



## Introduction

### Plan subject to change

This cascade plan is subject to change based on Fleet operational requirements including to avoid expensive repairs on older appliances, to accommodate peaks in demand for relief or training appliances, and changes in the approved fleet allocation.

Timings are indicative and subject to change. Generally, appliances cascading to stations a long distance away (e.g. inter-island) or requiring more changes to fit out (e.g. 464 ladder changes) will take longer than those that are going to a station a short distance away with little or no changes to fit out.

For any queries regarding this plan please contact your Region Fleet Co-ordinator or the National Fleet Manager.

#### Note:

- There are no Type 1 cascades listed as this is currently under review.
- There are no Type 2 cascades listed as the destination stations for the next Type 2 appliances are yet to be determined.

## Appliance cascade plan

The appliance cascade plan and schedule resulting from the new appliance deliveries up to December 2018 is:

New appliances				Cascading appliances							
Type	Build #	Delivery month	Station	New appliance delivery date + one month		New appliance delivery date + two months		New appliance delivery date + three months		New appliance delivery date + four months	
				Cascading appliance	Destination station	Cascading appliance	Destination station	Cascading appliance	Destination station	Cascading appliance	Destination station
1	1	May 2017	Sheffield	1995 Mitsubishi FK160 TK7748	TBD						
1	2	Feb 2018	Waikouaiti	1987 Hino FF173 MM8619	TBD						
1	3	Mar 2018	Waitakere	1988 Mitsubishi FP418 NI8282	Dispose						

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				Cascading appliance	Destination station	Cascading appliance	Destination station	Cascading appliance	Destination station	Cascading appliance	Destination station
1	4	Mar 2018	Matakana	1988 Mitsubishi FP418 NQ5630	Dispose						
1	5	Apr 2018	Whangarei Heads	1991 Hino FD162LA PR9893	TBD						
1	6	Apr 2018	Taneatua	1992 Hino FD1017 RH3129	TBD						
1	7	May 2018	Kamo	2006 Iveco Eurocargo DMJ813	TBD						
1	8	May 2018	Little River	1988 Hino FD162LA NP3740	TBD						
1	9	May 2018	Kinloch	1993 Mitsubishi FK160 RQ5134	TBD						
1	10	May 2018	Wairoa	1993 Dennis Rapier CMJ50	TBD						
1	11	Jun 2018	Waiatarua	1993 Mitsubishi FK160 SB6751	TBD						
1	12	Jun 2018	Waipu	1995 Mitsubishi FK160 TF3179	TBD						
1	13	Jul 2018	St Andrews	1996 Mitsubishi FK160 UN2185	TBD						
1	14	Jul 2018	Southbridge	1997 Mitsubishi FK160 WO4373	TBD						
1	15	Aug 2018	Portland	1998 Mitsubishi FK195 XB5944	TBD						
1	16	Sep 2018	Te Kuiti	1998 Mitsubishi FK195 XD3571	TBD						

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				Cascading appliance	Destination station	Cascading appliance	Destination station	Cascading appliance	Destination station	Cascading appliance	Destination station
1	17	Sep 2018	Laingholm	1998 Mitsubishi FK195 XA3428	TBD						
1	18	Oct 2018	Himatangi Beach	1998 Mitsubishi FK195 XC3350	TBD						
1	19	Oct 2018	Methven	1999 Mitsubishi FK195 XI8439	TBD						
1	20	Nov 2018	Governors Bay	2000 Mitsubishi FK195 ZE9538	TBD						
1	21	Nov 2018	Waihi	2001 Mitsubishi FK195 YZ7672	TBD						
1	22	Dec 2018	Te Anau	2002 Mitsubishi FK195 AMN418	TBD						
1	23	Dec 2018	Cust	2013 Isuzu NQR500C GPH559	TBD						
1	24	Jan 2019	Ashburton	2016 Iveco Eurocargo JWF977	TBD						
3	21		Takapuna	2011 Scania P310 FZM122	Whangarei 121	1996 Scania P93 UN8281	TBD				
3	22		Avondale	2008 Scania P310 ESH918	Auckland 403	1996 Scania P93 UD6661	TBD				
3	23		Hastings	2010 Scania P310 FKY479	Palmerston North 217	1998 Scania 94DB XB5945	New Plymouth 613	1990 Scania G93M PT2890	TBD		
3	24		St Albans	2010 Scania P310 FJP193	Timaru 801	1996 Scania P93ML UI3936	TBD				

