Honeywell

MODUTROL IV MOTOR OEM CROSS REFERENCE



Honeywell

MODUTROL IV
OEM CROSS REFERENCE

This cross reference is intended to aid in the selection of replacement Modutrol Motors. Any motors not listed in this manual were not on file at the time of publication and, therefore, information was not available for inclusion in this reference.

Several new features are included in this edition. First, information contained in the various sections is not identical. Therefore, each section starts with an explanation of the column headings for that section. Please refer to the appropriate explanation for definition of the various data contained in that section.

Second, a section of Application Notes was added to explain some of the notes that appear in the Comments columns. These notes are explanations designed to upgrade the installation from earlier Modutrol Motors to Modutrol IV.

Third, an input signal column was added to the right pages in this reference. The definition of the data listed in this column is shown in the Application Notes section.

Fourth, columns were added to the left pages to indicate similar motors for ease of substitution. These columns indicate which motors are similar but have different combinations of wiring boxes, adapter brackets, single and dual shafts. In addition, the final column indicates additional motors that are similar but note some specific difference. This selection will help when replacing the original Modutrol Motor, in cases where a specific item is not available.

Fifth, an accessory cross reference was added. This reference provides a listing, in numerical order, of what the part or device is and whether it can be used with Modutrol III and/or Modutrol IV Motors. It also provides a listing of the equivalent Modutrol IV part. To ensure the selected part will operate as desired, check the cross reference for that part.

Finally, since publication of the previous editions of this cross reference, many new motors were added. Also, new listings of old motors were added, based on calls from customers looking for data on previously unlisted motors. This reference lists data on 861 Modutrol II, III, and IV Motors. In addition, this volume covers 129 accessories.

For more information on older Modutrol Motors and competitive models, please refer to the TRADELINE® Modutrol IV Cross Reference.

Please use this reference with care, and report any discrepancies to your local Honeywell Sales Representative.

TO USE THIS MANUAL

Open the manual to the correct section for the motor under consideration. Find the motor in the left-most column and read across to find the appropriate Modutrol IV Motor. **Be sure to read both the left and right hand pages!** Notes on both pages may apply to your decision of which motor to use. Once you have picked a motor, turn to of this manual and compare the data for the selected motor to the data for the original motor. This will help you to be sure that you have chosen the best replacement.

Not all cross referenced motors match exactly. The Comments sections describe differences and indicate what action may be necessary to replace the original motor. Any discrepancies between the original motor and the selected replacement motor should considered when determining whether the selected motor will operate as desired. In addition, not every motor listed is available to every OEM customer. If the motor indicates a name under "Customer Special," it will be available only to that customer.

Please report any discrepancies you find in the data to your local Honeywell Sales Representative.

TABLE OF CONTENTS

Section 1: Application Notes	Page 5
Section 2: Modutrol II, III to Modutrol IV	Page 11
Section 3: Modutrol IV to Modutrol IV	Page 37
Section 4: Accessory Cross Reference	Page 55

NOTE: The final choice of replacement motor is the decision of the purchaser. There are often several approaches to replacing a Modutrol Motor. For additional assistance, contact your Honeywell Sales Representative. Double-check each cross reference to assure the correct motor for the application was chosen.

MODUTROL MOTOR CROSS REFERENCE

APPLICATION NOTES

MODUTROL IV CROSS REFERENCE APPLICATION NOTES

This section of the cross reference contains the application of Modutrol IV Motors in replacement situations. In each of the subsections, additional data is provided about the notations listed in the Comments column of the cross reference. The notations are listed in alphabetical order with the topic printed in **BOLD** type. Unless specifically noted, all data applies to all sections.

ADD Q181 FOR SLAVED MOTOR APPLICATIONS

Certain Modutrol II Motors included a second feedback potentiometer, which was used to drive a second Series 90 Motor. With the design of the Modutrol III Motor, this feature was no longer available. The applications that used this feature now require a Q181 mounted on the auxiliary end of the Modutrol IV Motor to provide control of the second motor. If both the master and slave motors are replaced and the original controller is a Series 90 (i.e., T915, L91, T921), the motors can be run in parallel by using 4074BYK Resistor Kit or 221508A Resistor Board.

ADJUSTABLE ZERO AND SPAN

In Series 70 applications using 4 to 20 mA signals, a narrower control range is required to provide sequencing of motors across the input signal. M744Y and M745Y Modutrol III Motors were designed for this application. In Modutrol IV, these motors are designated M7284Q and M7285Q. This feature can also be obtained by using the Q7230A1005 Interface Module with a Series 91 Motor. The adjustable zero feature allows you to set the point on the input signal where the motor will leave closed, and the adjustable span feature allows you to select the change in input signal that will cause the motor to run from fully open to fully closed. To set, select the zero and then the span. Refer to the specifications for the Interface Module.

AUX SWITCH SETTINGS

When specified, the aux switch setting indicates the switching action of the auxiliary switches as set at the factory. If there is no setting listed, the switches were not set at the factory and may be set anywhere in the stroke of the motor. It is the responsibility of the installer to correctly set the auxiliary switches. (Also noted as "Aux sw. set to ...")

CHECK VOLTAGE

Check voltage supply on original application and replacement motor. When this comment appears, it is a possibile that the cross referenced motor will not have the correct voltage, and some adjustment is needed. If possible, change the voltage requirements of the motor to agree with the application. If necessary, add an internal or external transformer to the motor. If the replacement motor has a transformer where 24 Vac operation is required, the transformer may be removed. For additional information, refer to the cross reference listing and specifications for the motor selected.

CHANGE CONTROL CIRCUIT TO 24 VAC

Certain Modutrol I and Modutrol II Motors were designed with line voltage submotors. Accordingly, the controllers for these motors switched line voltage to the motor to cause the motor to run open or run closed. This application is similar to the external balance relay application described below in the No Internal Balance Circuit subsection. When Modutrol III, and subsequently Modutrol IV, was designed, the

submotors chosen were all 24 Vac. In the cross reference, motors listed as replacements for these motors will have a transformer to match the original voltage. To complete the circuit, change the switching to provide dry contact closures to the motors. A drawback to this change is the requirement of supplying power to the motor that requires two additional wires to be run to the motor. Alternatively, if the controller can be modified to supply 24 Vac to the motor coils instead of line voltage, only three wires will be required (as for the original wiring).

CONTROL SIGNAL

This section describes the various input signals that are listed in the cross reference sections.

Digital: Specifically the M7405 Economizer Motor, which will operate only with T7400/W7401 Systems.

Series 40 or 41: Line voltage, single pole, single throw switching. Motor runs fully open on contact closure; spring returns when contact opens.

Series 60 or 61: Three wire, single pole, double throw switching. Responds to either single pole, single throw (three wire) contacts or three wire floating control (drive open — off — drive closed). Series 60 and 61 Motors may be either low or line voltage.

Series 62: Similar to Series 60 and 61, but includes a feedback potentiometer. Responds to either single pole, single throw (three wire) contacts or three wire floating control (drive open — off — drive closed). Three wire feedback potentiometer provides position indication to controller.

Series 80 or 81: Low voltage, single pole, single throw switching. Motor runs fully open on contact closure; spring returns when contact opens.

Series 70, or 71, 72, 73, 74, 76, and 79: Voltage and current inputs. The appropriate input signal range is listed.

Series 90, or 91, 94 (135Ω): Three wire potentiometer input. Based on 135 ohm potentiometers as found in controls such as L91, Q181, Q209, S963B, T915, T991, and T921. In addition, the Modutrol III and Modutrol IV Motors operate with electronic Series 90 outputs such as those found in T775E, T775F, T775G, W973B, W7100D, and W7100E. Modutrol I and Modutrol II Motors will not operate with these electronic inputs, while Modutrol III and Modutrol IV Motors will operate with either electronic or potentiometer inputs.

SPST: Refer to series 41 and 81 above.

Thermistor: Motor works with specific thermistor. Consult specifications for the original motor for further operation details.

W936: The W936 and W945 were control systems using a voltage output to position a damper or valve actuator. The voltage range is approximately 0.7 to 1.9 Vdc, fully closed to fully open.

CUSTOMER NAMES

In the Comments column of the Modutrol I, II, and III to Modutrol IV and Modutrol IV to Modutrol IV sections, a customer name; i.e., Trane, Carrier, Lennox, York, Cleaver Brooks, Japan, Canada, etc., indicates the motor was originally built for that specific OEM or international customer. Some of these can be cross referenced to specific motors that perform a similar function, or to a TRADELINE® that can be configured to perform the task. In other cases, this is not possible. For those, the OEM customer or their local agent should be contacted for assistance in replacing the motor. The OEM will have better data on the application in question because they designed and built the equipment for the Honeywell Modutrol Motor application.

MOTOR NOT CROSSED TO MODUTROL IV

In the competitive and Modutrol I, II, and III sections, a motor may not be cross referenced to a Modutrol IV Motor because of specifications, some particular feature included in the original that is not duplicated in the direct replacements or the TRADELINE® Motors, or the original motor is not a Modutrol Motor. The Modutrol I, II, and III section includes foot mounted actuators that are not obsoleted due to the introduction of Modutrol IV such as M436, M7415, and M835. Also included are some direct coupled actuators, which will continue to be offered. In each of these cases, the original motor will cross reference to itself rather than to a Modutrol IV Motor as its direct replacement and no TRADELINE® configuration is listed. For further information on these motors, refer to your TRADELINE® Catalog, the individual specifications, or your local Honeywell representative.

NO INTERNAL BALANCE CIRCUIT (SERIES 62 MODUTROL IV)

When the design of the Modutrol Motor included a mechanical balance relay (Modutrol I and Modutrol II), motors were susceptible to vibration. As a result, a series 90 Motor was designed that removed the balance relay from the rest of the motor and placed it in a location that was not vibrating. These motors were M944B,E,G,S, M945B,C, and G. The balance relay was an R927. The combination acted as a Series 90 Motor. These motors were also used with other controllers over the years and as a result, the Series 90 designation no longer holds true. The motor itself acts like a Series 60 Motor with one additional feature of a feedback potentiometer to indicate to the controller where the motor is positioned in stroke. Therefore, a new designation was added for Modutrol IV, Series 62, indicating series 60 operation with feedback potentiometer. To use the Modutrol III and Modutrol IV Motors with the R927, a Q181 must be used as the feedback potentiometer. The R927 sources a high current that will burn out the thick-film potentiometer when connected. If the feedback potentiometer is connected to a low current controller circuit, this problem will not exist. (Also noted as No int. bal. cir.)

NORMALLY OPEN — NORMALLY CLOSED

This indicates how the motor rotates, usually referring to the spring return action, which is also referred to as Mechanical Rotation. Most motors are normally closed, so only Normally Open is indicated. When used in conjunction with Electrical Rotation, this indicates response to the input signal. When viewed from the power end of the motor, an increase in signal will cause the shaft to rotate clockwise for a normally closed motor. A normally open motor will rotate counterclockwise on the same signal increase. When the signal is removed, the motor will proceed to its fully normal position, closed (fully counterclockwise) for normally closed or open (fully clockwise) for normally open. (Also noted as NO or NC)

OBSOLETE

This indicates the original motor listed is no longer produced. Consider all Modutrol I (M904), Modutrol II (M944) and Modutrol III (M944) Motors as obsolete. See also MOTOR NOT CROSSED TO MODUTROL IV.

SET TO . . . (voltage, current or rotation)

A note in the Comments column specifying a signal range or rotation choice indicates a setting on the interface module listed in the Add Accessories column of the cross reference. Please refer to the specifications shipped with the interface module for specific instructions for these settings.

SHIP POSITION (90° OR 160°)

Adjustable stroke motors with an indication of shipping position indicate the stroke adjustment built in at the factory. The TRADELINE® Motors are shipped in the 160° setting. To adjust the stroke to another stroke setting for your application, refer to the Specifications shipped with the motor.

TAPPED AUX SHAFT

Motors marked Tapped Aux Shaft include a tapping in the auxiliary end shaft and also in the power end shaft. Some OEMs use this tapping to mount accessories to the shaft when the motor is used with their equipment. (8-32UNC-2B x 0.56 in. deep.)

300 LB.-IN.

Some Modutrol III Motors were rerated to 300 lb-in. effective date code 8840. On the right page the Torque column indicates 150 lb-in. as the device was designed. In the Comments column the indication 300 lb-in. refers to those motor built on date code 8840 and newer. This rating will only be found on non-spring return motors that have a timing of 60 or 120 seconds for 90° of rotation and 120 or 240 seconds for 160° of rotation. Due to the design of the gear trains, the 300 lb-in. rating was applied to these motors.

TRADELINE

Indicates the original motor is a TRADELINE® Motor. In Modutrol IV, TRADELINE® Motors have the following features: 24 Vac, cams installed to allow addition of auxiliary switches, adjustable stroke (except for M6285A1005 and M6285A1013, which are fixed), auxiliary end shaft can accept Q628 valve linkage, and adapter bracket. There are 14 TRADELINE® Modutrol IV Motors covering the range of input signals and each of these can be configured to replace many other motors.

25 HZ

Motors marked 25 Hz were specifically designed to operate at a line or low voltage with 25 Hz instead of 50/60 Hz. Motors not specifically indicated are 50/60 Hz.

UL 555S SMOKE DAMPER RATED

These motors are rated with Underwriters Laboratory to apply to the UL 555S Smoke and Fire Damper Ratings, when used with dampers that are also rated for UL 555S, such as Honeywell D640SD Dampers.

UNIDIRECTIONAL DRIVE

Specifically, some competitive motors and Modutrol I M204 Motors are listed as Unidirectional Drive. This indicates the control circuit is a spdt, low voltage control circuit. On the initial call, the motor rotates clockwise through 180° of rotation. On the second call, the motor again rotates clockwise through the remaining 180° of rotation and stops at the starting position.

WEATHER KIT INSTALLED

This indicates the appropriate weatherproof kit was installed at the factory. Modutrol IV Motors are rated at NEMA 3 when mounted in an upright position (as shown in photographs). The addition of the weatherproof kit extends this rating to side and upside down mounting arrangements. In all cases, the motor *must* be mounted with the shaft horizontal to maintain normal motor life. Motors previous to Modutrol IV are not NEMA rated and, therefore, require a weatherproof kit for any mounting orientation that requires a NEMA 3 rating.

MODUTROL MOTOR CROSS REFERENCE

MODUTROL II, III TO MODUTROL IV

INTRODUCTION
Modutrol II and III Motors to Modutrol IV

This section cross references motors produced by Honeywell previous to producing Modutrol IV Motors. This section includes the following Modutrol II and III Motors: M445, M465, M644, M734, M741, M745, M745, M765, M845, M865, M931, M934, M941, M944, M945, M954, M955, M965, and M975.

Please refer to the Application Notes section for specific comments.

CROSS REFERENCE FORMAT
LEFT PAGES

Information contained in individual rows refers to the motor listed in the OS # To Be Replaced column unless otherwise noted in the Comments column. Following is an example of the format used in this section:

	Single Shaft		Dual Shaft		
OS # To Be Replaced	Without Wiring Box	With Wiring Box	Without Adapter	With Adapter	Other Motors (Specify)
1	2	3	4	5	6

(1) Lists the original motor to be replaced.
(2) Lists the Modutrol IV Replacement Motor, which is single shaft and does not include a wiring box.
(3) Lists the Modutrol IV Replacement Motor, which is single shaft and does include a wiring box.
(4) Lists the Modutrol IV Replacement Motor, which is dual shaft, and does include a wiring box but not a 220738A Adapter Bracket. NDR in this column means no direct replacement.
(5) Lists the Modutrol IV Replacement Motor, which is dual shaft, and does include a wiring box and a 220738A Adapter Bracket. NDR in this column means no direct replacement.
(6) Indicates which other Modutrol IV Motors can replace the original motor. The parenthetical information provides an explanation of the differences.

RIGHT PAGES

Information contained in individual rows refer to the motor listed in the OS # To Be Replaced column unless otherwise noted in the Comments column. Following is an example of the format used in this section:

OS # To Be Replaced	Volt (volts)	Torq (lb-in.)	Stroke (degrees)	Timing (sec)	Aux Sw	Control Signal	Customer Special	Comments
1	2	3	4	5	6	7	8	9

(1) Lists the original motor to be replaced.
(2) Lists the voltage of the original motor.
(3) Lists the torque rating of the original motor.
(4) Lists the full stroke rotation of the motor (closed to open) in angular degrees. Two strokes with a "-" indicate range of adjustment available in the field.
(5) Lists the timing of the motor. If two adjustable strokes is listed, the time refers to a 160° stroke.
(6) Lists number of auxiliary switches, if any, in the original motor.
(7) New Column: lists the control signal of the original motor. This listing either indicates an actual value or a Series approach. For further description of the control signals contained in this column, refer to the Application Notes section.
(8) Customer Special indicates whether the original motor was designed for a specific customer. In most cases, it is best to obtain replacements through the specified OEM, for the best operation of the equipment.
(9) Comments listed in this column provide additional information to consider when replacing the original motor. Please consider differences carefully.

