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IMPORTANT

Before operating or maintaining this unit, please read this manual carefully, paying attention to the safety warnings and precautions.

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CONTENTS

1 SAFETY PRECAUTIONS	1
2 INTRODUCTION	2
SPECIFICATIONS	2
ACCESSORIES INCLUDED.....	3
COMPONENTS AND PORTS.....	6
3 SUPPORT CHIP COVERAGE	11
REGISTER COVERAGE	11
MCU COVERAGE	15
4 SUPPORT ECU COVERAGE	65
IMMO ECU COVERAGE	65
5 PRODUCT TROUBLESHOOTING	70
6 UPDATE	71
SOFTWARE UPDATE	71
7 COMPLIANCE INFORMATION	72
8 WARRANTY AND SERVICE	74
LIMITED ONE YEAR WARRANTY	74
SERVICE AND SUPPORT.....	75

1 Safety Precautions

The MaxiProgrammer XP400 Pro has been specially designed to work with Autel's IM tablets to aid automotive technicians to program vehicle keys.

To avoid personal injury or damage to the vehicles, please read this manual first and observe the following safety precautions whenever working on a vehicle.

Make sure:

- The diagnosis or service is performed in a safe environment.
- The vehicle is operated in a well-ventilated work area.
- The vehicle parts and the XP400 Pro components are welded at a constant temperature.
- When welding vehicle parts with the XP400 Pro components, the unit is powered off and is grounded.
- The XP400 Pro is dry, clean and free from oil, water, grease and dust.
- Electrostatic interference is avoided during operation. If a failure occurs due to electrostatic interference, eliminate the interference and perform the operation again.

2 Introduction

The XP400 Pro has the following functions:

- (1) Read transponder data (including Mercedes Benz infrared smart key), and generate exclusive keys.
- (2) Read/write on-board EEPROM chip data, and read/write MCU/ECU chip data.
- (3) Read/write remote control transponder data and detect key frequency.

Compatible with the key programming diagnostic tablet or a computer with installed key programming software, the XP400 Pro can read/write transponder data quickly and accurately.

Specifications

Table 2-1 Specifications

Item	Description
Operating Temperature	-10°C ~ 70°C (14°F ~ 158°F)
Storage Temperature	-20°C ~ 85°C (-4°F ~ 185°F)
Port	Type B-USB, DB26, DC12
Input Voltage	5 VDC, 12VDC
Operating Current	< 500 mA
Maximum Consumption	2.5 W
Device Dimensions (L*W*H)	168 mm * 98 mm * 30 mm
Net Weight	520 g

Accessories Included

Table 2-2 Accessories











Image	Description
	APB129 – EEPROM Adapter
	APA002 – EEPROM Socket
	APB125 – Mercedes Infrared Collector
	APB103 – MCU_PLCC52 Adapter
	APB104 – MCU_FQFP64 Adapter
	APB105 – MCU_FQFP80 Adapter
	APB106 – MCU_FQFP112 Adapter
	APB107 – MCU_FQFP144 Adapter
	APB108 – MCU_FQFP176 Adapter
	APB109 – MCU_FQFP32 Adapter










Image	Description
	APB110 – MCU_FQFP48 Adapter
	APB111 – MCU_SO28 Adapter
	APB113 – PCF79XX Adapter (Optional)
	APB114 – EWS3 Adapter (Optional)
	APB115 – NEC Adapter Plate (Optional)
	APB118 – NEC Steering Lock Adapter (Optional)
	APB119 – TB28FXXX Adapter (Optional)
	APB120 – TMS370 Adapter (Optional)
	APB121 – AM29FXXX Adapter Plate (Optional)













Image	Description
	APB122 – AM29FXXX Adapter 1 (Optional)
	APB123 – AM29FXXX Adapter 2 (Optional)
	APB126 – M35080&D80 Adapter (Optional)
	APB127 – MC68HC(7)05BXX Adapter (Optional)
	APB128 – MC68HC05X32 Adapter (Optional)
	APA101 – Spare Signal Cable
	APC101 – USB Cable (Standard USB – Type B USB)
	APA103 – EEPROM Clamp
	Dupont Line
	APA107 – ECU Cable

Image	Description
	APA108 – MCU Cable
	APA109 – MC9S12 Cable



NOTE

Optional Accessories can be purchased separately.

Components and Ports

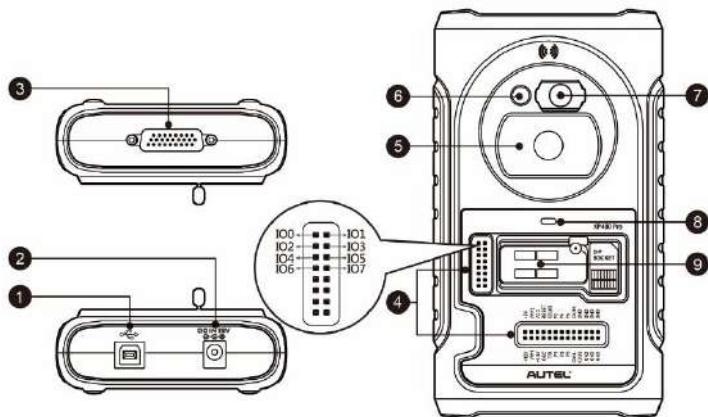


Figure 2-1 XP400 Pro Views

1. USB Port – Provides data communication and 5V DC power supply.
2. DC Port – Provides 12V DC power supply.
3. DB 26-Pin Port – connects with the Mercedes Benz infrared collector, ECU cable, MCU cable and MC9S12 cable.

-
4. Cross Signal Pins – holds the MCU spare cable or DIY signal interface.
 5. Vehicle Key Slot – holds the vehicle key.
 6. Transponder Slot – holds the transponder.
 7. Mercedes Infrared Key Slot – holds the Mercedes infrared key.
 8. Status LED – indicates the current operating status.
 9. EEPROM Component Transponder Slot – holds the EEPROM plug-in transponder or EEPROM socket.

USB Port

The Type B USB port provides data communication and power.

