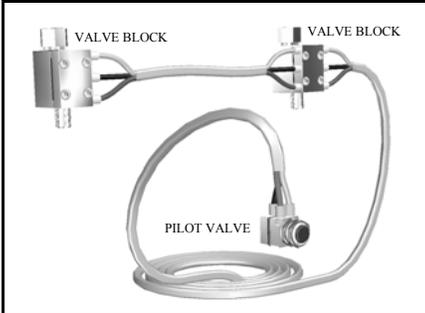
CSA - B125.98
 A.S.M.E. - A112.18.1
 NSF 61-9



NOTICE TO INSTALLER

It is assumed the person who intends to install the Tapmaster hands free faucet controller has a basic working knowledge of tools and plumbing. Integra Dynamics Inc. will not assume any responsibility or liability for damages consequential or inconsequential resulting from the improper installation of this product. It is recommended that a plumber or other person skilled in the art be consulted if you are unsure of the proper procedure to install the Tapmaster.

GENERAL



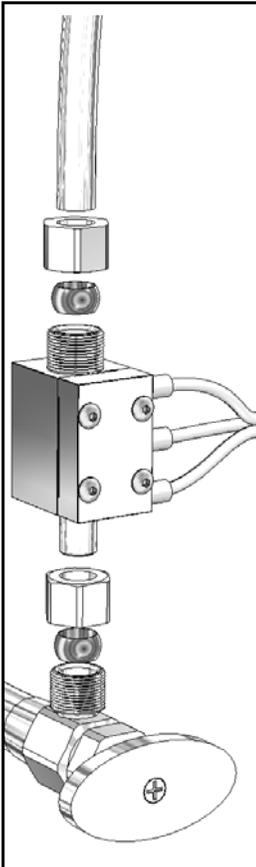
This illustration shows a typical model 1730 Tapmaster. The valve blocks connect in-line on the hot and cold water supplies with 3/8" compression fittings. The pilot valve is mounted in a 1 5/32" hole in the cabinet base or toe kick. A kick plate or other activator supplied by the original equipment manufacturer, is mounted in front of and presses against the button or ball actuator of the pilot valve to activate water flow to the faucet.

The Model 1732 is for cabinets with two kick plates one for hot and one for cold. The Tapmaster consists of two identical valve assemblies where one valve block is connected to one pilot valve. The model 1733 is like the 1730 except another pilot valve is added to the circuit. Pressing either pilot valve activates both hot and cold flow and is typically used in island cabinets with two kick plates one on either side of the cabinet. The model 1734 is like the 1732 except another pilot valve has been added to each valve block/

pilot valve assembly is typically used in island cabinets with two sets of hot and cold kick plates one set on either side of the cabinet.

Installations will vary according to the design of the cabinet, type of faucet, O.E.M. kick plate and plumbing hardware. In some cases it may be simpler to connect the valve blocks at some convenient mid-point along the 3/8" supply tubing. In this case it will be necessary to obtain a 3/8" x 3/8" compression connector (*available at most hardware stores*) to connect the inlet fitting into the water lines. Other plumbing arrangements may be encountered where larger than 3/8" O.D. tubing sizes are used. In these situations reducing adapters must be obtained to permit installation of the Tapmaster. Although the Tapmaster will work with virtually any faucet, faucets that have handles which give a visual reference for flow and temperature are recommended.

Installing the Valve Blocks



STEP #1 Prior to installing the valve blocks open the shutoff valves momentarily to flush out any debris in the water lines. Large pieces of water borne debris will be trapped by the filter/screen in the valve blocks and may reduce water flow or cause noisy operation. Proceed to step 3 if this is a new installation.

STEP #2 Turn off the water supplies and place a bucket underneath the shut off valves to catch water that may run out of the plumbing. (*hint: closing the faucet handles will minimize leakage*). Loosen the compression nuts retaining the 3/8" O.D. supply tubes to the hot and cold shut-off valves. If the situation allows, bend and reposition the tubing in such a manner as to create a 1-1/2" gap (*do not kink*). If this cannot be readily accomplished the tubes will have to be shortened approximately 1-1/2". Cut the tubes with a tube cutter. If a tubing cutter is not available a hacksaw may be used, however be sure to de-bur and square the ends. If the 3/8" tubes need to be cut extra compression sleeves are required. Finger tighten the compression nuts until both valve blocks are in position. Be sure the plastic control tubes and fittings are not damaged in any manner.

