MAINTENANCE TECHNICAL SUPPORT CENTER / MAINTENANCE POLICIES & PROGRAMS ENGINEERING / UNITED STATES POSTAL SERVICE

maintenance management order

DATE: July 29, 1998

NO: MMO-052-98

TO: Bulk Mail Centers

FILE CODE: Y

dewa:M94158AC

	Online Change Record											
Change #	Date	Description of Change										
2 4/22/2022 Attachment 2, corrected skill level 4, no longer in use, to level 7.												
1	5/16/2013	This bulletin has been updated to reflect changes to the Attachment 1 Summary. The times have been updated to reflect accurate rollup times using the standard two decimal place rounding.										

This Maintenance Management Order (MMO) provides Preventive Maintenance (PM) guidelines for Towveyor (Takeaway), Type H (ACCO) and supersedes Maintenance Checklist BO74.

The minimum maintenance skill level to perform each task on the various checklists is included in the Minimum Skill Level column. This does not preclude higher level employees from performing any of this work.

WARNING

Various products which require Material Safety Data Sheets (MSDS) may be utilized during the performance of the procedures in this bulletin. Ensure the current MSDS for each product used is on file and available by all employees. When reordering such a product, it is suggested that a current MSDS be requested.

The workhours represented in this MMO reflect the maximum workhours required to maintain the equipment. Given local conditions, management may modify task frequencies.

For questions or comments concerning this bulletin contact the MTSC HelpDesk, either online at **MTSC>HELPDESK>Create/Update Tickets** or call (800) 366-4123.

Rex M. Gallaher Manager Maintenance Technical Support Center Maintenance Policies and Programs

Attachments: 1. Summary of Revised Workload Estimate

2. Towveyor (Takeaway), Type H (ACCO) Master Checklist

SUBJECT: PM Guidelines for Towveyor (Takeaway), Type H (ACCO)

ATTACHMENT 1

-SUMMARY-

REVISED WORKLOAD ESTIMATE

FOR

TOWVEYOR (TAKEAWAY), TYPE H (ACCO)

Routine Servicing (hrs/yr)	Repair* (hrs/yr)	Total Servicing & Repair Time (hrs/yr)	Nonproductive Time ** (hrs/yr)	Total Servicing Per Machine (hrs/yr)
17.12	5.15	22.26	2.23	24.51
	oair estimates based sed on 10% of total s	on 30% of servicing ervicing and repair.		
		TIME TOTAL	<u>S</u>	
	Monthly Tin	ne Total:	0.30 Hrs. ***	

Quarterly Time Total:	3.24 Hrs. ***
Semi-Annual Time Total:	0.09 Hrs. ***

Annual Time Total: 0.17 Hrs. ***

NOTE

The time shown does not allow for multiple assemblies on any equipment. Should multiple assemblies exist, the time must be modified at the local level to account for those occurrences. Other unique site conditions that requires additional time are to be addressed at the local level.

*** These times are provided for data entry for the MARS System.

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ATTACHMENT 2

TOWVEYOR (TAKEAWAY), TYPE H MASTER CHECKLIST

03-TOWVE-ZZ-008-M

The "Part or Component" column for each step on the Master Checklist provides a "Frequency Code" designation followed by a letter or series of letters. These letters correspond to the frequency codes as published in MS-63 and specify the frequency for which that instruction (step) must be performed. These frequency codes are in compliance with NMICS superseding route structure. The possible frequencies and their codes are given in the table below:

Table 2-1. MS-63 (NMICS) Frequency-Codes

<u>CODE</u>	FREQUENCY	DESCRIPTION
A B C D E F G H J K L M N P Q S T U V W X	ANNUAL BI-WEEKLY BI-MONTHLY DAILY DAILY DAILY DAILY DAILY DAILY BI-I SEMI-WEEKLY BI-ANNUAL TRI-ANNUAL MONTHLY QUAD-ANNUAL QUINT-ANNUAL QUINT-ANNUAL QUINT-ANNUAL QUARTERLY SEMI-ANNUAL TOURLY TOURLY WEEKLY TOURLY	Once every 13 APs. Once every 2 weeks Once every 2 APs. Once a day; 7 days a week. Once a day; 6 days a week. Once a day; 5 days a week. Once a day; 4 days a week. Once a day; 3 days a week. Once a day; 3 days a week. 2 days a week. Once every 2 years. Once every 2 years. Once every 3 years. Once every 4 years. Once every 4 years. Once every 5 years. 4 times every 13 APs. Twice every 13 AP. 3 times a day; 7 days a week. Twice a day; 6 days a week. Once a week. Twice a day; 6 days a week.
Y Z	TOURLY TOURLY	3 times a day; 5 days a week. Twice a day; 5 days a week.