OS# TO BE REPLACED	Single Shaft		Dual Shaft		OTHER MOTORS (SPECIFY)
	Without Wiring Box	With Wiring Box	Without Adapter	With Adapter	
MODUTROL II AND III					
M445A1000		M4182B1002	M4185B1033	M4185B1009	M4182B1069 (Weather)
M445A1018		M4182B1002	M4185B1033	M4185B1009	M4182B1069 (Weather)
M445A1026		M4182B1010		M4185B1017	
M445A1034		M4182B1010		M4185B1017	
M445A1042		M4182B1010		M4185B1017	
M445A1059		M4182B1010		M4185B1017	
M445A1067		M4182B1028			
M445A1075				NDR	
M445A1091		M4182B1002	M4185B1033	M4185B1009	M4182B1069 (Weather)
M445A1109		M4182B1002	M4185B1033	M4185B1009	M4182B1069 (Weather)
M445A1117		M4182B1036		M4185B1058	M4182B1051 (Weather)
M445A1125				NDR	
M445A4004				NDR	
M445C1008		M4182B1002	M4185B1033	M4185B1009	M4182B1069 (Weather)
M445C1016		M4182B1002	M4185B1033	M4185B1009	M4182B1069 (Weather)
M445C1024		M4182B1002	M4185B1033	M4185B1009	M4182B1069 (Weather)
M445D1007		M4182A1004	M4185A1027	M4185A1001	
M445D1015		M4182B1036		M4185B1058	M4182B1051 (Weather)
M445D1023		M4182B1028			
M445D1031		M4182B1010		M4185B1017	
M445D1049			NDR		
M445D1056		M4182A1004	M4185A1027	M4185A1001	
M465A1008		M4182A1004	M4185A1027	M4185A1001	
M465B1007				NDR	
M644A1008	M6181A1000	M6181A1018	M6184A1007	M6184D1035	
M644A1016	M6181A1000	M6181A1018	M6184A1007	M6184D1035	
M644A1024		M6181A1026		M6184A1015	
M644A1032				NDR	
M644A1107				NDR	
M644A1115				NDR	
M644A1149				NDR	
M644A1180	M6181A1000	M6181A1059	M6184A1007	M6184D1035	
M644B1007		M6181A1034	M6184A1049	M6184A1023	
M644B1015				NDR	
M644B1031				NDR	
M644B1049		M6181A1034	M6184A1049	M6184A1023	
M644B1056			M6194A1005		
M644C1006			M6184D1050	M6184D1001	
M644C1014		M6191D1002		M6194D1017	M6184D1068 (150 lb.-in.)
M644C1022				NDR	
M644C1030		M6191D1002		M6194D1017	M6184D1068 (150 lb.-in.)
M644C1055		M6191D1002	M6194D1025	M6194D1017	M6184D1068 (150 lb.-in.)
M644C1063				NDR	

OS# TO BE REPLACED	VOLT (volts)	TORQ. (lb-in.)	STROKE (degrees)	TIMING (sec)	AUX SW	CONTROL SIGNAL	CUSTOMER SPECIAL	COMMENTS (Refer also to Application Notes)
MODUTROL II AND III								
M445A1000	120	50	160	60	1	Series 40		
M445A1018	120	50	160	60	1	Series 40		
M445A1026	208	50	160	60	1	Series 40		
M445A1034	208	50	160	60	1	Series 40		
M445A1042	208/240	50	160	60	1	Series 40		
M445A1059	240	50	160	60	1	Series 40		
M445A1067	220	50	160	60	1	Series 40		
M445A1075	120	50	60	25	1	Series 40		
M445A1091	120	50	160	60	1	Series 40		
M445A1109	120	50	160	60	1	Series 40		
M445A1117	120	50	90	30	1	Series 40		
M445A1125	120	50	90	15	1	Series 40		
M445A4004	120	50	90/160	30/60	1	Series 40	Canada	Set aux switch to 120°
M445C1008	120	50	160	60	1	Series 40		
M445C1016	120	50	160	60	1	Series 40		Set aux switch to 155°
M445C1024	120	50	160	60	1	Series 40		
M445D1007	120	50	160	60		Series 40		
M445D1015	120	50	90	30		Series 40		
M445D1023	220	50	160	60		Series 40		
M445D1031	240	50	160	60		Series 40		
M445D1049	120	50	180	67		Series 40		
M445D1056	120	50	160	60		Series 40		Moisture/fungus treated
M465A1008	120	25	160	40		Series 40		
M465B1007	120	25	160	60	2	Series 40		
M644A1008	24	150	160	60		Series 61		
M644A1016	24	150	160	60		Series 61		
M644A1024	24	150	90	30		Series 61		
M644A1032	24	37	160	15		Series 61		
M644A1107	24	37	335	15		Series 61		
M644A1115	24	37	335	30		Series 61		
M644A1149	220	150	160	60		Series 61		
M644A1180	24	150	160	60		Series 61	Carrier	
M644B1007	120	75	160	30		Series 61		
M644B1015	120	37	160	15		Series 61		
M644B1031	120	150	90	120		Series 61		
M644B1049	120	75	160	30		Series 61		
M644B1056	120	150	90	120		Series 61		
M644C1006	24	75	90/160	15/30		Series 61		
M644C1014	24	150	90/160	120/240		Series 61		300 lb.-in.
M644C1022	120	150	90/160	120/240		Series 61		300 lb.-in.
M644C1030	24	150	90/160	120/240		Series 61		300 lb.-in.
M644C1055	24	150	90/160	120/240		Series 61	Lennox	300 lb.-in.
M644C1063	120	150	90/160	120/240		Series 61		

HONEYWELL MOD MOTOR CROSS REFERENCE

OS# TO BE REPLACED	Single Shaft		Dual Shaft		OTHER MOTORS (SPECIFY)
	Without Wiring Box	With Wiring Box	Without Adapter	With Adapter	
M644C1071		M6191D1010		M6194D1017	M6184D1068 (150 lb.-in.)
M644C4000		M6191D1002		M6194D1017	M6184D1068 (150 lb.-in.)
M644D1005		M6181F1009	M6184F1014		
M644D1013		M6181F1009	M6184F1014		
M644D1021		M6181F1009	M6184F1014		
M644D1039		M6181F1009	M6184F1014		
M644D1047			NDR		
M644E1004		M6181F1009	M6184F1014		
M644E1012		M6191B1006	M6194B1011		
M644E1020				NDR	
M644E1038				NDR	
M644E1053				M6194E1006	
M644F1003				NDR	
M644L1006				NDR	
M644L1014				NDR	
M644L1022			M6194B1029	M6194E1006	M6184B1005 (150 lb.-in.)
M644L1030			M6194B1037		
M734A1007				M7964A1001	
M734A1015				M7964A1001	
M734A1023				M7964A1001	
M734B1006				M7964B1009	
M734B1014				M7964B1009	
M734B1022				M7964B1009	
M734B1030				M7964B1017	
M734B1048				M7964B1017	
M734C1005				M7964C1015	
M734C1013				M7964C1007	
M734C1021				M7964C1007	
M734D1004				M7364A1007	
M734D1012				M7364A1015	
M734D1020				NDR	
M734D1038			M7364A1031	M7364A1023	
M734D1046				NDR	
M734D1053				NDR	
M734H1000		M7161G1009	M7164G1030		
M734H1018		M7161G1017			
M734H1026		M7161G1025			
M734H1034				NDR	
M734J1007				NDR	
M734J1015			NDR		
M734J1023			NDR	M7164A1017	
M734J1031				NDR	
M734J1049			NDR		
M734J1056				M7164A1017	
M734J1064		M7161A1002			
M734J1072		M7161B1018			

OS# TO BE REPLACED	VOLT (volts)	TORQ. (lb-in.)	STROKE (degrees)	TIMING (sec)	AUX SW	CONTROL SIGNAL	CUSTOMER SPECIAL	COMMENTS (Refer also to Application Notes)
M644C1071	24	150	90/160	120/240		Series 61	York	300 lb.-in.
M644C4000	24	150	90/160	120/240		Series 61	Canada	
M644D1005	24	150	90/160	30/60	2	Series 61		
M644D1013	24	150	90/160	30/60	2	Series 61		
M644D1021	24	150	90/160	30/60	2	Series 61		
M644D1039	24	150	90/160	30/60	2	Series 61		
M644D1047	24	150	90/160	120/240	2	Series 61	Lennox	300 lb.-in.
M644E1004	24	150	90/160	30/60	1	Series 61		Aux switch set to 4°
M644E1012	24	150	90	60	1	Series 61		
M644E1020	120	75	90/160	15/30	1	Series 61		Aux switch set to 4°
M644E1038	24	75	90/160	15/30	1	Series 61		Aux switch set to 40°
M644E1053	24	300	90/160	120/240	1	Series 61		
M644F1003	120	75	180	30		Series 61	Trane	
M644L1006	120	150	90	120	1	Series 61		
M644L1014	120	150	90	30	1	Series 61		
M644L1022	120	150	90	120	1	Series 61		
M644L1030	120	150	90	120	1	Series 61	Trane	Aux switch set to 7°
M734A1007	120	35	90	30		W936		
M734A1015	120	35	90	30		W936	Nesbitt	Nesbitt 430-2780, with mounting plate
M734A1023	120	35	90	30		W936	Nesbitt	Nesbitt 430-8469, less mounting plate
M734B1006	120	35	90	28		W936		Check voltage
M734B1014	240	35	90	28		W936		Check voltage
M734B1022	24	35	90	28		W936		
M734B1030	240	35	160	50		W936		Check voltage
M734B1048	120	35	160	50		W936		Check voltage
M734C1005	120	35	90	28		W936		
M734C1013	120	35	90	28		W936	Nesbitt	Nesbitt 430-8568, Molex plugs & plate
M734C1021	120	35	90	28		W936	Nesbitt	Nesbitt 430-5869, with Molex plugs
M734D1004	120	35	160	50		W936		
M734D1012	120	35	90	28		W936		
M734D1020	240	35	160	50		W936		
M734D1038	24	35	160	50		W936	Liebert	
M734D1046	24	35	90	28	1	W936		
M734D1053	24	35	160	50	1	W936		
M734H1000	120	35	90	28		10.5-13.5 V		Electrically N.O.
M734H1018	120	35	90	28		4-7 Vdc		Electrically N.O.
M734H1026	24	35	160	50		4-7 Vdc		Electrically N.O.
M734H1034	24	35	90	30		10.5-13.5 V		Electrically N.O.
M734J1007	120	35	160	50		6-9 Vdc		
M734J1015	24	35	160	50		4-7 Vdc		
M734J1023	24	35	90	30		10.5-13.5 V	Lennox	
M734J1031	120	35	90	30		10.5-13.5 V	York	
M734J1049	24	35	160	50		10.5-13.5 V	Lennox	
M734J1056	24	35	90	30		10.5-13.5 V		
M734J1064	120	35	90	30		6-9 Vdc		
M734J1072	120	35	160	50	1	4-7 Vdc		

HONEYWELL MOD MOTOR CROSS REFERENCE

OS# TO BE REPLACED	Single Shaft		Dual Shaft		OTHER MOTORS (SPECIFY)
	Without Wiring Box	With Wiring Box	Without Adapter	With Adapter	
M734K1006			NDR		
M734K1014			NDR		
M741B1001			M7484A1002		
M741B1019				M7484A1010	
M744A1006			M7384A1029		
M744A1014				M7384A1011	
M744A1022				NDR	
M744D1003				NDR	
M744D1011				NDR	
M744D1029			NDR		
M744D1037				NDR	
M744D1045			M7184A1013		
M744E1002				NDR	
M744F1001				NDR	
M744G1000			NDR		
M744J1006			NDR		
M744S1005		M7281A1007	M7284A1046	M7284A1004	
M744S1013			M7284A1020	M7284A1012	
M744T1004			M7284C1026	M7284C1000	
M744T1012				M7284C1018	
M744Y1009		M7281Q1002		M7284Q1009	
M744Y1017				M7284Q1017	
M745A1003				NDR	
M745A1011			M7385A1044	M7385A1010	
M745A1029			NDR		
M745B1002				NDR	
M745C1001				NDR	
M745E1009				NDR	
M745F1008				NDR	
M745G1007				M7186G1000	
M745H1006		M7682A1010		M7685A1009	
M745J1003			M7985D1000		
M745K1002			M7685G1006		
M745L1001				NDR	
M745L1019			NDR		
M745L1027		M7682A1010		M7685A1009	
M745L1035				NDR	
M745L1043			M7685A1025		
M745M1000				NDR	
M745M1018				NDR	
M745M1026				NDR	
M745M1034				NDR	
M745M1042				NDR	
M745N1009				NDR	
M745N1017				NDR	
M745N1025				NDR	

OS# TO BE REPLACED	VOLT (volts)	TORQ. (lb-in.)	STROKE (degrees)	TIMING (sec)	AUX SW	CONTROL SIGNAL	CUSTOMER SPECIAL	COMMENTS (Refer also to Application Notes)
M734K1006	120	35	160	50		4-7 Vdc, 3w	Micronik	11Vdc output, Elect N.O.
M734K1014	24	35	160	50		4-7 Vdc, 3w	Micronik	11Vdc output, Elect N.O.
M741B1001	24	150	90	30		BRCS	Cleaver Brooks	
M741B1019	24	150	90	30		BRCS		BRCS
M744A1006	24	150	160	60		W936		
M744A1014	24	150	90	30		W936		
M744A1022	120	150	90	30		W936	Westinghouse	
M744D1003	24	150	160	60		4-7 Vdc		For use with W7080 systems
M744D1011	24	150	160	60		4-7 Vdc		For use with W7080 systems
M744D1029	24	150	90	30		0.8-3.3 Vdc		
M744D1037	24	150	90	120		0.8-3.3 Vdc	Despatch Ind.	
M744D1045	120	150	90	30		0.8-3.3 Vdc		
M744E1002	24	50	160	60		2-10 Vdc	Micronik	With external override
M744F1001	24	150	160	60		W936		Includes internal heater
M744G1000	24	150	160	60		4-7 Vdc, 3w	Micronik	11Vdc output, Elect N.O.
M744J1006	24	150	90	30		0-2.5 Vdc		0 to 2.5 Vdc with zero adjustment
M744S1005	120	150	90	30		4-20 mA		
M744S1013	120	150	160	60		4-20 mA		
M744T1004	120	150	90	30	2	4-20 mA		
M744T1012	120	150	160	60	2	4-20 mA		
M744Y1009	120	150	90	30	2	4-20 mA		Includs adjustable zero and span
M744Y1017	120	150	160	60	2	4-20 mA		Includs adjustable zero and span
M745A1003	24	50	90	30		W936		
M745A1011	24	50	160	60		W936		
M745A1029	120	50	160	60		W936		
M745B1002	24	50	160	60		W936		Mechanically and electrically N.O.
M745C1001	24	50	160	60		W936		
M745E1009	24	50	160	60		W936		Electrically N.C., Mechanically N.O.
M745F1008	24	50	160	60				Electrically N.O., Mechanically N.C.
M745G1007	24	50	160	60		4-7 Vdc		Mechanically and electrically N.O.
M745H1006	24	50	160	60		14-17 Vdc		
M745J1003	24	50	160	60		4-7 Vdc, 3w	Micronik	Micronik, 11Vdc output, elect. N.O.
M745K1002	24	50	90	35		14-17 Vdc	Lennox	Electrically N.O.
M745L1001	24	50	90	35		14-17 Vdc	Lennox	
M745L1019	120	50	160	60		14-17 Vdc	York	
M745L1027	24	50	160	60		14-17 Vdc		
M745L1035	24	50	90	35		14-17 Vdc	Lennox	
M745L1043	24	50	90	35		14-17 Vdc		
M745M1000	24	50	160	60		6-9 Vdc		Mechanically N.O.
M745M1018	24	50	90	35		10.5-13.5 V	Lennox	Mechanically N.O.
M745M1026	24	50	160	60		4-7 Vdc		Mechanically N.O.
M745M1034	24	50	160	60		4-7 Vdc	Lennox	Mechanically N.O.
M745M1042	24	50	160	60		4-7 Vdc		Mechanically N.O.
M745N1009	24	50	90	35		10.5-13.5 V	Lennox	Electrically N.O.
M745N1017	24	50	160	60		10.5-13.5 V	Mammoth	Electrically N.O.
M745N1025	24	50	160	60		6-9 Vdc		Electrically N.O.

