

Route Access Standard

Appendix B

Train Numbering

Applicability

ARTC Network Wide
SMS

Publication Requirement

Internal & External

Primary Source

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Document Status

Version #	Date Reviewed	Prepared by	Reviewed by	Endorsed	Approved
1.0	Jul 2018	Manager Procedures Development	Stakeholders	Manager Standards	GM Technical Standards

Amendment Record

Amendments to the RAS are published at the following link
https://www.artc.com.au/uploads/RAS_Amendments_Register.xlsx

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1 Train Number Convention ARTC

1.1 Train Numbering

Train Numbering is updated and maintained on the ARTC website, covering the whole network.

ARTC owns and issues train numbers for the ARTC Network.

1.1.1 Freight and Passenger (Defined Interstate Rail Network)

CHARACTER	DESCRIPTION																						
N NNN	First character – The day of the week on which the train departs																						
	<table> <tr> <td>1 = Sunday</td> <td>5 = Thursday</td> </tr> <tr> <td>2 = Monday</td> <td>6 = Friday</td> </tr> <tr> <td>3 = Tuesday</td> <td>7 = Saturday</td> </tr> <tr> <td>4 = Wednesday</td> <td></td> </tr> </table>	1 = Sunday	5 = Thursday	2 = Monday	6 = Friday	3 = Tuesday	7 = Saturday	4 = Wednesday															
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NA AN	Fourth character – General guide to the sequential order of departure from the originating station																						
	0-9																						
	Note: The numeral eight shall be used for passenger services only.																						

1.1.2 Coal (Hunter Valley Network New South Wales)

CHARACTER	DESCRIPTION																																																		
AAANN	First and second characters – Load/unload point describers																																																		
	<table> <tr> <td>AH = Ashton</td> <td>MP = Mt Pleasant</td> </tr> <tr> <td>AS = Austar</td> <td>MR = Moolarben</td> </tr> <tr> <td>AT = Mac Generation Antiene</td> <td>MT = Mt Thorley Bin 2</td> </tr> <tr> <td>BC = Bulga Coal</td> <td>MW = Warkworth Bin 2</td> </tr> <tr> <td>BE = Boggabri Coal Terminal East</td> <td>NA = Donaldson/Bloomfield (Southern)</td> </tr> <tr> <td>BF = Bloomfield</td> <td>NB = Narrabri</td> </tr> <tr> <td>BG = Bengalla</td> <td>ND = Newdell</td> </tr> <tr> <td>BO = Boggabri Coal Loading Loop</td> <td>NM = Macquarie Generation</td> </tr> <tr> <td>BR = RN + RC Tandem</td> <td>NW = Newstan</td> </tr> <tr> <td>BW = Mt Arthur</td> <td>PW = Port Waratah</td> </tr> <tr> <td>DK = Dartbrook</td> <td>RB = Muswellbrook</td> </tr> <tr> <td>DR = Drayton</td> <td>RN = Rixs Creek Nth</td> </tr> <tr> <td>DS = Donaldson/Bloomfield</td> <td>RC = Rixs Creek</td> </tr> <tr> <td>DU = Duralie</td> <td>RV = Ravensworth</td> </tr> <tr> <td>ER = Eraring</td> <td>SF = Stratford</td> </tr> <tr> <td>GD = Gunnedah</td> <td>TB = Teralba</td> </tr> <tr> <td>HV = Hunter Valley</td> <td>UL = Ulan</td> </tr> <tr> <td>JU = Wambo/United</td> <td>VP = Vales Point</td> </tr> <tr> <td>JW = Wambo/Jerry Plains</td> <td>WC = Werris Creek</td> </tr> <tr> <td>LD = Liddell</td> <td>WG = Wilpinjong</td> </tr> <tr> <td>LG = Lithgow</td> <td>WH = Whitehaven</td> </tr> <tr> <td>MB = Maules Creek</td> <td>WK = Warkworth Bin 1</td> </tr> <tr> <td>MN = Mangoola</td> <td>WS = Walsh Point</td> </tr> <tr> <td>MO = Mt Owen</td> <td></td> </tr> <tr> <td>MP = Mt Pleasant</td> <td></td> </tr> </table>	AH = Ashton	MP = Mt Pleasant	AS = Austar	MR = Moolarben	AT = Mac Generation Antiene	MT = Mt Thorley Bin 2	BC = Bulga Coal	MW = Warkworth Bin 2	BE = Boggabri Coal Terminal East	NA = Donaldson/Bloomfield (Southern)	BF = Bloomfield	NB = Narrabri	BG = Bengalla	ND = Newdell	BO = Boggabri Coal Loading Loop	NM = Macquarie Generation	BR = RN + RC Tandem	NW = Newstan	BW = Mt Arthur	PW = Port Waratah	DK = Dartbrook	RB = Muswellbrook	DR = Drayton	RN = Rixs Creek Nth	DS = Donaldson/Bloomfield	RC = Rixs Creek	DU = Duralie	RV = Ravensworth	ER = Eraring	SF = Stratford	GD = Gunnedah	TB = Teralba	HV = Hunter Valley	UL = Ulan	JU = Wambo/United	VP = Vales Point	JW = Wambo/Jerry Plains	WC = Werris Creek	LD = Liddell	WG = Wilpinjong	LG = Lithgow	WH = Whitehaven	MB = Maules Creek	WK = Warkworth Bin 1	MN = Mangoola	WS = Walsh Point	MO = Mt Owen		MP = Mt Pleasant	
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1.1.3 Coal (South and West New South Wales)

