

$$\lambda_t = (C_t - h_C C_{t-1})^{(-\sigma_C)} \quad (1)$$

$$1 = Q_t \left(1 - \frac{\kappa_I}{2} \left(\frac{I_t}{I_{t-1}} - 1 \right)^2 - \left(\frac{I_t}{I_{t-1}} - 1 \right) \kappa_I \frac{I_t}{I_{t-1}} \right) + \kappa_I \beta_C \frac{\lambda_{t+1}}{\lambda_t} Q_{t+1} \left(\frac{I_{t+1}}{I_t} \right)^2 \left(\frac{I_{t+1}}{I_t} - 1 \right) \quad (2)$$

$$Q_t = \beta_C \frac{\lambda_{t+1}}{\lambda_t} (1 + r^K_{t+1} + Q_{t+1} (1 - \delta)) \quad (3)$$

$$1 = \beta_C \frac{\lambda_{t+1}}{\lambda_t} \frac{P_t}{P_{t+1}} (1 + R_t) \quad (4)$$

$$\pi_t = \beta_C \rho_P \frac{\lambda_{t+1}}{\lambda_t} \pi_{t+1} \frac{P^*_{t+1}}{P^*_t} \frac{Y_{t+1}}{Y_t} + \frac{\psi_P}{\kappa_P} \left(\frac{MC_{t+1}}{P_{t+1}} - \frac{\psi_P - 1}{\psi_P} \right) + \varepsilon^{\pi_t} \quad (5)$$

$$P_t = \left(\rho_P P_{t-1}^{1-\psi_P} + (1 - \rho_P) P_t^{*1-\psi_P} \right)^{\frac{1}{1-\psi_P}} + \varepsilon^W_t \quad (6)$$

$$K_t = (1 - \delta) K_{t-1} + I_t \left(1 - \frac{\kappa_I}{2} \left(\frac{I_t}{I_{t-1}} - 1 \right)^2 \right) \quad (7)$$

$$MC_t = \frac{P_{SS} W_{SS}}{(1 - \gamma) (K_{t-1} CR^P_t)^\gamma \varepsilon^{A^{1-\gamma}}_t} \quad (8)$$

$$P^*_t = MC_t \frac{\psi_P}{\psi_P - 1} \quad (9)$$

$$Y_t = C_t + I_t + G_t \quad (10)$$

$$r^D_t = (1 + R_t) (1 - \tau) - \frac{P_{t+1}}{P_t} \frac{\tau}{\beta_B} \frac{\lambda_t}{\lambda_{t+1}} - 1 \quad (11)$$

$$r^C R_t = R_t + \sigma_{CR} + \xi^C R_t \quad (12)$$

$$R_t = \phi_R R_{t-1} + (1 - \phi_R) (\pi_t - \bar{\pi}) + \varepsilon^R_t \quad (13)$$

$$W^*_t = \left(\frac{(K_{t-1} CR^P_t)^\gamma P_t \varepsilon^A_t (1 - \gamma) \varepsilon^L_t}{\lambda_t} \right)^{\frac{\sigma_L}{\gamma - \sigma_L}} \quad (14)$$

$$W_t = \left(\rho_W W_{t-1}^{1-\psi_W} + (1 - \rho_W) W_t^{*1-\psi_W} \right)^{\frac{1}{1-\psi_W}} + \varepsilon^W_t \quad (15)$$

$$M_t = P_t \left(\frac{\beta_C \lambda_{t+1}}{\frac{P_{t+1}}{P_t} \varepsilon^M_t} + \left(\frac{\lambda_t \frac{P_{t+1}}{P_t}}{\varepsilon^M_t} \right)^{\frac{(-1)}{\sigma_M}} \right) \quad (16)$$

$$CR^C_t = \frac{1}{\varepsilon^{CR^C}_t - \Psi_U \Psi_{CR^C}} \left(\varepsilon^{CR^C}_t h_{CR^C} CR^C_{t-1} - \Psi_U \Psi_D D_t + \frac{\lambda_t}{P_t} (1 + r^C R_t) + \beta_C \frac{\lambda_{t+1}}{P_{t+1}} \right) \quad (17)$$