DC Port

DC Port is used to provide 12V power to the XP400 Pro.

DB 26-Pin Port

Four components can be connected to this port: Mercedes Infrared Collector, ECU Cable, MCU Cable and MC9S12 Cable.

Table 2-3 Definitions of ECU Cable

No.	Color	Definition	Note
1	Red	+12V	
2	Black	GND	
3	Green	IGN	
4	Orange	CANL	
5	Blue	CANH	
6	Brown	BOOTM	

No.	Color	Definition	Note
7	Yellow	K	
8	White	LIN	

Table 2-4 Definitions of MCU Cable

No.	Color	Definition	Note
1	Red and White	VPP1	
2	Red and Black	VPP2	
3	Red and Yellow	+12V	
4	Red and Blue	VPPR	
5	Black	GND	
6	Green and White	S0	
7	White	S1	
8	Brown	S2	
9	Gray	S3	
10	Blue	S4	
11	Red	S5	
12	Orange	S6	
13	Purple	S7	
14	Yellow	S8	
15	Green	S9	
16	Black	GND	Shielded Twisted

No.	Color	Definition	Note
17	White	OSC	Shielded Twisted

Table 2-5 Definitions of MC9S12 Cable

No.	Color	Definition	Note
1	Red	+5V	
2	Black	GND	
3	Green	XCLKS	
4	Blue	T/R	
5	Yellow	RESET	
6	Black	GND	Shielded Twisted
7	White	OSC	Shielded Twisted

Cross-shaped Signal Pin

The Cross-shaped signal pin is used to place MCU spare cable or DIY signal cable to read or write MCU and ECU chips.

Vehicle Key Slot

Holds the vehicle key to read or write vehicle key information.

Transponder Slot

Holds the transponder to read or write transponder information.

Mercedes Infrared Slot

Holds Mercedes vehicle key to read or write Mercedes vehicle key information.

Status Indicator

The Status Indicator shows the current operating status of the XP400 Pro.

Table 2-6 Description of the Status Indicator

Indicator	Status	Description
On	Light Green	Powered on and default
	Flash Green	Communication
	Light Red	Error

EEPROM Component Transponder Slot

Holds the EEPROM plug-in transponder or EEPROM socket to read or write EEPROM information.

3 Support Chip Coverage

Register Coverage

Manufacturer	Chip Model	Note
AKM	AK93CXX	
	AK64XX	
ALTERA	EPCSXXX	
AMIC	A25LXXX	
ATMEL	AT17XXXX	
	AT24XXXX	
	AT25XXX	
	AT26XXX	
	AT34XXX	
	AT45DXX	
	AT59CXX	
	AT93CXX	
CATALYST/ONSEMI	CAT10XX	
	CAT24XXX	
	CAT25XXX	
	CAT35CXXX	
	CAT59CXX	
	CAT64LCXX	

Manufacturer	Chip Model	Note
	CAT93CXX	
CHINGIS/PMC	PM25LDXXX	
	PM25LVXXX	
	PM25WXXX	
EON	EN25BXX	
	EN25DXXX	
	EN25FXX	
	EN25MXX	
	EN25QXXX	
	EN25TXX	
ESMT	F25L0XX	
EXEL	XL[S]24CXX	
	XL[S]93CXX	
	XL[S]93LCXX	
FAIRCHILD/NSC/RAMTRON	PM24CXXX	
	PM24CLXXX	
	PM25XXX	
	FM93CXX	
	FM93CSXX	
	NM24CXX	
	NM34XXX	
	NM93XX	
	NM93CXX	
	NM93CSXX	
FUJITSU	MB85RCXX	

Manufacturer	Chip Model	Note
GI	BAWXXXXXX	
	ER59XXX	
GIGADEVICE	GD25QXX	
GRUNDIG	GRX-XXX	
HOLTEK	HT93CXX	
ITT	NVMXXXX	
	MDAXXXX	
KHIC	KH25LXXXX	
MACRONIX	MX25LXX	
MICROCHIP	24AAXX	
	24[F][L]CXX	
	25AAXXX	
	25LCXXX	
	93C/AA/LCXX[A]	
	93C/AA/LCXX[B]	
	93C/AA/LCXX[C]	
MICRON	M25PXXX	
	M25QXXX	
MITSUBISHI	M6M800X1	
NEC	UPD625X	
NUMONYX	M25PXXX	
	M25QXXX	
OKI	MSM16XXX	
PCT	PCT25VF032B	
PHILIPS	PCA85XX	

Manufacturer	Chip Model	Note
PIONEER	PDXXXX	
ROHM	BR24CXX	
	BR90XX	
	BR93XXX	
SAMSUNG	KM93CXX	
	KS24XXXX	
SEIKO	S-24XXX	
	S-93XXX	
SONY	CXK10XX	
SPANSION	S25FLXX	
	S99-50084	
SST	SST25LF0X0A	
	SST25VFXXX	
ST	M24CXX	
	M25P[E/X]XX	
	M34XXX	
	M35XXX	
	M8571	
	M93C/SXX	
	M95XXX	
	ST24XXX	
	ST25XXX	
	ST93C/CSX6/X7	
	ST950XX	
	ST95P0X	

Manufacturer	Chip Model	Note
WINBOND	W25PXXX	
	W25XXXX	
XICOR	X24XXX	
	X504X	

MCU Coverage

Manufacturer	Chip Model	Note
ATMEL	ATTINYXXX	
	AT90XXXXX	
	AT90S2313	
	AT90S8515	
	AT90CAN32	
	AT90CAN64	
	AT90CAN128	
	ATMEGA48XX	48/48P/48PB
	ATMEGA8	
	ATMEGA88XX	88/88P/88PB
	ATMEGA16XX	16/162/163/164(P)/165(P)/168(P/PB)/169(P)
	ATMEGA32XX	32/323/324(P/PB)/325(P)/328(P/PB)/329(P)/3290(P)
ATMEGA33XX	00/00P	