(Also applies to Services operating between Inner Harbour and Hunter)

CHARACTER	DESCRIPTION								
AA NN	First and second characters – Coal loading point								
	AR = Airly								
	BB = Baal Bone								
	CA = Clarence								
	CB = Charbon								
	CG = Cringilla BHP								
	GL = Glenlee								
	IH = Inner Harbour								
	LS = Lidsdale								
	LG = Lithgow								
	MC = Metropolitan Colliery								
	TM = Tahmoor Colliery								
AA NN	Third and fourth characters – Sequential order of daily departure from the originating location								
	<table border="1"> <tbody> <tr> <td>From 0001 to 0600</td> <td>Train numbers between 00 and 25</td> </tr> <tr> <td>From 0601 to 1200</td> <td>Train numbers between 26 and 50</td> </tr> <tr> <td>From 1201 to 1800</td> <td>Train numbers between 51 and 75</td> </tr> <tr> <td>From 1801 to 2400</td> <td>Train numbers between 76 and 99</td> </tr> </tbody> </table>	From 0001 to 0600	Train numbers between 00 and 25	From 0601 to 1200	Train numbers between 26 and 50	From 1201 to 1800	Train numbers between 51 and 75	From 1801 to 2400	Train numbers between 76 and 99
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AA NN	Fourth character – Loaded status								
	Odd numbers = Empty train								
	Even numbers = Loaded coal train								

1.1.4 Intrastate Network

1.1.4.1 New South Wales Intrastate Trains

CHARACTER	DESCRIPTION										
N NNNA	<p>First character – The district in which the train commenced</p> <p>Refer to ARTC train numbering district map.</p>										
	<table> <tr> <td>1 = Sydney (Refer to ST)</td> <td>6 = Grafton</td> </tr> <tr> <td>2 = Goulburn</td> <td>7 = Lithgow – Merrygoen</td> </tr> <tr> <td>3 = Junee</td> <td>8 = Orange</td> </tr> <tr> <td>4 = Newcastle (Refer to ST)</td> <td>9 = Illawarra</td> </tr> <tr> <td>5 = Werris Creek</td> <td></td> </tr> </table>	1 = Sydney (Refer to ST)	6 = Grafton	2 = Goulburn	7 = Lithgow – Merrygoen	3 = Junee	8 = Orange	4 = Newcastle (Refer to ST)	9 = Illawarra	5 = Werris Creek	
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2 = Goulburn	7 = Lithgow – Merrygoen										
3 = Junee	8 = Orange										
4 = Newcastle (Refer to ST)	9 = Illawarra										
5 = Werris Creek											
NN NNA	<p>Second character – The district in which the train will finish its journey</p> <p>Refer to ARTC train numbering district map.</p>										
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NN N NA	<p>Third character – Any odd or even number not already used</p> <p>Note: The third character may be aligned with the Operator code assigned by Sydney Trains for trains entering the Sydney Trains area.</p>										
NNN N A	<p>Fourth character</p> <p>Odd numbers = Down trains, away from Sydney</p> <p>Even numbers = Up trains, towards Sydney</p>										
NNNN A	<p>Fifth character</p> <p>N = Operating within New South Wales</p>										

1.1.4.2 Trip Trains New South Wales

For Trip Train Numbering Allocations please refer to Sydney Trains Numbering Principles.

