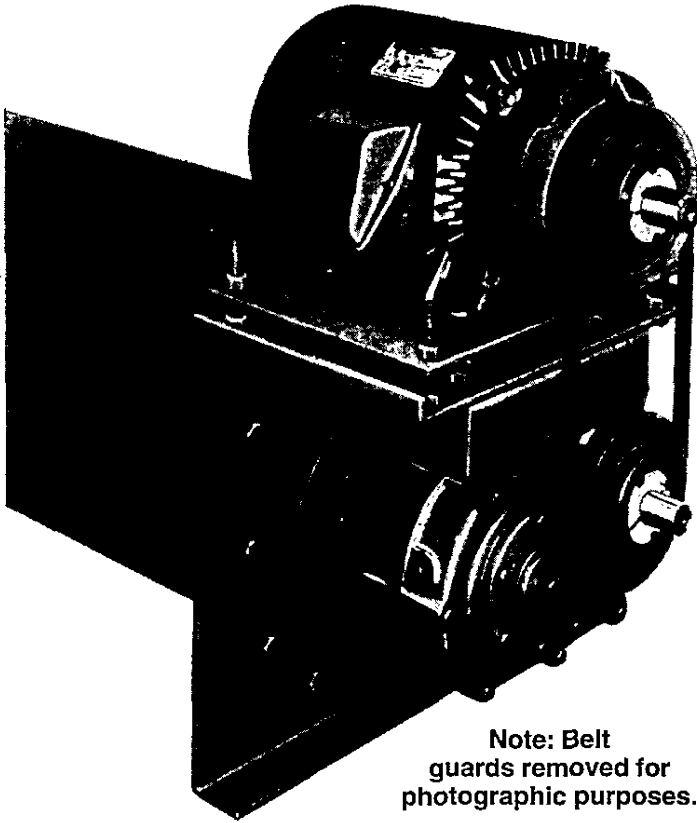


INSTALLATION MANUAL

DODGE® SCD MOTOR MOUNTS

for Screw Conveyor Drives

Sizes 1 Thru 8



Note: Belt guards removed for photographic purposes.

The SCD Motor Mount is a rugged all-steel unit requiring no drilling or foundation. It bolts directly to the long side of the DODGE Screw Conveyor Drive. The top plate will accommodate a wide range of popular NEMA frame motors. Belt tension is easily established by the use of four conveniently placed studs.

INSTALLATION

Note: Refer to Figure 1 for position of all parts before installation.

WARNING: To ensure that drive is not unexpectedly started, turn off and lock out or tag power source before proceeding. Remove all external loads from drive before removing or servicing drive or accessories. Failure to observe these precautions could result in bodily injury.

1. Remove the three bolts required for mounting the SCD Motor Mount from the side of the reducer housing. Install the front and rear supports using the new reducer bolts supplied with the motor mount. Tighten bolts to torque specified in Table 1.
2. Mount bottom plate on supports with center handling hole positioned over adapter side of reducer. Insert bolts, washers and nuts through slotted holes and hand tighten.
3. Thread two nuts on each threaded rod leaving approximately 1" of rod protruding at one end. Insert threaded rods with 1" of threads through corner holes of bottom plate, thread a hex nut on the rod and tighten securely.
4. Slide top plate over the jack screws making sure center handling hole is positioned over adapter side of reducer. Thread a hex nut on the rods and tighten securely.
5. Center the motor and bolt snugly to the mounting plate. Align motor with reducer as shown in Figure 2. Loosen the bottom plate bolts and slide the motor and mounting plate until they are in line with the reducer. Tighten all bolts securely.
6. Install motor sheave and reducer sheave as close to motor and reducer housings as possible. Accurately align the motor and reducer sheave.
7. Install V-belts and tension belts by alternately adjusting the four motor mount jack screws. Make certain that all bolts are securely tightened and that the V-belt drive is properly aligned before operating the Screw Conveyor Drive.

WARNING: Because of the possible danger to persons(s) or property from accidents which may result from the improper use of products, it is important that correct procedures be followed. Products must be used in accordance with the engineering information specified in the catalog. Proper installation, maintenance and operation procedures must be observed. The instructions in the instruction manuals must be followed. Inspections should be made as necessary to assure safe operation under prevailing conditions. Proper guards and other suitable safety devices or procedures as may be desirable or as may be specified in safety codes should be provided, and are neither provided by Baldor Electric nor are the responsibility of Baldor Electric. This unit and its associated equipment must be installed, adjusted and maintained by qualified personnel who are familiar with the construction and operation of all equipment in the system and the potential hazards involved. When risk to persons or property may be involved, a holding device must be an integral part of the driven equipment beyond the speed reducer output shaft.

