Neon

DTEK 50 STH100-1/STH100-2

PRD62980/R188

PRD62981/R189



Rev.	Neon PRD62980/62981 Level 1 Service Manual	Page		
1.0		1/30		
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1.0	2016/6/14	Preliminary draft	Peter Ye		
Rev.	Date	Modification description	Prepared By	Checked By	Approved By

Rev.	Neon PRD62980/62981 Level 1 Service Manual	Page		
1.0		2/30		
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Rev.	Neon PRD62980/62981 Level 1 Service Manual	Page		
1.0		3/30		
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Content

1. Gen	neral	5
2. Port	table Label	9
2.1 IME	I label sample:	9
2.4 Acc	essory	10
2.4.1	Charger	10
2.4.2	Stereo Headset	10
2.4.3	End user USB cable	11
2.5 Mair	ntenance policy	11
2.5.1	For handset:	11
2.5.2	For standard accessories (charger, headset and USB cable)	12
2.5.3	If input the following codes on handset, you can:	12
2.5.4	Check the IMEI on SIM tray	12
2.6 Cell	phone maintenance	13
2.7 Invo	nice check	13
2.8 IME	I Check	14
2.9 Visu	al Mechanical inspection	14
2.10	Accessories inspection	15
2.11	Cell phone maintenance procedure	15
3. Soft	ware download	23
3.1 Equi	ipments requested when download :	24
3.2 Insta	all of download Tool	24
3.3 SW	download process	26

Rev.	Neon PRD62980/62981 Level 1 Service Manual	Page		
1.0		4/30		
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1. General

Neon PRD–62980/PRD-62981 is a smart phone with MSM8952 platform (4x A53 1.7GHz + 4x A53 1.2GHz), and BT/WLAN/MP3, social network service etc functions. It can work with the GSM850/900/1800/1900, UMTS 1/2/5/8 for Global, and LTE FDD: 1/2/4/5/7/12 USA.

Detail features

Project name		NEON		
	Code Name	PRD62980/PRD62981		
	2G Network	GSM 850/900/1800/1900		
	3G Network	NA:1/2/4/5/8 GL:1/2/5/6/8		
	4G Network			
General		NA:FDD 2/4/5/7/12/17/29/30 roaming:FDD 1/3/20 GL:FDD:1/2/3/7/8/20/28A TDD:38/ 40/41(China 100 MHz BW)		
	OS	Android M		
	Chipset	MSM8952		
	CPU Frequency	Octa-Core (4x A53 1.5GHz + 4x A53 1.2GHz)		
	GPU	Adreno 405 @550MHz		
	Dimensions (mm)	147x72.5x7.45(TBC)		
	Estimated Weight (g)	133g		
Design	Form Factor	Bar		
Design	Side Keys	Volume & Power Key & Boom Key		
	Removable battery cover			
	Main LCD Size (inch)	5.2		
	Main display resolution	FHD (1920×1080)		
Display	PPI	424		
uspiay	Main LCD Type	IPS		
	LTPS	Yes		
	Brightness (cd/m2, Max)	500		
Rev. 1.0	Neon PRD62980/62981	Level 1 Service Manual 5/30		