Manufacturer	Chip Model	Note
	ATMEGA64XX	64/644(P)/645(P)/6450(P)/649(P)/6490(P)
	ATMEGA103	
	ATMEGA128X	128/1280/1281/1284(P)
	ATMEGA256X	60/61
	ATMEGA8515	
	ATMEGA8535	
FREESCALE	MC68HC05B4	
	MC68HC05B6	
	MC68HC05B8	
	MC68HC05B16	
	MC68HC05B32	
	MC68HC05H12	
	MC68HC05L28	
	MC68HC05P3	
	MC68HC05X16	
	MC68HC05X32	
	MC68HC705B16	
	MC68HC705B16N	
	MC68HC705B32	
	MC68HC705D9	
	MC68HC705E6	
	MC68HC705E6	
	MC68HC705P3	
	MC68HC705X32	

Manufacturer	Chip Model	Note
	MC68HC11A1	
	MC68HC11A8	
	MC68HC11E1	
	MC68HC11E9	
	MC68HC11E20	
	MC68HC11E32	
	MC68HC11EA9	
	MC68HC11F1	
	MC68HC11K4	
	MC68HC11KA2	
	MC68HC11KA4	
	MC68HC11KG4	
	MC68HC11KS2	
	MC68HC11KW1	
	MC68HC11L6	
	MC68HC11P2	
	MC68HC11PA8	
	MC68HC11PH8	
	MC68HC711E9	
	MC68HC711E20	
	MC68HC711EA9	
	MC68HC711PH8	
	MC68HC08ASxxA	
	MC68HC08ASxxA	
	MC68HC908AB32	

Manufacturer	Chip Model	Note
	MC68HC908APxxA	
	MC68HC908AP64	
	MC68HC908AZxx	
	MC68HC908AZxxA	
	MC68HC908GP32	
	MC68HC908GRxx	
	MC68HC908GTxx	
	MC68HC908GZxx	
	MC68HC908JB8	
	MC68HC908JB16	
	MC68HC908JK3	
	MC68HC908JL3	
	MC68HC908JL16	
	MC68HC908KX2	
	MC68HC908LJxx	
	MC68HC908LKxx	
	MC68HC908QC4	
	MC68HC908QC8	
	MC68HC908QC16	
	MC68HC908QY2	
	MC68HC912D60	
	MC68HC912D60A	
	MC68HC912D60C	
	MC68HC912D60P	
	MC68HC912DG128	

Manufacturer	Chip Model	Note
	MC68HC912DG128A	
	MC68HC912DG128C	
	MC68HC912DG128P	
	MC68HC912DJ128A	
	MC68HC912DT128	
	MC68HC912DT128A	
	MC68HC912DT128C	
	MC68HC912DT128P	
	MC9RS08KA1	
	MC9RS08KA2	
	MC9RS08LA8	
	MC9S08AC8	
	MC9S08AC16	
	MC9S08AC32	
	MC9S08AC48	
	MC9S08AC60	
	MC9S08AC96	
	MC9S08AC128	
	MC9S08AW8	
	MC9S08AW16	
	MC9S08AW32	
	MC9S08AW48	
	MC9S08AW60	
	MC9S08DV16	
	MC9S08DV32	

Manufacturer	Chip Model	Note
	MC9S08DV48	
	MC9S08DV60	
	MC9S08DV96	
	MC9S08DV128	
	MC9S08DN16	
	MC9S08DN32	
	MC9S08DN48	
	MC9S08DN60	
	MC9S08DZ16	
	MC9S08DZ32	
	MC9S08DZ48	
	MC9S08DZ60	
	MC9S08DZ96	
	MC9S08DZ128	
	MC9S08EL16	
	MC9S08EL32	
	MC9S08FL8	
	MC9S08FL16	
	MC9S08GB32	
	MC9S08GB60	
	MC9S08GT16	
	MC9S08GT32	
	MC9S08GT60	
	MC9S08JM8	
	MC9S08JM16	

Manufacturer	Chip Model	Note
	MC9S08JM32	
	MC9S08JM60	
	MC9S08JS8	
	MC9S08JS16	
	MC9S08LC36	
	MC9S08LC60	
	MC9S08LG16	
	MC9S08LG32	
	MC9S08LH36	
	MC9S08LH64	
	MC9S08LL8	
	MC9S08LL16	
	MC9S08LL36	
	MC9S08LL64	
	MC9S08MM32	
	MC9S08MM32A	
	MC9S08MM64	
	MC9S08MP12	
	MC9S08MP16	
	MC9S08QA2	
	MC9S08QA4	
	MC9S08QB4	
	MC9S08QB8	
	MC9S08QD2	
	MC9S08QD4	

Manufacturer	Chip Model	Note
	MC9S08QE4	
	MC9S08QE8	
	MC9S08QE16	
	MC9S08QE32	
	MC9S08QE64	
	MC9S08QE96	
	MC9S08QE128	
	MC9S08QG4	
	MC9S08QG8	
	MC9S08RC8	
	MC9S08RC16	
	MC9S08RC32	
	MC9S08RC60	
	MC9S08RD8	
	MC9S08RD16	
	MC9S08RD32	
	MC9S08RD60	
	MC9S08RE8	
	MC9S08RE16	
	MC9S08RE32	
	MC9S08RE60	
	MC9S08RG32	
	MC9S08RG60	
	MC9S08SC4	
	MC9S08SE4	

Manufacturer	Chip Model	Note
	MC9S08SE8	
	MC9S08SF4	
	MC9S08SG4	
	MC9S08SG8	
	MC9S08SG16	
	MC9S08SG32	
	MC9S08SH4	
	MC9S08SH8	
	MC9S08SL8	
	MC9S08SL16	
	MC9S08SU8	
	MC9S08SU16	
	MC9S08SV8	
	MC9S08SV16	
	MC9S12A32	
	MC9S12A64	
	MC9S12A128	
	MC9S12A256	
	MC9S12A512	
	MC9S12B64	
	MC9S12B128	
	MC9S12B256	
	MC9S12C32	
	MC9S12C64	
	MC9S12C96	