$$CR^P_t = \left(\frac{Q_{t-1} \frac{1}{\beta_C} \frac{\lambda_{t-1}}{\lambda_t} - Q_t (1 - \delta) - 1}{\gamma \varepsilon^A_t K_t^{\gamma-1} L_t^{1-\gamma}} \right)^{\frac{1}{\gamma}} \quad (18)$$

$$D_t = \frac{1}{\varepsilon^D_t + \Psi_D P_t \Psi_U} \left(\Psi_{CR^C} P_t \Psi_U + \lambda_t (1 + r^D_t) + \beta_C \frac{\lambda_{t+1}}{P_t} \right) \quad (19)$$

$$r^K_t = Q_{t-1} \frac{1}{\beta_C} \frac{\lambda_{t-1}}{\lambda_t} - Q_t (1 - \delta) - 1 \quad (20)$$

$$\log(\varepsilon^L_t) = \rho_L \log(\varepsilon^L_{t-1}) + \eta^L_t \quad (21)$$

$$\log(\varepsilon^M_t) = \rho_M \log(\varepsilon^M_{t-1}) + \eta^M_t \quad (22)$$

$$\log(\varepsilon^{CR^C}_t) = \rho_{CR^C} \log(\varepsilon^{CR^C}_{t-1}) + \eta^{CR^C}_t \quad (23)$$

$$\log(\varepsilon^D_t) = \rho_D \log(\varepsilon^D_{t-1}) + \eta^D_t \quad (24)$$

$$\log(\varepsilon^A_t) = \rho_A \log(\varepsilon^A_{t-1}) + \eta^A_t \quad (25)$$

$$\xi^C R_t = \rho_{CR} \xi^C R_{t-1} + \eta^C E_t \quad (26)$$

$$\varepsilon^R_t = \rho_R \varepsilon^R_{t-1} + \eta^R_t \quad (27)$$

$$I_t = \eta^I_t + I_{t-1} \rho_I + (1 - \rho_I) AUX_ENDO_LAG_3.1_{t-1} \quad (28)$$

$$\varepsilon^W_t = \rho_{WSS} \varepsilon^W_{t-1} + \eta^W_t \quad (29)$$

$$\varepsilon^W_t = \rho_{PSS} \varepsilon^W_{t-1} + \eta^P_t \quad (30)$$

$$\varepsilon^\pi_t = \rho_{\pi SS} \varepsilon^\pi_{t-1} + \eta^\pi_t \quad (31)$$

$$\log(G_t) = \rho_G \log(G_{t-1}) + \eta^G_t \quad (32)$$

$$AUX_ENDO_LAG_3.1_t = I_{t-1} \quad (33)$$

Table 1: Endogenous

Variable	\LaTeX	Description
lambda	λ	Magrginal utility of consumption
C	C	Consumer consumption
G	G	Government consumption
I	I	Investments
Q	Q	Tobins q
rK	r^K	Gross return rate of capital
R	R	Central bank key rate
Pi	π	Inflation rate YoY
P	P	Aggregate price level
Pstar	P^*	Optimal price level
MC	MC	Firms marginal cost
K	K	Firms capital
Y	Y	GDP level
CRC	CR^C	Credits to consumer consumption
CRP	CR^P	Credits to firms production
rD	r^D	Bank deposit interest rate
rCR	$r^C R$	Bank lending interest rate
M	M	Money in Utility
W	W	Wage level
Wstar	W^*	Optimal wage level
L	L	Labour
D	D	Aggregate level of consumer deposits
epsL	ε^L	Labour preferences shock rule
epsM	ε^M	Money holding preferences shock rule
epsCRC	ε^{CR^C}	Consumer credit preferences shock rule
epsD	ε^D	Consumer deposit preferences shock rule
epsA	ε^A	Total factor productivity shock rule
ksiCR	$\xi^C R$	Bank lending risk-premium shock rule
epsR	ε^R	Inflation targeting shock rule
epsW	ε^W	Wage shock rule
epsP	ε^W	Price shock rule
epsPi	ε^π	Price shock rule
AUX_ENDO_LAG_3_1	AUX_ENDO_LAG_3_1	AUX_ENDO_LAG_3_1