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	NTSC	70%	
	View angle (Degree)	170	
	Screen to body ratio	80%(TBC)	
	Contrast Ratio(Nominal/Sunlight)	>1000:1	
	Color Reproduction	(0.30, 0.32) +/- 0.03	
	Touch icon backlight		
	LED indicator	Yes	
	Touch technology	Capacitive (Palm & grip rejection)	
	Touch Points	10	
	TP Accuracy	Edge: 1.5mm; Center: 1mm	
	Border/Bezel Size	1.9mm	
	Full Lamination/ Non-Full		
	Lamination	FL	
	Touch Panel Material	OGS	
	Glass type	Dragontrail/NEG/Corning only for AT	Т
	Oleophobic coating (Anti-finger coating)	Yes	
	Other features	Brightness boost to 600nits under sunl	ight
	Audio	2 in 1	
	Number of speakers	2	
	Audio Chipset (DAC)	AKM4375	
	Sampling rate	192KHz/32-Bit	
	Audio Amplifier	2 x NXP TFA9890 Smart PA	
	HD voice	Yes	
	Dual-mic Noise cancellation	Yes	
Audio	Audio Codec Support	Android default scope (AAC LC, AAC enhanced AAC+, AMR-NB, AMR-WB, FLAC MIDI, Vorbis, PCM/WAVE)	+, :, MP3,
	Dynamic Bange	100dB	
	Fidelity (THD+Noise)	-94dB	
	SNB	100dB	
	Distortion	-94dB	
	Frequency Response	20Hz~20KHz (<0.5dB)	
	Power - Pink Noise / Music		
	(Watts)	2*3.6W	
	Headphone Impedence		
	Supported	16~200Ω	
	Crosstalk	-304B (HiEi)	
Rev	Crosstant		Page
1.0	Neon PRD62980/62981 I	Level 1 Service Manual	6/30
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	Other features	AVC, BWE, one touch mix v2, waves	
	Card slot	Nano+Nano/SD	
	SIM Card Number	2	
	SIM Slot 1	4FF (Nano-SIM)	
	SIM Slot 2	4FF(Nano-SIM) or TF card	
Available Ports	TF card slot	Yes	
	Hot swap	Yes	
	Audio Jack	3.5mm audio jack	
	Charging Port	Micro-USB	
	ROM	16G	
N A a a a a a a a a a a	RAM	default 3GB	
wemory	External storage	Micro SD, up to 1TB	
	End User Space	10GB(TBC)	
	2G Data	GPRS/EDGE	
Data	3G Data	HSPA+ (42M bit/s DL, 5.76Mbit/s UL)	
Data	4G Data	Support CAT6 (300M bit/s DL, 50Mbit/s UL)	
	Carrier Aggregation	Yes	
	Number of pixels	13M Pixel	
	Focus	AF	
	Image Sensor	Samsung 3M2	
	Sensor Size	1/3	
	Sensor Pixel size	1.12um	
	Lens Apeture size	f/2.0	
	Lens (Wide angle/ FOV)	75°(TBC)	
	Focus Speed	0.1s	
Rear Camera	Number of Elements	6P Lens Optics	
	Camera Flash	Yes	
	Flash type	Dual-Tone	
	EIS	Yes	
	Video	1080P @30fps	
	HDR	Yes	
	Other features	Instant shot (take photo in 0.6 sec), 360° selfies.	
		PDAF, 0.1s focus speed	
	Number of pixels	8M Pixel	
	Focus	FF	
Front Camera	Image Sensor	OV8858	
	Sensor Size	1/3	
	Sensor Pixel size	1.12 um	

Rev.	Neon PRD62980/62981 Level 1 Service Manual	Page		
1.0		7/30		
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	Lens Apeture size	f/2.2
	Lens (Wide angle/ FOV)	84°
	Number of Elements	4P Lens Optics
	Camera Flash	Yes
	Flash type	Flash light
	Video	1080 @30fps
	Other features	Selfie flash
	Capacity (mAh)	2610
Battery	Battery type	Softpack
	Charging Technology	5V2A
	Wi-Fi / WLAN	
		802 11a/b/g/n/ac (2 4GHz & 5GHz)
	Wi-Fi Direct	Yes
	WFD	Yes
	NFC	Yes
Connectivity	Radio	Yes
	Bluetooth	Yes
	Bluetooth supported version	V4.2
	USB Data Transfer	Yes
	USB OTG	Yes
	USB Charging	Micro-USB
	Others	Optional support RCS/IR 94/EMBMS/DACC
	GPS	Yes(Glonass, Beidou, Galileo) with A-GPS
	Accelerometer (G sensor)	Yes
	Proximity Sensor	Yes
Sensors	Light Sensor	Yes
	E-Compass	Yes
	Gyro	Yes
	Hall Switch	Yes
	HAC	Optional (M3 for GL and T3&M3 for NA)
Others	TTY	Compatible
	HDCP	Yes

Rev.	Neon PRD62980/62981 Level 1 Service Manual	Page			
1.0		8/30			
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2. Portable Label

