LUBRICATION AND SERVICING SCHEDULE

NYCT X3-45 Commuter DOB 2400-2489

		Item	Proceed to maintenance operation every (miles)											Lubricant
			6 000	12 000	18 000	24 000	30 000	50 000	100 000	150 000	200 000	250 000	
GENERAL														
1	Flexible hoses - thoroughly inspect all hoses							●					
01 ENGINE														
1	Engine oil & filter - heavy operation condition, change	17		●										A
2	Drive belts and idlers – visually inspect for signs of deterioration, cracks or frayed material		●											
3	Drive belts - change							●						
4	Air cleaner - replace filter element when indicated by restriction indicator or according to this interval whichever comes first	27							●					
5	Valves & injectors - initial adjust								●					
6	Valves & injectors - check & adjust											●		
7	Automatic belt tensioners & idler pulleys inspection – Remove belts, check for noisy bearings, play, bushing play. Perform "AUTOMATIC BELT TENSIONER AND IDLER PULLEYS INSPECTION" procedure							●						
03 FUEL														
1	Primary & secondary fuel filters - change at every engine oil change	28		●										
04 EXHAUST AND AFTERTREATMENT SYSTEM														
1	DEF tank - drain & clean with water, clean filler neck strainer							●						
2	DPF filter - either clean or replace at **66 000 miles**[1]													
3	DEF pump filter element – first change at 100 000 miles then according to chart									●				
4	Diffuser assembly, rain cap & drain tube – check proper functioning, clean					●								
05 COOLING														
1	Coolant surge tank - test coolant solution	21		●										
2	Coolant filter - change (Fleet Charge Fully Formulated Coolant)	18		●										
3	Radiator fan gearbox - check oil level	20		●										G
4	Radiator - inspect exterior core & clean with low pressure water jet if necessary							●						
5	Radiator fan gearbox - change oil	20							●					G
6	Cooling system - drain, flush & refill (Fleet Charge 50/50 Fully Formulated Coolant)	21							●					C
06 ELECTRICAL														
1	HD10 Bosch alternators drive belt - replace							●						
2	HD10 Bosch alternators brushes - check & replace brushes if necessary							●						
3	Battery terminals - clean & coat terminals	30						●						
07 TRANSMISSION [2]														
1	**Filled with TES389 approved fluid** - change transmission fluid, Main & Lube filter	16	●											I
2	**Severe vocation filled with TranSynd or TES295 synthetic fluid only, no mixture**[3] **& using High-Capacity filters**[4]**.** Transmission fluid - change every **84 000 miles**	16												H
3	**Severe vocation filled with TranSynd or TES295 synthetic fluid only, no mixture**	16												H

[1] Based on 71347mi on average before 4500hrs at Yukon depot and 55782mi on average before 4500hrs at Ulmer depot. Median value=63565mi, increased to 66000mi to fit with 6000mi interval based schedule.

[2] Allison Transmission recommends that customers use fluid analysis as the primary method for determining fluid change intervals. In the absence of a fluid analysis program, the fluid change interval listed in the chart above should be used. Change filters according to the Table 1 & Table 2 even if a fluid analysis shows that the fluid doesn't need to be changed.

[3] When the transmission contains a mixture of fluids (defined as the quantity of non-TranSynd or non-TES 295 fluid remaining in the transmission after a fluid change combined with the quantity of TranSynd or TES295 required to fill the transmission to the proper level), perform the fluid & filter change according to the TES389 intervals.

[4] Extended TranSynd or TES 295 fluid & filter change intervals are only allowed with Allison High-Capacity filters.