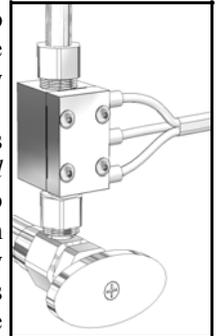
STEP #3 Assemble the Tapmaster valve blocks in-line between the hot and cold shut off valves and the faucet tubes as shown. (*Note: The valve blocks are identical in function and may be used on either hot or cold water lines. Position them according to how the control tubing will be routed*).

STEP #4 Proceed to tighten the compression fittings using one wrench on the nut and another on the valve block body. Be sure that both the 3/8" inlet tube and the 3/8" tubing on the outlet fitting remain fully inserted while tightening.

STEP #5 Turn on the water supply and inspect **all** connections for leaks. Operate the pilot valve rapidly to clear air from the control tubes (*valve on or off operation may be noisy until air is cleared*). After some time has passed re-inspect all connections for leaks (*small leaks may take several minutes to show up*).

WARNING

Take care not to damage the plastic control tubes or control tube fittings while tightening the compression fittings. **DO NOT** expose to excessive heat, repetitive abrasions or puncture with sharp objects. Route in such a manner as to avoid damage from other objects. The use of substitute tubing voids manufacturer's warranty. **DO NOT** expose valve block internal flow paths to thread sealants. **Maximum operating range 0 - 100 PSI, 140° F**



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Operation

To operate the Tapmaster simply press the foot lightly against the kick plate and open the faucet to the desired flow and temperature. By releasing the kick plate, Tapmaster shuts off the water flow to the faucet. Once the faucet has been adjusted it may be left open.

Service and Maintenance

If the faucet drips:

First determine which valve is at fault, one of the valve blocks or the button/pilot valve, by shutting off, in turn, with the faucet handle(s) the cold and hot water. If the dripping stops the corresponding valve block requires service, go to the valve block service procedure. If the faucet did not stop dripping pinch off the yellow tube between the pilot valve and first valve block with a pair of needle nose pliers (*pinch closed only, DO NOT CRUSH*). If the dripping stops replace the button/pilot valve.

The water is very slow to shutoff or will not shutoff:

Turn off the hot and cold water supplies. Disconnect a green tube from one of the valve block barbs by prying back the white sleeve and splitting the tube with a sharp knife (*DO NOT overstress the barb it may break*). Partially open the cold water supply shutoff while holding a small container under the appropriate green tube or barb fitting to catch the water. A strong steady stream should result. Using the same procedure test the flow from the hot valve block. If there is little or no flow go to the valve block service procedure. If the flow is good from the green tube connections, on both valve blocks, reconnect the green tube and disconnect the blue tube coming from the button/pilot valve at the valve block. Again using the same procedure, test the water flow coming from the blue tube. If there is little or no flow replace the button valve.

The water is very slow to turn on or will not turn on:

First verify pedal top is making solid contact with the button/pilot valve by removing the pedal top and operating the valve by hand. Next verify there is good flow in the blue tube from the button/pilot valve using the same procedure as in the above situation. If there is good flow reconnect the blue tube and disconnect the yellow tube coming from the button valve. With the water supplies turned on press the button valve while observing the water flow coming from the yellow tube. If there is a short burst of water go to the valve block service procedure. If there is no water or just a few drops of water, replace the button valve.

