



IAI Astra Exterior Kit PAGE 1 of 2

NOTE: Modifications and changes to accommodate your specific aircraft will be made at NO EXTRA CHARGE.
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IF YOU HAVE ANY QUESTIONS PLEASE CALL!

Phone: 1-800-336-9633 www.aerographics.com Fax: 1-970-461-2065

<p>ASTRAJET EXT. KIT PAGE 1 OF 5</p> <p>- WARNING - WHEN W.L.G. DOWN, RED LINE BETWEEN INDICATORS ON FWD AND AFT EDGES OF INDIC N.L.G. SHOULD BE OUT OF A/C COUNTDOWN</p> <p>PUSH EMERGENCY EXIT</p> <p>ATTENTION TORQUE LOAD RETAINING BOLTS TO 25 INCH LB. ATTENTION TORQUE LOAD RETAINING BOLTS TO 25 INCH LB.</p> <p>EXTERNAL POWER RECEPTACLE USE ONLY POWER SOURCE WITH 28 VOLT D.C. ON INDEX PIN</p> <p>CABIN LIGHT CABIN LIGHT</p>	<p>AILERON CONTROL INSTL. BOLT DIRECTION: HEAD DOWN</p> <p>AILERON CONTROL INSTL. BOLT DIRECTION: HEAD DOWN</p> <p>AILERON CONTROL INSTL. BOLTS DIRECTION: HEAD UP FOR XW-2958 HEAD DOWN FOR Xw-2986</p> <p>AILERON CONTROL INSTL. BOLTS DIRECTION: HEAD UP FOR XW-2958 HEAD DOWN FOR Xw-2986</p> <p>WITH EXTENDED RANGE FUEL TANK MAX CAPACITY: 370 lb - 168 kg</p> <p>WITH EXTENDED RANGE FUEL TANK MAX CAPACITY: 370 lb - 168 kg</p> <p>TIRE PRESSURE M.L.G. 124 P.S.I.G. UNLOADED 129N P.S.I.G. LOADED</p> <p>TIRE PRESSURE M.L.G. 124 P.S.I.G. UNLOADED 129N P.S.I.G. LOADED</p> <p>HYD. FILTER</p> <p>HYD. FILTER</p> <p>BATTERY VENT</p> <p>BATTERY VENT</p> <p>BATTERY VENT</p> <p>BATTERY VENT</p> <p>AUX. HYD. RES./FILTERS.</p> <p>AUX. HYD. RES./FILTERS.</p>	<p>ASTRAJET EXT. KIT PAGE 4 OF 5</p> <p>WHEN REMOVING SLAT POWER DRIVE UNIT DISASSEMBLE 2 NUTS AT BASE OF EACH SHOCK MOUNT</p> <p>RELEASE VALVE RELEASE VALVE</p> <p>RELEASE VALVE RELEASE VALVE</p> <p>REFERENCE WHITE MARKS MUST ALIGN AFTER CLOSING CLIP.</p> <p>LANDING GEAR EMER. FILLING VALVE & GAUGE</p> <p>LANDING GEAR EMER. FILLING VALVE & GAUGE</p> <p>HYDRAULIC DRAIN</p> <p>HYDRAULIC DRAIN</p> <p>TIRE PRESSURE N.L.G. 131 P.S.I.G. UNLOADED 135 P.S.I.G. LOADED</p> <p>INSERT HATCH HOLD OPEN PIN</p> <p>BRAKE ACCUMULATOR FILLING VALVE & GAUGE</p> <p>BRAKE ACCUMULATOR FILLING VALVE & GAUGE</p> <p>GROUND POSITION</p> <p>GROUND POSITION</p> <p>GROUND POSITION</p> <p>JETTISON AUTO STOP</p> <p>JETTISON AUTO STOP</p> <p>OVRDR OVRDR</p> <p>OVRDR OVRDR</p> <p>T/R STOWED LOCK PIN T/R STOWED LOCK PIN</p> <p>DO NOT OPERATE FLAPS WITHOUT CONNECTING DC POWER TO BRAKES OF OUTBOARD ACTUATORS.</p> <p>DO NOT OPERATE FLAPS WITHOUT CONNECTING DC POWER TO BRAKES OF OUTBOARD ACTUATORS.</p>	