HONEYWELL MOD MOTOR CROSS REFERENCE

OS# TO BE REPLACED	Single Shaft		Dual Shaft		OTHER MOTORS (SPECIFY)
	Without Wiring Box	With Wiring Box	Without Adapter	With Adapter	
M745P1007				M7185A1004	
M745P1015				NDR	
M745Q1006				NDR	
M745S1002		M7282A1006		M7285A1003	
M745S1010				M7285A1011	
M745T1001				M7285C1009	
M745T1019				M7285C1017	
M745Y1006				M7285Q1008	
M745Y1014				M7285Q1016	
M765A1001				NDR	
M765A1019				NDR	
M765K1000			M7675G1006		
M765L1009				NDR	
M765L1017			M7675A1001		
M765L1025			M7675A1019		
M765N1007				NDR	
M765N1015				NDR	
M765P1005				M7975E1009	
M765P1013				NDR	
M765Q1004				NDR	
M845A1001				NDR	
M845A1027		M4182B1010		M4185B1017	
M845A1035		M4182B1044		M4185B1058	
M845A1050			NDR		
M845A1068			M8185A1028		
M845A4005				NDR	
M845B1000				NDR	
M845B1018		M4182B1010		M4185B1017	
M845B1026		M4182B1028	M4185B1074		
M845C1009				M8185A1002	
M845D1008				NDR	
M845D1016		M4182A1004	M4185A1027	M4185A1001	
M845D1024				NDR	
M845E1007				M4186H1005	
M845E4001				NDR	
M865A1009				NDR	
M865B1008				NDR	
M934A1003				M9164A1013	
M934A1011				M9164A1021	
M934A1029				M9164A1070	
M934A1037				NDR	
M934A1045		M9161C1004		M9164C1001	
M934A1052					
M934A1060				NDR	
M934A1070				NDR	
M934A1086				M9164A1021	

OS# TO BE REPLACED	VOLT (volts)	TORQ. (lb-in.)	STROKE (degrees)	TIMING (sec)	AUX SW	CONTROL SIGNAL	CUSTOMER SPECIAL	COMMENTS (Refer also to Application Notes)
M745P1007	24	50	160	60		4-7 Vdc		
M745P1015	24	50	90	35		10.5-13.5 V		Lennox
M745Q1006	24	50	90	35				
M745S1002	120	50	90	30		4-20 mA		
M745S1010	120	50	160	60		4-20 mA		
M745T1001	120	50	90	30	2	4-20 mA		
M745T1019	120	50	160	60	2	4-20 mA		
M745Y1006	120	50	90	30	2	4-20 mA		Includs adjustable zero and span
M745Y1014	120	50	160	60	2	4-20 mA		Includs adjustable zero and span
M765A1001	24	25	160	40		W936		
M765A1019	24	25	90	25		W936		
M765K1000	24	25	90	25		14-17 Vdc		Use w/ W7080, Electrically N.O.
M765L1009	24	25	160	40		14-17 Vdc		Use with W7080 system
M765L1017	24	25	90	25		14-17 Vdc		Use with W7080 system
M765L1025	120	25	90	25		14-17 Vdc	Trane	Use with W7080 system
M765N1007	24	25	90	25		10.5-13.5V	Lennox	Electrically N.O.
M765N1015	24	25	160	40		10.5-13.5V	Lennox	Electrically N.O.
M765P1005	24	25	90	25		3-6 Vdc	McDonald's	
M765P1013	24	25	90	25		3-6 Vdc	York	
M765Q1004	24	25	90	25		0-1 mA	Nesbitt	
M845A1001	24	50	160	60	1	Series 80		
M845A1027	MULTI	50	160	60	1	Series 80		
M845A1035	MULTI	50	90	30	1	Series 80		
M845A1050	24	50	160	60	1	Series 80		UL 555S Smoke Damper Rated
M845A1068	24	50	160	60	1	Series 80		UL 555S Smoke Damper Rated
M845A4005	MULTI	50	90/160	30/60	1	Series 80	Canada	Aux switch set to 120°
M845B1000	24	50	160	60	1	Series 80		
M845B1018	120	50	160	60	1	Series 80		
M845B1026	220	50	160	60	1	Series 80		
M845C1009	24	50	160	60		Series 80		
M845D1008	24	50	160	60		Series 80	Univac	
M845D1016	120	50	160	60		Series 80	G.E.	
M845D1024	24	50	160	60		Series 80	Braden	
M845E1007	120	50	160	60	1	Series 80		Normally open
M845E4001	24/120	50	90/160	30/60	1	Series 80	Canada	
M865A1009	24	25	160	40		Series 80		
M865B1008	24	25	160	40	1	Series 80		
M934A1003	240	35	160	60		135Ω		
M934A1011	120	35	160	60		135Ω		
M934A1029	24	35	160	60		135Ω		
M934A1037	220	35	160	60		135Ω		
M934A1045	24	35	160	60	2	135Ω		
M934A1052	120	35	160	60	2	135Ω		
M934A1060	240	35	160	60	2	135Ω		
M934A1070	220	35	160	60	2	135Ω		
M934A1086	120	35	160	60		135Ω		

HONEYWELL MOD MOTOR CROSS REFERENCE

OS# TO BE REPLACED	Single Shaft		Dual Shaft		OTHER MOTORS (SPECIFY)
	Without Wiring Box	With Wiring Box	Without Adapter	With Adapter	
M934A1094			M9164C1050		
M934A1102				NDR	
M934A1128		M9161C1012	M9164C1068		
M934A1136		M9161A1024	M9164A1005		M9161A1040 (Weather)
M934A1144			M9164A1120		
M934A1169				M9164A1070	
M934A1193		M9161C1004		M9164C1001	
M934A1201				M9164A1013	
M934A1219				M9164A1021	
M934A1227		M9161A1016		M9164D1009	
M934A1235				NDR	
M934A1243		M9161C1004		M9164C1001	
M934A1250			M9164C1050		
M934A1268				NDR	
M934A1276				NDR	
M934A1284				M9164A1021	
M934A1292			M9164C1050		
M934A1300				NDR	
M934A1318		M9161C1012	M9164C1068		
M934A1326		M9161A1024	M9164A1005		M9161A1040 (Weather)
M934A1334			M9164A1120		
M934A1342				M9164A1070	
M934A1359		M9161C1004		M9164C1001	
M934A1367			M9164V1006		
M934A1375				NDR	
M934A1383				NDR	
M934A1391		M9161A1024	M9164A1005		M9161A1040 (Weather)
M934A1409			M9164A1120		
M934A1425				M9164A1070	
M934A1433				NDR	
M934A1441				M9164A1021	
M934A1458			M9164A1120		
M934A1466			M9164A1120		
M934A1474		M9161C1004		M9164C1001	
M934A1482			M9164C1050		
M934A1490			NDR		
M934A1508				NDR	
M934A1516		M9161C1012			
M934A1524				M9164A1070	
M934A1532				NDR	
M934A1540		M9161A1024	M9164A1005		M9161A1040 (Weather)
M934A1557				NDR	
M934A1565		M9161C1012			
M934A1573		M9161A1032			
M934A1599		M9161V1009	M9164V1022		
M934B1036			M6284F1005	M6284D1000	

OS# TO BE REPLACED	VOLT (volts)	TORQ. (lb-in.)	STROKE (degrees)	TIMING (sec)	AUX SW	CONTROL SIGNAL	CUSTOMER SPECIAL	COMMENTS (Refer also to Application Notes)
M934A1094	120	35	160	60	2	135Ω		
M934A1102	240	35	90	35		135Ω	York	
M934A1128	120	35	90	35	2	135Ω		
M934A1136	120	35	90	35		135Ω		
M934A1144	24	35	90	35		135Ω		
M934A1169	24	35	160	60		135Ω		
M934A1193	24	35	160	60	2	135Ω		
M934A1201	240	35	160	60		135Ω		
M934A1219	120	35	160	60		135Ω		
M934A1227	24	35	160	60		135Ω		
M934A1235	220	35	160	60		135Ω		
M934A1243	24	35	160	60	2	135Ω		
M934A1250	120	35	160	60	2	135Ω		
M934A1268	240	35	160	60	2	135Ω		
M934A1276	220	35	160	60	2	135Ω		
M934A1284	120	35	160	60		135Ω		
M934A1292	120	35	160	60	2	135Ω		
M934A1300	240	35	90	30		135Ω	York	
M934A1318	120	35	90	30	2	135Ω		
M934A1326	120	35	90	30		135Ω		
M934A1334	24	35	90	30		135Ω		
M934A1342	24	35	160	60		135Ω		
M934A1359	24	35	160	60	2	135Ω		
M934A1367	120	35	160	60		135Ω	Carrier	
M934A1375	240	35	160	60		135Ω	Carrier	
M934A1383	240	35	160	60		135Ω		For use with W899A systems
M934A1391	120	35	90	35		135Ω		
M934A1409	24	35	90	35		135Ω		
M934A1425	24	35	160	60		135Ω		For use with W899A, E, F systems
M934A1433	240	35	160	60	2	135Ω		For use with W899A systems
M934A1441	120	35	160	60		135Ω		For use with W899A systems
M934A1458	24	35	90	35		135Ω		
M934A1466	24	35	90	35		135Ω		
M934A1474	24	35	160	60	2	135Ω		
M934A1482	120	35	160	60	2	135Ω		
M934A1490	24	35	160	60		135Ω	Carrier	
M934A1508	240	35	160	60		135Ω		For use with W899A systems
M934A1516	120	35	90	35	1	135Ω		
M934A1524	24	35	160	60		135Ω		
M934A1532	240	35	90	35		135Ω		
M934A1540	120	35	90	35		135Ω	York	
M934A1557	208/240	35	160	60		135Ω	G.E.	
M934A1565	120	35	90	35	1	135Ω		
M934A1573	120	35	160	60		135Ω	Carrier	
M934A1599	24	35	160	60		135Ω	Carrier	
M934B1036	24	35	90	35		Series 62		No internal balance circuit

HONEYWELL MOD MOTOR CROSS REFERENCE

OS# TO BE REPLACED	Single Shaft		Dual Shaft		OTHER MOTORS (SPECIFY)
	Without Wiring Box	With Wiring Box	Without Adapter	With Adapter	
M934C1001		M9161A1024	M9164A1005		M9161A1040 (Weather)
M934D1000		M9171B1004	M9174B1043		
M934D1018			M9174C1033		
M934D1026		M9171B1012	M9174B1027		
M934D1034		M9171C1002	M9174C1025		
M934D1042			M9174C1041		
M934D1059			M9174B1035		
M934E1009				NDR	
M934E1017		M9171B1004	M9174B1043		
M934E1025		M9171B1012	M9174B1027		
M941A1008				M9484D1002	
M941A1016		M9481D1005	M9484D1051	M9484D1010	
M941A1024		M9491D1003		M9494D1000	
M941A1032			M9484D1044	M9484D1028	
M941A1040				NDR	
M941A1057				M9484D1036	
M941A1065				M9484D1002	
M941A1073		M9481D1005	M9484D1051	M9484D1010	
M941A1081		M9481D1005	M9484D1051	M9484D1010	
M941A1099		M9491D1003		M9494D1000	
M941A1107				NDR	
M941A4002		M9481D1005	M9484D1051	M9484D1010	
M941B1007			M6284F1005	M6284D1000	
M941B1015				NDR	
M941C1006			M9484E1116	M9484E1009	
M941C1014		M9481E1002	M9484E1090	M9484E1017	
M941C1022			M9484E1066	M9484E1025	
M941C1030			M9484E1074	M9484E1033	
M941C1048			M9484E1041	M9484E1033	
M941C1055			M9484E1066	M9484E1025	
M941C1063			M9484E1082	M9484E1058	
M941C1089				NDR	
M941C4000		M9481E1002	M9484E1090	M9484E1017	
M941C4018		M9481E1002	M9484E1090	M9484E1017	
M941D1005		M9481F1000	M9484F1072	M9484F1007	
M941D1013		M9481F1000	M9484F1015	M9484F1007	
M941D1021			M9484F1056	M9484F1023	
M941D1039			M9484F1064	M9484F1031	
M941D1047				M9484F1049	
M941D1054			M9484F1064	M9484F1031	
M941D1062			M9484F1064	M9484F1031	
M941D1070		M9481F1000	M9484F1072	M9484F1007	
M941D1112				NDR	
M941D4009			M9484F1056	M9484F1023	
M941D4017			M9484F1056	M9484F1023	
M941E1012				M9484D1002	

OS# TO BE REPLACED	VOLT (volts)	TORQ. (lb-in.)	STROKE (degrees)	TIMING (sec)	AUX SW	CONTROL SIGNAL	CUSTOMER SPECIAL	COMMENTS (Refer also to Application Notes)
M934C1001	120	35	90	35		135Ω	Nesbitt	
M934D1000	120	75	160	60	1	135Ω		
M934D1018	120	75	160	60	2	135Ω		
M934D1026	120	75	90	35	1	135Ω		
M934D1034	120	75	90	35	2	135Ω		
M934D1042	120	75	90	35	2	135Ω	Cleaver Brooks	
M934D1059	120	75	90	35	1	135Ω	Cleaver Brooks	
M934E1009	24	75	160	60		135Ω		
M934E1017	120	75	160	60		135Ω		
M934E1025	120	75	90	35		135Ω		
M941A1008	24	75	90/160	15/30		135Ω		160° ship position
M941A1016	24	150	90/160	30/60		135Ω		160° ship position, tapped aux shaft
M941A1024	24	150	90/160	60/120		135Ω		160° ship position
M941A1032	24	150	90/160	30/60		135Ω		90° ship position, tapped aux shaft
M941A1040	24	37	90/160	7.5/15		135Ω		Special timing
M941A1057	24	75	90/160	15/30		135Ω		90° ship position
M941A1065	24	75	90/160	15/30		135Ω	International	160° ship position
M941A1073	24	150	90/160	30/60		135Ω	International	90° ship position, tapped aux shaft
M941A1081	24	150	90/160	30/60		135Ω	International	160° ship position, tapped aux shaft
M941A1099	24	150	90/160	60/120		135Ω	International	90° ship position
M941A1107	24	37	90/160	7.5/15		135Ω		Special timing, 90° ship position
M941A4002	24	150	90/160	30/60		135Ω	Canada	Includes weather kit, tapped aux shaft
M941B1007	24	150	90/160	30/60		Series 62		No internal balance circuit
M941B1015	24	50	90/160	30/60		Series 62		No internal balance circuit
M941C1006	24	75	90/160	15/30	1	135Ω		160° ship position, tapped aux shaft
M941C1014	24	150	90/160	30/60	1	135Ω		160° ship position, tapped aux shaft
M941C1022	24	150	90/160	30/60	1	135Ω		90° ship position
M941C1030	24	150	90/160	30/60	1	135Ω		90° ship position, tapped aux shaft
M941C1048	24	150	90/160	30/60	1	135Ω		90° ship position
M941C1055	24	150	90/160	30/60	1	135Ω	International	90° ship position, tapped aux shaft
M941C1063	24	150	90/160	30/60	1	135Ω		90° ship position, tapped aux shaft
M941C1089	24	150	90/160	30/60	1	135Ω	Cleaver Brooks	Cleaver Brooks
M941C4000	24	150	90/160	30/60	1	135Ω	Canada	Screw term., weather kit, tapped shaft
M941C4018	24	150	90/160	30/60	1	135Ω	Canada	Screw term., weather kit, tapped shaft
M941D1005	24	150	90/160	30/60	2	135Ω		90° ship position
M941D1013	24	150	90/160	30/60	2	135Ω		90° ship position, tapped aux shaft
M941D1021	24	75	90/160	15/30	2	135Ω		160° ship position, tapped aux shaft
M941D1039	24	150	90/160	30/60	2	135Ω		90° ship position, tapped aux shaft
M941D1047	24	150	90/160	30/60	2	135Ω		160° ship position, tapped aux shaft
M941D1054	24	150	90/160	30/60	2	135Ω	International	90° ship position, tapped aux shaft
M941D1062	24	150	90/160	30/60	2	135Ω	International	120° ship position, tapped aux shaft
M941D1070	24	150	90/160	30/60	2	135Ω	Cleaver Brooks	Tapped aux shaft
M941D1112	120	300	90/160	60/120	2	135Ω		
M941D4009	24	150	90/160	30/60	2	135Ω	Canada	Screw term., weather kit, tapped shaft
M941D4017	24	75	90/160	15/30	2	135Ω	Canada	Screw term., weather kit, tapped shaft
M941E1012	24	75	160	30		135Ω	International	International

HONEYWELL MOD MOTOR CROSS REFERENCE

OS# TO BE REPLACED	Single Shaft		Dual Shaft		OTHER MOTORS (SPECIFY)
	Without Wiring Box	With Wiring Box	Without Adapter	With Adapter	
M941E1038		M9481D1005	M9484D1051	M9484D1010	
M941E1046		M9481D1005	M9484D1051	M9484D1010	
M941E1053				NDR	
M941E1061				NDR	
M943A1004				NDR	
M944A1002		M9181A1012	M9184A1001	M9184A1019	
M944A1010		M9181A1012	M9184A1001	M9184A1019	
M944A1028			M9184A1035		
M944A1036				NDR	
M944A1044				NDR	
M944A1051				M9184F1000	
M944A1069				M9184F1000	
M944A1119				NDR	
M944A1127				NDR	
M944A1150				M9194D1003	M9181D1024, M9184D1054 (150 lb-in)
M944A1168		M9181A1012	M9184A1001	M9184A1019	
M944A1176		M9181A1012	M9184A1001	M9184A1019	
M944A1192				M9184F1000	
M944B1001			M6284A1006	M6284D1000	
M944B1019			M6284A1006	M6284D1000	
M944B1027				NDR	
M944B1035				NDR	
M944B1043				NDR	
M944B1167			M6284A1006	M6284D1000	
M944B1175			M6284A1006	M6284D1000	
M944B1183				NDR	
M944B1191				M6294D1008	
M944B1209			M6284A1006	M6284D1000	
M944B1241				NDR	
M944B4005				NDR	
M944C1000				M9184D1005	
M944C1018				M9194D1003	M9181D1024, M9184D1054 (150 lb-in)
M944C1042				M9184D1013	
M944C1059				M9194E1000	
M944C4004				M9184D1013	
M944C4012				M9194D1003	M9181D1024, M9184D1054 (150 lb-in)
M944D1009				M9184F1000	
M944D1017				M9184F1000	
M944E1008				NDR	
M944E1016			M6284F1005	M6284F1013	
M944E1024			M6284F1005	M6284F1013	
M944E1032				NDR	
M944E1040			M6284F1005	M6284F1013	
M944E1057			M6284F1005	M6284F1013	
M944E1081		M6281F1016	M6284C1010		
M944E1099		M6281F1016			