Manufacturer	Chip Model	Note
	MC9S12C128	
	MC9S12D32	
	MC9S12D64	
	MC9S12DB128	
	MC9S12DG128	
	MC9S12DG256	
	MC9S12DJ64	
	MC9S12DJ128	
	MC9S12DJ256	
	MC9S12DJ512	
	MC9S12DP256	
	MC9S12DP512	
	MC9S12DT128	
	MC9S12DT256	
	MC9S12DT512	
	MC9S12GC16	
	MC9S12GC32	
	MC9S12GC64	
	MC9S12GC96	
	MC9S12GC128	
	MC9S12KG32	
	MC9S12KG64	
	MC9S12KG128	
	MC9S12KG256	
	MC9S12KT128	

Manufacturer	Chip Model	Note
	MC9S12KT256	
	MC9S12KL64	
	MC9S12KL128	
	MC9S12H128	
	MC9S12H256	
	MC9S12HN64	
	MC9S12HA32	
	MC9S12HA48	
	MC9S12HA64	
	MC9S12HY32	
	MC9S12HY48	
	MC9S12HY64	
	MC9S12HZ64	
	MC9S12HZ128	
	MC9S12HZ256	
	MC9S12P32	
	MC9S12P64	
	MC9S12P96	
	MC9S12P128	
	MC9S12XA128	
	MC9S12XA256	
	MC9S12XA512	
	MC9S12XB128	
	MC9S12XB256	
	MC9S12XD64	

Manufacturer	Chip Model	Note
	MC9S12XD128	
	MC9S12XD256	
	MC9S12XDG128	
	MC9S12XDG256	
	MC9S12XDG512	
	MC9S12XDP512	
	MC9S12XDQ256	
	MC9S12XDT256	
	MC9S12XDT384	
	MC9S12XDT512	
	MC9S12XEA128	
	MC9S12XEA256	
	MC9S12XEG128	
	MC9S12XEG256	
	MC9S12XEG384	
	MC9S12XEP768	
	MC9S12XEP100	
	MC9S12XEQ384	
	MC9S12XEQ512	
	MC9S12XES384	
	MC9S12XET256	
	MC9S12XET512	
	MC9S12XF128	
	MC9S12XF256	
	MC9S12XF384	

Manufacturer	Chip Model	Note
	MC9S12XF512	
	MC9S12XHY128	
	MC9S12XHY256	
	MC9S12XHZ256	
	MC9S12XHZ384	
	MC9S12XHZ512	
	MC9S12XS64	
	MC9S12XS128	
	MC9S12XS256	
	MPC5601D	
	MPC5602B	
	MPC5602D	
	MPC5603B	
	MPC5603C	
	MPC5604B	
	MPC5604C	
	MPC5605B	
	MPC5606B	
	MPC5607B	
	MPC5601P	
	MPC5602P	
	MPC5603P	
	MPC5604P	
	MPC5604E	
	MPC5602S	

Manufacturer	Chip Model	Note
	MPC5604S	
	MPC5606S	
FUJITSU	MB90F038S	
	MB90F342	
	MB90F345	
	MB90F346	
	MB90F347	
	MB90F349	
	MB90F352	
	MB90F357	
	MB90F387	
	MB90F423	
	MB90F428	
	MB90F438L	
	MB90F439	
	MB90F455	
	MB90F456	
	MB90F457	
	MB90F462	
	MB90F497	
	MB90F498G	
	MB90F523B	
MB90F543		
MB90F546		
MB90F548		

Manufacturer	Chip Model	Note
	MB90F549	
	MB90F553A	
	MB90F594A	
	MB90F654A	
	MB90F867	
	MB95F108AM	
	MB95F108B	
	MB95F116MA	
	MB95F118B	
	MB95F118M	
	MB95F128	
	MB95F128MB	
	MB95F136MB	
	MB95F156M	
	MB95F166	
	MB95F168MA	
	MB96F348	
	MB96F385	
	MB96F386	
	MB96F387	
	MB96F673	
	MB96F675	
	MB96F683	
	MB96F685	
	MB96F693	

Manufacturer	Chip Model	Note
	MB96F695	
	MB96F696	
	MB96F6A5	
	MB96F6A6	
INFINEON	XC164CS-16F	
	XC164CS-32F	
	XC2060M-104F	
	XC2060N-40F	
	XC2080-96F	
	XC2336A-56F	
	XC2336A-72F	
	XC2361A-56F	
	XC2361A-72F	
	XC2363A-56F	
	XC2363A-72F	
	XC2364A-56F	
	XC2364A-72F	
	XC2364A-104F	
	XC2365A-56F	
	XC2365A-72F	
	XC2365A-104F	
	XC2336B-24F	
	XC2336B-40F	
	XC2361B-24F	
XC2361B-40F		

Manufacturer	Chip Model	Note
	XC2363B-24F	
	XC2363B-40F	
	XC2364B-24F	
	XC2364B-40F	
	XC2365B-24F	
	XC2365B-40F	
	XC2765X-72F	
	XC2765X-104F	
MICROCHIP	PIC12F508	
	PIC12F509	
	PIC12F510	
	PIC12F609	
	PIC12F615	
	PIC12F617	
	PIC12F629	
	PIC12F635	
	PIC12F675	
	PIC12F683	
	PIC12F752	
	PIC12(L)F1501	
	PIC12(L)F1552	
	PIC12(L)F1571	
	PIC12(L)F1572	
	PIC12(L)F1612	
PIC12(L)F1822		

Manufacturer	Chip Model	Note
	PIC12(L)F1840	
	PIC12HV609	
	PIC12HV615	
	PIC16F505	
	PIC16F506	
	PIC16F54	
	PIC16F610	
	PIC16F616	
	PIC16F631	
	PIC16F636	
	PIC16F639	
	PIC16F677	
	PIC16F684	
	PIC16F685	
	PIC16F687	
	PIC16F688	
	PIC16F689	
	PIC16F690	
	PIC16F707	
	PIC16F72	
	PIC16F722	
	PIC16F723	
	PIC16F724	
	PIC16F726	
	PIC16F727	