1.1.4.3 Victorian Intrastate Trains

CHARACTER	DESCRIPTION
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N_{NNNA} **First character – The district in which the train commenced**

Refer to ARTC train numbering district map.

1-4	Not ARTC Network
5	Metropolitan broad gauge
6	Allocated to North East (standard gauge) (Melbourne – Albury, Benalla – Oaklands)
7	Allocated to Western (standard gauge) (Melbourne – Wolseley, Maroona – Portland)
9	Metropolitan standard gauge

N_{NNNA} **Second character – The district in which the train will finish its journey**

Refer to ARTC train numbering district map.

1-4	Not ARTC Network
5	Metropolitan broad gauge
6	Allocated to North East (standard gauge) (Melbourne – Albury, Benalla – Oaklands)
7	Allocated to Western (standard gauge) (Melbourne – Wolseley, Maroona – Portland)
9	Metropolitan standard gauge

NN_{NNA} **Third character – Any odd or even number not already used**

NNN_{NA} **Fourth character**

Odd numbers = Down trains, away from Melbourne

Even numbers = Up trains, towards Melbourne

NNNNA **Fifth character**

V = Operating within Victoria

1.1.4.4 South Australia Intrastate Trains

CHARACTER	DESCRIPTION																		
N NNNA	<p>First character – The district in which the train commenced</p> <p>Refer to ARTC train numbering district map.</p> <table border="1"> <tr><td>1</td><td>Dry Creek to Keswick, Pelican Point</td></tr> <tr><td>2</td><td>Beyond Keswick to SA border with Victoria</td></tr> <tr><td>3</td><td>All branch lines south of the Broken Hill line</td></tr> <tr><td>4</td><td>Beyond Dry Creek to Port Augusta, Port Pirie, Spencer Junction</td></tr> <tr><td>5</td><td>Crystal Brook East Junction to Broken Hill</td></tr> <tr><td>6</td><td>Beyond Spencer Junction to Whyalla</td></tr> <tr><td>7</td><td>All branch lines north of the Broken Hill line and east of the Darwin line</td></tr> <tr><td>8</td><td>Beyond Spencer Junction to SA border on line to Perth</td></tr> <tr><td>9</td><td>Beyond Tarcoola to SA border on line to Darwin</td></tr> </table>	1	Dry Creek to Keswick, Pelican Point	2	Beyond Keswick to SA border with Victoria	3	All branch lines south of the Broken Hill line	4	Beyond Dry Creek to Port Augusta, Port Pirie, Spencer Junction	5	Crystal Brook East Junction to Broken Hill	6	Beyond Spencer Junction to Whyalla	7	All branch lines north of the Broken Hill line and east of the Darwin line	8	Beyond Spencer Junction to SA border on line to Perth	9	Beyond Tarcoola to SA border on line to Darwin
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NN NNA	Third character – Any odd or even number not already used																		
NNN NA	<p>Fourth character</p> <p>Odd numbers = Down trains, away from Adelaide</p> <p>Even numbers = Up trains, towards Adelaide</p>																		
NNNNA	<p>Fifth character</p> <p>S = Operating within South Australia</p>																		

1.1.5 Passenger Trains

Note: For CityRail services, refer to Sydney Trains.