M112 Thru M824 SCD Motor Mounts

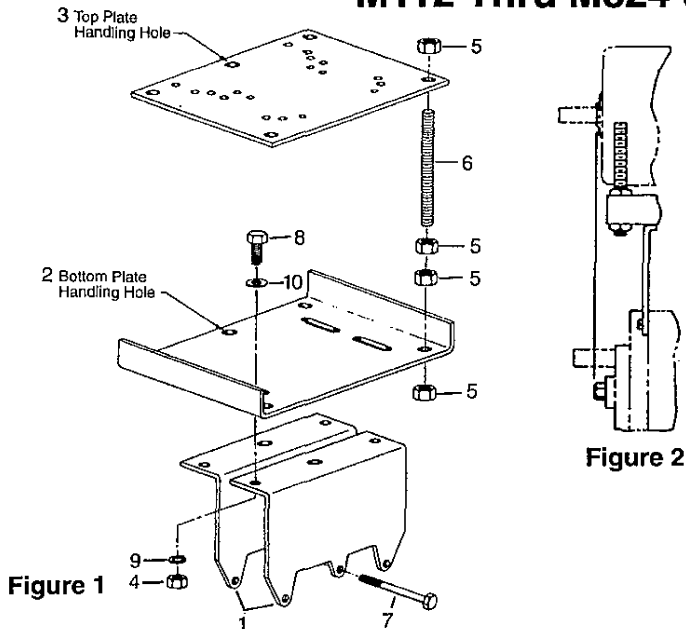


Table 1—Bolt Tightening Torque Values

Screw Conveyor Drive Size	Housing Bolts (in.-lb.)	Screw Conveyor Drive Size	Housing Bolts (in.-lb.)	Screw Conveyor Drive Size	Housing Bolts (in.-lb.)
SCXT109 SCXT115 SCXT125	360	SCXT609 SCXT615 SCXT625	900	SCXT305	600
SCXT209 SCXT215 SCXT225	360	SCXT709 SCXT715 SCXT725	1620	SCXT405	600
SCXT309 SCXT315 SCXT325	600	SCXT815 SCXT825	1620	SCXT505	900
SCXT409 SCXT415 SCXT425	600	SCXT105	360	SCXT605	900
SCXT509A SCXT515A SCXT525A	900	SCXT205	360	SCXT705	1620

SCD Motor Mounts

Motor Mount No.	Used on Drive No.	Screw Diameters		For NEMA Motor Frames *	Part No.
		Top, Right and Left Side Positions	Bottom Position		
M112	SCXT109 SCXT115 SCXT125 SCXT105	6, 9, 12"	6, 9"	143 thru 215	351069
M214	SCXT209 SCXT215 SCXT225 SCXT205	6, 9, 12, 14"	6, 9, 12"	143 thru 215	352069
M316	SCXT309 SCXT315 SCXT325 SCXT305	6, 9, 12, 14, 16"	6, 9, 12, 14"	143 thru 215	353069
M418	SCXT409 SCXT415 SCXT425 SCXT405	9, 12, 14, 16, 18"	9, 12, 14, 16"	143 thru 286	354069
M518	SCXT509A SCXT515A SCXT525A SCXT505	9, 12, 14, 16, 18"	9, 12, 14, 16"	143 thru 286	355169
M620	SCXT609 SCXT615 SCXT625 SCXT605	12, 14, 16, 18, 20"	12, 14, 16, 18"	143 thru 326	356069
M720	SCXT709 SCXT715 SCXT725 SCXT705	12, 14, 16, 18, 20"	12, 14, 16, 18"	143 thru 365	356269
M824	SCXT809 SCXT815 SCXT825	12, 14, 16, 18, 20, 24"	12, 14, 16, 18, 20, 24"	143 thru 365	248469

* Select motor to suit HP requirements.

Note — Mounts to fit troughs with screws up through 24" diameter are available on special order — consult factory.

Replacement Parts for SCD Motor Mounts

Ref. No.	Name of Part	No. Req'd.	M112 Part No.	M214 Part No.	M316 Part No.	M418 Part No.	M518 Part No.	M620 Part No.	M720 Part No.	M824 Part No.
1	MM SUPPORT	2	351170	352170	353170	354182	355170	356206	356270	248479, 248480
2	MM BOTTOM PLATE	1	351180	351180	351180	354183	354183	356213	356267	356267
3	MM TOP PLATE	1	351181	351181	351181	354184	354184	356214	356268	356268
4	HEX NUT	*	407282	407282	407282	407282	407282	407282	407282	407282
5	HEX NUT	16	407122	407122	407122	407279	407279	407279	407281	407281
6	THREADED STUD	4	408004	408004	408004	408003	408003	408003	408591	408591
7	BOLT	3	411731	411731	411732	411733	411734	411735	411736	411737
8	BOLT	*	411102	411102	411102	411102	411102	411102	411102	411105
9	LOCKWASHER	*	419019	419019	419019	419019	419019	419019	419019	419019
10	SAE WASHER	*	419078	419078	419078	419078	419078	419078	419078	419078

* 4 Req'd. on M112, M214, M316, M418, M518; 6 req'd on M620, M720.