<p>ASTRAJET EXT. KIT PAGE 2 OF 5</p> <p>STATIC SOURCES</p> <p>STATIC SOURCES</p> <p>STATIC SOURCES</p> <p>STATIC SOURCES</p> <p>L/H FIRE SHUT OFF VALVE. MOTOR OPERATED.</p> <p>R/H FIRE SHUT OFF VALVE. MOTOR OPERATED.</p> <p>SERVICING INSTRUCTION USE AIR PRESSURE RELEASER TO PREVENT BLOW BY</p>	<p>CAUTION RELEASE BRAKES BEFORE RAISING OR LOWERING AIRCRAFT FROM JACKS.</p> <p>CAUTION RELEASE BRAKES BEFORE RAISING OR LOWERING AIRCRAFT FROM JACKS.</p> <p>PRIOR TO LIFTING OR JACKING PULL EMERGENCY ALTITUDE GYRO CIRCUIT BREAKER.</p> <p>PRIOR TO LIFTING OR JACKING PULL EMERGENCY ALTITUDE GYRO CIRCUIT BREAKER.</p> <p>IN EMERGENCY CUT HERE</p> <p>IN EMERGENCY CUT HERE</p> <p>GENERATOR CONTROL ACCESS</p> <p>DANGER-PIN MUST BE REMOVED BEFORE CLOSING DOOR</p> <p>DANGER-PIN MUST BE REMOVED BEFORE CLOSING DOOR</p> <p>MAX LOAD 2400 LBS</p> <p>TIRE PRESSURE N.L.G. 100 P.S.I.G. UNLOADED 104 P.S.I.G. LOADED</p> <p>TIRE PRESSURE N.L.G. 100 P.S.I.G. UNLOADED 104 P.S.I.G. LOADED</p> <p>LIGHT SWITCH → REMEMBER: TO TURN OFF!</p> <p>CUT HERE IN EMERGENCY</p> <p>THERMAL RELIEF FIRE EXTINGUISHER</p> <p>WARNING PLUGS-HAND TIGHTER ONLY</p>	<p>HYD. RES./FIRE EXT. FWD.</p> <p>HYD. RES./FIRE EXT. FWD.</p> <p>FIRE EXT. BOTTLE AFT FIRE EXT. BOTTLE AFT</p> <p>MAIN HYD. RES. MAIN HYD. RES.</p> <p>EXT.MIC.JACK</p> <p>EXT.MIC.JACK</p> <p>STRAP MUST SECURE GAGGAGE</p> <p>STRAP MUST SECURE GAGGAGE</p> <p>SECURE LIFE LINE HERE</p> <p>SECURE RAFT LINE HERE</p> <p>1. PREFERRED HYDRAULIC FLUID: a. MIL-HYD 832 - MILITARY CO. b. APPROVED ALTERNATIVE HYDRAULIC FLUIDS: 1. MIL-PRF-8329 - MILITARY CO. 2. MIL-PRF-8329 - MILITARY CO. 3. MIL-PRF-8329 - MILITARY CO. 4. MIL-PRF-8329 - MILITARY CO. 5. MIL-PRF-8329 - MILITARY CO. 6. MIL-PRF-8329 - MILITARY CO. 7. MIL-PRF-8329 - MILITARY CO. 8. MIL-PRF-8329 - MILITARY CO. 9. MIL-PRF-8329 - MILITARY CO. 10. MIL-PRF-8329 - MILITARY CO. 11. MIL-PRF-8329 - MILITARY CO. 12. MIL-PRF-8329 - MILITARY CO. 13. MIL-PRF-8329 - MILITARY CO. 14. MIL-PRF-8329 - MILITARY CO. 15. MIL-PRF-8329 - MILITARY CO. 16. MIL-PRF-8329 - MILITARY CO. 17. MIL-PRF-8329 - MILITARY CO. 18. MIL-PRF-8329 - MILITARY CO. 19. MIL-PRF-8329 - MILITARY CO. 20. MIL-PRF-8329 - MILITARY CO.</p> <p>2. PERMISSION IS GRANTED TO ADD THESE QUALIFIED HYDRAULIC FLUIDS TO ONE ANOTHER</p> <p>1. PREFERRED HYDRAULIC FLUID: a. MIL-HYD 832 - MILITARY CO. b. APPROVED ALTERNATIVE HYDRAULIC FLUIDS: 1. MIL-PRF-8329 - MILITARY CO. 2. MIL-PRF-8329 - MILITARY CO. 3. MIL-PRF-8329 - MILITARY CO. 4. MIL-PRF-8329 - MILITARY CO. 5. MIL-PRF-8329 - MILITARY CO. 6. MIL-PRF-8329 - MILITARY CO. 7. MIL-PRF-8329 - MILITARY CO. 8. MIL-PRF-8329 - MILITARY CO. 9. MIL-PRF-8329 - MILITARY CO. 10. MIL-PRF-8329 - MILITARY CO. 11. MIL-PRF-8329 - MILITARY CO. 12. MIL-PRF-8329 - MILITARY CO. 13. MIL-PRF-8329 - MILITARY CO. 14. MIL-PRF-8329 - MILITARY CO. 15. MIL-PRF-8329 - MILITARY CO. 16. MIL-PRF-8329 - MILITARY CO. 17. MIL-PRF-8329 - MILITARY CO. 18. MIL-PRF-8329 - MILITARY CO. 19. MIL-PRF-8329 - MILITARY CO. 20. MIL-PRF-8329 - MILITARY CO.