Manufacturer	Chip Model	Note
	PIC16F73	
	PIC16F74	
	PIC16F76	
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	PIC16F818	
	PIC16F819	
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	PIC16F87	
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	PIC16F877	
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	PIC16F882	
	PIC16F883	
	PIC16F884	
	PIC16F886	
	PIC16F887	
	PIC16F913	
	PIC16F914	
	PIC16F916	

Manufacturer	Chip Model	Note
	PIC16F917	
	PIC16F946	
	PIC16F1454	
	PIC16F1455	
	PIC16F1459	
	PIC16(L)F707	
	PIC16(L)F722	
	PIC16(L)F723	
	PIC16(L)F724	
	PIC16(L)F726	
	PIC16(L)F727	
	PIC16(L)F88	
	PIC16(L)F1454	
	PIC16(L)F1455	
	PIC16(L)F1459	
	PIC16(L)F1503	
	PIC16(L)F1507	
	PIC16(L)F1508	
	PIC16(L)F1509	
	PIC16(L)F1512	
	PIC16(L)F1513	
	PIC16(L)F1516	
	PIC16(L)F1517	
	PIC16(L)F1518	
	PIC16(L)F1519	

Manufacturer	Chip Model	Note
	PIC16(L)F1526	
	PIC16(L)F1527	
	PIC16(L)F1554	
	PIC16(L)F1559	
	PIC16(L)F1566	
	PIC16(L)F1567	
	PIC16(L)F1613	
	PIC16(L)F1614	
	PIC16(L)F1615	
	PIC16(L)F1618	
	PIC16(L)F1619	
	PIC16(L)F1703	
	PIC16(L)F1704	
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	PIC16(L)F1708	
	PIC16(L)F1709	
	PIC16(L)F1713	
	PIC16(L)F1716	
	PIC16(L)F1717	
	PIC16(L)F1718	
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	PIC16(L)F1824	
	PIC16(L)F1825	

Manufacturer	Chip Model	Note
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	PIC16(L)F1827	
	PIC16(L)F1828	
	PIC16(L)F1829	
	PIC16(L)F18313	
	PIC16(L)F18323	
	PIC16(L)F18324	
	PIC16(L)F18325	
	PIC16(L)F18326	
	PIC16(L)F18344	
	PIC16(L)F18345	
	PIC16(L)F18346	
	PIC16(L)F1847	
	PIC16(L)F1902	
	PIC16(L)F1903	
	PIC16(L)F1904	
	PIC16(L)F1906	
	PIC16(L)F1907	
	PIC16(L)F1933	
	PIC16(L)F1934	
	PIC16(L)F1936	
	PIC16(L)F1937	
	PIC16(L)F1938	
	PIC16(L)F1939	
	PIC16(L)F1946	

Manufacturer	Chip Model	Note
	PIC16(L)F1947	
	PIC16HV610	
	PIC16HV616	
	PIC18F242	
	PIC18F248	
	PIC18F252	
	PIC18F258	
	PIC18F442	
	PIC18F448	
	PIC18F452	
	PIC18F458	
	PIC18F1220	
	PIC18F1230	
	PIC18F1320	
	PIC18F1330	
	PIC18F2220	
	PIC18F2221	
	PIC18F2320	
	PIC18F2321	
	PIC18F2410	
	PIC18F2420	
	PIC18F2423	
	PIC18F2450	
	PIC18F2455	
	PIC18F2458	

Manufacturer	Chip Model	Note
	PIC18F2480	
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	PIC18F2525	
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	PIC18F2580	
	PIC18F2585	
	PIC18F2610	
	PIC18F2620	
	PIC18F2680	
	PIC18F2682	
	PIC18F2685	
	PIC18F4220	
	PIC18F4221	
	PIC18F4320	
	PIC18F4321	
	PIC18F4410	
	PIC18F4420	
	PIC18F4423	
	PIC18F4450	
	PIC18F4455	
	PIC18F4458	

Manufacturer	Chip Model	Note
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	PIC18F4580	
	PIC18F4585	
	PIC18F4610	
	PIC18F4620	
	PIC18F4680	
	PIC18F4682	
	PIC18F4685	
	PIC18F6527	
	PIC18F6622	
	PIC18F6627	
	PIC18F6628	
	PIC18F6722	
	PIC18F6723	
	PIC18F8527	
	PIC18F8622	
	PIC18F8627	
	PIC18F8628	

Manufacturer	Chip Model	Note
	PIC18F8722	
	PIC18F8723	
	PIC18F23K20	
	PIC18F24K20	
	PIC18F25K20	
	PIC18F26K20	
	PIC18F43K20	
	PIC18F44K20	
	PIC18F45K20	
	PIC18F46K20	
	PIC18(L)F13K22	
	PIC18(L)F13K50	
	PIC18(L)F14K22	
	PIC18(L)F14K50	
	PIC18(L)F24K50	
	PIC18(L)F25K50	
	PIC18(L)F26K50	
	PIC18(L)F45K50	
	PIC18(L)F46K50	
	PIC18(L)F24J10	
	PIC18(L)F24J11	
	PIC18(L)F24J50	
	PIC18(L)F25J10	
	PIC18(L)F25J11	
	PIC18(L)F25J50	

Manufacturer	Chip Model	Note
	PIC18(L)F26J11	
	PIC18(L)F26J13	
	PIC18(L)F26J50	
	PIC18(L)F26J53	
	PIC18(L)F27J13	
	PIC18(L)F27J53	
	PIC18(L)F44J10	
	PIC18(L)F44J11	
	PIC18(L)F44J50	
	PIC18(L)F45J10	
	PIC18(L)F45J11	
	PIC18(L)F45J50	
	PIC18(L)F46J11	
	PIC18(L)F46J13	
	PIC18(L)F46J50	
	PIC18(L)F46J53	
	PIC18(L)F47J13	
	PIC18(L)F47J53	
	PIC24F08KA101	
	PIC24F08KA102	
	PIC24F16KA101	
	PIC24F16KA102	
NSC	CR16MCS9	
	CR16MCT9	
RENESAS	R5F21112	