CHARACTER	DESCRIPTION
A ANN	First character – Direction
	S = South W = West
	N = North C = Illawarra
A ANN	Second character – Train type or motive power
	-L-- = Trains hauled by diesel locomotives
	-N-- = Endeavour trains
	-P-- = Explorer trains
	-R-- = Diesel multiple unit trains and rail motors
	-S-- = Trains hauled by steam locomotives (special working)
	-T-- = XPT trains
AA ANN	Third character – Trains operating between the areas of:
	South
	S-1 – ST Network and Goulburn
	S-2 – ST Network and south of Goulburn
	S-3 – ST Network and Canberra
	S-4 – Branches south of Goulburn
	West
	W-1 – ST Network and Orange
	W-2 – ST Network and Dubbo/Cobar
	W-3 – ST Network and Parkes
	W-4 – ST Network and Broken Hill
	North
	N-1 – Used by ST
	N-2 – ST Network and Armidale
	N-3 – ST Network and North Coast Branches
	N-4 – ST Network and Moree
	Illawarra
	C-1 – Used by ST
	C-2 – Used by ST
	C-3 – Used by ST
	Suburban area (bounded by Berowra, Emu Plains, Macarthur and Helensburg)
	Refer to ST
AA ANN	Fourth character

CHARACTER	DESCRIPTION
	Odd numbers = Down train, Even numbers = Up train

1.1.6 Light Locomotives

A light locomotive can either run alone, or in association with a particular train.

1.1.6.1 New South Wales Light Locomotives

CHARACTER	DESCRIPTION										
A DDDA	First character – Locomotive type D = Locomotive										
A D D DA	Second character – The district from which the locomotive originated or in which it runs Refer to ARTC train numbering district map. <table border="0"> <tr> <td>1 = Sydney (Refer to ST)</td> <td>6 = Grafton</td> </tr> <tr> <td>2 = Goulburn</td> <td>7 = Lithgow – Merrygoen</td> </tr> <tr> <td>3 = Junee</td> <td>8 = Orange</td> </tr> <tr> <td>4 = Newcastle (Refer to ST)</td> <td>9 = Illawarra</td> </tr> <tr> <td>5 = Werris Creek</td> <td></td> </tr> </table>	1 = Sydney (Refer to ST)	6 = Grafton	2 = Goulburn	7 = Lithgow – Merrygoen	3 = Junee	8 = Orange	4 = Newcastle (Refer to ST)	9 = Illawarra	5 = Werris Creek	
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A DDDA	Fifth character N = Operating within New South Wales										

1.1.6.2 Victoria Light Locomotives

CHARACTER	DESCRIPTION								
A DDDA	First character – Locomotive type D = Locomotive								
A D D DA	Second character – Identifies the district from which the locomotive originated or in which it runs Refer to ARTC train numbering district map. <table border="1"> <tr> <td>1-4</td> <td>Not ARTC Network</td> </tr> <tr> <td>5</td> <td>Metropolitan broad gauge</td> </tr> <tr> <td>6</td> <td>Allocated to North East (standard gauge) (Melbourne – Albury, Benalla – Oaklands)</td> </tr> <tr> <td>7</td> <td>Allocated to Western (standard gauge) (Melbourne – Wolseley, Maroona –</td> </tr> </table>	1-4	Not ARTC Network	5	Metropolitan broad gauge	6	Allocated to North East (standard gauge) (Melbourne – Albury, Benalla – Oaklands)	7	Allocated to Western (standard gauge) (Melbourne – Wolseley, Maroona –
1-4	Not ARTC Network								
5	Metropolitan broad gauge								
6	Allocated to North East (standard gauge) (Melbourne – Albury, Benalla – Oaklands)								
7	Allocated to Western (standard gauge) (Melbourne – Wolseley, Maroona –								

CHARACTER	DESCRIPTION				
	<table border="1"> <tr> <td></td> <td>Portland)</td> </tr> <tr> <td>9</td> <td>Metropolitan standard gauge</td> </tr> </table>		Portland)	9	Metropolitan standard gauge
	Portland)				
9	Metropolitan standard gauge				
AD D DA	Third character – Any odd or even number not already used				
ADD D A	Fourth character Odd numbers = Down trains, away from Melbourne Even numbers = Up trains, towards Melbourne				
ADDD A	Fifth character V = Operating within Victoria				