OS# TO BE REPLACED	VOLT (volts)	TORQ. (lb-in.)	STROKE (degrees)	TIMING (sec)	AUX SW	CONTROL SIGNAL	CUSTOMER SPECIAL	COMMENTS (Refer also to Application Notes)
M941E1038	24	150	160	60		135Ω	International	International
M941E1046	24	150	160	60		135Ω	International	International
M941E1053	24	150	90	60		135Ω	International	International
M941E1061	24	75	90	60		135Ω	International	MAT nameplate
M943A1004	24	40	240	90	2	135Ω	Singer	Singer,
M944A1002	24	150	160	60		135Ω		
M944A1010	24	150	160	60		135Ω		
M944A1028	24	150	90	30		135Ω		
M944A1036	24	37	160	15		135Ω		
M944A1044	24	37	310	15		135Ω		
M944A1051	24	75	90	30		135Ω	Univac	
M944A1069	120	75	90	30		135Ω		
M944A1119	24	37	335	15		135Ω		Special stroke
M944A1127	24	75	335	30		135Ω		Special stroke
M944A1150	24	150	160	120		135Ω	Chrysler	
M944A1168	24	150	160	60		135Ω		
M944A1176	24	150	160	60		135Ω		
M944A1192	24	75	90	30		135Ω	Nesbitt	
M944B1001	24	150	160	60		Series 62		No internal balance circuit
M944B1019	24	150	160	60		Series 62		No internal balance circuit
M944B1027	24	37	160	15		Series 62		No internal balance circuit
M944B1035	24	150	160	240		Series 62		No internal balance circuit
M944B1043	24	75	90	30		Series 62		No internal balance circuit
M944B1167	24	150	160	60		Series 62		No internal balance circuit
M944B1175	24	150	160	60		Series 62		No internal balance circuit
M944B1183	24	37	160	15		Series 62		No internal balance circuit
M944B1191	24	150	160	240		Series 62		No internal balance circuit, 300 lb.-in.
M944B1209	24	150	160	60		Series 62		No internal balance circuit
M944B1241	24	150	160	240	1	Series 62		No internal balance circuit
M944B4005	24	75	90/160	15/30		Series 62	Canada	No internal balance circuit
M944C1000	24	75	90/160	15/30		135Ω		
M944C1018	24	150	90/160	120/240		135Ω		300 lb.-in.
M944C1042	24	150	90/160	30/60		135Ω		
M944C1059	24	150	90/160	120/240	1	135Ω		300 lb.-in.
M944C4004	24	150	90/160	30/60		135Ω	Canada	
M944C4012	24	150	90/160	120/240		135Ω	Canada	
M944D1009	24	150	90/160	30/60	2	135Ω		
M944D1017	24	150	90/160	30/60	2	135Ω		
M944E1008	24	75	90/160	15/30	2	Series 62		No internal balance circuit
M944E1016	24	150	90/160	30/60	2	Series 62		No internal balance circuit
M944E1024	24	150	90/160	30/60	2	Series 62		No internal balance circuit
M944E1032	24	75	90/160	15/30	2	Series 62		No internal balance circuit
M944E1040	24	150	90/160	30/60	2	Series 62		No internal balance circuit
M944E1057	24	150	90/160	30/60	2	Series 62		No internal balance circuit
M944E1081	24	150	90	30	2	Series 62		No internal balance circuit
M944E1099	24	150	90	30	2	Series 62		No internal balance circuit

HONEYWELL MOD MOTOR CROSS REFERENCE

OS# TO BE REPLACED	Single Shaft		Dual Shaft		OTHER MOTORS (SPECIFY)
	Without Wiring Box	With Wiring Box	Without Adapter	With Adapter	
M944F1007		M9181A1012	M9184A1001	M9184A1019	
M944G1006		M6281F1008	M6284F1005	M6284F1013	
M944G1014		M6281F1008	M6284F1005	M6284F1013	
M944G1022			M6284A1048		M6284A1063 (IACD)
M944G1030			M6284A1055		M6284A1071 (IACD)
M944G1048			M6284A1048		M6284A1063 (IACD)
M944G1055				NDR	
M944G1063			M6284A1048		M6284A1063 (IACD)
M944G1071			M6284A1055		M6284A1071 (IACD)
M944G1089			M6284A1048		M6284A1063 (IACD)
M944G1097			M6284A1055		M6284A1071 (IACD)
M944G1105			M6294A1004		
M944G1121			M6294B1010		
M944H1013		M6281F1016	M6284A1048		
M944H1021		M6281F1016	M6284A1048		
M944H1039		M6281F1016	M6284A1048		
M944H1047		M6281F1016	M6284A1048		
M944H1062			M6284B1004		
M944J1002			M6284A1006	M6284D1000	
M944J1051			M6284A1006	M6284D1000	
M944K1001		M6281F1016			
M944K1019		M6281F1016			
M944L1018				NDR	
M944N1024				NDR	
M944N1032				NDR	
M944N1040				NDR	
M944N1057				NDR	
M944N1065				NDR	
M944N1073				NDR	
M944N1081				NDR	
M944P1014				NDR	
M944P1022				NDR	
M944P1030				NDR	
M944P1048				NDR	
M944R1012				NDR	
M944R1020				NDR	
M944S1001				NDR	
M944S1019		M6281F1016			
M944S1027		M6281F1016			
M945A1009		M9182A1011	M9185A1000	M9185A1018	M9182A1052 (Weather)
M945A1017		M9182A1011	M9185A1000	M9185A1018	M9182A1052 (Weather)
M945A1025		M9182A1011	M9185A1000	M9185A1018	M9182A1052 (Weather)
M945A1033		M9182A1011	M9185A1000	M9185A1018	M9182A1052 (Weather)
M945A1066		M9182A1011	M9185A1000	M9185A1018	M9182A1052 (Weather)
M945A1074		M9182A1029		M9185A1026	
M945A1082		M9182A1029		M9185A1026	

OS# TO BE REPLACED	VOLT (volts)	TORQ. (lb-in.)	STROKE (degrees)	TIMING (sec)	AUX SW	CONTROL SIGNAL	CUSTOMER SPECIAL	COMMENTS (Refer also to Application Notes)
M944F1007	24	150	160	60		135Ω		Use Q181 for slaved motor appl'ns
M944G1006	24	150	160	60	2	Series 62		No internal balance circuit
M944G1014	24	150	160	60	2	Series 62		No internal balance circuit
M944G1022	120	150	160	60		Series 62		No int. bal. cir., change to 24 V control
M944G1030	120	150	90	30		Series 62		No int. bal. cir., change to 24 V control
M944G1048	120	150	160	60		Series 62		No int. bal. cir., change to 24 V control
M944G1055	120	150	160	240		Series 62		No internal balance circuit
M944G1063	120	150	160	60		Series 62		No int. bal. cir., change to 24 V control
M944G1071	120	150	90	30		Series 62		No int. bal. cir., change to 24 V control
M944G1089	120	150	160	60		Series 62		No int. bal. cir., change to 24 V control
M944G1097	120	150	90	30		Series 62		No int. bal. cir., change to 24 V control
M944G1105	120	150	160	240		Series 62		No internal balance circuit, 300 lb.-in.
M944G1121	120	150	160	240	1	Series 62		No internal balance circuit, 300 lb.-in.
M944H1013	120	150	160	60	1	Series 62		No int. bal. cir., change to 24 V control
M944H1021	120	150	160	60	1	Series 62		No int. bal. cir., change to 24 V control
M944H1039	120	150	160	60	1	Series 62	York	No int. bal. cir., change to 24 V control
M944H1047	120	150	160	60	1	Series 62		No int. bal. cir., change to 24 V control
M944H1062	120	150	160	240	1	Series 62	Trane	No internal balance circuit
M944J1002	24	150	160	60		Series 62		No internal balance circuit
M944J1051	24	150	160	60		Series 62		No internal balance circuit
M944K1001	120	150	160	60	2	Series 62		No int. bal. cir., change to 24 V control
M944K1019	120	150	160	60	2	Series 62		No int. bal. cir., change to 24 V control
M944L1018	120	150	90/160	120/240		135Ω		
M944N1024	24	75	160	30	1	135Ω		Tapped aux shaft
M944N1032	24	150	90	30	1	135Ω		Tapped aux shaft
M944N1040	24	150	90	30	1	135Ω		Tapped aux shaft
M944N1057	24	150	160	60	1	135Ω		Tapped aux shaft
M944N1065	24	75	160	30	1	135Ω		Tapped aux shaft
M944N1073	24	150	90	30	1	135Ω		Tapped aux shaft
M944N1081	24	150	90	30	1	135Ω		Tapped aux shaft
M944P1014	24	150	90	30	2	135Ω		Tapped aux shaft
M944P1022	24	150	90	30	2	135Ω		Tapped aux shaft
M944P1030	24	150	90	30	2	135Ω		Tapped aux shaft
M944P1048	24	150	90	30	2	135Ω		Tapped aux shaft
M944R1012	120	150	160	120	1	Series 62	Carrier	
M944R1020	120	150	160	120	2	Series 62	Carrier	
M944S1001	120	75	90/160	15/30	2	Series 62		No internal balance circuit
M944S1019	120	150	90/160	30/60	2	Series 62		No internal balance circuit
M944S1027	120	150	90/160	30/60	2	Series 62		No internal balance circuit
M945A1009	24	50	160	60		135Ω		
M945A1017	24	50	160	60		135Ω		
M945A1025	24	50	160	60		135Ω		Less power supply cord
M945A1033	24	50	160	60		135Ω		Less power supply cord
M945A1066	24	50	160	60		135Ω		For use with W899B systems
M945A1074	24	50	90	35		135Ω		For use with W899B systems
M945A1082	24	50	90	35		135Ω		

HONEYWELL MOD MOTOR CROSS REFERENCE

OS# TO BE REPLACED	Single Shaft		Dual Shaft		OTHER MOTORS (SPECIFY)
	Without Wiring Box	With Wiring Box	Without Adapter	With Adapter	
M945A1090		M9182D1015	M9185D1012	M9185D1004	
M945A1108		M9182A1011	M9185A1000	M9185A1018	M9182A1052 (Weather)
M945A1116		M9182A1029		M9185A1026	
M945A1124		M9182A1029		M9185A1026	
M945A1157		M9182D1015	M9185D1012	M9185D1004	
M945A4003		M9182D1015	M9185D1012	M9185D1004	
M945AA1007				NDR	
M945AB1005				NDR	
M945AB1013				NDR	
M945AD1001		M6282A1024	M6285A1039		
M945B1057				M6285A1005	
M945B1065				M6285A1013	
M945B1073				NDR	
M945B1081				NDR	
M945B1115		M6282A1016	M6285A1021		
M945B4002				M6285A1005	
M945C1007				M6285C1001	
M945C1015				M6285C1001	
M945C1031			NDR		
M945D1006		M9182C1009		M9185C1006	
M945D1030				NDR	
M945D1048				NDR	
M945E1005		M9182A1011	M9185A1000	M9185A1018	M9182A1052 (Weather)
M945E1013		M9182A1011	M9185A1000	M9185A1018	M9182A1052 (Weather)
M945F1004		M9183G1009		M9186G1006	
M945F1038		M9183G1009		M9186G1006	
M945F1046				NDR	
M945F1053		M9183G1009		M9186G1006	
M945F4008		M9183G1009		M9186G1006	
M945G1003				M6286G1001	
M945G1037				M6286G1001	
M945G1045				NDR	
M945H1002		M9182C1009		M9185C1006	
M945H1010		M9182C1009		M9185C1006	
M945J1009		M9182C1009		M9185C1006	
M945J1017		M9182C1009		M9185C1006	
M945J1025				NDR	
M945J1033				NDR	
M945K1008				M6285C1001	
M945K1016				M6285C1001	
M945L1007				M6285A1005	
M945L1015				M6285A1005	
M945M1006				NDR	
M945M1022				NDR	
M945M1030		M9182A1011	M9185A1000	M9185A1018	M9182A1052 (Weather)
M945M1048		M9182A1011	M9185A1000	M9185A1018	M9182A1052 (Weather)

OS# TO BE REPLACED	VOLT (volts)	TORQ. (lb-in.)	STROKE (degrees)	TIMING (sec)	AUX SW	CONTROL SIGNAL	CUSTOMER SPECIAL	COMMENTS (Refer also to Application Notes)
M945A1090	24	50	160	60		135Ω		
M945A1108	24	50	160	60		135Ω	York	
M945A1116	24	50	90	35		135Ω	York	
M945A1124	24	50	90	35		135Ω	Nesbitt	
M945A1157	24	50	90/160	30/60		135Ω		
M945A4003	24	50	90/160	30/60		135Ω	Canada	
M945AA1007	24	50	90	60	2		Nesbitt	Normally open
M945AB1005	24	50	90	60	1		Nesbitt	
M945AB1013	24	50	90	60	1		Nesbitt	
M945AD1001	24	25	90	60		Series 62		No internal balance circuit
M945B1057	24	50	160	60		Series 62		No internal balance circuit
M945B1065	24	50	90	30		Series 62		No internal balance circuit
M945B1073	24	50	90	30		Series 62	Nesbitt	Nesbitt, Contains 1K potentiometer
M945B1081	24	50	160	60		Series 62	Nesbitt	Nesbitt, Contains 1.8K-ohm pot
M945B1115	120	50	90	30		Series 62	Trane	No internal balance circuit
M945B4002	24	50	160	60		Series 62	Canada	No internal balance circuit
M945C1007	24	50	160	60	2	Series 62		No internal balance circuit
M945C1015	24	50	160	60	2	Series 62		No internal balance circuit
M945C1031	24	50	90	30	1	Series 62		No internal balance circuit
M945D1006	24	50	160	60	2	135Ω		
M945D1030	24	50	160	60	2	135Ω		U.L. 555S smoke rated w/ D640SD
M945D1048	24	50	160	60	2	135Ω		U.L. 555S smoke rated w/ D640SD
M945E1005	24	50	160	60		135Ω		Add Q181 for slaved motor applications
M945E1013	24	50	160	60		135Ω		Add Q181 for slaved motor applications
M945F1004	24	50	160	60		135Ω		Normally Open
M945F1038	24	50	160	60		135Ω		For use with W899M systems, N.O.
M945F1046	208	50	160	60		135Ω		Normally Open
M945F1053	24	50	160	60		135Ω	York	Normally Open
M945F4008	24	50	160	60		135Ω	Canada	Normally Open
M945G1003	24	50	160	60		Series 62		No internal balance circuit, N. O.
M945G1037	24	50	160	60		Series 62		No internal balance circuit, N. O.
M945G1045	24	50	160	60		Series 62		Contains 1.8K-ohm Feedback Pot
M945H1002	24	50	160	60	2	135Ω		Includes internal heater
M945H1010	24	50	160	60	1	135Ω		
M945J1009	24	50	160	60	1	135Ω		Less power supply cord
M945J1017	24	50	160	60	2	135Ω		
M945J1025	120	50	160	60	2	135Ω		
M945J1033	24	50	160	60	2	Series 62		No internal balance circuit
M945K1008	24	50	160	60	2	Series 62		No internal balance circuit
M945K1016	24	50	160	60	2	Series 62		No internal balance circuit
M945L1007	24	50	160	60		Series 62		No internal balance circuit
M945L1015	24	50	160	60		Series 62		No internal balance circuit
M945M1006	208/240	50	160	60		135Ω	G.E.	
M945M1022	24	50	160	60		135Ω		Use with W899C systems
M945M1030	24	50	160	60		135Ω		Use with W899C systems
M945M1048	24	50	160	60		135Ω		Add Q181 for slaved motor applications

HONEYWELL MOD MOTOR CROSS REFERENCE

OS# TO BE REPLACED	Single Shaft		Dual Shaft		OTHER MOTORS (SPECIFY)
	Without Wiring Box	With Wiring Box	Without Adapter	With Adapter	
M945Y1002				NDR	
M945Y1010				NDR	
M945Z1001				NDR	
M945Z1019				NDR	
M954A1001				M9184D1021	
M954A1019				M9184D1021	
M954A1027				M9184D1021	
M954A1035				M9184D1021	
M954B1000				NDR	
M954B1018			M9184C1031		
M954B1026			M9184C1031		
M954B1034			M9184C1031		
M954B1042				NDR	
M954B1059				NDR	
M954B1067				NDR	
M954B1075			M9184C1023		M9184C1049 (120 Vac)
M954C1009				NDR	
M954C1017				NDR	
M954C1025				NDR	
M954C1033				NDR	
M954C1041				NDR	
M954C1058				NDR	
M954C1066		M9181B1002	M9184B1017		M9184B1041 (Weather)
M954C1074			M9184B1033		
M954C1082			M9184B1009		M9184B1025 (120 Vac)
M954C4003				NDR	
M954D1008				NDR	
M954D1016				NDR	
M954G1052			NDR		
M955A1008		M9182D1015	M9185D1012	M9185D1004	
M955A1016		M9182D1015	M9185D1012	M9185D1004	
M955A1024		M9182D1015	M9185D1012	M9185D1004	
M955A1032		M9182D1015	M9185D1012	M9185D1004	
M955B1007				NDR	
M955C1006			M9185E1019		
M955C1014			M9185E1019		
M955C4000			M9185E1019		
M955D1005		M9182A1011	M9185A1000	M9185A1018	M9182A1052 (Weather)
M955D1013		M9182A1029		M9185A1026	
M955D1039		M9182A1037			
M955D1047		M9182A1029		M9185A1026	
M955D1054		M9182A1060			
M955E1004			NDR		
M955E1012		M9182W1002			
M965A1007				M9175D1014	
M965A1015				NDR	