Manufacturer	Chip Model	Note
	R5F21113	
	R5F21114	
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	R5F21123	
	R5F21124	
	R5F21244	
	R5F21245	
	R5F21246	
	R5F21247	
	R5F21248	
	R5F21254	
	R5F21255	
	R5F21256	
	R5F21257	
	R5F21258	
	R5F21262	
	R5F21264	
	R5F21265	
	R5F21266	
	R5F21272	
	R5F21274	
	R5F21275	
	R5F21276	
	R5F212A7	
	R5F212A8	

Manufacturer	Chip Model	Note
	R5F212AA	
	R5F212AC	
	R5F212B7	
	R5F212B8	
	R5F212BA	
	R5F212BC	
	R5F212C7	
	R5F212C8	
	R5F212CA	
	R5F212CC	
	R5F212D7	
	R5F212D8	
	R5F212DA	
	R5F212DC	
	R5F21354	
	R5F21355	
	R5F21356	
	R5F21357	
	R5F21358	
	R5F2135A	
	R5F2135C	
	R5F21546E	
	R5F21547E	
	R5F21548E	
	R5F2154AE	

Manufacturer	Chip Model	Note
	R5F2154CE	
	R5F21546F	
	R5F21547F	
	R5F21548F	
	R5F2154AF	
	R5F2154CF	
	R5F21546G	
	R5F21547G	
	R5F21548G	
	R5F2154AG	
	R5F2154CG	
	R5F21546H	
	R5F21547H	
	R5F21548H	
	R5F2154AH	
	R5F2154CH	
	R5F363A6	
	R5F363AE	
	R5F363AK	
	R5F363AM	
	R5F363B6	
	R5F363BE	
	R5F36406	
	R5F3640E	
	R5F3640K	

Manufacturer	Chip Model	Note
	R5F3640M	
	R5F364A6	
	R5F364AE	
	R5F364AM	
	R5F36506	
	R5F3650E	
	R5F3650K	
	R5F3650M	
	R5F3650N	
	R5F36CA6	
	R5F36CAE	
	R5F36CAK	
	R5F36CAM	
	R5F64110	
	R5F64111	
	R5F64112	
	R5F64114	
	R5F64115	
	R5F64116	
	R5F6411E	
	R5F6411F	
	R5F64165	
	R5F64166	
	R5F64167	
	R5F64168	

Manufacturer	Chip Model	Note
	R5F64169	
	R5F64175	
	R5F64176	
	R5F64177	
	R5F64178	
	R5F64179	
	R5F6417A	
	R5F6417B	
	R5F64185	
	R5F64186	
	R5F64187	
	R5F64188	
	R5F64189	
	R5F64206	
	R5F64207	
	R5F6420A	
	R5F6420B	
	R5F64210	
	R5F64211	
	R5F64212	
	R5F64213	
	R5F64216	
	R5F64217	
	R5F64218	
	R5F64219	

Manufacturer	Chip Model	Note
	R5F6421A	
	R5F6421B	
	R5F6421C	
	R5F6421D	
	R5F6421E	
	R5F6421F	
	R5F6421G	
	R5F6421H	
	R5F6442F	
	R5F6442H	
	R5F6445F	
	R5F6445H	
	R5F64116J	
	R5F64116K	
	R5F64116L	
	R5F64116M	
	R5F64117J	
	R5F64117K	
	R5F64117L	
	R5F64117M	
	R5F64118J	
	R5F64118K	
	R5F64118L	
	R5F64118M	
	R5F64524JFD	

Manufacturer	Chip Model	Note
	R5F64524LFD	
	R5F64524KFD	
	R5F64525JFD	
	R5F64525LFD	
	R5F64525KFD	
	R5F6452MJFD	
	R5F6452MLFD	
	R5F6452MKFD	
	R5F6452NJFD	
	R5F6452NLFD	
	R5F6452NKFD	
	M30620FC	
	M30624FG	
	M30873FH	
	M30875FH	
	M30876FJ	
	M30878FJ	
	M30879FK	
	M30879FL	
	M3087BFK	
	M3087BFL	
	M30880FW	
	M30880FH	
	M30880FJ	
	M30882FW	

Manufacturer	Chip Model	Note
	M30882FH	
	M30882FJ	
	R7F701002	
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	R7F701012	
	R7F701013	
	R7F701014	
	R7F701015	
	R7F701016	
	R7F701017	
	R7F701018	
	R7F701019	
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	R7F701021	
	R7F701022	
	R7F701023	
	R7F701024	
	R7F701025	
	R7F701028	

Manufacturer	Chip Model	Note
	R7F701029	
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	R7F701040	
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	R7F701046	
	R7F701047	
	R7F701048	
	R7F701049	
	R7F701050	
	R7F701051	
	R7F701052	
	R7F701053	
	R7F701054	
	R7F701055	
	R7F701056	
	R7F701057	
	R7F701A03	
	R7F701A23	

Manufacturer	Chip Model	Note
	R7F701542	
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	R7F701557	
	R7F701560	
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	R7F701563	
	R7F701566	
	R7F701567	
	R7F701577	
	R7F701580	
	R7F701581	
	R7F701582	
	R7F701583	
	R7F701586	
	R7F701587	
	R7F701597	
	R7F701602	
	R7F701603	
	R7F701610	
	R7F701611	
	R7F701612	
	R7F701613	

Manufacturer	Chip Model	Note
	R7F701620	
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	R7F701622	
	R7F701623	
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	uPD70F3239	
	uPD70F3333	
	uPD70F3334	
	uPD70F3335	
	uPD70F3336	
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	uPD70F3345	
	uPD70F3346	

Manufacturer	Chip Model	Note
	uPD70F3347	
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	uPD70F3358	
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	uPD70F3367	
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	uPD70F3370A	
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	uPD70F3372	
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	uPD70F3376A	
	uPD70F3377A	

Manufacturer	Chip Model	Note
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	uPD70F3403A	
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	uPD70F3438	
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	uPD70F3452	
	uPD70F3453	
	uPD70F3454	
	uPD70F3461	