Table 2: Exogenous

Variable	\LaTeX	Description
nuL	η^L	Labour preferences shock
nuI	η^I	Investments shock
nuM	η^M	Money preferences shock
nuCRC	η^{CR^C}	Consumer credit preferences shock

Table 2 – Continued

Variable	\LaTeX	Description
nuD	η^D	Consumer deposits preferences shock
nuA	η^A	Technology shock
nuCR	$\eta^C E$	Bank lending risk-premium shock
nuR	η^R	Taylor rule shock
nuW	η^W	Wage rule shock
nuP	η^P	Price rule shock
nuPi	η^π	Inflation rule shock
nuG	η^G	Government spending rule shock

Table 3: Parameters

Variable	\LaTeX	Description
HC	h_C	Consumption habit formation
SIGMAC	σ_C	Inverse of the intertemporal elasticity of substitution
KAPPAI	κ_I	Rotemberg investments adjustment weight
BETAC	β_C	Consumers discount-factor rate
DELTA	δ	Depreciation rate of capital formation
PITARGET	$\bar{\pi}$	Inflation target
BETAP	β_C	Firms discount-factor rate
ROP	ρ_P	Share of firms changing their prices
PSIP	ψ_P	Elasticity of substitution in the production of goods
PSIW	ψ_W	Elasticity of substitution in the wage settings
KAPPAP	κ_P	Firms average adjustment cost
TAU	τ	Banks reserve ratio
BETAB	β_B	Banks discount-factor rate
FIR	ϕ_R	Taylor rule weight
GAMMA	γ	Elasticity of firms factors production
SIGMAL	σ_L	Inverse Frisch elasticity of labor supply
ROW	ρ_W	Wage shock persistence rate
SIGMAM	σ_M	Elasticity of money in utility
PSIU	Ψ_U	General tendency to substitute deposits for loans
PSICRC	Ψ_{CRC}	Measure of replacing deposits with loans
HCRC	h_{CRC}	Consumer credit habit formation
PSID	Ψ_D	Measure of replacing loans with deposits
ROL	ρ_L	Labour preferences shock persistence rate
ROM	ρ_M	Money holding preferences shock persistence rate
ROCRC	ρ_{CRC}	Credits using preferences shock persistence rate
ROD	ρ_D	Deposits using preferences shock persistence rate
ROA	ρ_A	Technology shock persistence rate
ROAD	ρ_{AD}	Total supply shock persistence rate
ROCR	ρ_{CR}	Bank lending risk-premium shock persistence rate
ROR	ρ_R	Taylor rule shock persistence rate

Table 3 – Continued

Variable	\LaTeX	Description
ROI	ρ_I	Investment dynamic acceleration rate
PSS	P_{SS}	Steady-State level of prices (DLOG price level)
WSS	W_{SS}	Steady-State level of wages (DLOG wage level)
YSS	Y_{SS}	Steady-State level of GDP (DLOG GDP level)
LSS	L_{SS}	Steady-State level of labour (DLOG employment (in persons) level)
PiSS	π_{SS}	Steady-State level of inflation (average level of inflation rate)
SIGCR	σ_{CR}	Bank risk-premium shifter
ROPP	$\rho_{P_{SS}}$	Aggregate price dynamic shock persistence rate
ROWW	$\rho_{W_{SS}}$	Wage correction shock persistence rate
ROPi	$\rho_{\pi_{SS}}$	Price correction shock persistence rate
ROG	ρ_G	Government spending rule persistence rate