2.1 IMEI label sample:

GL Version: for PRD-62981-XXX



NA Version: for PRD-62980-XXX

Blackberry XXXXX STH100-1		
PRD-62980-XXX		
Model: RJE181LW	Made in: China	
Date: DDMMYY		
IMEI: 35387207XXXXXXX		
	Blackberry XXXXX STH100-1 PRD-62980-XXX Model: RJE181LW Date: DDMMYY IMEI: 35387207XXXXXXX	Blackberry XXXXX STH100-1 PRD-62980-XXX Model: RJE181LW Made in: China Date: DDMMYY IMEI: 35387207XXXXXXX

Rev.	New DDD00000/00004 Level 4 Camies Manual	Page		
1.0	Neon PRD62980/62981 Level 1 Service Manual			
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2.4 Accessory

2.4.1 Charger



2.4.2 Stereo Headset



Rev.	Neon PRD62980/62981 Level 1 Service Manual	Page	
1.0		10/30	
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2.4.3 End user USB cable



2.5 Maintenance policy

This chapter describes the maintenance of the Neon PRD62980 series phones authorized at L1 repair center. The maintenance operations can only be performed in approved repair canters.Main L1 maintenance operations are as following:

2.5.1 For handset:

- 1) Warranty check
- 2) Function test
- 3) SW downloading
- 4) Replacement of the defective handset.

Rev.		Page	
1.0	Neon PRD62980/62981 Level 1 Service Manual		
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2.5.2 For standard accessories (charger, headset and USB cable)

- 1) Warranty check
- 2) Functional check
- 3) Replacement of defective accessories

2.5.3 If input the following codes on handset, you can:

Code	Description
*#06#	Display IMEI number
*#2886#	Enter Auto Test mode
*#3228#	Check current software version
###232#	Access call duration directly
#837837#	Display CU reference in HW version

2.5.4 Check the IMEI on SIM tray



Rev.		Page		
1.0	Neon PRD62980/62981 Level 1 Service Manual			
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2.6 Cell phone maintenance

- 1) Equipments for handset test.
 - Handset with full power.
 - One SIM card.
- 2) It is recommended the following tools:
 - One PC with Windows Windows 7/Windows 10.
 - One ampere meter for charger current test.

2.7 Invoice check

- 1. Check warranty status of Handset by POP (Proof of Purchase) ;
- 2. If the end user lost his POP, then consider the data code as the purchasing day;

Date code: (SHP)

	STH100	-2	Variant: R189		
	PRD-XX	XXX-XXX			
	[Coding day
GL	Model:	RJD211LW	Made in: China		Coding Month
(Single	Data: D	DMMYY		→	Coding Year
SIM)	IMEI:12	34567890123	45		

Rev.		Page	
1.0	Neon PRD62980/62981 Level 1 Service Manual		
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 If IMEI sicker (commercial label) is lost but the phone can be power on, input "*#2886#" at dial mode and then select "MANU" "Traceability" to check date code, IMEI info, CU-REF, PTH(PTM), etc.
 If the phone can't power on, please read data code by using Sugar tool. Please refer to SW download process in term 3 for details.

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2.8 IMEI Check

- 1) Power on the handset, enter *#06#
- 2) If the IMEI sticker in the back casing is not lost:

We should make sure that the IMEI number must be the same with the one on the IMEI sticker, if not, it's out of warranty policy.

2.9 Visual Mechanical inspection

Mechanical warranties check items:

- 1) Corrosion
 - Corrosion on the USB connectors, SIM connectors, and other metal surfaces
- 2) Hole
 - Holes (Diameter > 1mm) on any surface, including front casing, decorate frame, battery cover, LCD Lens, keypad.
- 3) Bump
 - Bumps (Diameter>1mm) on any surface, including the front casing, decorate frame, battery cover,
 LCD Lens, keypad
- 4) Scratch (length > 3mm)
 - Scratches on any surface, including the front casing, furnished frame, battery cover, LCD Lens, keypad
- 5) Distortion
 - Bend, twisted or crushed on the h/s, cover/casing or connectors
- 6) Broken

Rev.	Neon PRD62980/62981 Level 1 Service Manual	Page	
1.0		14/30	
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- LCD broken, casing broken, cover broken
- 7) Dropped.
 - Keypad tear off, LCD lens, connectors fallen off
- 8) Gap:
 - External physical damage relating to abnormal use, like front case and frame opened
- 9) Others:
 - Damage caused by disassembly like wrong part assembly, lost of components
 - Use in abnormal environment like too high temperature with plastic melts

2.10 Accessories inspection

Accessories warranties check items:

- Any use in abnormal temperature, other than the one specified in the user manual. Any evidence of plastic/casing melted.
- 2) Any mark of food or liquid around the accessory or in the USB socket.
- 3) Any evidence of mechanical shocked which damage the enclosure of the battery, charger or headset.
- 4) Any mark of tentative of disassembly the accessory
- 5) Any abnormal use which induce wire damage, wire broken or USB socket deformed.