1.1.6.3 South Australia Light Locomotives

CHARACTER	DESCRIPTION																		
A DDDA	First character – Locomotive type D = Locomotive																		
A D DDA	Second character – Identifies the district from which the locomotive originated or in which it runs Refer to ARTC train numbering district map.																		
	<table border="1"> <tr> <td>1</td> <td>Dry Creek to Keswick, Pelican Point (Adelaide metropolitan area)</td> </tr> <tr> <td>2</td> <td>Beyond Keswick to SA border with Victoria</td> </tr> <tr> <td>3</td> <td>All branch lines south of the Broken Hill line</td> </tr> <tr> <td>4</td> <td>Beyond Dry Creek to Port Augusta, Port Pirie, Spencer Junction</td> </tr> <tr> <td>5</td> <td>Crystal Brook East Junction to Broken Hill</td> </tr> <tr> <td>6</td> <td>Beyond Spencer Junction to Whyalla</td> </tr> <tr> <td>7</td> <td>All branch lines north of the Broken Hill line and east of the Darwin line</td> </tr> <tr> <td>8</td> <td>Beyond Spencer Junction to SA border on line to Perth</td> </tr> <tr> <td>9</td> <td>Beyond Tarcoola to SA border on line to Darwin</td> </tr> </table>	1	Dry Creek to Keswick, Pelican Point (Adelaide metropolitan area)	2	Beyond Keswick to SA border with Victoria	3	All branch lines south of the Broken Hill line	4	Beyond Dry Creek to Port Augusta, Port Pirie, Spencer Junction	5	Crystal Brook East Junction to Broken Hill	6	Beyond Spencer Junction to Whyalla	7	All branch lines north of the Broken Hill line and east of the Darwin line	8	Beyond Spencer Junction to SA border on line to Perth	9	Beyond Tarcoola to SA border on line to Darwin
1	Dry Creek to Keswick, Pelican Point (Adelaide metropolitan area)																		
2	Beyond Keswick to SA border with Victoria																		
3	All branch lines south of the Broken Hill line																		
4	Beyond Dry Creek to Port Augusta, Port Pirie, Spencer Junction																		
5	Crystal Brook East Junction to Broken Hill																		
6	Beyond Spencer Junction to Whyalla																		
7	All branch lines north of the Broken Hill line and east of the Darwin line																		
8	Beyond Spencer Junction to SA border on line to Perth																		
9	Beyond Tarcoola to SA border on line to Darwin																		

AD D DA	Third character – Any odd or even number not already used
ADD D A	Fourth character Odd numbers = Down trains, away from Adelaide

CHARACTER	DESCRIPTION
	Even numbers = Up trains, towards Adelaide
ADDDA	Fifth character S = Operating within South Australia

1.1.7 Maintenance Trains

Any maintenance train that crosses a state border to work uses the numbering system of the state in which it is working.

Example: If a train leaves South Australia to work in Victoria, it shall have a Victorian number. If the train returns to South Australia, it shall have a South Australian number for its return journey.

On the rare occasion a train is working on both sides of a border, the number shall be based on the originating state.

1.1.7.1 New South Wales Maintenance Trains

CHARACTER	DESCRIPTION
NANNA	First character – Work district Refer to ARTC train numbering district map.
	1 = Sydney 2 = Goulburn 3 = Junee 4 = Newcastle (Refer to ST) 5 = Werris Creek 6 = Grafton 7 = Lithgow – Merrygoen 8 = Orange 9 = Illawarra
NANNA	Second character M = Maintenance Train
NANNA	Third character – Identified specific type of train
	1 = Not used 2 = Ballast train 3 = Ballast train 4 = Rail train 5 = Sleeper train 6 = Spare 7 = Track maintenance vehicles/rail grinders ¹ 8 = Test vehicles ¹ 9 = Herbicide 0 = Not used
	1. To operate under block working conditions unless classified to reliably operate track circuits.
NANNA	Fourth character Odd numbers = Down trains, away from Sydney Even numbers = Up trains, towards Sydney Note: Where possible, numbers should be in sequential order of departure from the originating location.
NANNA	Fifth character N = Operating within New South Wales

1.1.7.2 Sydney Metro Freight Network Maintenance Trains

Any Sydney Trains Maintenance Train will operate under Sydney Trains Numbering Principles. Any ARTC Maintenance Train will operate under ARTC Numbering Principles

1.1.7.3 Victoria Maintenance Trains

CHARACTER	DESCRIPTION
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NANNA **First character – Work district**
Refer to ARTC train numbering district map.