Table 4: Parameter Values

Parameter	Value	Description
h_C	0.600	Consumption habit formation
σ_C	0.750	Inverse of the intertemporal elasticity of substitution
κ_I	2.500	Rotemberg investments adjustment weight
β_C	1.042	Consumers discount-factor rate
δ	0.025	Depreciation rate of capital formation
$\bar{\pi}$	0.040	Inflation target
β_C	0.800	Firms discount-factor rate
ρ_P	0.800	Share of firms changing their prices
ψ_P	9.000	Elasticity of substitution in the production of goods
ψ_W	3.000	Elasticity of substitution in the wage settings
κ_P	0.300	Firms average adjustment cost
τ	0.200	Banks reserve ratio
β_B	0.900	Banks discount-factor rate
ϕ_R	0.200	Taylor rule weight
γ	0.100	Elasticity of firms factors production
σ_L	3.000	Inverse Frisch elasticity of labor supply
ρ_W	0.800	Wage shock persistence rate
σ_M	1.500	Elasticity of money in utility
Ψ_U	0.550	General tendency to substitute deposits for loans
Ψ_{CRC}	0.500	Measure of replacing deposits with loans
h_{CRC}	0.900	Consumer credit habit formation
Ψ_D	0.150	Measure of replacing loans with deposits
ρ_L	0.720	Labour preferences shock persistence rate
ρ_M	0.910	Money holding preferences shock persistence rate
ρ_{CRC}	0.840	Credits using preferences shock persistence rate
ρ_D	0.710	Deposits using preferences shock persistence rate
ρ_A	0.670	Technology shock persistence rate
ρ_{AD}	0.580	Total supply shock persistence rate
ρ_{CR}	0.730	Bank lending risk-premium shock persistence rate
ρ_R	0.760	Taylor rule shock persistence rate
ρ_I	0.430	Investment dynamic acceleration rate
P_{SS}	1.510	Steady-State level of prices (DLOG price level)
W_{SS}	2.390	Steady-State level of wages (DLOG wage level)
Y_{SS}	2.430	Steady-State level of GDP (DLOG GDP level)
L_{SS}	0.100	Steady-State level of labour (DLOG employment (in persons) level)
π_{SS}	0.000	Steady-State level of inflation (average level of inflation rate)
σ_{CR}	1.200	Bank risk-premium shifter
$\rho_{P_{SS}}$	0.900	Aggregate price dynamic shock persistence rate
$\rho_{W_{SS}}$	0.900	Wage correction shock persistence rate
$\rho_{\pi_{SS}}$	0.200	Price correction shock persistence rate
ρ_G	0.800	Government spending rule persistence rate

$$\lambda_t = (C_t - h_C C_{t-1})^{(-\sigma_C)} \quad (34)$$

$$1 = Q_t \left(1 - \frac{\kappa_I}{2} \left(\frac{I_t}{I_{t-1}} - 1 \right)^2 - \left(\frac{I_t}{I_{t-1}} - 1 \right) \kappa_I \frac{I_t}{I_{t-1}} \right) + \kappa_I \beta_C \frac{\lambda_{t+1}}{\lambda_t} Q_{t+1} \left(\frac{I_{t+1}}{I_t} \right)^2 \left(\frac{I_{t+1}}{I_t} - 1 \right) \quad (35)$$

$$Q_t = \beta_C \frac{\lambda_{t+1}}{\lambda_t} (1 + r_{t+1}^K + Q_{t+1} (1 - \delta)) \quad (36)$$

$$1 = \beta_C \frac{\lambda_{t+1}}{\lambda_t} \frac{P_t}{P_{t+1}} (1 + R_t) \quad (37)$$

$$\pi_t = \beta_C \rho_P \frac{\lambda_{t+1}}{\lambda_t} \pi_{t+1} \frac{P_{t+1}^*}{P_t^*} \frac{Y_{t+1}}{Y_t} + \frac{\psi_P}{\kappa_P} \left(\frac{MC_{t+1}}{P_{t+1}} - \frac{\psi_P - 1}{\psi_P} \right) + \varepsilon_t^\pi \quad (38)$$

$$P_t = \left(\rho_P P_{t-1}^{1-\psi_P} + (1 - \rho_P) P_t^{*1-\psi_P} \right)^{\frac{1}{1-\psi_P}} + \varepsilon_t^W \quad (39)$$

$$K_t = (1 - \delta) K_{t-1} + I_t \left(1 - \frac{\kappa_I}{2} \left(\frac{I_t}{I_{t-1}} - 1 \right)^2 \right) \quad (40)$$

$$MC_t = \frac{P_{SS} W_{SS}}{(1 - \gamma) (K_{t-1} CR_t^P)^\gamma \varepsilon_t^{A^{1-\gamma}}} \quad (41)$$

$$P_t^* = MC_t \frac{\psi_P}{\psi_P - 1} \quad (42)$$

$$Y_t = C_t + I_t + G_t \quad (43)$$

$$r_t^D = (1 + R_t) (1 - \tau) - \frac{P_{t+1}}{P_t} \frac{\tau}{\beta_B} \frac{\lambda_t}{\lambda_{t+1}} - 1 \quad (44)$$