2.11 Cell phone maintenance procedure

- 1) Check that the SIM card is set correctly.
- 2) Power on the cell phone.
- If the cell phone asks to input NCK code, which means it is SIM locked, and can only be worked with dedicated SIM card. Use the correct SIM card.
- 4) Enter the phone code if necessary.
- 5) If power on, test step by step with the auto test code:

Rev.		Page	
1.0	Neon PRD62980/62981 Level 1 Service Manual		
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Press *#2886# in dial screen and then you will see the interface displaying the SW version. Select "Auto" to start the auto test, or select "MANU" to do the MMI test manually.

If one of the tests failed during "Auto" test mode, it will show "Failed: XXX", press "Next" to go on test and press "END" to power off.

- Traceability
 - I. You can get some information such as IMEI, CU-REF, PTM, Date Code, etc.
 - II. Press "Pass" to continue.
- SMARTPA CAL
 - It will running the test automatically and show "TOP OK; BOTTOM OK; SmartPA Test PASS" if it functions well;
 - II. Press "PASS" to continue.
- Speak Box
 - I. It will run the test automatically and show "TOP OK;BUTTOM OK"; SpeakerBox Test PASS if it functions well
 - II. Press "Pass" to continue;
- Raw Data
 - It will running the test automatically, don't touch the screen during test and it will show "Pass" if it functions well;
 - II. Press "PASS" to continue.
- Touch Panel
 - I. "Please draw on the yellow area" according to instructions;
 - II. Press "Pass" to continue.
- LCD

Rev.		Page	
1.0	Neon PRD62980/62981 Level 1 Service Manual		
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- I. You will see the LCD display three colors: RED, GREEN and BLUE if it functions well;
- II. Press "Pass" to continue;
- III. You will see the LCD displays grey level if it functions well;
- IV. Press "Pass" to continue;
- V. You will see the LCD displays black if it functions well;
- VI. Press "Pass" to continue;
- VII. You will see the LCD displays white if it functions well;
- VIII. Press "Pass" to continue;
- IX. You will see the LCD displays grey if it functions well;
- X. Press "Pass" to continue.
- Keyboard
 - I. Press the key displayed on the screen. The key on the screen will turn grey when you press it if it functions well;
 - II. Press "Pass" to continue.
- LCD Backlight
 - I. The screen backlight will be flashing if it functions well;
 - II. Press "Pass" to continue.
- Front Camera

Press "Pass" to continue if the front camera functions well.

Main Camera

Press "Pass" to continue if the main camera functions well.

Camera Led

Rev.		Page	
1.0	Neon PRD62980/62981 Level 1 Service Manual		
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- I. Camera LED will turn on if it functions well;
- II. Press "Pass" to continue.
- Charge Led
 - I. The charge LED(LED1&LED2& front LED) will turn on if it functions well;
 - II. Press "Pass" to continue.
- Hall
 - I. Flip cover according to the instruction if it functions well;
 - II. Press "Pass" to continue.