</p> <p>2. PERMISSION IS GRANTED TO ADD THESE QUALIFIED HYDRAULIC FLUIDS TO ONE ANOTHER</p>	<p>ASTRAJET EXT. KIT PAGE 5 OF 5</p> <p>REFUELING PROCEDURE</p> <ol style="list-style-type: none">VERIFY TRANSFER VALVES ARE IN "OPEN" POSITION.CHECK ELECTRICAL GROUND CONNECTION.INSERT REFUELING NOZZLE.PRE-CHECK SHUT-OFF VALVES: a. PUMP FUEL INTO TANKS FOR ABOUT 5 SECONDS. b. HOLD REFUELING CONTROL SWITCH IN "TEST" POSITION. FUEL FLOW MUST STOP WITHIN ABOUT 10 SECONDS. c. IF FUEL FLOW CONTINUES, STOP PRESSURE FUELING AND REFUEL BY GRAVITY. d. IF REFUELING HAS STOPPED, TURN REFUELING CONTROL SWITCH TO "NORMAL" POSITION AND PROCEED WITH FUELING.FUELING COMPLETED, DISCONNECT NOZZLE.CLOSE AND LATCH DOOR. <p>REFUELING DATA REFUELING PRESSURE 55 P.S.I. MAS. FUEL JET A, JET A-1 JP-5 OR EQUIV. PER AFM SECT. I MAIN TANKS MAX. CAP. 9592lb(33343kg) - 1297USGAL (1080 Imp.gal)</p> <p>REFUELING PROCEDURE</p> <ol style="list-style-type: none">VERIFY TRANSFER VALVES ARE IN "OPEN" POSITION.CHECK ELECTRICAL GROUND CONNECTION.INSERT REFUELING NOZZLE.PRE-CHECK SHUT-OFF VALVES: a. PUMP FUEL INTO TANKS FOR ABOUT 5 SECONDS. b. HOLD REFUELING CONTROL SWITCH IN "TEST" POSITION. FUEL FLOW MUST STOP WITHIN ABOUT 10 SECONDS. c. IF FUEL FLOW CONTINUES, STOP PRESSURE FUELING AND REFUEL BY GRAVITY. d. IF REFUELING HAS STOPPED, TURN REFUELING CONTROL SWITCH TO "NORMAL" POSITION AND PROCEED WITH FUELING.FUELING COMPLETED, DISCONNECT NOZZLE.CLOSE AND LATCH DOOR. <p>REFUELING DATA REFUELING PRESSURE 55 P.S.I. MAS. FUEL JET A, JET A-1 JP-5 OR EQUIV. PER AFM SECT. I MAIN TANKS MAX. CAP. 9592lb(33343kg) - 1297USGAL (1080 Imp.gal)</p> <p>TOILET SERVICING INSTRUCTIONS</p> <ol style="list-style-type: none">REMOVE CAP FROM DUMP DRAIN.USING T-HANDLE, REMOVE PLUG FROM INSIDE DUMP DRAIN.CONNECT WASTE SERVICING CART DRAIN HOSE TO DUMP DRAIN CONNECTION.CONNECT WATER HOSE TO FLUSH CONNECTION.PULL CABLE HANDLE TO OPEN TOILET DRAIN VALVE AND DUMP TOILET.WITH DRAIN VALVE IN OPEN POSITION, TURN ON FLUSH WATER AND FLUSH FOR APPROXIMATELY THREE MINUTES.PUSH IN CABLE HANDLE TO CLOSE DRAIN VALVE.FILL TOILET WITH 1.5 GAL. OF WATER AND MONOGRAM DG-19 TOILET CHEMICAL.REMOVE WATER HOSE AND DRAIN HOSE.REINSTALL PLUG USING T-HANDLE.REINSTALL CAP ON DUMP DRAIN HOSE.CLOSE AND LATCH SERVICE PANEL ACCESS COVER. <p>ATTENTION USE BOLTS P/N NAS583A-4T(X) GRIP LENGTH - 2, -3 OR -4 AS MARKED ON THE OUTSIDE SURFACE OF THIS PANEL.</p> <p>ATTENTION USE BOLTS P/N NAS583A-4T(X) GRIP LENGTH - 2, -3 OR -4 AS MARKED ON THE OUTSIDE SURFACE OF THIS PANEL.</p> <p>OPEN</p> <p>CLOSE</p>