SAFETY

1. COMPLY WITH ALL SAFETY PRECAUTIONS. - 3 All

l	U.S. Postal Service				IDENTIFICATION										
Maint	Maintenance Checklist			ork ode			luipm crony			-	ass ode	Ν	lumb	er	Туре
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	Equipment Nomenclature								quen	,					
TOWVEYOR	R (TAKE	AWAY), TYPE H	ACCO M94158AC								ALL				
Part or				ask Statement and Instruction						Est.	Min				
Component No. (Comply			with a	all cur	rent	safet	y prec	cautio	ons)					Time	Skill
	1													Req'd	Level

STATEMENTDisconnect power and activate lockouts as min
appropriate while working on this equipment. Where
air pressure is required for cleaning, use a low air
pressure (30 psi or less) air source. Eye protection
-M-Q-S-A-(goggles or face shield) must be used when utilizing
compressed air for cleaning. Check to ensure all
employees are clear of the machine. Report safety
deficiencies to your supervisor immediately upon
detection.

AA-1 2. CHECK FOR MAIL. - Look for loose mail while 2.5 7 performing activities. min

Frequency Code: -M-Q-S-A-

WARNING

Discard solvent soaked materials according to local procedures to prevent spontaneous combustion.

WARNING

Be cautious when working around or on equipment when power has been applied.

CH-1 TOWPIN CHAIN	3.	CLEAN as follow	AND CHECK CHAIN Clean and check chain vs:	45 min	7
Frequency		1.	Clean chain by blowing with high pressure air. Run at least one (1) complete cycle.		
Code: Q-S-A		2.	Using a brush, thoroughly clean with solvent.		
QON		3.	Check for bent or cracked links.		
		4.	Look for evidence of excessive wear at link ends or connecting pins.		

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Mainte	enance	e Checklist	Work Code	Equipm Acrony		Class Code	Nun	nber	Туре	
			0 3 T O W V			ZZ) 8	M	
Equipment Nomencla TOWVEYOR		EAWAY), TYPE H	Equipme	nt Model	Bulletin F M941	ilename 58AC	Freque	ency ALL		
Part or Component	ltem No.			ent and Instruct rrent safety pred				Est. Time Req'd	Min Skill Level	
CH-1 TOWPIN (Cont.)	4.		LUBRICATE CHAIN Pour oil slowly over return strand of chain for two (2) complete turns.							
Frequency Code: -M-Q-S-A-										
SYSTEM	5.	POWER DOWN			-			1	7	
Frequency Code: Q-S-A-		down the equipment prescribed by the developed in accorn Management Order procedures.	proced dance	ures conta with, the c	iined in urrent N	i, or lo ⁄lainten	cally ance	min		
Frequency Code: Q-S-A-	6.	REMOVE COVER barricades around c			cover p	olates. I	Erect	10 min	7	
			WA	RNING						
		Eye protecti must be wor for cleaning.								
CS-1 CONTAINER SENSOR SWITCHES	7.	CLEAN PIT, SWI ARM Clean pit, follows:						10 min	7	
_		1. Clean dirt	and acc	umulated m	naterial	from pi	t.			
Frequency Code: Q-S-A-		2. Clean swi solvent.	tch hou	using and	actuato	or arm	with			

U	.S. Posta	l Service			IDENTIF	ICATION			
Mainte	enance	e Checklist	Work Code	Equipm Acrony		Class Code	Nur	nber	Туре
			0 3	TOW	т т <u>т</u>	ZZ		0 8	M
Equipment Nomencla TOWVEYOR		EAWAY), TYPE H	Equipmer A	nt Model	Bulletin F M941	ilename 58AC	Freque	ency ALL	
Part or Component	ltem No.			ent and Instructi rent safety prec				Est. Time Req'd	Min Skill Level
CS-1 CONTAINER SENSOR SWITCHES (Cont.) Frequency Code: Q-S-A-	8.	CHECK AND LUE lubricate switch mod 1. Check swit 2. Check fre travel. 3. Lube neces	unting a ch mou edom i c	s follows: nting for se of moveme	curity.			2 min	7
CD-1 Frequency Code: Q-S-A-	9.	CHECK AND LUE lubricate sprocket a 1. Check spro 2. Lube neces 3. Check for gear teeth.	BRICATI s follows ocket for ssary pa smooth	E SPROCI s: uneven wo arts.	ear.	-		5 min	7
Frequency Code: Q-S-A-	10.	CLEAN PIT Clear	n Pit of a	all dirt and o	debris.			5 min	7
DA-3 DRIVE ASSY Frequency	11.	CLEAN MOTOR A reducer as follows: 1. Clean moto		-	-	motor	and	10 min	7
Code: Q-S-A- Frequency Code: Q-S-A-	12.	2. Clean vent CHECK MOTOR evidence of lubricat	Check I	motor and				5 min	7