Manufacturer	Chip Model	Note
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	uPD70F3480	
	uPD70F3481	
	uPD70F3482	
	uPD70F3483	
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	uPD70F3488	
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	uPD70F3509	

Manufacturer	Chip Model	Note
	uPD70F3522	
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Manufacturer	Chip Model	Note
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Manufacturer	Chip Model	Note
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	uPD70F3701	
	uPD70F3702	
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	uPD70F3704	
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	uPD70F3707	
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	uPD70F3710	
	uPD70F3711	

Manufacturer	Chip Model	Note
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	uPD70F3757	
	uPD70F3778	

Manufacturer	Chip Model	Note
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Manufacturer	Chip Model	Note
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	uPD70F3935	
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	uPD70F3939	
	uPD70F4000	

Manufacturer	Chip Model	Note
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	uPD70F4006	
	uPD70F4007	
	uPD70F4008	
	uPD70F4009	
	uPD70F4010	
	uPD70F4011	
	uPD70F4012	
	uPD70F4177	
	uPD70F4178	
	uPD70F4179	
	uPD70F4180	
	uPD76F0117	
uPD76F0192		
SAMSUNG	S3F9488	
SILABS	C8051FXXX	
ST	SPC5607B	
	SPC560BXX	
	SPC560CXX	
	SPC560DXX	
	SPC560PXX	

Manufacturer	Chip Model	Note
	SPC560APXX	
	ST10F2XX	
	STM8AF5XXX	
	STM8AF6XXX	
	STM8AL31XX	
	STM8AL3LXX	
	STM8L051XX	
	STM8L052XX	
	STM8L101XX	
	STM8L151XX	
	STM8L152XX	
	STM8L162XX	
	STM8S003XX	
	STM8S005XX	
	STM8S007XX	
	STM8S103XX	
	STM8S105XX	
	STM8S207XX	
	STM8S208XX	
	STM8S903XX	
	STM32F030XXX	
	STM32F031XXX	
	STM32F050XXX	
	STM32F051XXX	
	STM32F100XXX	

Manufacturer	Chip Model	Note
	STM32F101XXX	
	STM32F103XXX	
	STM32F205RXX	
TI	MSP430F1XX2	
	MSP430F123	
	MSP430F13X	
	MSP430F14XX	
	MSP430F15XX	
	MSP430F16XX	
	MSP430F20XX	
	MSP430F21XX	
	MSP430F22XX	
	MSP430F23X	
	MSP430F24XX	
	MSP430F4XX	

4 Support ECU Coverage

IMMO ECU Coverage

Manufacturer	Chip Model	Note
Audi	BCM2	
	J518(A6&Q7)(--2010)	
	J518(A6&Q7)(2010--)	
Mercedes Benz	EIS-W203(1J35D)	
	EIS-W203(1J74Y)	
	EIS-W203(2J74Y)	
	EIS-W203(3J74Y)	
	EIS-W203(4J74Y)	
	EIS-W203(1J35D)_IC2	
	EIS-W203(1J74Y)_IC2	
	EIS-W203(2J74Y)_IC2	
	EIS-W203(3J74Y)_IC2	
	EIS-W203(4J74Y)_IC2	
	EIS-W220(W215)(1J35D)-V1	
	EIS-W220(W215)(1J35D)-V2	
	EIS-W220(W215)(1J74Y)-V1	
	EIS-W220(W215)(1J74Y)-V2	
EIS-W220(W215)(2J74Y)-V1		

Manufacturer	Chip Model	Note
	EIS-W220(W215)(2J74Y)-V2	
	EIS-W220(W215)(3J74Y)-V1	
	EIS-W220(W215)(3J74Y)-V2	
	EIS-W220(W215)(4J74Y)-V1	
	EIS-W220(W215)(4J74Y)-V2	
	EIS-W230	
	EIS-W639(1J35D)	
	EIS-W639(0L02M)	
	EIS-W639(1L02M)	
	EIS-W639(3K85K)	
	EIS-W639(4J74Y)	
	EIZ-W164(ST12)	
	EIZ-W169(ST12)-V1	
	EIZ-W169(ST12)-V2	
	EIZ-W203(ST12)	
	EIZ-W209(ST12)-V1	
	EIZ-W209(ST12)-V2	
	EIZ-W211(ST12)	
	EIZ-W215(ST12)	
	EIZ-W219(ST12)	
	EIZ-W220(ST12)	
	EIZ-W221(ST12)	
	EIZ-W230(ST12)	
	EIZ-W463(ST12)	
	EIZ-W906(ST12)	

Manufacturer	Chip Model	Note
	EIZ-W203(HC12)	
	EIZ-W211(HC12)	
	EIZ-W219(HC12)	
	EIZ-W220(HC12)	
	EIZ-W230(HC12)	
	EIZ-MAYBACH(ST12)	
	EIZ-SPRINTER 2015(2006-)	
	EIZ-VITO(VIANO)(ST12)	
	SPRINTER-IMMOBOX(2002-2005)	
	HC05E6-REMOTE(0G72G)	
	HC05E6-REMOTE(0F82B)	
	BMW	EWS4
CAS1-0K50E		
CAS2-2K79X		
CAS2-0L01Y		
CAS3-2K79X		
CAS3-0L01Y		
CAS3+-0L15Y		
CAS3+-0M23S		
CAS4-1L15Y		
CAS4-5M48H		
CAS4-1N35H		
Buick	BCM(D70F3385)	
	BCM(D70F3469)	

Manufacturer	Chip Model	Note
	EXCELLE(2013-)BCM	
	EXCELLE-GT(2013-)BCM	
	EXCELLE(2014)BCM	
	REGAL_KG_MODULE(2014)	
	LACROSSE-BCM(2008)	
Chevrolet	BCM(D70F3385)	
	NEW-SAIL(2013-)BCM	
	CRUZE(2017)BCM	
Chrysler	DODGE_JOURNEY	
	300C	
Delphi	48-IMMO	
Ford	MONDEO	
	MUSTANG	
GM	PASS-KEY	
	BCM3	
	KEYLESS-ENTRY-MODULE(2009-)	
Hyundai	ELANTRA-KG-MODULE(MC9S12XEG384)	
	IX35(2015)(MC9S12XD256)	
Jaguar	RFA(MC9S12XEQ384)	
Jeep	BCM-RENEGADE(uPD70F3557)	
Range Rover	RFA(MC9S12XEQ384)	
	DISCOVERY3-CEM	
	RANGE-ROVER-SPORT-CEM	