Audio

- I. You will hear a voice prompt which introduces some emergency call numbers from the top receiver if it functions well;
- II. Press "PASS" to continue;
- III. You will hear a voice prompt which introduces some emergency call numbers from the bottom receiver if it functions well;
- IV. Press "Pass" to continue;
- V. You will hear a voice prompt which introduces some emergency call numbers from the top speaker if it functions well;
- VI. Press "Pass" to continue;
- VII. You will hear a voice prompt which introduces some emergency call numbers from the bottom speaker if it functions well;
- VIII. Press "Pass" to continue;
- IX. Make a noise near the MAIN MIC, you will hear it from the top receiver if it functions well;
- Rev.
 Page

 1.0
 Neon PRD62980/62981 Level 1 Service Manual
 18/30

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X. Press "Pass" to continue;

- XI. Make a noise near the SEC MIC, you will hear it from the bottom receiver if it functions well:
- XII. Press "Pass" to continue.
- Vibrator
 - I. You can feel the phone's vibrating if it functions well;
 - II. Press "Pass" to continue.
- NFC
 - Close the NFC test card on battery cover and it will show "NFC: Detected; ID: xxxx" if it functions well;
 - II. Press "Pass" to continue.
- Memory Card
 - I. Insert SD card and the phone will detect it if it functions well;
 - II. Press "Pass" to continue.
- USB/Charger
 - Insert USB cable according to instruction and it will say "USB cable checked", "USB: OK",
 "Charger: OK", "Current: xxx" if it functions well;
 - II. Press "Pass" to continue.
- Accessory
 - I. Insert headset according to the instruction and you will hear a voice prompt which introduces some emergency call numbers through the headset left if it functions well;
 - II. Press "Pass" to continue;
 - III. You will hear a voice prompt which introduces some emergency call numbers through the headset right if it functions well;

Rev.		Page
1.0	Neon PRD62980/62981 Level 1 Service Manual	19/30
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- IV. Press "Pass" to continue;
- V. Make a noise near the headset mic, you will hear it from headset if it functions well;
- VI. Press "Pass" to continue;
- VII. Remove headset according to the instruction and press "Pass" to continue.
- FM
 - I. Insert headset according to the instruction and you will hear FM playing and FM frequency will be displayed on the screen if it functions well;
 - II. Press "Pass" to continue;
 - III. Remove headset according to instruction and press "Pass" to continue.
- G-Sensor
 - I. Put the handset towards up according to instruction;
 - II. Press "Pass" to continue;
 - III. Put the handset "FACE DOWN", "DOWN", "LEFT", "RIGHT" and "FACE UP" according to instruction, and then the instruction will disappear if it functions well;
 - IV. Press "Pass" to continue.
- GyroScope
 - It will display "BIST test: OK" and you can get some value such as Vx, Vy, Vz, dx, dy, dz if it functions well;
 - II. Press "Pass" to continue.
- E-Compass
 - I. Please move the phone is an 8 shape according to the instruction;
 - II. Press "Pass" to continue;

Rev.		Page
1.0	Neon PRD62980/62981 Level 1 Service Manual	20/30
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- III. The compass will always point north whatever the phone is put at which direction if it functions well;
- IV. Press "Pass" to continue.
- Light Sensor
 - I. It will show the value of ambient light and the value will change according to the phone's environment (Bright or Dark), then it will say "dark: OK", "bright: OK" if it functions well;
 - II. Press "Pass" to continue.
- Proximity Sensor
 - I. Please shawdow the senor according to instruction and it will say "near: OK", "far: OK" if it functions well;
 - II. Press "Pass" to continue.
- Hall
 - III. Flip cover according to the instruction if it functions well;
 - IV. Press "Pass" to continue.
- SIM
 - I. Insert SIM card and the phone will detect it if it functions well;
 - II. Press "Pass" to continue.
- Battery ID
 - I. Screen will display ID information of battery and pass in default
 - II. Press "PASS" to continue;
- Battery Temperature
 - I. It will display the value of battery temperature, current, battery voltage, capacity rate and battery present if it functions well;

Rev.		Page
1.0	Neon PRD62980/62981 Level 1 Service Manual	21/30
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- II. Press "Pass" to continue.
- Bluetooth
 - I. Bluetooth will search automatically and it will display device address if it functions well;
 - II. Press "Pass" to continue.
- WIFI
 - It will search for WIFI hotspot and it will display searched result on the screen if it functions well;
 - II. Press "Pass" to continue.
- HARDWAREINFO
 - I. You will see the hardware information on the screen, such as the G-sensor, Ecompass and so on.
 - II. Press "Pass" to continue.
- Battery Level
 - I. You will see the percentage information and the charging information on the screen.
 - II. Press function key "Back" to quit the test
- FIRMWARE
 - I. You will see the firmware information on the screen, such as TP.
 - II. Press "Pass" to continue;
- GPS
 - It will run GPS and search for satellite, and then it will display info such as "PRN", "SNR", etc. on the screen if it functions well;
 - II. Press "Pass" to continue.
- EfuseCheck