OS# TO BE REPLACED	VOLT (volts)	TORQ. (lb-in.)	STROKE (degrees)	TIMING (sec)	AUX SW	CONTROL SIGNAL	CUSTOMER SPECIAL	COMMENTS (Refer also to Application Notes)
M945Y1002	24	50	90	60		135Ω	Nesbitt	
M945Y1010	24	50	160	60	2	135Ω		Normally Open
M945Z1001	208/240	50	160	60		135Ω		Normally Open
M945Z1019	24	150	90/160	30/60		135Ω		
M954A1001	24	150	90/160	30/60		135Ω		
M954A1019	24	150	90/160	30/60		135Ω		
M954A1027	24	150	90/160	30/60		135Ω		
M954A1035	24	150	160	60	2	135Ω		
M954B1000	24	150	90	30	2	135Ω		
M954B1018	24	150	90	30	2	135Ω		
M954B1026	24	150	90	30	2	135Ω		
M954B1034	24	150	90	30	2	135Ω		
M954B1042	120	75	160	30	2	135Ω		
M954B1059	24	150	160	60	2	135Ω		
M954B1067	24	150	90	30	2	135Ω	Cleaver Brooks	
M954B1075	24	75	160	30	1	135Ω		
M954C1009	24	150	90	30	1	135Ω		
M954C1017	24	150	90	30	1	135Ω		
M954C1025	24	150	160	60	1	135Ω		
M954C1033	24	75	160	30	1	135Ω		
M954C1041	24	150	90	30	1	135Ω		
M954C1058	24	150	90	30	1	135Ω		
M954C1066	24	150	160	60	1	135Ω		
M954C1074	24	75	90	30	1	135Ω	Cleaver Brooks	Cleaver Brooks
M954C1082	24	150	90/160	30/60	1	135Ω	Canada	Aux switch set to 120°
M954C4003	24	150	90/160	30/60	2	135Ω		
M954D1008	24	150	90/160	30/60	2	135Ω		
M954D1016	220	50	160	60		Series 62	IBM	N.O., 100K-ohm pot.
M945G1052	24	50	160	60	2	135Ω		Includes internal heater
M955A1008	24	50	90/160	30/60		135Ω		
M955A1016	24	50	90/160	30/60		135Ω		
M955A1024	24	50	90/160	30/60		135Ω		
M955A1032	24	50	90/160	30/60		135Ω		
M955B1007	24	50	90/160	30/60	2	135Ω		
M955C1006	24	50	90/160	30/60	1	135Ω		
M955C1014	24	50	90/160	30/60	1	135Ω		
M955C4000	24	50	90/160	30/60	1	135Ω	Canada	Tapped aux shaft
M955D1005	24	50	160	60		135Ω		
M955D1013	24	50	90	30		135Ω		
M955D1039	120	50	90	30		135Ω		
M955D1047	24	50	90	30		135Ω	Lennox	
M955D1054	24	50	90	30		135Ω	York	
M955E1004	120	50	90	30	1	135Ω		
M955E1012	120	50	90	30	1	135Ω	Trane	Includes Q209C
M965A1007	24	25	160	40		135Ω		
M965A1015	24	25	160	40		135Ω		For use with W963B systems

HONEYWELL MOD MOTOR CROSS REFERENCE

OS# TO BE REPLACED	Single Shaft		Dual Shaft		OTHER MOTORS (SPECIFY)
	Without Wiring Box	With Wiring Box	Without Adapter	With Adapter	
M965A1023				NDR	
M965A1031			M9175A1036		
M965A1049			NDR		
M965A1064				NDR	
M965A1072			M9175A1010		M9175D1077 (No wiring box)
M965B1006				NDR	
M965B1014				NDR	
M965B1022				NDR	
M965B1030			NDR		
M975A1006				M9175D1014	
M975A1014			M9175A1051		
M975A1022				M9175D1006	
M975A1030			NDR		
M975A1055				NDR	
M975A1071		M9172A1021		M9175D1014	
M975A1089				M9175D1014	
M975A1097				M9175D1006	
M975B1005				NDR	
M975B1013				NDR	
M975B1021		M9172W1004			
M975B1039		M9172W1012			
M975B1047			NDR		
M975B1062				NDR	

OS# TO BE REPLACED	**VOLT** (volts)	**TORQ.** (lb-in.)	**STROKE** (degrees)	**TIMING** (sec)	**AUX SW**	**CONTROL SIGNAL**	**CUSTOMER SPECIAL**	**COMMENTS** (Refer also to Application Notes)
M965A1023	120	25	160	40		135Ω		
M965A1031	120	25	90	23		135Ω	York	
M965A1049	120	25	90	23		135Ω		
M965A1064	24	25	90	23		135Ω		
M965A1072	24	25	90	23		135Ω	Trane	
M965B1006	24	25	160	40	2	135Ω		
M965B1014	240	25	90	23	2	135Ω		
M965B1022	24	25	90	23	1	135Ω		
M965B1030	24	25	160	40	2	135Ω	Reznor	
M975A1006	24	25	160	40		135Ω		
M975A1014	24	25	90	23		135Ω		
M975A1022	120	25	160	40		135Ω		
M975A1030	120	25	90	23		135Ω	Trane	
M975A1055	120	25	160	40		135Ω	Carrier	
M975A1071	24	25	160	40		135Ω	Carrier	
M975A1089	24	25	160	40		135Ω		
M975A1097	120	25	160	40		135Ω		
M975B1005	24	25	160	40	2	135Ω		
M975B1013	240	25	160	40	2	135Ω		
M975B1021	120	25	90	23	1	135Ω	Trane	
M975B1039	120	25	160	40	2	135Ω	Carrier	
M975B1047	120	25	90	23	2	135Ω	Trane	
M975B1062	120	25	90	23	2	135Ω	Reznor	Aux switch set to 35°

MODUTROL MOTOR CROSS REFERENCE

MODUTROL IV TO MODUTROL IV

INTRODUCTION
Modutrol IV Motors to Modutrol IV Motors

This section cross references motors produced as Modutrol IV Motors to Modutrol IV Motors. This section includes customer specials and restricted motors. In most cases, there is a Modutrol IV Motor to replace the original motor. In those cases where there is not, please refer to the listed OEM or your local Honeywell Sales Representative. Please refer to the Application Notes section for further information regarding specific comments.

CROSS REFERENCE FORMAT
LEFT PAGES

Information contained in individual rows refer to the motor listed in the OS# To Be Replaced column unless otherwise noted in the Comments column. Following is an example of the format used in this section:

	Single Shaft		Dual Shaft		
OS # To Be Replaced	Without Wiring Box	With Wiring Box	Without Adapter	With Adapter	Other Motors (Specify)
1	2	3	4	5	6

(1) Lists the original motor to be replaced.
(2) Lists the Modutrol IV Replacement Motor which is single shaft and does not include a wiring box.
(3) Lists the Modutrol IV Replacement Motor which is single shaft and does include a wiring box.
(4) Lists the Modutrol IV Replacement Motor which is dual shaft, and does include a wiring box but not a 220738A Adapter Bracket. NDR in this column means no direct replacement.
(5) Lists the Modutrol IV Replacement Motor which is dual shaft, and does include a wiring box and a 220738A Adapter Bracket. NDR in this column means no direct replacement.
(6) Indicates which other Modutrol IV Motors can replace the original motor. The parenthetical information provides an explanation of the differences.

RIGHT PAGES

Information contained in individual rows refer to the motor listed in the OS# To Be Replaced column unless otherwise noted in the comments section. Following is an example of the format used in this section:

OS# To Be Replaced	Volt	Torq (lb-in.)	Stroke (degrees)	Timing (sec)	Aux Sw	Wiring Box	Motor Shafts	Adapter Bracket	Control Signal	Customer and Comments
1	2	3	4	5	6	7	8	9	10	11

(1) Lists the original motor to be replaced.
(2) Lists the voltage of the original motor.
(3) Lists the torque rating of the original motor.
(4) Lists the full stroke rotation of the motor (closed to open) in angular degrees. Two strokes with a "-" indicate range of adjustment available in the field.
(5) Lists the timing of the motor. If two adjustable strokes is listed, the time refers to a 160° stroke.
(6) Lists number of auxiliary switches, if any, in the original motor.
(7) Indicates whether the original motor has a wiring box mounted. Many OEMs use this feature and number of motor shafts for special applications.
(8) Designates the number of motor shafts on the original motor. The choices are 1 (referred to as single shaft) or 2 (referred to as dual or auxiliary shaft).
(9) A Yes in this column indicates the original motor is shipped with an adapter bracket (part number 220738A). This adapter bracket is required for valve linkage applications.
(10) New Column: lists the control signal of the original motor. This listing either indicates an actual value or a Series approach. For further description of the control signals contained in this column, refer to the Application Notes section.
(11) Comments listed in this column will provide additional information to consider when replacing the original motor, including whether the motor under consideration was designed for a customer. Please consider differences carefully.

HONEYWELL MODUTROL IV MOTOR CROSS REFERENCE

OS# TO BE REPLACED	Single Shaft		Dual Shaft		OTHER MOTORS (SPECIFY)
	Without Wiring Box	With Wiring Box	Without Adapter	With Adapter	
MODUTROL IV MOTORS					
M4182A1004		M4182A1004	M4185A1027	M4185A1001	
M4182B1002		M4182B1002	M4185B1033	M4185B1009	M4182B1069 (Weather)
M4182B1010		M4182B1010		M4185B1017	
M4182B1028		M4182B1028	M4185B1074		
M4182B1036		M4182B1036	M4185B1066	M4185B1058	M4182B1051 (Weather)
M4182B1044		M4182B1044		M4185B1058	
M4182B1051		M4182B1051			
M4182B1069		M4182B1069			
M4185A1001		M4182A1004	M4185A1027	M4185A1001	
M4185A1027		M4182A1004	M4185A1027	M4185A1001	
M4185B1009		M4182B1002	M4185B1033	M4185B1009	M4182B1069 (Weather)
M4185B1017		M4182B1010		M4185B1017	
M4185B1033		M4182B1002	M4185B1033	M4185B1009	M4182B1069 (Weather)
M4185B1058		M4182B1044		M4185B1058	
M4185E4006				NDR	
M4185E4014				NDR	
M4186H1005				M4186H1005	
M4186L4000				NDR	
M6161A1004		M6161A1004			
M6161B1002		M6161B1002			
M6174A1009			M6174A1009		
M6181A1018		M6181A1018	M6184A1007	M6184D1035	
M6181A1026		M6181A1026		M6184A1015	
M6181A1034		M6181A1034	M6184A1049	M6184A1023	
M6181A1059		M6181A1059		M6184D1035	
M6181F1009		M6181F1009	M6184F1014		
M6181F1017		M6181F1017	M6184F1014		
M6182D1003		M6182D1003			
M6182F1008		M6182F1008			
M6184A1007		M6181A1018	M6184A1007	M6184D1035	
M6184A1015		M6181A1026		M6184A1015	
M6184A1023		M6181A1034	M6184A1049	M6184A1023	
M6184A1049		M6181A1034	M6184A1049	M6184A1023	
M6184A1056		M6181A1026	M6184A1056	M6184A1015	
M6184B1005				M6184B1005	M6194B1029 (300 lb.-in.)
M6184B1013			M6184B1013		
M6184B1021			M6184B1021		
M6184D1001			M6184D1050	M6184D1001	
M6184D1035				M6184D1035	
M6184D1050			M6184D1050	M6184D1001	
M6184D1068				M6184D1068	M6191D1002 (300 lb.-in.)
M6184F1014		M6181F1009	M6184F1014		

OS# TO BE REPLACED	VOLT (volts)	TORQ. (lb-in.)	STROKE (degrees)	TIMING (sec)	AUX SW	WIRING BOX	MOTOR SHAFTS	ADAPTER BRACKET	CONTROL SIGNAL	CUSTOMER AND COMMENTS
MODUTROL IV MOTORS										
M4182A1004	120	60	160	60		YES	1		Series 41	
M4182B1002	120	60	160	60	1	YES	1		Series 41	
M4182B1010	MULTI	60	160	60	1	YES	1		Series 41	OBSOLETE
M4182B1028	220	60	160	60	1	YES	1		Series 41	
M4182B1036	120	60	90	30	1	YES	1		Series 41	
M4182B1044	MULTI	60	90	30	1	YES	1		Series 41	
M4182B1051	120	60	90	30	1	YES	1		Series 41	Weather kit installed
M4182B1069	120	60	160	60	1	YES	1		Series 41	Weather kit installed
M4185A1001	120	60	160	60		YES	2	YES	Series 41	
M4185A1027	120	60	160	60		YES	2		Series 41	OBSOLETE
M4185B1009	120	60	160	60	1	YES	2	YES	Series 41	
M4185B1017	MULTI	60	160	60	1	YES	2	YES	Series 41	
M4185B1033	120	60	160	60	1	YES	2		Series 41	OBSOLETE
M4185B1058	MULTI	60	90	30	1	YES	2	YES	Series 41	
M4185E4006	MULTI	60	90/160	30/60	1	YES	2	YES	Series 41	Canada
M4185E4014	120	60	90/160	30/60	1	YES	2	YES	Series 41	Canada
M4186H1005	120	60	160	60	1	YES	2	YES	Series 41	
M4186L4000	120	60	90/160	30/60	1	YES	2	YES	Series 41	Canada
M6161A1004	120	35	90	30		YES	1		Series 61	OBSOLETE
M6161B1002	120	35	90	30	1	YES	1		Series 61	
M6174A1009	24	75	160	60		YES	2		Series 61	Cams
M6181A1018	24	150	160	60		YES	1		Series 61	OBSOLETE
M6181A1026	24	150	90	30		YES	1		Series 61	OBSOLETE
M6181A1034	120	75	160	30		YES	1		Series 61	OBSOLETE
M6181A1059	24	150	160	60		YES	1		Series 61	Carrier
M6181F1009	24	150	90/160	30/60	2	YES	1		Series 61	OBSOLETE
M6181F1017	MULTI	150	90/160	30/60	2	YES	1		Series 61	Snyder General
M6182D1003	24	60	90/160	15/60		YES	1		Series 61	Carrier
M6182F1008	24	60	90/160	15/60	2	YES	1		Series 61	Carrier
M6184A1007	24	150	160	60		YES	2		Series 61	
M6184A1015	24	150	90	30		YES	2	YES	Series 61	
M6184A1023	120	75	160	30		YES	2	YES	Series 61	
M6184A1049	120	75	160	30		YES	2		Series 61	OBSOLETE
M6184A1056	24	150	90	30		YES	2		Series 61	Trane
M6184B1005	120	150	90	120	1	YES	2	YES	Series 61	Aux switch set to 7°
M6184B1013	120	150	90	120	1	YES	2		Series 61	Trane, aux sw. set 7°
M6184B1021	24	150	160	60	1	YES	2		Series 61	
M6184D1001	24	75	90/160	15/30		YES	2	YES	Series 61	
M6184D1035	24	150	90/160	30/60		YES	2	YES	Series 61	Tradeline
M6184D1050	24	75	90/160	15/30		YES	2		Series 61	OBSOLETE
M6184D1068	24	150	90/160	120/240		YES	2	YES	Series 61	OBSOLETE
M6184F1014	24	150	90/160	30/60	2	YES	2		Series 61	

HONEYWELL MODUTROL IV MOTOR CROSS REFERENCE

OS# TO BE REPLACED	Single Shaft		Dual Shaft		OTHER MOTORS (SPECIFY)
	Without Wiring Box	With Wiring Box	Without Adapter	With Adapter	
M6185D1000			M6185D1000		
M6191A1008		M6191A1008			
M6191B1006		M6191B1006	M6194B1011		
M6191D1002		M6191D1002		M6194D1017	M6184D1068 (150 lb.-in.)
M6191D1010			NDR		M6191D1010 (with adapter bracket)
M6194A1005			M6194A1005		
M6194B1011		M6191B1006	M6194B1011	M6194B1003	
M6194B1029			M6194B1029	M6194E1006	M6184B1005 (150 lb.-in.)
M6194D1017				M6194D1017	
M6194D4003				M6194D1017	
M6194E1006				M6194E1006	
M6281F1016		M6281F1016			
M6282A1016		M6282A1016			
M6282A1024		M6282A1024	M6285A1039		
M6282E1009		M6282E1009			
M6284A1006		M6281A1009	M6284A1006	M6284D1000	
M6284A1030			M6284A1006	M6284D1000	
M6284A1048			M6284A1048		M6284A1063 (IACD)
M6284A1055			M6284A1055		M6284A1071 (IACD)
M6284A1063			M6284A1048		M6284A1063 (IACD)
M6284A1071			M6284A1055		M6284A1071 (IACD)
M6284A1089			M6284A1089		
M6284A1097				M6284A1097	
M6284B1004			M6284B1004		
M6284C1010			M6284C1010		
M6284C1028			NDR		
M6284C1036			M6284C1036		
M6284C1044			M6284C1044		
M6284D1000				M6284D1000	
M6284D1026				M6284D1000	
M6284D4004				M6284D1000	
M6284F1005			M6284F1005	M6284F1013	
M6284F1013			M6284F1005	M6284F1013	
M6284F1039		M6281F1008	M6284F1005	M6284F1013	
M6285A1005				M6285A1005	
M6285A1013				M6285A1013	
M6285A1039		M6282A1024	M6285A1039		Trane
M6285A1047				M6285A1005	