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	& using High–Capacity filters. Transmission Main & Lube filters – change every **42 000 miles**												
	09 PROPELLER SHAFT												
1	Perform Spicer's Driveshaft Assembly Inspection Procedures	34	●										
2	Grease one fitting on each universal joint	34				●							K
	10 FRONT AXLE												
1	Steering knuckle (king) pins - grease two fittings per knuckle	9	●										K
2	Steering knuckle (king) pins - inspect	9					●						K
	11 REAR AXLES												
1	Drive axle - check oil level, add if necessary	35	●										
2	Tag axle lever pivot - grease one fitting on each pivot	15	●										K
3	Drive axle - change oil, clean breathers	35				●							E
4	Drive axle - change oil, clean breathers (with full synthetic oil)	35							●				F
	12 BRAKE & AIR												
1	Brakes – check caliper running clearance **at brake pad replacements**												
2	Brake – check pad wear indicator. Visually check condition of the slack adjuster cap & guide pin covers		●										
3	Air tanks - drain water from all tanks	7		●									
4	Haldex Consep Condenser/Separator - inspect			●									
5	Brakes – check caliper movement along guide pins, check sealing elements (boots). Check proper functioning of the adjuster			●									
6	Accessories air filter - change filter element	3							●				
7	Air dryer - change cartridge	36							●				
	13 WHEELS, HUBS & TIRES												
1	Hub bearing - inspect						●						
	14 STEERING												
1	Steering tie rod ends - clean & grease one fitting at each end	40	●										K
2	Drag link ends - clean & grease one fitting at each end	4	●										K
3	Steering damper cylinder - grease one fitting at rod end	39	●										K
4	Drag link end & tie rod end ball joints - inspect for corrosion		●										
5	Power steering reservoir filter cartridge - replace	29						●					
6	Power steering fluid - replace	29								●			B
	16 SUSPENSION												
1	Air bellows - inspect		●										
	18 BODY												
1	Front bumper, front service compartment & evaporator compartment door latch, grease fitting							●					K
	22 HEATING & AIR CONDITIONING												
1	Passengers HVAC unit return air filters (2) - clean	10	●										
2	Evaporator compartment door fresh air intake filter - clean		●										
3	Parcel rack fans air filter – clean		●										
4	Driver HVAC unit return & fresh air filters – clean	10	●										
5	A/C compressor - check oil level, add if necessary	25	●										D
6	A/C receiver tank - check refrigerant level, add if necessary	37		●									
7	Refrigerant moisture indicator - check, replace filter dryer unit according to moisture indicator	38						●					
8	Passengers & Driver HVAC units - clean heater core with low pressure water hose								●				
9	Passengers HVAC unit - clean evaporator core with low pressure water hose								●				

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10	Passengers HVAC unit – clean condenser core with low pressure water hose							●				

	CHANGE LOG - LUBRICATION AND SERVICING SCHEDULE	DATE
1	In table heading, “ODOMETER READING IN MILE” removed	09/22/2014
2	UPDATED: 01 ENGINE – Drive belts & idlers visual inspection was 12 000mi, changed to 6 000mi. Automatic belt tensioners & idlers bearing play etc. was 12 000mi, changed to 50 000mi	09/22/2014
3	UPDATED: 01 ENGINE –Automatic belt tensioners & idlers bearing play etc. was 50 000mi, changed to 30 000mi	10/02/2014
4	UPDATED: 01 ENGINE –Automatic belt tensioners & idlers bearing play etc. was 30 000mi, changed to 50 000mi	12/08/2014
5	UPDATED: 12 BRAKE & AIR SYSTEM – Caliper running clearance check was 6 000mi, changed to “at brake pad replacements”	03/25/2015
6	UPDATED: 12 BRAKE & AIR SYSTEM – Brake calipers visual and functional checks separated. Visual check was 12 000mi, changed to 6 000mi	03/25/2015
7	UPDATED: 07 TRANSMISSION – Filled with TES389 approved fluid – change transmission fluid, Main & Lube filters was 12 000mi, changed to 6 000mi	11/11/2015
8	UPDATED: 07 TRANSMISSION – Severe vocation, filled with TranSynd or TES295 synthetic fluid only, no mixture & using High Capacity filters – change transmission fluid was 150 000mi, changed to 84 000mi.	
9	ADDED: 07 TRANSMISSION – Severe vocation, filled with TranSynd or TES295 synthetic fluid only, no mixture & using High Capacity filters – change Main & Lube filters every 42 000mi	
10		
11		
12		
13		
14		