$$r_t^C = R_t + \sigma_{CR} + \xi^C R_t \quad (45)$$

$$R_t = \phi_R R_{t-1} + (1 - \phi_R) (\pi_t - \bar{\pi}) + \varepsilon_t^R \quad (46)$$

$$W_t^* = \left(\frac{(K_{t-1} CR_t^P)^\gamma P_t \varepsilon_t^A (1 - \gamma) \varepsilon_t^L}{\lambda_t} \right)^{\frac{\sigma_L}{\gamma - \sigma_L}} \quad (47)$$

$$W_t = \left(\rho_W W_{t-1}^{1-\psi_W} + (1 - \rho_W) W_t^{*1-\psi_W} \right)^{\frac{1}{1-\psi_W}} + \varepsilon_t^W \quad (48)$$

$$M_t = P_t \left(\frac{\beta_C \lambda_{t+1}}{\frac{P_{t+1}}{P_t} \varepsilon^M_t} + \left(\frac{\lambda_t \frac{P_{t+1}}{P_t}}{\varepsilon^M_t} \right)^{\frac{(-1)}{\sigma_M}} \right) \quad (49)$$

$$CR^C_t = \frac{1}{\varepsilon^{CR^C}_t - \Psi_U \Psi_{CR^C}} \left(\varepsilon^{CR^C}_t h_{CR^C} CR^C_{t-1} - \Psi_U \Psi_D D_t + \frac{\lambda_t}{P_t} (1 + r^C R_t) + \beta_C \frac{\lambda_{t+1}}{P_{t+1}} \right) \quad (50)$$

$$CR^P_t = \left(\frac{Q_{t-1} \frac{1}{\beta_C} \frac{\lambda_{t-1}}{\lambda_t} - Q_t (1 - \delta) - 1}{\gamma \varepsilon^A_t K_t^{\gamma-1} L_t^{1-\gamma}} \right)^{\frac{1}{\gamma}} \quad (51)$$

$$D_t = \frac{1}{\varepsilon^D_t + \Psi_D P_t \Psi_U} \left(\Psi_{CR^C} P_t \Psi_U + \lambda_t (1 + r^D_t) + \beta_C \frac{\lambda_{t+1}}{\frac{P_{t+1}}{P_t}} \right) \quad (52)$$

$$r^K_t = Q_{t-1} \frac{1}{\beta_C} \frac{\lambda_{t-1}}{\lambda_t} - Q_t (1 - \delta) - 1 \quad (53)$$

$$\log(\varepsilon^L_t) = \rho_L \log(\varepsilon^L_{t-1}) + \eta^L_t \quad (54)$$

$$\log(\varepsilon^M_t) = \rho_M \log(\varepsilon^M_{t-1}) + \eta^M_t \quad (55)$$

$$\log(\varepsilon^{CR^C}_t) = \rho_{CR^C} \log(\varepsilon^{CR^C}_{t-1}) + \eta^{CR^C}_t \quad (56)$$

$$\log(\varepsilon^D_t) = \rho_D \log(\varepsilon^D_{t-1}) + \eta^D_t \quad (57)$$

$$\log(\varepsilon^A_t) = \rho_A \log(\varepsilon^A_{t-1}) + \eta^A_t \quad (58)$$

$$\xi^C R_t = \rho_{CR} \xi^C R_{t-1} + \eta^C E_t \quad (59)$$

$$\varepsilon^R_t = \rho_R \varepsilon^R_{t-1} + \eta^R_t \quad (60)$$

$$I_t = I_{t-1} \rho_I + (1 - \rho_I) I_{t-2} + \eta^I_t \quad (61)$$

$$\varepsilon^W_t = \rho_{WSS} \varepsilon^W_{t-1} + \eta^W_t \quad (62)$$

$$\varepsilon^W_t = \rho_{PSS} \varepsilon^W_{t-1} + \eta^P_t \quad (63)$$

$$\varepsilon^\pi_t = \rho_{\pi SS} \varepsilon^\pi_{t-1} + \eta^\pi_t \quad (64)$$