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**ASTRAJET
EXT. KIT
PAGE 3 OF 5**

TEST TEST
TEST TEST
NORMAL NORMAL
NORMAL NORMAL

VENT OPEN
WITH
FUEL TANK

↓

VENT OPEN
WITH
FUEL TANK

↓

DRAIN OPEN
WITHOUT
FUEL TANK

↓

DRAIN OPEN
WITHOUT
FUEL TANK

↓

**GRAVITY REFUEL
CAP DRAIN**

SERVICING INSTRUCTION
INFLATE WITH DRY NITROGEN
AS PER CURVE BELOW

WARNING
RELEASE NITROGEN
PRESSURE
BEFORE DISASSEMBLING

DRAIN-FUEL MAX. REFUELING PRESSURE 55 P.S.I.(380kPa)

DRAIN-FUEL MAX. REFUELING PRESSURE 55 P.S.I.(380kPa)

DRAIN-FUEL EXTERNAL POWER RECEPTACLE

DRAIN-FUEL USE ONLY POWER SOURCE WITH
28 VOLT D.C. ON INDEX PIN

**THERMAL RELIEF
OXYGEN BOTTLE**

OXYGEN REFILL
OXYGEN REFILL

BEFORE CONNECTING FLEXSHAFTS TO P.D.U
VERIFY COMPATIBILITY BETWEEN P.D.U AND
ACTUATORS POSITION.

DO NOT OPERATE SLATS WITHOUT
CONNECTING DC POWER TO SLAT TORQUE
LIMITERS BRAKE UNITS.

EMERGENCY GEAR DOWN SELECTOR VALVE
PULL TO UNLATCH EMERGENCY GEAR DOWN CONTROL

RELEASE VALVE
PUSH TO RELEASE PRESSURE

**LANDING GEAR
EMERGENCY
FILLING VALVE&GAUGE**

CHANGE BOTTLE TO
2550-50 PSI PRESSURE
AT 70°F.
INCREASE OR DECREASE
60 PSI FOR EACH 10°F
ABOVE OR BELOW 70°F.

WARNING
USE DRY NITROGEN ONLY

**BRAKE ACCUMULATOR
FILLING VALVE&GAUGE**

1. PUSH RELEASE VALVE
UNTIL PRESSURE
STABILIZES.

2. ACCUM. PRELOAD TO BE
1450-30PSI PRESSURE
AT 70°F.
INCREASE OR DECREASE
30 PSI FOR EACH 10°F
ABOVE OR BELOW 70°F

WARNING
USE DRY NITROGEN ONLY

GROUND NOZZLE FUEL **NO STEP**

GROUND NOZZLE FUEL **NO STEP**

GRAVITY REFUEL **NO STEP**

GRAVITY REFUEL **NO STEP**

DO NOT MOVE **NO STEP**

DO NOT MOVE **NO STEP**

PNEUMATIC DUMP VALVE
PUSH TO RESET TO NORMAL LANDING GEAR ACTUATION
CAUTION!!!
BEFORE PUSHING THE BUTTON, RELEASE HYDRAULIC MAIN
SYSTEM PRESSURE AND CHECK THAT THE EMERGENCY
GEAR DOWN SELECTOR VALVE IS IN THE NORMAL POSITION.

FUEL JET A, JET A-1, JP-5 OR EQUIV.
PER A.F.M. SECT 1. CAPACITY:
8604LB(3903 KG)-1284 U.S. GAL. (1069 Imp gal)

**GRAVITY REFUEL CAPACITY IS LESS
THAN PRESSURE REFUEL CAPACITY BY**
88lb (140kg) - 13.2 U.S. gal (11.0 Imp gal)

FUEL JET A, JET A-1, JP-5 OR EQUIV.
PER A.F.M. SECT 1. CAPACITY:
8604LB(3903 KG)-1284 U.S. GAL. (1069 Imp gal)

**GRAVITY REFUEL CAPACITY IS LESS
THAN PRESSURE REFUEL CAPACITY BY**
88lb (140kg) - 13.2 U.S. gal (11.0 Imp gal)

CAUTION

1. OXYGEN CHARGING PER MAINT. MANUAL
2. TABLE OF FILLING PRESSURE:

INITIAL TEMP °F	FILLING PRESS. P.S.I.B	INITIAL TEMP °F	FILLING PRESS. P.S.I.B
0	1600	70	1850
10	1650	80	1900
20	1695	90	1950
30	1720	100	1990
40	1750	110	2030
50	1790	120	2075
60	1820	130	2120

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