Rev.		Page
1.0	Neon PRD62980/62981 Level 1 Service Manual	22/30
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I. it auto check the phone has been written Efuse or not. Normally, Mobile Efuse show Enable is pass

II. press "Pass"

HDCP Key Check

I. It auto check the phone has written KDCP key or not. Normally, the phone show like this is pass

HDCP KE	Y CHECK
Init: 0x00 sfs(b) 13 13 13 13 13 13 13 14 14	0000000 ytes): 36 36 36 36 36 rtes): 44
PASS	FAIL

3. Software download

It is authorized to download software for the handset which needs to be updated. you can get the driver and Egineering download tool from TS Website: <u>https://css.tclmobile.cn/</u>.

🔄 Neon PRD-62980-001 (test CU) egineering download tool

Rev.	New DDD00000/00004 Lavel 4 Ormited Menual	Page 23/30
1.0	Neon PRD62980/62981 Level 1 Service Manual	23/30
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BlackBerry-USBDrivers-5.0.0.0

3.1 Equipments requested when download:

- (1) A handset with full power;
- (2) PC with windows system;
- (3) A USB cable.

3.2 Install of download Tool

- 1. get the Driver install Exe from TS Website: https://css.tclmobile.cn/.
- 2, press Power on + volume down key at the same time, then the phone entry the fastboot mode like

below picture. Then use USB cable connect the phone to PC

3, install the

🖟 BlackBerry-USBDrivers-5.0.0.0



Rev.		Page
1.0	Neon PRD62980/62981 Level 1 Service Manual	24/30
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Rev.	New DDD00000/00004 Lavel 4 Camilas Manual	Page
1.0	Neon PRD62980/62981 Level 1 Service Manual	25/30
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3.3 SW download process

I. Power off the handset.

II. press Power on + volume down key at the same time, then the phone entry the fastboot mode(below picture), Then use USB cable connect the phone to PC



III.Open the Engineering software download tool. Choice the 62980 in the Product Models

```
download tool (test CU) egineering download tool
```

ion Help									
oduct Models : 62980		•						Dow	nload
Download Information									
Device	IMEI	CV Ref	Rooted or not	Target SW Version	Hardware Version	Elapsed	Progress	Master Clear	Flashing Status
Fastboot0)->1163361407	Reading		Unrooted	Loading	Read	00:00:11	5%		Handset model mismatched with yo
				1					
Chabur -									
status :								Elap	sed Time: 00:00:00

Rev.		Page
1.0	Neon PRD62980/62981 Level 1 Service Manual	26/30
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Z Engineering Software Downl Option Help	oad Tool QCT_SP v	/1.0.7							
Product Models : 62980		-						Dow	nload
Download Information									
Device	IMEI	CV Ref	Rooted or not	Target SW Version	Hardware Version	Elapsed	Progress	Master Clear	Flashing Status
Fastboot0)->1163361407	Reading		Unrooted	Loading	Read	00:00:17	30%		finished. total time: 0.495
4									
Status : writing 'cache' OKAY [0.211s]								Elap	sed Time: 00:00:17
L									