$$\log(G_t) = \rho_G \log(G_{t-1}) + \eta^G_t \quad (65)$$

$$\lambda = (C - C h_C)^{(-\sigma_C)} \quad (66)$$

$$1 = Q \quad (67)$$

$$Q = \beta_C (1 + r^K + Q (1 - \delta)) \quad (68)$$

$$1 = \beta_C (1 + R) \quad (69)$$

$$\pi = \pi \beta_C \rho_P + \frac{\psi_P}{\kappa_P} \left(\frac{MC}{P} - \frac{\psi_P - 1}{\psi_P} \right) + \varepsilon^\pi \quad (70)$$

$$P = \left(\rho_P P^{1-\psi_P} + (1 - \rho_P) P^{*1-\psi_P} \right)^{\frac{1}{1-\psi_P}} + \varepsilon^W \quad (71)$$

$$K = I + (1 - \delta) K \quad (72)$$

$$MC = \frac{P_{SS} W_{SS}}{(1 - \gamma) (K C R^P)^\gamma \varepsilon^{A^{1-\gamma}}} \quad (73)$$

$$P^* = MC \frac{\psi_P}{\psi_P - 1} \quad (74)$$

$$Y = C + I + G \quad (75)$$

$$r^D = (1 + R) (1 - \tau) - \frac{\tau}{\beta_B} - 1 \quad (76)$$

$$r^C R = R + \sigma_{CR} + \xi^C R \quad (77)$$

$$R = R \phi_R + (1 - \phi_R) (\pi - \bar{\pi}) + \varepsilon^R \quad (78)$$

$$W^* = \left(\frac{(K C R^P)^\gamma P \varepsilon^A (1 - \gamma) \varepsilon^L}{\lambda} \right)^{\frac{\sigma_L}{\gamma - \sigma_L}} \quad (79)$$

$$W = \left(\rho_W W^{1-\psi_W} + (1 - \rho_W) W^{*1-\psi_W} \right)^{\frac{1}{1-\psi_W}} + \varepsilon^W \quad (80)$$

$$M = P \left(\frac{\lambda \beta_C}{\varepsilon^M} + \left(\frac{\lambda}{\varepsilon^M} \right)^{\frac{(-1)}{\sigma_M}} \right) \quad (81)$$

$$CR^C = \frac{1}{\varepsilon^{CR^C} - \Psi_U \Psi_{CR^C}} \left(CR^C \varepsilon^{CR^C} h_{CR^C} - \Psi_U \Psi_D D + \frac{\lambda}{P} (1 + r^C R) + \beta_C \frac{\lambda}{P} \right) \quad (82)$$

$$CR^P = \left(\frac{Q \frac{1}{\beta_C} - Q (1 - \delta) - 1}{\gamma \varepsilon^A K^{\gamma-1} L^{1-\gamma}} \right)^{\frac{1}{\gamma}} \quad (83)$$

$$D = \frac{1}{\varepsilon^D + \Psi_D P \Psi_U} (\lambda \beta_C + \Psi_{CR^C} P \Psi_U + \lambda (1 + r^D)) \quad (84)$$

$$r^K = Q \frac{1}{\beta_C} - Q (1 - \delta) - 1 \quad (85)$$

$$\log(\varepsilon^L) = \log(\varepsilon^L) \rho_L + \eta^L \quad (86)$$

$$\log(\varepsilon^M) = \log(\varepsilon^M) \rho_M + \eta^M \quad (87)$$

$$\log(\varepsilon^{CR^C}) = \log(\varepsilon^{CR^C}) \rho_{CR^C} + \eta^{CR^C} \quad (88)$$