1-4	Not ARTC Network
5	Metropolitan broad gauge
6	Allocated to North East (standard gauge) (Melbourne – Albury, Benalla – Oaklands)
7	Allocated to Western (standard gauge) (Melbourne – Wolsley, Maroona – Portland)
9	Metropolitan standard gauge

NANNA **Second character**
M = Maintenance train

NA**N**NA **Third character – Identified specific type of train**

1 = Not used	7 = Track maintenance vehicles/rail grinders ¹
2 = Ballast train	8 = Test vehicles ¹
3 = Ballast train	9 = Herbicide
4 = Rail train	0 = Not used
5 = Sleeper train	
6 = Spare	

1. To operate under block working conditions unless classified to reliably operate track circuits.

NANNA **Fourth character**
Odd numbers = Down trains, away from Melbourne
Even numbers = Up trains, towards Melbourne

Note: Where possible, numbers should be in sequential order of departure from the originating location.

NANNA **Fifth character**
V = Operating within Victoria

1.1.7.4 South Australia Maintenance Trains

CHARACTER	DESCRIPTION
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NANNA

First character – Work district

Refer to ARTC train numbering district map.

1	Dry Creek to Keswick, Pelican Point (Adelaide metropolitan area)
2	Beyond Keswick to SA border with Victoria
3	All branch lines south of the Broken Hill line
4	Beyond Dry Creek to Port Augusta, Port Pirie, Spencer Junction
5	Crystal Brook East Junction to Broken Hill
6	Beyond Spencer Junction to Whyalla
7	All branch lines north of the Broken Hill line and east of the Darwin line
8	Beyond Spencer Junction to SA border on line to Perth
9	Beyond Tarcoola to SA border on line to Darwin

NANNA

Second character

M = Maintenance train

NANNA

Third character – Identified specific type of train

1 = Not used	7 = Track maintenance vehicles/rail grinders ¹
2 = Ballast train	8 = Test vehicles ¹
3 = Ballast train	9 = Herbicide
4 = Rail train	0 = Not used
5 = Sleeper train	
6 = Spare	

Notes:

1. To operate under block working conditions unless classified to reliably operate track circuits.

NANNA

Fourth character

Odd numbers = Down trains, away from Adelaide

Even numbers = Up trains, towards Adelaide

Note: Where possible, numbers should be in sequential order of departure from the originating location.

NANNA

Fifth character

CHARACTER	DESCRIPTION
	S = Operating within South Australia

1.1.8 AK Track Recording Car

CHARACTER	DESCRIPTION
A NNN	First character – Identifies the region
	W = NSW Western Region N = NSW Northern Region (including the north coast, north west and Hunter Valley) S = NSW Southern Region C = NSW Illawarra Region
	M = Victoria A = South Australia P = Western Australia D = Northern Territory B = Queensland
A NNN	Second character – Identifies the cars
	K = AK Car
A NNN	Third character – Identifies specific type of train and working
	8 = AK Car – Diesel Loco – non-block working
A NN N	Fourth character – Identifies direction
	0-9 indicating up or down trains. Odd numbers = down trains Even numbers = up trains

1.1.9 Heritage Operators

1.1.9.1 Passenger Trains – Heritage Operator Tours

CHARACTER	DESCRIPTION
N ANN	First character – Operator 5--- 3801 Limited 6--- NSW Rail Transport Museum 7--- Rail Motor Society 8--- Lachlan Valley Railway Cowra 9--- ARHS (ACT Division)
NA NN	Second character – Train type or motive power -L-- Trains hauled by diesel locomotives -R-- Diesel multiple unit trains and rail motors -S-- Trains hauled by steam locomotives
NA N NN	Third character - 0-9
AA N NN	Fourth character - 0-9 Odd numbers = Down trains Even numbers = Up trains

1.1.9.2 Light Locomotives

CHARACTER	DESCRIPTION
A NNN	First character – Operator 5--- 3801 Limited 6--- NSW Rail Transport Museum 7--- Rail Motor Society 8--- Lachlan Valley Railway Cowra 9--- ARHS (ACT Division)
AN NN	Second character – Locomotive type -Z-- Steam -D-- Diesel
AN N NN	Third character - 0-9
ANN N	Fourth character - 0-9 Odd numbers = Down trains Even numbers = Up trains

Figure 1.1 – Train Numbering