OS# TO BE REPLACED	VOLT (volts)	TORQ. (lb-in.)	STROKE (degrees)	TIMING (sec)	AUX SW	WIRING BOX	MOTOR SHAFTS	ADAPTER BRACKET	CONTROL SIGNAL	CUSTOMER AND COMMENTS
M6185D1000	24	60	90/160	30/60		YES	2		Series 61	
M6191A1008	120	300	160	120		YES	1		Series 61	OBSOLETE
M6191B1006	24	300	90	60	1	YES	1		Series 61	OBSOLETE
M6191D1002	24	300	90/160	120/240		YES	1		Series 61	OBSOLETE
M6191D1010	120	300	90/160	120/240		YES	1	YES	Series 61	York
M6194A1005	120	300	90	120		YES	2		Series 61	
M6194B1011	24	300	90	60	1	YES	2		Series 61	
M6194B1029	120	300	90	120	1	YES	2		Series 61	OBSOLETE
M6194D1017	24	300	90/160	120/240		YES	2	YES	Series 61	Tradeline
M6194D4003	24	300	90/160	120/240		YES	2	YES	Series 61	Canada
M6194E1006	24	300	90/160	120/240	1	YES	2	YES	Series 61	
M6281F1016	120	150	90/160	30/60	2	YES	1		Series 62	OBSOLETE
M6282A1016	120	60	90	30		YES	1		Series 62	Trane
M6282A1024	24	25	90	60		YES	1		Series 62	Trane
M6282E1009	24	60		15/60	1	YES	1		Series 62	Carrier
M6284A1006	24	150	160	60		YES	2		Series 62	
M6284A1030	24	150	160	60		YES	2	YES	Series 62	Japan
M6284A1048	120	150	160	60		YES	2		Series 62	
M6284A1055	120	150	90	30		YES	2		Series 62	
M6284A1063	120	150	160	60		YES	2		Series 62	IACD, MOV's & cams
M6284A1071	120	150	90	30		YES	2		Series 62	IACD, MOV's & cams
M6284A1089	120	75	90	15		YES	2		Series 62	
M6284A1097	24	150	90	30		YES	2	YES	Series 62	
M6284B1004	120	150	160	240	1	YES	2		Series 62	Trane
M6284C1010	24	150	90	30	2	YES	2		Series 62	Aux sw. set 42°, 48°
M6284C1028	24	150	90	30	2	YES	2	YES	Series 62	Japan
M6284C1036	120	150	160	60	2	YES	2		Series 62	w/weatherproof kit
M6284C1044	120	150	90	30	2	YES	2		Series 62	w/weatherproof kit
M6284D1000	24	150	90/160	30/60		YES	2	YES	Series 62	Tradeline
M6284D1026	24	150	90/160	30/60		YES	2	YES	Series 62	Has 220741A
M6284D4004	24	150	90/160	30/60		YES	2	YES	Series 62	Canada
M6284F1005	24	150	90/160	30/60	2	YES	2		Series 62	OBSOLETE
M6284F1013	24	150	90/160	30/60	2	YES	2	YES	Series 62	
M6284F1039	24	150	90/160	30/60	2	YES	2		Series 62	Japan
M6285A1005	24	60	160	60		YES	2	YES	Series 62	Tradeline
M6285A1013	24	60	90	30		YES	2	YES	Series 62	Tradeline
M6285A1039	24	25	90	60		YES	2		Series 62	Trane
M6285A1047	24	60	160	60		YES	2	YES	Series 62	Japan

HONEYWELL MODUTROL IV MOTOR CROSS REFERENCE

OS# TO BE REPLACED	Single Shaft		Dual Shaft		OTHER MOTORS (SPECIFY)
	Without Wiring Box	With Wiring Box	Without Adapter	With Adapter	
M6285A1054		M6282A1016	M6285A1054		
M6285A4009				M6285A1005	
M6285C1001				M6285C1001	
M6286G1001				M6286G1001	
M6294A1004			M6294A1004		
M6294B1036				M6284D1036	
M6294D1008				M6294D1008	
M7161A1002		M7161A1002			
M7161B1018		M7161B1018		M7164B1007	
M7161G1009		M7161G1009	M7164G1030	M7164G1006	
M7161G1017		M7161G1017		M7164G1014	
M7161G1025		M7161G1025		M7164G1022	
M7164A1017			M7164A1058	M7164A1017	
M7164G1030		M7161G1009	M7164G1030	M7164G1006	
M7185A1004				M7185A1004	
M7186G1000				M7186G1000	
M7261A1001		M7261A1001			
M7272A1008		M7272A1008			
M7274A1006			M7274A1006		
M7281A1007		M7281A1007	M7284A1046	M7284A1004	
M7281Q1002		M7281Q1002		M7284Q1009	
M7282A1006		M7282A1006		M7285A1003	
M7282A1014		M7282A1014			
M7282D1000		M7282D1000			
M7282D1018		M7282D1018			
M7282F1005		M7282F1005			
M7284A1004		M7281A1007	M7284A1046	M7284A1004	
M7284A1012			M7284A1020	M7284A1012	
M7284A1020			M7284A1020	M7284A1012	
M7284A1046		M7281A1007	M7284A1046	M7284A1004	
M7284A1053			M7284A1053		
M7284A1061			M7284A1061		
M7284A1079			M7284A1079		
M7284A1087			M7284A1087		
M7284C1000			M7284C1026	M7284C1000	
M7284C1018				M7284C1018	
M7284C1026			M7284C1026	M7284C1000	
M7284C1042			M7284C1026	M7284C1000	
M7284C1059				NDR	Enhanced Motors
M7284C1067				NDR	Enhanced Motors
M7284G1001			M7284G1001		
M7284Q1009		M7281Q1002		M7284Q1009	
M7284Q1017				M7284Q1017	
M7284Q1033				NDR	Enhanced Motors

OS# TO BE REPLACED	VOLT (volts)	TORQ. (lb-in.)	STROKE (degrees)	TIMING (sec)	AUX SW	WIRING BOX	MOTOR SHAFTS	ADAPTER BRACKET	CONTROL SIGNAL	CUSTOMER AND COMMENTS
M6285A1054	120	60	160	60		YES	2		Series 62	Snyder General
M6285A4009	24	60	160	60		YES	2	YES	Series 62	Canada
M6285C1001	24	60	160	60	2	YES	2	YES	Series 62	
M6286G1001	24	60	160	60		YES	2	YES	Series 62	Normally Open
M6294A1004	120	300	160	240		YES	2		Series 62	
M6294B1036	24	300	160	120	1	YES	2	YES	Series 62	
M6294D1008	24	300	90/160	120/240		YES	2	YES	Series 62	Tradeline
M7161A1002	120	35	90	30		YES	1		6-9 Vdc	
M7161B1018	120	35	160	60	1	YES	1	YES	6-9 Vdc	Trane
M7161G1009	120	35	90	30		YES	1		10.5-13.5V	
M7161G1017	120	35	90	30		YES	1		4-7 Vdc	
M7161G1025	24	35	160	60		YES	1		4-7 Vdc	
M7164A1017	24	35	90	30		YES	2	YES	10.5-13.5V	
M7164G1030	120	35	90	30		YES	2		10.5-13.5V	
M7185A1004	24	60	160	60		YES	2	YES	4-7 Vdc	
M7186G1000	24	60	160	60		YES	2	YES	4-7 Vdc	
M7261A1001	120	35	160	60		YES	1		2-10 Vdc	Trane
M7272A1008	120	25	90	30		YES	1		2-10 Vdc	Trane
M7274A1006	24	75	160	60		YES	2		2-10 Vdc	W/aux switch cams
M7281A1007	120	150	90	30		YES	1		4-20mA	OBSOLETE
M7281Q1002	120	150	90	30	2	YES	1		4-20mA	
M7282A1006	120	60	90	30		YES	1		4-20mA	OBSOLETE
M7282A1014	120	60	90	30		YES	1		2-10 Vdc	Trane
M7282D1000	24	60	90/160	15/60		YES	1		4-20mA	Carrier
M7282D1018	24	60	90/160	15/60		YES	1		4-20mA	Carrier, with isolation
M7282F1005	24	60	90/160	15/60	2	YES	1		4-20mA	Carrier
M7284A1004	120	150	90	30		YES	2	YES	4-20mA	
M7284A1012	120	150	160	60		YES	2	YES	4-20mA	
M7284A1020	120	150	160	60		YES	2		4-20mA	
M7284A1046	120	150	90	30		YES	2		4-20mA	W/aux switch cams
M7284A1053	120	150	90	30		YES	2		2-10 Vdc	Trane
M7284A1061	120	150	160	60		YES	2		2-10 Vdc	Trane
M7284A1079	24	150	160	60		YES	2		2-10 Vdc	W/aux switch cams
M7284A1087	24	150	90	30		YES	2		2-10 Vdc	Has 220741A
M7284C1000	120	150	90	30	2	YES	2	YES	4-20mA	
M7284C1018	120	150	160	60	2	YES	2	YES	4-20mA	
M7284C1026	120	150	90	30	2	YES	2		4-20mA	OBSOLETE
M7284C1042	100/200	150	90	30	2	YES	2		4-20mA	Has 220741A
M7284C1059	24	150	90	30	2	YES	2	YES	4-20mA	Y-H
M7284C1067	24	150	160	60	2	YES	2	YES	4-20mA	Y-H
M7284G1001	24	150	160	60		YES	2		2-10 Vdc	W/aux switch cams
M7284Q1009	120	150	90	30	2	YES	2	YES	4-20mA	
M7284Q1017	120	150	160	60	2	YES	2	YES	4-20mA	
M7284Q1033	24	150	90	30	2	YES	2	YES	4-20mA	Y-H

HONEYWELL MODUTROL IV MOTOR CROSS REFERENCE

OS# TO BE REPLACED	Single Shaft		Dual Shaft		OTHER MOTORS (SPECIFY)
	Without Wiring Box	With Wiring Box	Without Adapter	With Adapter	
M7284Q1041				NDR	Enhanced Motors
M7285A1003		M7282A1006		M7285A1003	
M7285A1011				M7285A1011	
M7285A1037			M7285A1037		
M7285A1045			M7285A1045		
M7285C1009				M7285C1009	
M7285C1017				M7285C1017	
M7285Q1008				M7285Q1008	
M7285Q1016				M7285Q1016	
M7286G1009			M7286G1009		
M7294A1010			M7294A1010		
M7294G1009			M7294G1009		
M7294Q1007			M7294Q1007		
M7364A1015				M7364A1015	
M7364A1023			M7364A1031	M7364A1023	
M7364A1031			M7364A1031		
M7384A1011				M7384A1011	
M7384A1029			M7384A1029		
M7385A1010			M7385A1044	M7385A1010	
M7385A1044			M7385A1044		
M7484A1002			M7484A1002		
M7484A1010				M7484A1010	
M7675A1001			M7675A1001		
M7675A1019			M7675A1019		
M7675G1008			M7675G1008		
M7682A1010		M7682A1010		M7685A1009	
M7685A1009		M7682A1010		M7685A1009	
M7685A1025			M7685A1025		
M7685G1006			M7685G1006		
M7964A1001				M7964A1001	
M7964B1009				M7964B1009	
M7964B1017				M7964B1017	
M7964C1007				M7964C1007	
M7964C1015				M7964C1015	
M7975E1009			M7975E1009		
M7983G1005				NDR	
M8182B1011		M8182B1011			
M8185A1002				M8185A1002	
M8185A1028			M8185A1028		
M8185D1006				M8185D1006	
M8186G1008			M8186G1008		

OS# TO BE REPLACED	VOLT (volts)	TORQ. (lb-in.)	STROKE (degrees)	TIMING (sec)	AUX SW	WIRING BOX	MOTOR SHAFTS	ADAPTER BRACKET	CONTROL SIGNAL	CUSTOMER AND COMMENTS
M7284Q1041	24	150	160	60	2	YES	2	YES	4-20mA	Y-H
M7285A1003	120	60	90	30		YES	2	YES	4-20mA	
M7285A1011	120	60	160	60		YES	2	YES	4-20mA	
M7285A1037	24	60	160	60		YES	2		2-10 Vdc	UL 555S, External
M7285A1045	24	60	160	60		YES	2		2-10 Vdc	W/aux switch cams
M7285C1009	120	60	90	30	2	YES	2	YES	4-20mA	
M7285C1017	120	60	160	60	2	YES	2	YES	4-20mA	
M7285Q1008	120	60	90	30	2	YES	2	YES	4-20mA	
M7285Q1016	120	60	160	60	2	YES	2	YES	4-20mA	
M7286G1009	24	60	160	60		YES	2		2-10 Vdc	W/aux switch cams
M7294A1010	24	300	160	120		YES	2		2-10 Vdc	W/aux switch cams
M7294G1009	24	300	160	120		YES	2		2-10 Vdc	W/aux switch cams
M7294Q1007	120	300	90	60	2	YES	2		4-20mA	
M7364A1015	120	35	90	30		YES	2	YES	W936	
M7364A1023	24	35	160	60		YES	2	YES	W936	
M7364A1031	24	35	160	60		YES	2		W936	Liebert, with module
M7384A1011	24	150	90	30		YES	2	YES	W936	
M7384A1029	24	150	160	60		YES	2		W936	Liebert, with module
M7385A1010	24	60	160	60		YES	2	YES	W936	
M7385A1044	24	60	160	60		YES	2		W936	Liebert, with module
M7484A1002	24	150	90	30		YES	2		BRCS	Cleaver Brooks, tapd
M7484A1010	24	150	90	30		YES	2		BRCS	Tapped aux shaft
M7675A1001	24	25	160	60		YES	2		14-17 Vdc	
M7675A1019	120	25	90	30		YES	2		14-17 Vdc	Trane
M7675G1008	24	25	160	60		YES	2		14-17 Vdc	
M7682A1010	24	60	160	60		YES	1		14-17 Vdc	OBSOLETE
M7685A1009	24	60	160	60		YES	2	YES	14-17 Vdc	
M7685A1025	24	60	90	30		YES	2		14-17 Vdc	
M7685G1006	24	60	90	30		YES	2		14-17 Vdc	Lennox
M7964A1001	120	35	90	30		YES	2	YES	Thermistor	Nesbitt
M7964B1009	120	35	90	30		YES	2	YES	Thermistor	Nesbitt
M7964B1017	120	35	160	60		YES	2	YES	Thermistor	Nesbitt
M7964C1007	120	35	90	30		YES	2	YES	Thermistor	Nesbitt
M7964C1015	120	35	90	30		YES	2	YES	Thermistor	Nesbitt
M7975E1009	24	25	90	30		YES	2		3-6 Vdc, 3w	
M7983G1005	220	60	160	60		YES	1	YES	n/a	IBM
M8182B1011	24	60	160	60	1	YES	1		Series 81	Weather kit installed
M8185A1002	24	60	160	60		YES	2	YES	Series 81	
M8185A1028	24	60	160	60		YES	2		Series 81	UL 555S, External
M8185D1006	24	60	90/160	30/60		YES	2	YES	Series 81	Tradeline
M8186G1008	24	60	160	60		YES	2		Series 81	W/aux switch cams

HONEYWELL MODUTROL IV MOTOR CROSS REFERENCE

OS# TO BE REPLACED	Single Shaft		Dual Shaft		OTHER MOTORS (SPECIFY)
	Without Wiring Box	With Wiring Box	Without Adapter	With Adapter	
M9161A1016		M9161A1016		M9164D1009	
M9161A1024		M9161A1024	M9164A1005		M9161A1040 (Weather)
M9161A1032		M9161A1032			
M9161A1040		M9161A1040			
M9161C1004		M9161C1004		M9164C1001	
M9161C1012		M9161C1012	M9164C1068		
M9161V1009		M9161V1009	M9164V1022		
M9164A1005		M9161A1024	M9164A1005		M9161A1040 (Weather)
M9164A1013				M9164A1013	
M9164A1021		M9161A1008		M9164A1021	
M9164A1070				M9164A1070	
M9164A1120			M9164A1120		
M9164C1001		M9161C1004		M9164C1001	
M9164C1050			M9164C1050		
M9164C1068		M9161C1012	M9164C1068		
M9164D1009				M9164D1009	
M9164V1006			M9164V1006		
M9164V1022		M9161V1009	M9164V1022		
M9171A1006		M9171A1006	M9174B1043		
M9171B1004		M9171B1004	M9174B1043		
M9171B1012		M9171B1012	M9174B1027		
M9171C1002		M9171C1002	M9174C1025		
M9171C1010		M9171C1010	M9174C1041		
M9172A1021		M9172A1021		M9175D1014	
M9172W1004		M9172W1004			
M9172W1012		M9172W1012			
M9174B1027		M9171B1012	M9174B1027		
M9174B1035		M9171B1020	M9174B1035		
M9174B1043		M9171B1004	M9174B1043		
M9174C1025		M9171C1002	M9174C1025		
M9174C1033			M9174C1033		
M9174C1041		M9171C1010	M9174C1041		
M9174D1007				M9174D1007	
M9175A1010			M9175A1010		M9175A1077 (No wiring box)
M9175A1036			M9175A1036		
M9175A1051			M9175A1051		
M9175B1000			M9175B1000		
M9175D1006				M9175D1006	
M9175D1014				M9175D1014	
M9181A1012		M9181A1012	M9184A1001	M9184A1019	
M9181B1002		M9181B1002	M9184B1017		M9184B1041 (Weather)
M9181D1016		M9181D1016			
M9181D1024				M9194D1003	M9181D1024, M9184D1054 (150 lb-in)