$$\log(\varepsilon^D) = \log(\varepsilon^D) \rho_D + \eta^D \quad (89)$$

$$\log(\varepsilon^A) = \log(\varepsilon^A) \rho_A + \eta^A \quad (90)$$

$$\xi^C R = \xi^C R \rho_{CR} + \eta^C E \quad (91)$$

$$\varepsilon^R = \varepsilon^R \rho_R + \eta^R \quad (92)$$

$$I = \eta^I + I \rho_I + I (1 - \rho_I) \quad (93)$$

$$\varepsilon^W = \varepsilon^W \rho_{WSS} + \eta^W \quad (94)$$

$$\varepsilon^W = \varepsilon^W \rho_{PSS} + \eta^P \quad (95)$$

$$\varepsilon^\pi = \varepsilon^\pi \rho_{\pi SS} + \eta^\pi \quad (96)$$

$$\log(G) = \log(G) \rho_G + \eta^G \quad (97)$$

$$AUX_ENDO_LAG_3.1 = I \quad (98)$$

$$Q = 1 \quad (99)$$

$$I = \exp(\eta^I) \quad (100)$$

$$K = \frac{I}{\delta} \quad (101)$$

$$R = \pi_{SS} - \bar{\pi} \quad (102)$$

$$Y = Y_{SS} \quad (103)$$

$$L = L_{SS} \quad (104)$$

$$G = \exp\left(\frac{\eta^G}{1 - \rho_G}\right) \quad (105)$$

$$\varepsilon^L = \exp\left(\frac{\eta^L}{1 - \rho_L}\right) \quad (106)$$

$$\varepsilon^M = \exp\left(\frac{\eta^M}{1 - \rho_M}\right) \quad (107)$$

$$\varepsilon^{CRC} = \exp\left(\frac{\eta^C E}{1 - \rho_{CR}}\right) \quad (108)$$

$$\varepsilon^D = \exp\left(\frac{\eta^D}{1 - \rho_D}\right) \quad (109)$$

$$\varepsilon^A = \exp\left(\frac{\eta^A}{1 - \rho_A}\right) \quad (110)$$

$$\xi^C R = \frac{\eta^C E}{1 - \rho_{CR}} \quad (111)$$

$$\varepsilon^R = \frac{\eta^R}{1 - \rho_R} \quad (112)$$

$$\varepsilon^W = \frac{\eta^W}{1 - \rho_{WSS}} \quad (113)$$

$$\varepsilon^W = \frac{\eta^P}{1 - \rho_{P_{SS}}} \quad (114)$$

$$\varepsilon^\pi = \frac{\eta^\pi}{1 - \rho_{\pi_{SS}}} \quad (115)$$

$$C = Y - I - G \quad (116)$$

$$\beta_C = \frac{1}{1 + R} \quad (117)$$

$$\lambda = (C (1 - h_C))^{(-\sigma_C)} \quad (118)$$

$$r^D = (1 + R) (1 - \tau) - \frac{\tau}{\beta_B} - 1 \quad (119)$$

$$CR^P = \left(\frac{Q \frac{1}{\beta_C} - Q (1 - \delta) - 1}{\gamma K^{\gamma-1} L^{1-\gamma}} \right)^{\frac{1}{\gamma}} \quad (120)$$

$$MC = \frac{P_{SS} W_{SS}}{(1 - \gamma) (K CR^P)^\gamma} \quad (121)$$

$$P^* = MC \frac{\psi_P}{\psi_P - 1} \quad (122)$$

$$P = P^* \quad (123)$$

$$\pi = \frac{\frac{\psi_P}{\kappa_P} \left(\frac{MC}{P} - \frac{\psi_P - 1}{\psi_P} \right)}{1 - \beta_C \rho_P} \quad (124)$$

$$D = \frac{1}{1 + P \Psi_U \Psi_D} (P \Psi_U \Psi_{CR^C} + \lambda (1 + r^D) + \beta_C \lambda) \quad (125)$$

$$r^C R = R + \sigma_{CR} \quad (126)$$

$$CR^C = \frac{D \Psi_D (-\Psi_U) + \frac{\lambda}{P} (\beta_C + 1 + r^C R)}{1 - h_{CR^C} - \Psi_U \Psi_{CR^C}} \quad (127)$$

$$W^* = \left(\frac{(K CR^P)^\gamma (1 - \gamma) P}{\lambda} \right)^{\frac{\sigma_L}{\gamma - \sigma_L}} \quad (128)$$

$$W = W^* \quad (129)$$

$$M = P \left(\beta_C \lambda + \lambda \frac{(-1)}{\sigma_M} \right) \quad (130)$$

$$r^K = \frac{Q}{\beta_C} - Q (1 - \delta) - 1 \quad (131)$$

$$AUX_ENDO_LAG.3.1 = I \quad (132)$$