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				Cascading appliance	Destination station	Cascading appliance	Destination station	Cascading appliance	Destination station	Cascading appliance	Destination station
3	25		Thorndon	2015 MAN TGM 15.290 JAA62	Karori 261	2008 Scania P310 EPY463	Area 1601	1998 Scania 94DB XB5160	Trentham 481	1989 Scania G93M OS1661	TBD
3	26		Mangere	2010 Scania P310 FPS462	Birkenhead 821	2006 Scania P94 DNF469	Birkenhead 822	1987 Mitsubishi FP418 NM9426	Dispose		
3	27		Otara	2009 Scania P310 EWJ485	Silverdale 901	2001 Dennis Sabre FFR829	TBD				
3	28		Auckland City	2015 MAN TGM 15.290 HWD384	Henderson 657	2010 Scania P310 FJP156	Whangarei 127	1999 Scania 94DB XD3579	Northland 414	1988 Mitsubishi FP418 NN2243	Dispose
3	29		Wellington City	2014 MAN TGM 15.290 HPG145	Porirua 311	2009 Scania P310 EWJ477	NTCR 154	1994 Mitsubishi FP270 SX1876	TBD		
3	30		Grey Lynn	2015 MAN TGM 15.290 HYQ165	Albany 851	2007 Scania P94 DSD154	Auckland 402	1990 Scania G93M OS3601	TBD		
3	31		Parnell	2015 MAN TGM 15.290 JCT115	Mt Roskill 261	2010 Scania P310 FRD252	NTCR 151	1997 Scania 94DB WQ4775	Mount Maunganui 722	1990 Scania G93M PK389	TBD
3	32		Balmoral	2015 MAN TGM 15.290 JAA112	Onehunga 221	2007 Scania P94 DQZ350	West Harbour 672	1989 Scania G93M OH7491	TBD		
3	33		Rotorua	2009 Scania P310 ETP615	Taupo 217	1997 Scania 94DB WS5851	Taupo 212	1988 Mitsubishi FP418 NU3313	Dispose		
3	34		Newtown	2015 MAN TGM 15.290 JJE408	Hutt City 407	2011 Scania P310 FYB288	Porirua 317	2006 Scania P94 DLH661	Remutaka 491	1998 Scania 94DB XB5951	Porirua 312
3	35		Hamilton	2015 MAN TGM 15.290 JCT65	Pukete 431	2008 Scania P310 EPD659	Region 206	1998 Scania 94DB WX2506	Region 207	1996 Scania P93 UK5795	TBD
3	36		Sockburn	2015 MAN TGM 15.290 JGY376	Hastings 567	1998 Scania 94DB XB5949	Hawera 551	1989 Scania G93M ON400	TBD		
3	37		Christchurch City	2015 MAN TGM 15.290 JHU481	Johnsonville 287	2011 Scania P310 FSN223	Paraparaumu 377	1998 Scania 94DB XA5318	Rangiora 761	1990 Scania G93M OR5156	TBD