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Mainte	enance	Checklist	Work Equipm Code Acrony	ym	Class Code		mber	Туре
Equipment Nomencla	ature		0 3 T O W Equipment Model	VEBulletin F	ZZ	0 Frequ	0 8 ency	М
TOWVEYOR	R (TAKE	AWAY), TYPE H	ACCO	M941	58AC		ALL	
Part or Component	ltem No.		sk Statement and Instruct with all current safety pre				Est. Time Req'd	Min Skill Level
DA-3 DRIVE ASSY (Cont.)	13.	CHECK GREASE grease level and be		ARING	S C	heck	20 min	7
Frequency Code:		1. Check grea	ase level of reduce	er. Add a	is requi	red.		
Q-S-A-		2. Check bea	rings replace as n	ecessar	у.			
Frequency Code:	14.	LUBRICATE MOTO	DR Lubricate mo	tor as fo	llows:		4 min	7
A-		1. Remove gr	rease relief plug.					
		2. For motors GR-2.	s 1/2 HP and over	, apply	2 pum	os of		
			WARNING					
			when working a hen power has b					
SYSTEM	15.			RVICE.			3	All
Frequency Code: A-		equipment to servi contained in, or loca current Maintenau providing lockout/re	ally developed in a nce Managemer	ccordar	nce with		min	
DA-3 DRIVE ASSY	16.	RUN MOTOR Ru	n motor for one mi	nute			1 min	7
Frequency Code: A-								
SYSTEM	17.	POWER DOWN		-			1	7
Frequency Code: A-		down the equipmen prescribed by the developed in accor Management Orde procedures.	procedures conta dance with, the c	ained in urrent N	i, or lo /lainten	cally ance	min	

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Maint	enance	e Checklist	Work Code	Equipr Acror		Class Code	Nur	nber	Туре			
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		EAWAY), TYPE H		nt Model	Bulletin F	ilename 58AC	Freque	ency ALL				
		LAWAT), TIPE H	-		101341	JOAC		ALL				
Part or Component	Item No.	-	Task Statement and Instruction (Comply with all current safety precautions)									
DA-3 DRIVE ASSY	18.	REPLACE GREA grease relief plug.	PLACE GREASE RELIEF PLUG Replace motor ase relief plug.									
Frequency Code: A-												
Frequency Code: Q-S-A-	19.	CHECK V-BELTS sheaves as follows		HEAVES.	- Check	V-belts	and	2 min	7			
		1. Check alignmen		and sheav	ves for	wear	and					
		2. Check sh	eave set	screws ar	id belt te	nsion.						
Frequency Code: Q-S-A-	20.	CLEAN V-BELT material from bel rags.					0	4 min	7			
Frequency Code: Q-S-A-	21.	CHECK AND CL Check and clean of					:Н	10 min	7			
Q-3-A-		1. Check cri	tical spee	ed switch.								
		2. Check fle and dama		upling and	set scre	ws for	wear					
		3. Wipe clea	an.									

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		e Checklist	Work	Equipm	ent	Class	Nha		Turne
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Equipment Nomencla			Equipme	nt Model	Bulletin F	ilename	Frequ	ency	
TOWVETOR		EAWAY), TYPE H	A	003	W941	58AC		ALL	
Part or Component	ltem No.			ent and Instruct rrent safety pred				Est. Time Req'd	Min Skill Level
		Discard s according to spontaneous	olvent			erials event			
DA-3 DRIVE ASSY (Cont.)	22.	CHECK AND CLE sprocket as follows	AN SP		- Checl	k and c	lean	5 min	7
Frequency Code:		1. Check spre	ocket fo	r wear and	alignme	ent.			
Q-S-A-		2. Wrench te	st set sc	rews.					
		3. Clean spro	ocket wit	h solvent a	nd rags	-			
PS-1 PIN STOP ASSY	23.	WIPE MOTOR AN reducers clean.	ND REI	DUCERS.	- Wipe	motor	and	2 min	7
Frequency Code: Q-S-A-									
Frequency Code: Q-S-A-	24.	CHECK MOTOR A motor and reducer leakage.						2 min	7
Frequency Code: Q-S	25.	LUBRICATE REDU GR-2 to reducer.	JCER -	Add two (2	2) shots	of lubr	icant	2 min	7
Frequency Code: Q-S-A-	26.	CHECK AND LL Check and lubricate					R	2 min	7
~ - / ·		1. Check sp damage.	ring ret	ainer pivot	arm f	or wea	ar or		
		2. Lightly lub	e pivot p	oints with I	HY-3.				