OS# TO BE REPLACED	VOLT (volts)	TORQ. (lb-in.)	STROKE (degrees)	TIMING (sec)	AUX SW	WIRING BOX	MOTOR SHAFTS	ADAPTER BRACKET	CONTROL SIGNAL	CUSTOMER AND COMMENTS
M9161A1016	24	35	160	60		YES	1		135Ω	OBSOLETE
M9161A1024	120	35	90	30		YES	1		135Ω	
M9161A1032	120	35	160	60		YES	1		135Ω	Carrier
M9161A1040	120	35	90	30		YES	1		135Ω	Weather kit & cams
M9161C1004	24	35	160	60	2	YES	1		135Ω	OBSOLETE
M9161C1012	120	35	90	30	2	YES	1		135Ω	OBSOLETE
M9161V1009	24	35	160	60		YES	1		135Ω	Carrier
M9164A1005	120	35	90	30		YES	2		135Ω	
M9164A1013	240	35	160	60		YES	2	YES	135Ω	
M9164A1021	120	35	160	60		YES	2	YES	135Ω	
M9164A1070	24	35	160	60		YES	2	YES	135Ω	
M9164A1120	24	35	90	30		YES	2		135Ω	
M9164C1001	24	35	160	60	2	YES	2	YES	135Ω	
M9164C1050	120	35	160	60	2	YES	2		135Ω	
M9164C1068	120	35	90	30	2	YES	2		135Ω	
M9164D1009	24	35	90/160	30/60		YES	2	YES	135Ω	Tradeline
M9164V1006	120	35	160	60		YES	2		135Ω	Carrier
M9164V1022	24	35	160	60		YES	2		135Ω	Carrier
M9171A1006	120	75	160	60		YES	1		135Ω	OBSOLETE
M9171B1004	120	75	160	60	1	YES	1		135Ω	OBSOLETE
M9171B1012	120	75	90	30	1	YES	1		135Ω	
M9171C1002	120	75	90	30	2	YES	1		135Ω	
M9171C1010	120	75	90	30	2	YES	1		135Ω	Cleaver Brooks
M9172A1021	24	25	160	60		YES	1		135Ω	Carrier
M9172W1004	120	25	90	30	1	YES	1		135Ω	Trane
M9172W1012	120	25	160	60	1	YES	1		135Ω	Carrier
M9174B1027	120	75	90	30	1	YES	2		135Ω	
M9174B1035	120	75	90	30	1	YES	2		135Ω	Cleaver Brooks
M9174B1043	120	75	160	60	1	YES	2		135Ω	
M9174C1025	120	75	90	30	2	YES	2		135Ω	
M9174C1033	120	75	160	60	2	YES	2		135Ω	
M9174C1041	120	75	90	30	2	YES	2		135Ω	Cleaver Brooks
M9174D1007	24	75	90/160	30/60		YES	2	YES	135Ω	Tradeline
M9175A1010	24	25	90	30		YES	2		135Ω	OBSOLETE
M9175A1036	120	25	90	30		YES	2		135Ω	York
M9175A1051	24	25	90	30		YES	2		135Ω	
M9175B1000	120	25	90	30	1	YES	2		135Ω	Trane
M9175D1006	120	25	90/160	30/60		YES	2	YES	135Ω	
M9175D1014	24	25	90/160	30/60		YES	2	YES	135Ω	Tradeline
M9181A1012	24	150	160	60		YES	1		135Ω	
M9181B1002	24	150	90	30	1	YES	1		135Ω	
M9181D1016	24	150	90/160	120/240		YES	1		135Ω	Trane
M9181D1024	24	150	90/160	120/240		YES	1		135Ω	OBSOLETE

HONEYWELL MODUTROL IV MOTOR CROSS REFERENCE

OS# TO BE REPLACED	Single Shaft		Dual Shaft		OTHER MOTORS (SPECIFY)
	Without Wiring Box	With Wiring Box	Without Adapter	With Adapter	
M9182A1011		M9182A1011	M9185A1000	M9185A1018	M9182A1052 (Weather)
M9182A1029		M9182A1029		M9185A1026	
M9182A1037		M9182A1037			
M9182A1052		M9182A1011	M9185A1000	M9185A1018	M9182A1052 (Weather)
M9182A1060		M9182A1060			
M9182C1009		M9182C1009		M9185C1006	
M9182C1017		M9182C1017			
M9182D1015		M9182D1015	M9185D1012	M9185D1004	
M9182D1023		M9182D1015			
M9182D1031		M9182D1031			
M9182D4001		M9182D1015	M9185D1012	M9185D1004	
M9182W1002		M9182W1002			
M9183G1009		M9183G1009		M9186G1006	
M9184A1001		M9181A1012	M9184A1001	M9184A1019	
M9184A1019		M9181A1012	M9184A1001	M9184A1019	
M9184A1035			M9184A1035		
M9184B1009			M9184B1009		M9184B1025 (120 Vac)
M9184B1017		M9181B1002	M9184B1017		M9184B1041 (Weather)
M9184B1025			M9184B1009		M9184B1025 (120 Vac)
M9184B1033			M9184B1033	M9184F1018	
M9184C1023			M9184C1023		M9184C1049 (120Vac)
M9184C1031			M9184C1031		
M9184C1049			M9184C1023		M9184C1049 (120Vac)
M9184D1005				M9184D1005	
M9184D1013				M9184D1013	
M9184D1021				M9184D1021	
M9184D4009				M9184D1013	
M9184E4006				NDR	
M9184F1000				M9184F1000	
M9184F1026				M9184F1000	
M9184F1034			M9184F1034		
M9185A1000		M9182A1011	M9185A1000	M9185A1018	M9182A1052 (Weather)
M9185A1018		M9182A1011	M9185A1000	M9185A1018	M9182A1052 (Weather)
M9185A1026		M9182A1029		M9185A1026	
M9185A1075		M9182A1011	M9185A1000	M9185A1018	M9182A1052 (Weather)
M9185A1091		M9182A1029		M9185A1026	M9185A1091 (No wiring box)
M9185C1006		M9182C1009		M9185C1006	
M9185D1004			M9185D1012	M9185D1004	
M9185D1012		M9182D1015	M9185D1012	M9185D1004	
M9185D4008		M9182D1015	M9185D1012	M9185D1004	

OS# TO BE REPLACED	VOLT (volts)	TORQ. (lb-in.)	STROKE (degrees)	TIMING (sec)	AUX SW	WIRING BOX	MOTOR SHAFTS	ADAPTER BRACKET	CONTROL SIGNAL	CUSTOMER AND COMMENTS
M9182A1011	24	60	160	60		YES	1		135Ω	
M9182A1029	24	60	90	30		YES	1		135Ω	
M9182A1037	120	60	90	30		YES	1		135Ω	Trane
M9182A1052	24	60	160	60		YES	1		135Ω	Weather kit
M9182A1060	120	60	90	30		YES	1		135Ω	York
M9182C1009	24	60	160	60	2	YES	1		135Ω	
M9182C1017	24	60	90	30	2	YES	1		135Ω	
M9182D1015	24	60	90/160	30/60		YES	1		135Ω	OBSOLETE
M9182D1023	24	60	90/160	120/240		YES	1		135Ω	
M9182D1031	MULTI	60	90/160	30/60		YES	1		135Ω	Snyder General
M9182D4001	24	60	90/160	30/60		YES			135Ω	Canada
M9182W1002	120	60	90	30	1	YES	1		135Ω	Trane
M9183G1009	24	60	160	60		YES	1		135Ω	OBSOLETE
M9184A1001	24	150	160	60		YES	2		135Ω	OBSOLETE
M9184A1019	24	150	160	60		YES	2	YES	135Ω	
M9184A1035	24	150	90	30		YES	2		135Ω	
M9184B1009	24	150	90	30	1	YES	2		135Ω	Cleaver Brooks
M9184B1017	24	150	90	30	1	YES	2		135Ω	
M9184B1025	120	150	90	30	1	YES	2		135Ω	Cleaver Brooks
M9184B1033	24	150	160	60	1	YES	2		135Ω	OBSOLETE
M9184C1023	24	150	90	30	2	YES	2		135Ω	Cleaver Brooks
M9184C1031	24	150	90	30	2	YES	2		135Ω	Tapped aux shaft
M9184C1049	120	150	90	30	2	YES	2		135Ω	Cleaver Brooks
M9184D1005	24	75	90/160	15/30		YES	2	YES	135Ω	
M9184D1013	24	150	90/160	30/60		YES	2	YES	135Ω	Tradeline
M9184D1021	24	150	90/160	30/60		YES	2	YES	135Ω	Tradeline, tapd shaft
M9184D4009	24	150	90/160	30/60		YES	2	YES	135Ω	Canada
M9184E4006	24	150	90/160	30/60	1	YES	2	YES	135Ω	Canada, tappd shaft
M9184F1000	24	150	90/160	30/60	2	YES	2	YES	135Ω	
M9184F1026	24	150	90/160	30/60	2	YES	2	YES	135Ω	Japan
M9184F1034	24	150	90/160	30/60	2	YES	2		135Ω	Tapped aux shaft
M9185A1000	24	60	160	60		YES	2		135Ω	OBSOLETE
M9185A1018	24	60	160	60		YES	2	YES	135Ω	
M9185A1026	24	60	90	30		YES	2	YES	135Ω	
M9185A1075	24	60	160	60		YES	2	YES	135Ω	Japan
M9185A1091	24	60	90	30		YES	2		135Ω	Trane
M9185C1006	24	60	160	60	2	YES	2	YES	135Ω	
M9185D1004	24	60	90/160	30/60		YES	2	YES	135Ω	Tradeline
M9185D1012	24	60	90/160	30/60		YES	2		135Ω	OBSOLETE
M9185D4008	24	60	90/160	30/60		YES	2	YES	135Ω	Canada

HONEYWELL MODUTROL IV MOTOR CROSS REFERENCE

OS# TO BE REPLACED	Single Shaft		Dual Shaft		OTHER MOTORS (SPECIFY)
	Without Wiring Box	With Wiring Box	Without Adapter	With Adapter	
M9185E1019			M9185E1019		
M9185E4005			M9185E1019		
M9186G1006		M9183G1009		M9186G1006	
M9186G4000		M9183G1009		M9186G1006	
M9194C1005			M9194C1005		
M9194D1003				M9194D1003	
M9194E1000				M9194E1000	
M9481D1005		M9481D1005	M9484D1051	M9484D1010	
M9481E1002		M9481E1002	M9484E1090	M9484E1017	
M9481F1000		M9481F1000	M9484F1072	M9484F1007	
M9484D1002				M9484D1002	
M9484D1010		M9481D1005	M9484D1051	M9484D1010	
M9484D1028			M9484D1044	M9484D1028	
M9484D1036				M9484D1036	
M9484D1044			M9484D1044	M9484D1028	
M9484D1051		M9481D1005	M9484D1051	M9484D1010	
M9484D4006				M9484D1010	
M9484E1009			M9484E1116	M9484E1009	
M9484E1017		M9481E1002	M9484E1090	M9484E1017	
M9484E1025			M9484E1066	M9484E1025	
M9484E1033			M9484E1074	M9484E1033	
M9484E1041			M9484E1041	M9484E1033	
M9484E1058			M9484E1082	M9484E1058	
M9484E1066			M9484E1066	M9484E1025	
M9484E1074			M9484E1074	M9484E1033	
M9484E1082			M9484E1082	M9484E1058	
M9484E1090		M9481E1002	M9484E1090	M9484E1017	
M9484E1116			M9484E1116	M9484E1009	
M9484E4003		M9481E1002	M9484E1090	M9484E1017	
M9484F1007		M9481F1000	M9484F1072	M9484F1007	
M9484F1015		M9481F1000	M9484F1015	M9484F1007	
M9484F1023			M9484F1056	M9484F1023	
M9484F1031			M9484F1064	M9484F1031	
M9484F1049				M9484F1049	
M9484F1056			M9484F1056	M9484F1023	
M9484F1064			M9484F1064	M9484F1031	
M9484F1072		M9481F1000	M9484F1072	M9484F1007	
M9484F4001			M9484F1056	M9484F1023	
M9484F4019			M9484F1056	M9484F1023	
M9491D1003		M9491D1003		M9494D1000	
M9494D1000		M9491D1003		M9494D1000	

OS# TO BE REPLACED	VOLT (volts)	TORQ. (lb-in.)	STROKE (degrees)	TIMING (sec)	AUX SW	WIRING BOX	MOTOR SHAFTS	ADAPTER BRACKET	CONTROL SIGNAL	CUSTOMER AND COMMENTS
M9185E1019	24	60	90/160	30/60	1	YES	2		135Ω	
M9185E4005	24	60	90/160	30/60	1	YES	2	YES	135Ω	Canada
M9186G1006	24	60	160	60		YES	2	YES	135Ω	Normally Open
M9186G4000	24	60	160	60		YES	2	YES	135Ω	Canada, N.O.
M9194C1005	120	300	90	60	2	YES	2		135Ω	w/screw term adapt
M9194D1003	24	300	90/160	120/240		YES	2	YES	135Ω	Tradeline
M9194E1000	24	300	90/160	120/240	1	YES	2	YES	135Ω	
M9481D1005	24	150	90/160	30/60		YES	1		135Ω	OBSOLETE
M9481E1002	24	150	90/160	30/60	1	YES	1		135Ω	
M9481F1000	24	150	90/160	30/60	2	YES	1		135Ω	Aux sw. set to 7°, 57°
M9484D1002	24	75	90/160	15/30		YES	2	YES	135Ω	
M9484D1010	24	150	90/160	30/60		YES	2	YES	135Ω	Tapped aux shaft
M9484D1028	24	150	90/160	30/60		YES	2	YES	135Ω	Tapped aux shaft
M9484D1036	24	75	90/160	15/30		YES	2	YES	135Ω	
M9484D1044	24	150	90/160	30/60		YES	2		135Ω	Tapped, OBSOLETE
M9484D1051	24	150	90/160	30/60		YES	2		135Ω	Tapped, OBSOLETE
M9484D4006	24	150	90/160	30/60		YES	2	YES	135Ω	Canada, tappd shaft
M9484E1009	24	75	90/160	15/30	1	YES	2	YES	135Ω	Tapped aux shaft
M9484E1017	24	150	90/160	30/60	1	YES	2	YES	135Ω	Tapped aux shaft
M9484E1025	24	150	90/160	30/60	1	YES	2	YES	135Ω	
M9484E1033	24	150	90/160	30/60	1	YES	2	YES	135Ω	Aux switch set to 7°
M9484E1041	24	150	90/160	30/60	1	YES	2		135Ω	OBSOLETE
M9484E1058	24	150	90/160	30/60	1	YES	2	YES	135Ω	Tapped aux shaft
M9484E1066	24	150	90/160	30/60	1	YES	2		135Ω	OBSOLETE
M9484E1074	24	150	90/160	30/60	1	YES	2		135Ω	OBSOLETE
M9484E1082	24	150	90/160	30/60	1	YES	2		135Ω	Tapped, OBSOLETE
M9484E1090	24	150	90/160	30/60	1	YES	2		135Ω	Tapped, OBSOLETE
M9484E1116	24	75	90/160	15/30	1	YES	2		135Ω	Tapped, OBSOLETE
M9484E4003	24	150	90/160	30/60	1	YES	2	YES	135Ω	Canada, tappd shaft
M9484F1007	24	150	90/160	30/60	2	YES	2	YES	135Ω	Aux sw. set to 7°, 57°
M9484F1015	24	150	90/160	30/60	2	YES	2		135Ω	OBSOLETE
M9484F1023	24	75	90/160	15/30	2	YES	2	YES	135Ω	Tapped aux shaft
M9484F1031	24	150	90/160	30/60	2	YES	2	YES	135Ω	Tapped aux shaft
M9484F1049	24	150	90/160	30/60	2	YES	2	YES	135Ω	Aux sw. set 35°, 120°
M9484F1056	24	75	90/160	15/30	2	YES	2		135Ω	Tapped, OBSOLETE
M9484F1064	24	150	90/160	30/60	2	YES	2		135Ω	Tapped, OBSOLETE
M9484F1072	24	150	90/160	30/60	2	YES	2		135Ω	OBSOLETE
M9484F4001	24	150	90/160	30/60	2	YES	2	YES	135Ω	Canada, tappd shaft
M9484F4019	24	75	90/160	15/30	2	YES	2	YES	135Ω	Canada, tappd shaft
M9491D1003	24	300	90/160	60/120		YES	1		135Ω	OBSOLETE
M9494D1000	24	300	90/160	60/120		YES	2	YES	135Ω	

MODUTROL MOTOR CROSS REFERENCE

ACCESSORY CROSS REFERENCE

INTRODUCTION
Accessories to Modutrol IV Accessories

This section cross references accessory parts for all Modutrol Motors. This section provides detailed data about accessories listed in ascending numerical order. Please refer to the Application Notes section for further information.

CROSS REFERENCE FORMAT
LEFT PAGES

Information contained in individual rows refers to the accessories listed in the Accessory Part Number column unless otherwise noted in the Comments column. Following is an example of the format used in this section:

Accessory Part Number	Description	For Use With
1	2	3

(1) Lists the accessory part number to be replaced.
(2) Names the accessory and describes the basic function of the device.
(3) Specifies original use of the device or applications where it can be used.