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3	38		Napier	2010 Scania P310 FRD203	Napier 517	1997 Scania 94DB WR2760	Napier 512	1990 Scania G93M PP5679	Whanganui 712	1992 Scania G93M RH3142	Dispose
3	39		Remuera	2015 MAN TGM 15.290 JJT25	East Coast Bays 831	2008 Scania P310 ESH931	Auckland 406	1995 Scania P93ML TH8385	TBD		
3	40		Brooklyn	2015 MAN TGM 15.290 JKT21	Whanganui 711	2011 Scania P310 FRD230	NTCR 155	1994 Mitsubishi FP270 SX5863	TBD		
3	41		Manurewa	2015 MAN TGM 15.290 JLS330	Kilbirnie 241	2009 Scania P310 ETP547	Christchurch 213	1995 Scania P93ML TQ1769	TBD		
3	42		Spreydon	2015 MAN TGM 15.290 JLS360	Dunedin 211	2011 Scania P310 FZM83	Lookout Point 237	1997 Scania 94DB WN9540	Takaka 397	1990 Scania G93M PX2736	TBD
3	43		Otahuhu	2015 MAN TGM 15.290 JMQ958	Glen Eden 641	2011 Scania P310 FUL949	St Heliers 241	2010 Scania P310 FML389	NTCR 152	1997 Scania 94DB WP6178	Johnsonville 281
3	44		Harewood	2016 MAN TGM 15.290 JNM771	Gisborne 811	1999 Scania 94DB GIS811	Edgecumbe 937	1990 Scania G93M PA1885	TBD		
3	45		Papatoetoe	2015 MAN TGM 15.290 JEL373	Tauranga 717	2006 Scania P94 DEG852	Tauranga 711	1997 Scania P94DB WR2723	Greerton 752	1990 Scania G93M PA1884	TBD
3	46		Palmerston North	2016 MAN TGM 15.290 JQL50	New Plymouth 611	2008 Scania P310 ERF391	NTCR 153	1994 Mitsubishi FP270 SO7799	TBD		
3	47		Mount Wellington	2016 MAN TGM 15.290 JRK496	Papakura 387	2006 Scania P94 DPA971	Region 201	1990 Scania G93M OX389	TBD		

## Appendix

### Appliance cascade principles

FL2-2 POP Fleet procurement and allocation policy (“the Policy”):

- specifies the allocation of Types 1,2 & 3 appliances to stations and the “Tier” of each appliance
- notes that the introduction of new appliances to the fleet will result in older appliances being retired and a movement (“cascade”) of appliances between positions in each Tier
- notes that “The National Fleet Manager will determine the cascade schedule, and transfer appliances as required to achieve the allocation principles contained in this policy.”

The Fleet team generally apply the following cascade principles:

Priority	Principle
1	Cascaded appliance to be the allocated Type
2	Replace Type 1 appliances where the allocation is a Type 2 or 3
3	Replace appliances that are outside the allocated Type or Tier age limit
4	Replace problematic trucks (from a fleet maintenance / reliability point of view)
5	Replace the busiest trucks, but where call numbers are close more priority to be given to replacing the oldest trucks
6	Replace the oldest trucks

i.e.:

1. We will put the correct Type of appliance in unless there is a shortage of appliances of the required Type – if you’re supposed to have a Type 1 we’ll give you a Type 1.
2. We will prioritise replacing your appliance if you have a Type 1 and you’re supposed to have a Type 2 or 3 because your appliance is probably too small to carry the gear you’re supposed to have.
3. If you already have the correct Type of appliance and your appliance is already the correct age (i.e. no older than it’s supposed to be) then we will upgrade others in the Tier that don’t meet these criteria first.
4. If particular appliances or models of truck (e.g. Mitsubishi FP418s) are starting to become unreliable or require regular work to maintain at CoF standard (e.g. due to rust) then we’ll prioritise getting rid of them.
5. We will prioritise replacing busy appliances over appliances that aren’t used very much.
6. After going through all of the above criteria, we will get rid of the oldest trucks first.

Having established which trucks are to be replaced, we then arrange the cascades within that group to minimise the fit outs and transport distance required e.g. minimise 464 ladder gantry swaps, try to cascade appliances fitted out as PRTs to other PRT slots, avoid ferry trips where possible.

**Application to the plan to December 2018**

For the current cascade plan the principles above have been applied as follows:

For Type 1s:

- There are no specified Type 1 cascades as this is currently under review. In most cases the Type 1s being replaced in Tier 1 are a similar age to those in Tier 2 apart from two Iveco Type 2s that are being replaced with a new Type 1, and the Isuzu prototype appliance.

For Type 3s:

- As there are currently no new Type 3 appliances in production, an intra-Tier 2 cascade will take place to ensure our busiest appliances are the most modern.
- The oldest Tier 3 appliances are being replaced.

**Document information**

Owner	National Fleet Manager
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Review period	Yearly