l	J.S. Posta	I Service	IDENTIFICATION									
Maint	enance	e Checklist	Work Code		luipm crony			Clas: Code		Nur	nber	Туре
mann			0 3	TO	W	V	Е	-			0 8	M
Equipment Nomencla			Equipmer	nt Model		Bulle	tin F	ilenam	e	Freque	ency	
TOWVEYOR	R (TAK	EAWAY), TYPE H	Α	CCO		MS	941	58AC	;		ALL	
Part or Component	ltem No.		Task Statement and Instruction (Comply with all current safety precautions)									Min Skill Level
PS-1 PIN STOP ASSY (Cont.)	27.	CHECK AND LUB and lubricate pivoti	ng track	as follo	ws:	_			Ch	eck	2 min	7
Frequency Code: Q-S-A-		 Check pive Lightly lub 	C C					age.				
Frequency Code: Q-S-A-	28.	LUBRICATE SURI lube the contacting with HY-3.									2 min	7
Frequency Code: Q-S-A-	29.	CLEAN PIT, SW ARM Clean pit, follows:									10 min	7
		1. Clean dirt	and fore	ign ma'	teria	al fro	m p	it.				
		2. Clean sw solvent.	itch hou	sing a	nd	actu	iato	r arr	n١	with		
Frequency Code: Q-S-A-	30.	CHECK SWITCH Check switch mo movement in direct	unting a	ind ac	tuat						3 min	7
TU-1 TAKE-UP ASSY	31.	CHECK AND LUB assembly. Lubrica				Cł	nec	k Tak	κe-ι	ıp	5 min	7
Frequency Code:												

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Maintenance Checklist			WorkEquipmentClassCodeAcronymCode			Number Type			
			0 3 T O W	VE	ZZ	-	0 8	М	
Equipment Nomenclature TOWVEYOR (TAKEAWAY), TYPE H			Equipment Model	Bulletin Fi M9415		Frequ	ency ALL		
Part or Component	Item No.	Ti (Comply)	Est. Time	Min Skill					
							Req'd	Level	
IB-1 IDLER	32.		AN SPROCKET AI			(. -	15	7	
BOX		Check and clean sprocket and idler box as follows: min							
Frequency 1. Check sprocket for wear and alignment. Code:									
Q-S-A-		 Wrench test set screws to determine tightness of sprocket or shaft. 							
		3. Clean sprocket using solvent and rags.							
		4. Grease fit	tings.						
		5. Wipe clea	n.						
		6. Clean idle	er box.						
Frequency Code:	33.	CHECK AND CL clean speed switch	10 min						
Q-S-A-		1. Check crit	tical speed switch.						
		2. Check fle and dama	xible coupling and a	set screv	vs for v	wear			
		3. Wipe clea	n.						
AT-1 TRACK	34.		Check entire lengt	1 min/	7				
Frequency Code: -M-Q-S-A		wear bars.					min/ 50 ft.		
ZZ-1 ROUTE COMPLETION Frequency Code: Q-S-A-	35.	REPLACE PLATE	S Replace all cov	er plates	5.		10 min	7	

U.S. Postal Service Maintenance Checklist			IDENTIFICATION									
			Work Code 0 3	т (Equipm Acron	ym	Е	Class Code ZZZ		Number 0008 Frequency ALL		Туре М
Equipment Nomenclature TOWVEYOR (TAKEAWAY), TYPE H				nt Mode		Bull	etin I	− Filena 58A	me			
Part or Component	Item No.		Task Statement and InstructionEst.nply with all current safety precautions)TimeReq'd								Min Skill Level	
CLEAN-UP Frequency Code: -M-Q-S-A-	36.	CLEAN- UP Ensure all tools, lubricants, rags, etc., are 3 All removed from the work area. Report all deficiencies to min your supervisor.										
			WA	RNIN	3							
		Be cautious equipment w										
SYSTEM Frequency Code: -M-Q-S-A-	37.	RESTORE EQUIPMENT TO SERVICE. - Restore 3 equipment to service as prescribed by the procedures min contained in, or locally developed in accordance with, the current Maintenance Management Order (MMO) providing lockout/restore procedures.								All		
START-UP Frequency	38.	START-UP Perform normal start-up procedures as 5 A follows:							All			
Code: -M-Q-S-A-		 Start or pre Check for 	•	•								
		3. Report all order to ir make nece	nitiate a	ny ne	cess	ary	wo	rk o	rde	rs to		

debris.