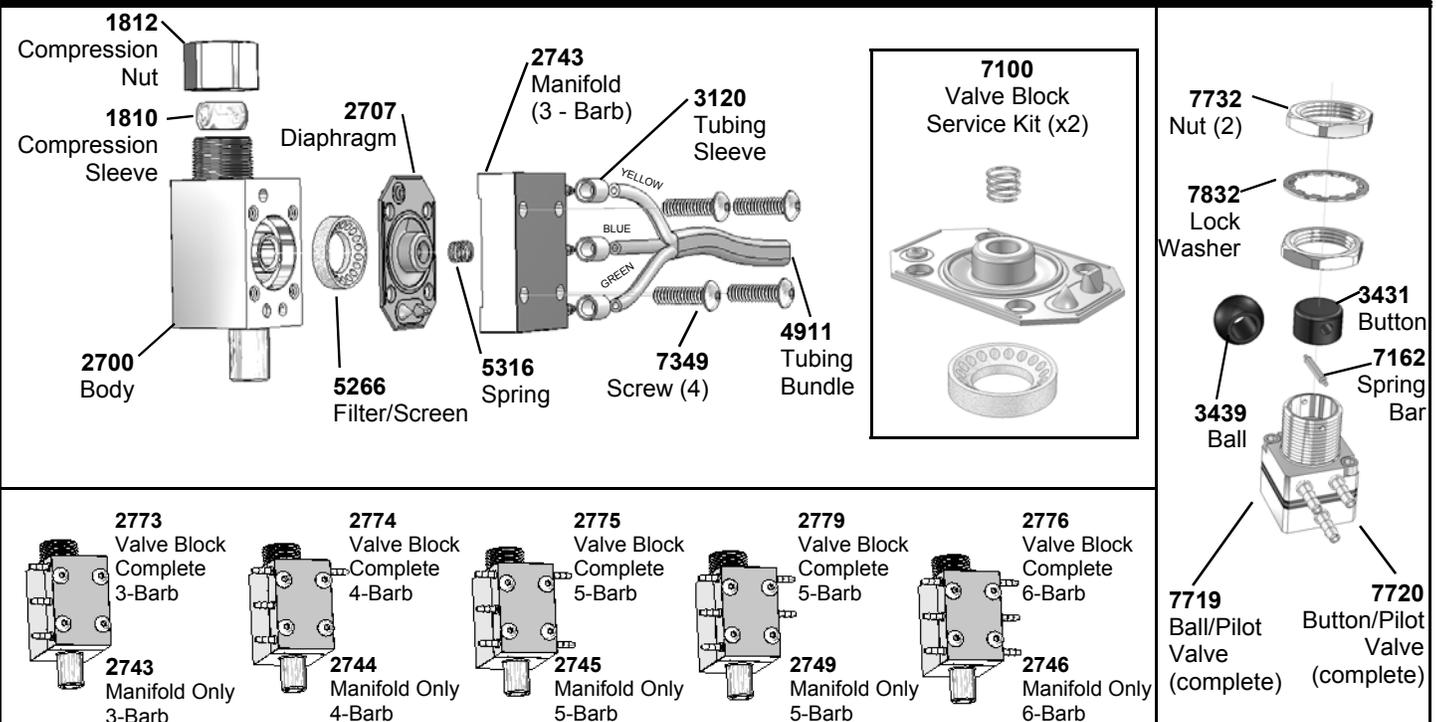
Noise from valve blocks while the water is running:

Turn off the cold and hot water alternately at the faucet to determine which valve block is the source of the noise. The corresponding valve block may have excessive debris trapped under its filter-screen and requires service. See the valve block service procedure.

Valve Block Service Procedure:

Turn off the water supply(s) and disassemble the valve block by removing the four hex screws, take care not to lose the spring (*see the illustrated breakdown*). Remove the diaphragm and the filter-screen, clean all the ports in the body and manifold with vinegar or a commercial water deposit cleaner while paying particular attention to the small passages. Inspect the filter-screen and diaphragm and clean or replace as required (*note: the filter-screen is a dual purpose part which functions both as a coarse screen for the main water flow and is a porous plastic with 25 micron filtration to protect the control circuits*). Reassemble the valve block as per the illustrated breakdown below and pay particular attention to the alignment of the body diaphragm and manifold. Take care not to crush the duck bill check valves on the diaphragm. Tighten the screws in an alternating crossing pattern. (*hint: if the valve block is mounted use a little Vaseline or silicone grease to hold the spring in place*).