I. Click the Download.—download ongoing as below picture

II. Download finish- one port and multi-port

oduct Models : 62980		•						Dow	nload
Download Information									
Device	IMEI	CV Ref	Rooted or not	Target SW 1 Version	fardware Version	Elapsed	Progress	Master Clear	Flashing Status
📝 (Fastboot0)->1163361407	Reading		Unrooted	Loading	Read	00:08:15	100%	PASS	Download successed.
		- DAGO, El-J. Ob-	III	-10) - 110000		- 1 1		177	0.00.45
NOT THE IMET: LARGER SW VERS	ion, N/A Master Clea	ri PASS Fidsh Stat	us, [(FastD0	010)->110330	1407] DOV	vinidadi succe	esseu, 10ti	a nine: u	0.00.15
Status :								Flan	red Time: 00:00:00
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Rev.		Page			
1.0	Neon PRD62980/62981 Level 1 Service Manual				
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Engineering Software Download Tool QCT_SP v1.0.7												
Product Models : 62981 Download												
Download Information												
Device IMEI CU Ref Rooted or not Target SW Version Hardware Version Bapsed Progress Master Rashing Clear Rashing												
												_
•												•
16:02:31 I 16:02:38 I	16:02:31 IMEI: Target SW Version: N/A Master Clear: PASS Flash Status: [(Fastboot3)->1163343863] Download successed. Total Time: 00:04:10 16:02:38 IMEI: Target SW Version: N/A Master Clear: PASS Flash Status: [(Fastboot0)->1163150532] Download successed. Total Time: 00:04:17											
16:02:41 I 16:02:42 I	MEI: Target SW Ve	rsion: N/A Master Clea	ar: PASS Flash Stat	tus: [(Fastb	oot2)->1163	361440] Do	ownload succ	cessed. To	tal Time:	00:04:20		
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16:23:44 I	MEI: Target SW Ve	rsion: N/A Master Clea	ar: PASS Flash Stat	tus: [(Fastb	oot1)->1163	361440] Do	ownload succ	cessed. To	tal Time:	00:07:20		
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Status :									Elap	sed Time:	00:00:00	
l												

3.4 Kill switch tool introduce

Kill switch tool is provided by Blackberry, if BBRY has deploy this tool for you, then you can use it.

1. Launch the Anti-theft tool from the desktop short cut or C:\Cfg\Anti-theft Tool

Anti_Theft - Shortcut			
PC → OSDisk (C:) → Cfg → Anti-TheftTool			v ¢
Name	Date modified	Туре	Size
👰 Anti_Theft_Tool	5/12/2015 4:15 PM	Application	127 KB

Rev.		Page			
1.0	Neon PRD62980/62981 Level 1 Service Manual				
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2. Once the application opens connect a device for processing

BlackBerry Anti-T	BlackBerry Anti-Theft Tool v.1.0.0.0 ×						
Waiting for device	Waiting for device						
Waiting for device	Waiting for device						
Waiting for device Waiting for device							
Waiting for device	Waiting for device						
Waiting for device	Waiting for device						
Waiting for device	Waiting for device						
Waiting for device	Waiting for device						
Waiting for device	Waiting for device						

3. The application will automatically detect and start processing the connected BlackBerry device(s)

BlackBerry Anti-Theft Tool v.1.0.0.0						
BlackBerry	004402242048357	Waiting for device				
	Waiting for device	Waiting for device				
	Waiting for device	Waiting for device				
	Waiting for device	Waiting for device				
	Waiting for device	Waiting for device				
	Waiting for device	Waiting for device				
	Waiting for device	Waiting for device				
	Waiting for device	Waiting for device				

Rev.		Page			
1.0	Neon PRD62980/62981 Level 1 Service Manual				
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 Once processing is complete the application will display the Pass/Fail results and toggle the device LED indicator Green/Red so that the Hand held can be disconnected and sent for dispositioning.

Pass			Fail	
<i>9</i>	BlackBerry Anti-Theft Tool v.1.0.0.0	×		BlackBerry Anti-Theft Tool v1.0.0.0
📀 BlackBerry	y 990001242005908	Waiting for device	Waiting for device	🙆 BlackBerry 004402242048357
	Waiting for device	Waiting for device	Waiting for device	Waiting for device
	Waiting for device	Waiting for device	Waiting for device	Waiting for device
	Waiting for device	Waiting for device	Waiting for device	Waiting for device
	Waiting for device	Waiting for device	Waiting for device	Waiting for device
	Waiting for device	Waiting for device	Waiting for device	Waiting for device
	Waiting for device	Waiting for device	Waiting for device	Waiting for device
	Waiting for device	Waiting for device	Waiting for device	Waiting for device
				1

Note

Once the USB cable is disconnected the device will reset (for a passed device this means the LED will go from Green to Red then off).

If you have any question or problem, please feel free to contact us

(tct_gcc_techSupport@tcl.com).

Thanks for your cooperation.

TCL Communication Ltd.

Global Customer Service TS Dept.

Jun.5th, 2016

Rev.		Page			
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