Manufacturer	Chip Model	Note
Nissan	BCM-XDT384	
Porsche	BCM_1L15Y	
	BCM_2M25J	
	BCM_3M25J	
	BCM-1N35H	
	BCM_5M48H	
STEC	IMMO(0L07H)	
	IMMO(0L59X)	
	IMMO(0L72A)	
	IMMO(3K56G)	
	IMMO(0L72A_E)	
	IMMO(1K59H_E)	
Volvo	KVM-TYPE1	
	CEM-TYPE1	
	CEM-TYPE2	
	CEM-TYPE3-MC9S12XDT384	
	CEM-TYPE3-MC9S12DG128	
	CEM-TYPE3-MC9S12DT256	
	CEM-TYPE4	
	UEM-TYPE4-MIRROR	

5 Product Troubleshooting

This section discusses errors that might occur when using the XP400 Pro and the steps to take to resolve these issues.

Vehicle Linking Error

A communication error occurs if the diagnostic tablet fails to communicate with the XP400 Pro. Please do the following to correct the error:

- ✓ Verify that the XP400 Pro has been authorized by the diagnostic tablet.
- ✓ Verify the Internet connection is strong and stable.
- ✓ Verify that the power LED on the XP400 Pro is lit solid green.

PC Communication Error

A communication error occurs if the XP400 Pro fails to communicate with PC. Please do the following to correct the error:

- ✓ Verify that the power LED on the XP400 Pro is lit solid green.
- ✓ Ensure no firewall software on the PC is preventing communication and that the USB port is functioning properly.
- ✓ Ensure the USB communication status LED is blinking green.

Contact technical support if the above steps fail to resolve the communication error.

6 Update

Software Update

The XP400 Pro software can be updated via the key programming tablet and a windows-based computer. This section describes two ways to update the software of the XP400 Pro.

Update via Autel's Tablet

This function allows you to update the XP400 Pro software via Autel's IMMO & Key Programming tablet.

1. Connect the XP400 Pro to Autel's IMMO & Key Programming tablet via the supplied USB cable.
2. Verify the power LED light on the front panel is lit solid green.
3. Tap the "Programmer" application on the tablet's main screen.
4. The tablet will automatically detect the software version information and download the software update if available.

Update via a Windows PC

This function allows you to update the XP400 Pro software via a Windows PC. The computer must be connected to the Internet to update the software on the XP400 Pro.

1. Connect the XP400 Pro to a PC with the supplied USB cable.
2. Verify the power LED on the front panel is lit solid green.
3. Open the PC software. If a firmware update is available for the XP400 Pro, a message will display to prompt you to update the software. Otherwise, no message displays.
4. After the update is complete, click the "About" button in the lower left corner of the PC software to view the current XP400 Pro firmware, hardware and PC software versions.

7 Compliance Information

FCC COMPLIANCE

FCC ID: WQ8PRGXP400

This device complies with Part 15 of the FCC rules and Industry Canada's license-exempt RSSs. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Cet appareil est conforme aux CNR exempts de licence d'Industrie Canada. Son fonctionnement est soumis aux deux conditions suivantes:

1. Ce dispositif ne peut causer des interférences; et
2. Ce dispositif doit accepter toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement de l'appareil.

WARNING

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is

no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

RF WARNING STATEMENT

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

The term "IC" before the radio certification number only signifies that IC technical specifications were met.

RoHS COMPLIANCE

This device is declared to be in compliance with the European RoHS Directive 2011/65/EU and amendment Commission Delegated Directive (EU) 2015/863.

CE COMPLIANCE

This Product is declared to conform to the essential requirements of the following Directives and carries the CE mark accordingly:

- EMC Directive 2014/30/EU
- R&TTE Directive 1999/5/EC
- Low Voltage Directive 2014/35/EU

8 Warranty and Service

Limited One Year Warranty

Autel Intelligent Technology Corp., Ltd. (the Company) warrants to the original retail purchaser of this Autel device that should this product or any part thereof during normal usage and under normal conditions be proven defective in material or workmanship that results in product failure within 1 year period from the date of purchase, such defect(s) will be repaired, or replaced (with new or rebuilt parts) with proof of Purchase, at the Company's option, without charge for parts or labor directly related to the defect(s).

The Company shall not be liable for any incidental or consequential damages arising from the use, misuse, or mounting of the device. Some states do not allow limitation on how long an implied warranty lasts, so the above limitations may not apply to you.

This warranty does not apply to:

- 1) Products subjected to abnormal use or conditions, accident, mishandling, neglect, unauthorized alteration, misuse, improper installation or repair or improper storage;
- 2) Products whose mechanical serial number or electronic serial number has been removed, altered or defaced;
- 3) Damage from exposure to excessive temperatures or extreme environmental conditions;
- 4) Damage resulting from connection to, or use of any accessory or other product not approved or authorized by the Company;
- 5) Defects in appearance, cosmetic, decorative or structural items such as framing and non-operative parts.
- 6) Products damaged from external causes such as fire, dirt, sand, battery leakage, blown fuse, theft or improper usage of any

electrical source.

Service and Support

If you have any questions regarding the product, please contact one of our offices in your region.

AUTEL NORTH AMERICA

- Phone: 855-AUTEL-US (855-288-3587) Mon.-Fri. 9am-6pm EST
- Website: www.autel.com
- Email: ussupport@autel.com
- Address: 175 Central Avenue, Suite 200, Farmingdale, New York, USA. 11735

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- Website: www.autel.eu
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For technical assistance in other markets, please contact your local distributor.

Autel