Illustrated Parts Breakdown

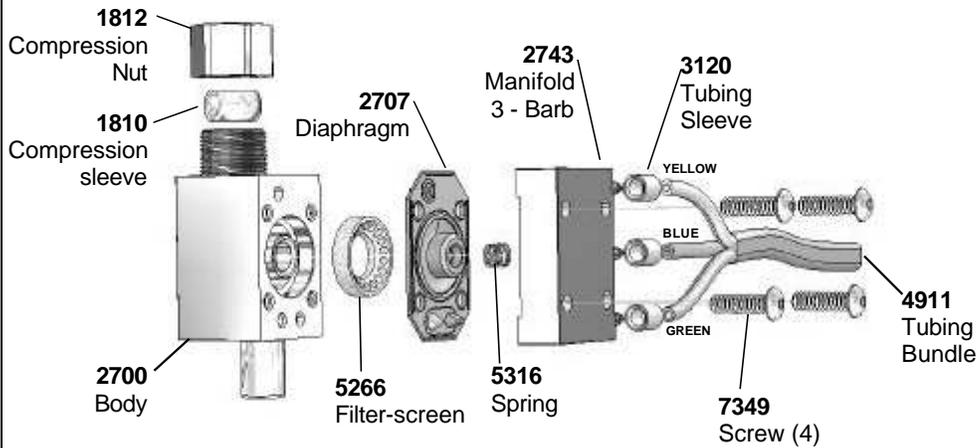


Models
1750, 1752, 1740 & 1742



U.S. Patent Numbers
 5505227, 6254057
 European Patent Number
 0654628

ILLUSTRATED PARTS BREAKDOWN



2773
 Valve Block
 Complete
 3-Barb

2774
 Valve Block
 Complete
 4-Barb

2775
 Valve Block
 Complete
 5-Barb

2779
 Valve Block
 Complete
 5-Barb

2776
 Valve Block
 Complete
 6-Barb

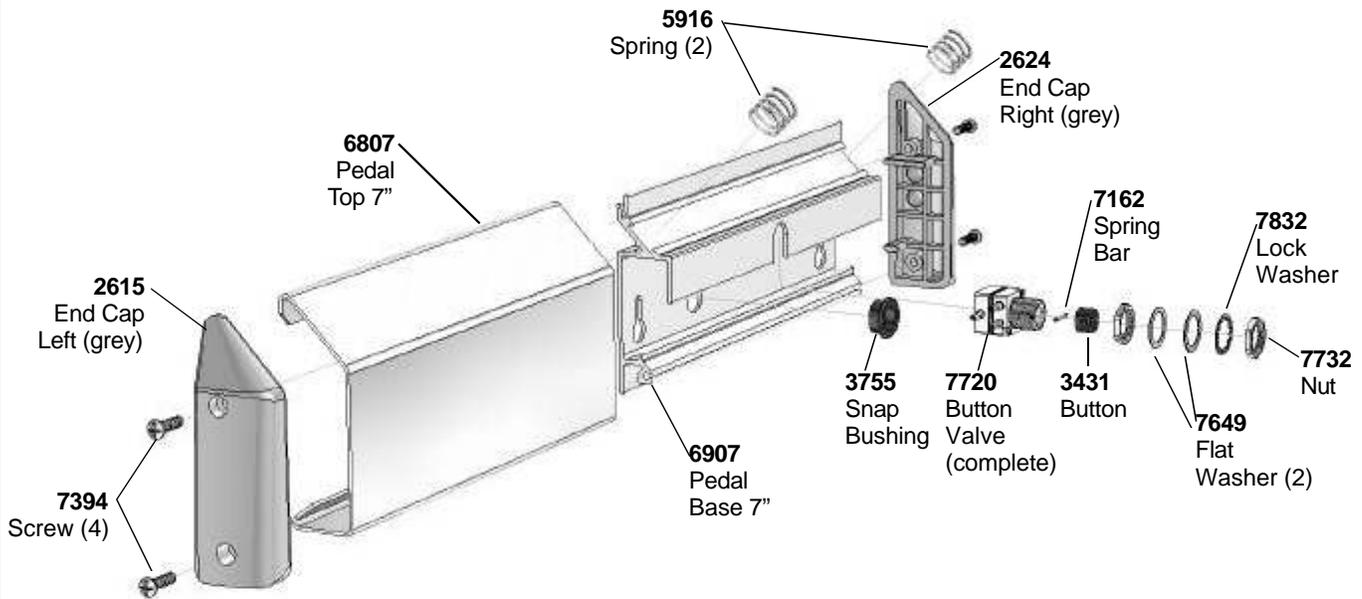
2743
 Manifold Only
 3-Barb

2744
 Manifold Only
 4-Barb

2745
 Manifold Only
 5-Barb

2749
 Manifold Only
 5-Barb

2746
 Manifold Only
 6-Barb



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Rev. 1.2

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TAPMASTER

2 YEAR LIMITED WARRANTY

Congratulations on your purchase of TAPMASTER hands free faucet controller.

WARRANTY SERIAL #

TAPMASTER products are thoroughly tested before shipment and are warranted to be free of defects in material and workmanship for two years from date of original purchase. The sole obligation of Integra Dynamics Inc. under the warranty is to provide replacement parts or at its option to repair the defective product or to provide the replacement product. Replacement parts furnished in fulfillment of this warranty are warranted only for the unused portion of the original warranty. Labor and shipping charges are not included.

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