M120L Thru M724L SCD Motor Mounts

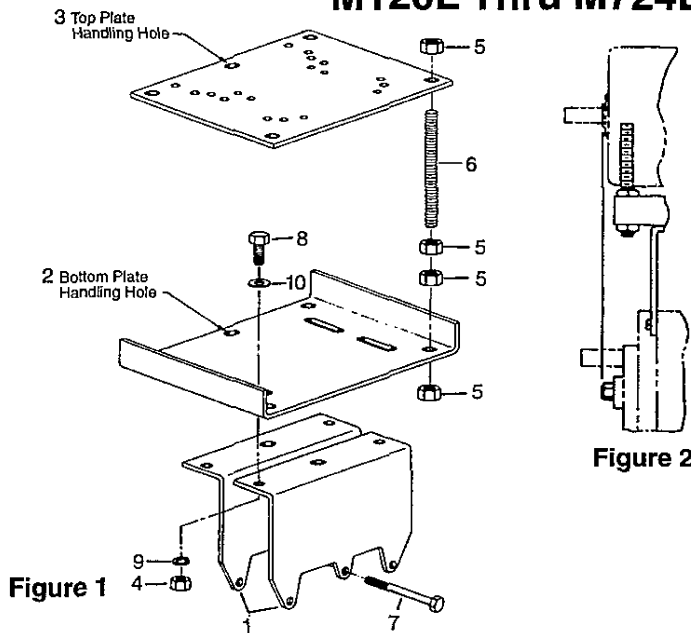


Table 1—Bolt Tightening Torque Values

Screw Conveyor Drive Size	Housing Bolts (in.-lb.)	Screw Conveyor Drive Size	Housing Bolts (in.-lb.)	Screw Conveyor Drive Size	Housing Bolts (in.-lb.)
SCXT109 SCXT115 SCXT125	360	SCXT609 SCXT615 SCXT625	900	SCXT405	600
SCXT209 SCXT215 SCXT225	360	SCXT709 SCXT715 SCXT725 SCXT815 SCXT825	1620	SCXT505	900
SCXT309 SCXT315 SCXT325	600	SCXT105	360	SCXT605	900
SCXT409 SCXT415 SCXT425	600	SCXT205	360	SCXT705	1620
SCXT509A SCXT515A SCXT525A	900	SCXT305	600	—	—

SCD Motor Mounts

Motor Mount No.	Used on Drive No.	Screw Diameters		For NEMA Motor Frames *	Part No.
		Top, Right and Left Side Positions	Bottom Position		
M120L	SCXT109 SCXT115 SCXT125 SCXT105	6, 9, 12, 16, 18, 20"	6, 9, 12, 16, 18"	143 thru 215	272625
M220L	SCXT209 SCXT215 SCXT225 SCXT205	6, 9, 12, 14, 16, 18, 20"	6, 9, 12, 16, 18, 20"	143 thru 215	272626
M320L	SCXT309 SCXT315 SCXT325 SCXT305	6, 9, 12, 14, 16, 18, 20"	6, 9, 12, 14, 16, 18, 20"	143 thru 215	272627
M424L	SCXT409 SCXT415 SCXT425 SCXT405	9, 12, 14, 16, 18, 20, 24"	9, 12, 14, 16, 18, 20, 24"	143 thru 286	272628
M524L	SCXT509A SCXT515A SCXT525A SCXT505	9, 12, 14, 16, 18, 20, 24"	9, 12, 14, 16, 18, 20, 24"	143 thru 286	272629
M624L	SCXT609 SCXT615 SCXT625 SCXT605	12, 14, 16, 18, 20, 24"	12, 14, 16, 18, 20, 24"	143 thru 326	272630
M724L	SCXT709 SCXT715 SCXT725 SCXT705	12, 14, 16, 18, 20, 24"	12, 14, 16, 18, 20, 24"	143 thru 326	272631
M824L	SCXT815 SCXT825	12, 14, 16, 18, 20, 24"	12, 14, 16, 18, 20, 24"	143 thru 365	248469

* Select motor to suit HP requirements.

Note — Mounts to fit troughs with screws up through 24" diameter are available on special order — consult factory.

Replacement Parts for SCD Long Motor Mounts

Ref. No.	Name of Part	No. Req'd.	M120L Part No.	M220L Part No.	M320L Part No.	M424L Part No.	M524L Part No.	M624L Part No.	M724L Part No.
1	MM SUPPORT	2	272635	272636	272637	272638	272639	272640	272641
2	MM BOTTOM PLATE	1	351180	351180	351180	354183	354183	356213	356213
3	MM TOP PLATE	1	351181	351181	351181	354184	354184	356214	356214
4	HEX NUT	*	407282	407282	407282	407282	407282	407282	407282
5	HEX NUT	16	407122	407122	407122	407279	407279	407279	407281
6	THREADED STUD	4	408004	408004	408004	408003	408003	408003	408591
7	BOLT	3	411731	411731	411732	411733	411734	411735	411736
8	BOLT	*	411102	411102	411102	411102	411102	411102	411102
9	LOCKWASHER	*	419019	419019	419019	419019	419019	419019	419019
10	SAE WASHER	*	419078	419078	419078	419078	419078	419078	419078

* 4 Req'd. on M120L, M220L, M320L, M424L, M524L; 6 req'd on M624L, M724L.



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