RIGHT PAGES

Information contained in individual rows refer to the accessories listed in the Accessory Part Number column unless otherwise noted in the Comments column. Following is an example of the format used in this section:

Accessory Part Number	Works With Modutrol III?	Works With Modutrol IV?	Modutrol IV Equivalent	Comments
1	2	3	4	5

(1) Lists the accessory part number to be replaced.
(2) Indicates whether the original accessory will operate with a Modutrol III Motor.
(3) Indicates whether the original accessory will operate with a Modutrol IV Motor.
(4) Lists the Modutrol IV equivalent for use with Modutrol IV Motors. Please note that not all Modutrol IV equivalents will work with pre-Modutrol IV Motors. Cross check the selected part to assure operation in your application.
(5) Comments listed in this column provide additional information to consider when replacing the original accessory. This column indicates whether an item requires special handling when applying. Please consider differences carefully.

MODUTROL MOTOR ACCESSORY CROSS REFERENCE

ACCESSORY PART NUMBER	DESCRIPTION	FOR USE WITH
27518	Ball Joint	5/16 inch Rod
101662A	Bracket, external damper mount	Series 90 Modutrol Motors
104643A	Crank Arm Adapter	Drive two dampers from one crank arm
105049P	Motor Mounted Transformer, 120/208/240 Vac	M934, M975
112894FB	Remote Manual Potentiometer, 270Ω	Series 90 Motor
112894FD	Remote Manual Potentiometer, 135Ω	Series 90 Motor
112894FE	Remote Manual Potentiometer, 270Ω	Series 90 Motor
112894GB	Remote Manual Potentiometer, 72Ω	Series 90 Motor
130810A	Cover Mount Transformer, 120 Vac, 50/60 Hz	Modutrol II and Modutrol III Motors
130810B	Cover Mount Transform., 120/208/240 Vac, 60 Hz	Modutrol II and Modutrol III Motors
130810C	Cover Mount Transformer, 220 Vac, 60 Hz	Modutrol II and Modutrol III Motors
130810D	Cover Mount Transformer, 208/240 Vac, 50/60 Hz	Modutrol II and Modutrol III Motors
130810E	Cover Mount Transformer, 208Vac, 60 Hz	Modutrol II and Modutrol III Motors
130810F	Cover Mount Transformer, 240 Vac, 50/60 Hz	Modutrol II and Modutrol III Motors
130810K	Cover Mount Transform., 208/240/480 Vac, 60 Hz	Modutrol II and Modutrol III Motors
198162AA	Internal Transformer, 120/208/240 Vac, 50/60 Hz	Modutrol IV Motors
198162EA	Internal Transformer, 120 Vac, 50/60 Hz	Modutrol IV Motors
198162GA	Internal Transformer, 220 Vac, 50/60 Hz	Modutrol IV Motors
198162JA	Internal Transformer, 24 Vac, 50/60 Hz, Isolation	Modutrol IV Motors
220736A	Auxiliary Switch Kit, 1 Switch	Modutrol IV Tradeline Motors
220736B	Auxiliary Switch Kit, 2 Switches	Modutrol IV Tradeline Motors
203977A	Economizer Adapter Kit	Modutrol IV Motors with W859 Economizer
220738A	Adapter Bracket	Modutrol IV Motors to match Mod III shaft height
220741A	Screw Terminal Adapter	Dampers, Modutrol IV Motors
221455A	Infinitely Adjustable Crank Arm	Dampers, Modutrol IV Motors
221508A	Resistor Board	Includes 4074BYK, 4074EAU, 4074EDC, 4074EED
34343A	Connecting Rod	Dampers, Valves
4074BYK	Resistor Kit - Series 90	2-6 Series 90 in Unison
4074EAU	Resistor Kit - W973	2-3 Series 90 from W973
4074EDC	Resistor Kit - 4 to 20 mA	1 Series 90 from 4 to 20 mA Controller
4074EED	Resistor Kit - 4 to 20 mA	1 to 4 Series 90 from 4 to 20 mA Controller
4074ELR	Heavy Duty Crank Arm	Dampers, 300 lb-in. Modutrol III Motors
4074ELY	Infinitely Adjustable Crank Arm	Dampers, Modutrol III Motors
4074ERU	Weatherproof Kit	Modutrol IV Motors
4074EQE	Heavy Duty Crank Arm	Dampers, 300 lb-in. Modutrol III Motors
4074EUB	Economizer Weatherproofing Kit	W859F
7616BR	Adjustable Crank Arm	Dampers, Modutrol III Motors
7617ADW	Adjustable Crank Arm	Dampers, Modutrol IV Motors
7617DM	Coupling	Explosion Proof Housings
7640QY	Bracket, DR/ZR valve to Modutrol Motor	Modutrol Motors
ES-650-117	Explosion Proof Housing Nelson Electric	Dampers, Modutrol IV Motors without Q607
ES-650-118	Explosion Proof Housing Nelson Electric	Dampers, Modutrol IV Motors
Q100A1007	Valve Linkage	V51B Valves 1-1/2 to 2 inch
Q100A1015	Valve Linkage	V51B Valves 2-1/2 to 3 inch
Q100A1023	Valve Linkage	V51B Valves 4 inch

MODUTROL MOTOR ACCESSORY CROSS REFERENCE

ACCESSORY PART NUMBER	WORKS WITH MOD III?	WORKS WITH MODUTROL IV?	MODUTROL IV EQUIVALENT	COMMENTS
27518	Yes	Yes	27518	
101662A	Yes	Yes	101662A	
104643A	Yes	Yes	220767A	Requires 220738A for mounting on Modutrol IV
105049P	Yes	No	198162AA	
112894FB	Yes	Yes	112894FB	
112894FD	Yes	Yes	112894FD	
112894FE	Yes	Yes	112894FE	
112894GB	Yes	Yes	112894FE	
130810A	Yes	No	198162EA	
130810B	Yes	No	198162AA	
130810C	Yes	No	198162GA	
130810D	Yes	No	198162AA	
130810E	Yes	No	198162AA	
130810F	Yes	No	198162AA	
130810K	Yes	No	198162AA	198162AA is not 480Vac
198162AA	No	Yes	198162AA	
198162EA	No	Yes	198162EA	
198162GA	No	Yes	198162GA	
198162JA	No	Yes	198162JA	
220736A	No	Yes	220736A	
220736B	No	Yes	220736B	
203977A	No	Yes	203977A	
220738A	No	Yes	220738A	
220741A	No	Yes	220741A	
221455A	Yes	Yes	221455A	
221508A	No	Yes	221508A	
34343A	Yes	Yes	34343A	
4074BYK	Yes	Yes	221508A	
4074EAU	Yes	Yes	221508A	
4074EDC	Yes	Yes	221508A	
4074EED	Yes	Yes	221508A	
4074ELR	Yes	Yes	4074EQE	Requires 220738A for mounting on Modutrol IV
4074ELY	Yes	Yes	221455A	Requires 220738A for mounting on Modutrol IV
4074ERU	No	Yes	4074ERU	
4074EQE	Yes	Yes	4074EQE	
4074EUB	No	Yes	4074EUB	
7616BR	Yes	Yes	7617ADW	Requires 220738A for mounting on Modutrol IV
7617ADW	Yes	Yes	7617ADW	
7617DM	Yes	Yes	7617DM	
7640QY	Yes	Yes	7640QY	
ES-650-117	Yes	Yes	ES-650-117	Requires 220738A to use with Modutrol IV
ES-650-118	Yes	Yes	ES-650-118	Requires 220738A to use with Modutrol IV
Q100A1007	Yes	Yes	Q100A1007	Requires 220738A to use with Modutrol IV
Q100A1015	Yes	Yes	Q100A1015	Requires 220738A to use with Modutrol IV
Q100A1023	Yes	Yes	Q100A1023	Requires 220738A to use with Modutrol IV

MODUTROL MOTOR ACCESSORY CROSS REFERENCE

ACCESSORY PART NUMBER	DESCRIPTION	FOR USE WITH
Q181A1007	Auxiliary Potentiometer (1 Potentiometer)	Series 90 motors, includes cover
Q181A1015	Auxiliary Potentiometer (2 Potentiometer)	Series 90 motors, includes cover
Q181A1064	Auxiliary Potentiometer (3 Potentiometer)	Series 90 motors, does not include cover
Q181A1072	Auxiliary Potentiometer (4 Potentiometer)	Series 90 motors, does not include cover
Q209E1002	Cover Mounted Minimum Position Pot 135Ω	Series 70 and 90 Modutrol IV Motors
Q209E1010	Cover Mounted Minimum Position Pot 270Ω	Series 70 and 90 Modutrol IV Motors
Q209F1001	Internal Minimum Position Pot 135Ω	Series 70 and 90 Modutrol IV Motors
Q209F1019	Internal Minimum Position Pot 270Ω	Series 70 and 90 Modutrol IV Motors
Q5001A1006	Valve Linkage, 80 lb, 3/4" lift, 1-3/8" bonnet	V5011, V5013 Valves
Q5001A1014	Valve Linkage, 160 lb, 3/4" lift, 1-3/8" bonnet	V5011, V5013 Valves
Q5001A1022	Valve Linkage, 320 lb, 3/4" lift, 1-3/8" bonnet	V5011, V5013 Valves
Q5001B1004	Valve Linkage, 160 lb, 1-1/2" lift, 1-7/8" bonnet	V5011, V5013 Valves
Q5001B1012	Valve Linkage, 320 lb, 1-1/2" lift, 1-7/8" bonnet	V5011, V5013 Valves
Q5001D1000	Valve Linkage, 80/160 lb, 3/4" lift, 1-3/8" bonnet	V5011, V5013 Valves
Q5001D1018	Valve Linkage, 160/320 lb, 3/4" lift, 1-3/8" bonnet	V5011, V5013 Valves
Q5001D1026	Valve Linkage, 160/320 lb, 3/4" lift, 1-7/8" bonnet	V5011, V5013 Valves
Q601Q1007	Valve Linkage	V5011, V5013 Valves
Q605A1070	Damper Linkage	D640 Damper Family
Q605A1062	Damper Linkage	D640 Damper Family
Q605A1088	Damper Linkage	D640 Damper Family
Q605B1012	Damper Linkage	D640 Damper Family
Q605D1044	Damper Linkage	D640 Damper Family
Q605D1051	Damper Linkage	D640 Damper Family
Q605D1069	Damper Linkage	D640 Damper Family
Q605E1043	Damper Linkage	D640 Damper Family
Q605E1050	Damper Linkage	D640 Damper Family
Q605F1000	Damper Linkage	D640 Damper Family
Q605F1018	Damper Linkage	D640 Damper Family
Q605G1009	Damper Linkage	D640 Damper Family
Q605H1008	Damper Linkage	D640 Damper Family
Q605H1016	Damper Linkage	D640 Damper Family
Q605H1024	Damper Linkage	D640 Damper Family
Q605J1005	Damper Linkage	D640 Damper Family
Q605J1013	Damper Linkage	D640 Damper Family
Q607A1050	Auxiliary Switch 1 SPST	Modutrol II, III, and IV Motors
Q607A1076	Auxiliary Switch 1 SPST	Modutrol I, II, III, and IV Motors
Q607B1067	Auxiliary Switch 2 SPST	Modutrol II, III, and IV Motors
Q607B1083	Auxiliary Switch 2 SPST	Modutrol I, II, III, and IV Motors

MODUTROL MOTOR ACCESSORY CROSS REFERENCE

ACCESSORY PART NUMBER	WORKS WITH MOD III?	WORKS WITH MODUTROL IV?	MODUTROL IV EQUIVALENT	COMMENTS
Q181A1007	Yes	Yes	Q181A1007	
Q181A1015	Yes	Yes	Q181A1015	
Q181A1064	Yes	Yes	Q181A1064	
Q181A1072	Yes	Yes	Q181A1072	
Q209E1002	No	Yes	Q209E1002	
Q209E1010	No	Yes	Q209E1010	
Q209F1001	No	Yes	Q209F1001	
Q209F1019	No	Yes	Q209F1019	
Q5001A1006	Yes	Yes	Q5001A1006	
Q5001A1014	Yes	Yes	Q5001A1014	
Q5001A1022	Yes	Yes	Q5001A1022	
Q5001B1004	Yes	Yes	Q5001B1004	
Q5001B1012	Yes	Yes	Q5001B1012	
Q5001D1000	Yes	Yes	Q5001D1000	
Q5001D1018	Yes	Yes	Q5001D1018	
Q5001D1026	Yes	Yes	Q5001D1026	
Q601Q1007	Yes	Yes	Q5001	Requires 220738A to use Modutrol IV
Q605A1070	Yes	Yes	Q605F	Requires 220738A to use Modutrol IV
Q605A1062	Yes	Yes	Q605F	Requires 220738A to use Modutrol IV
Q605A1088	Yes	Yes	Q605F	Requires 220738A to use Modutrol IV
Q605B1012	Yes	Yes	Q605G	Requires 220738A to use Modutrol IV
Q605D1044	Yes	Yes	Q605H	Requires 220738A to use Modutrol IV
Q605D1051	Yes	Yes	Q605H	Requires 220738A to use Modutrol IV
Q605D1069	Yes	Yes	Q605H	Requires 220738A to use Modutrol IV
Q605E1043	Yes	Yes	Q605J	Requires 220738A to use Modutrol IV
Q605E1050	Yes	Yes	Q605J	Requires 220738A to use Modutrol IV
Q605F1000	Yes	Yes	Q605F1018	
Q605F1018	Yes	Yes	Q605F1018	
Q605G1009	Yes	Yes	Q605G1009	
Q605H1008	Yes	Yes	Q605H1016	
Q605H1016	Yes	Yes	Q605H1016	
Q605H1024	Yes	Yes	Q605H1024	
Q605J1005	Yes	Yes	Q605J1013	
Q605J1013	Yes	Yes	Q605J1013	
Q607A1050	Yes	Yes	220736A	Requires 220738A to use Modutrol IV
Q607A1076	Yes	Yes	220736A	Requires 220738A to use Modutrol IV
Q607B1067	Yes	Yes	220736B	Requires 220738A to use Modutrol IV
Q607B1083	Yes	Yes	220736B	Requires 220738A to use Modutrol IV

MODUTROL MOTOR ACCESSORY CROSS REFERENCE

ACCESSORY PART NUMBER	DESCRIPTION	FOR USE WITH
Q618A1008	Valve Linkage 160 lb force	V5011, V5013 Valves 1/2 to 3 inch
Q618A1016	Valve Linkage 80 lb force	V5011, V5013 Valves 1/2 to 3 inch
Q618A1024	Valve Linkage 160 lb force	V5011, V5013 Valves 1/2 to 3 inch
Q618A1032	Valve Linkage 80 lb force	V5011, V5013 Valves 1/2 to 3 inch
Q68B1005	Auxiliary Potentiometer 86.0Ω	Series 90 Motors
Q68B1013	Auxiliary Potentiometer 58.0Ω	Series 90 Motors
Q68B1039	Auxiliary Potentiometer 34.5Ω	Series 90 Motors
Q7130A1006	Interface Module 4-7, 6-9, 10.5-13.5 Vdc	Series 90 Motors
Q7230A1005	Interface Module 4-20 mA	Series 90 Motors
Q7330A1004	Interface Module W936 Control Interface	Series 90 Motors
Q7630A1001	Interface Module 14-17 Vdc with Min Position	Series 90 Motors
S443A1007	Manual Potentiometer 135Ω	Remote mounted manual control of Series 90 motors
S963B1128	External Minimum Position Potentiometer 135Ω	Series 90 Motors
S963B1136	External Minimum Position Potentiometer 270Ω	Series 90 Motors
W859	Economizer Control	Series 90 Modutrol III
W864	Economizer Control	Series 90 Modutrol III
W899	Economizer Control	Series 90 Modutrol III
W9157	Economizer Control	Series 90 Modutrol IV

MODUTROL MOTOR ACCESSORY CROSS REFERENCE

ACCESSORY PART NUMBER	WORKS WITH MOD III?	WORKS WITH MODUTROL IV?	MODUTROL IV EQUIVALENT	COMMENTS
Q618A1008	Yes	Yes	Q5001	Requires 220738A to use Modutrol IV
Q618A1016	Yes	Yes	Q5001	Requires 220738A to use Modutrol IV
Q618A1024	Yes	Yes	Q5001	Requires 220738A to use Modutrol IV
Q618A1032	Yes	Yes	Q5001	Requires 220738A to use Modutrol IV
Q68B1005	Yes	Yes	Q68B1005	
Q68B1013	Yes	Yes	Q68B1013	
Q68B1039	Yes	Yes	Q68B1039	
Q7130A1006	No	Yes	Q7130A1006	
Q7230A1005	No	Yes	Q7230A1005	
Q7330A1004	No	Yes	Q7330A1004	
Q7630A1001	No	Yes	Q7630A1001	
S443A1007	Yes	Yes	S443A1007	
S963B1128	Yes	Yes	S963B1128	
S963B1136	Yes	Yes	S963B1136	
W859	Yes	Yes	W9157	Requires 203977A to use with Modutrol IV
W864	Yes	No	W9157	
W899	Yes	No	W9157	
W9157	No	Yes	W9157	

Honeywell

Home and Building Control
Honeywell Inc.
1985 Douglas Drive North
Golden Valley, Minnesota 55422-3992

Home and Building Control
Honeywell Limited-Honeywell Limitée
740 Ellesmere Road
Scarborough, Ontario
M1P 2V9

Helping You Control Your World

G. R. • Rev. 11-94 • © Honeywell Inc. 1994 • Form Number 63-8358—1

Printed on recycled paper containing at least 10% post-consumer paper fibers.