The group G is isomorphic to the group labelled by [40, 13] in the Small Groups library.
Ordinary character table of $G \cong$ C2 x C2 x D10:

	$1a$	$2a$	$2b$	$2c$	$5a$	$2d$	$2e$	$2f$	$10a$	$10b$	$5b$	$2g$	$10c$	$10d$	$10e$	$10f$
χ_1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
χ_2	1	−1	−1	−1	1	1	1	1	−1	−1	1	−1	1	−1	−1	1
χ_3	1	−1	−1	1	1	1	−1	−1	−1	1	1	1	−1	−1	1	−1
χ_4	1	−1	1	−1	1	−1	1	−1	1	−1	1	1	−1	1	−1	−1
χ_5	1	−1	1	1	1	−1	−1	1	1	1	1	−1	1	1	1	1
χ_6	1	1	−1	−1	1	−1	−1	1	−1	−1	1	1	1	−1	−1	1
χ_7	1	1	−1	1	1	−1	1	−1	−1	1	1	−1	−1	−1	1	−1
χ_8	1	1	1	−1	1	1	−1	−1	1	−1	1	−1	−1	1	−1	−1
χ_9	2	0	−2	−2	$E(5)^2+E(5)^3$	0	0	2	$-E(5)^2-E(5)^3$	$-E(5)^2-E(5)^3$	$E(5)+E(5)^4$	0	$E(5)^2+E(5)^3$	$-E(5)-E(5)^4$	$-E(5)-E(5)^4$	$E(5)+E(5)^4$
χ_{10}	2	0	−2	−2	$E(5)+E(5)^4$	0	0	2	$-E(5)-E(5)^4$	$-E(5)-E(5)^4$	$E(5)^2+E(5)^3$	0	$E(5)+E(5)^4$	$-E(5)^2-E(5)^3$	$-E(5)^2-E(5)^3$	$E(5)^2+E(5)^3$
χ_{11}	2	0	−2	2	$E(5)^2+E(5)^3$	0	0	−2	$-E(5)^2-E(5)^3$	$E(5)^2+E(5)^3$	$E(5)+E(5)^4$	0	$-E(5)^2-E(5)^3$	$-E(5)-E(5)^4$	$E(5)+E(5)^4$	$-E(5)-E(5)^4$
χ_{12}	2	0	−2	2	$E(5)+E(5)^4$	0	0	−2	$-E(5)-E(5)^4$	$E(5)+E(5)^4$	$E(5)^2+E(5)^3$	0	$-E(5)-E(5)^4$	$-E(5)^2-E(5)^3$	$E(5)^2+E(5)^3$	$-E(5)^2-E(5)^3$
χ_{13}	2	0	2	−2	$E(5)^2+E(5)^3$	0	0	−2	$E(5)^2+E(5)^3$	$-E(5)^2-E(5)^3$	$E(5)+E(5)^4$	0	$-E(5)^2-E(5)^3$	$E(5)+E(5)^4$	$-E(5)-E(5)^4$	$-E(5)-E(5)^4$
χ_{14}	2	0	2	−2	$E(5)+E(5)^4$	0	0	−2	$E(5)+E(5)^4$	$-E(5)-E(5)^4$	$E(5)^2+E(5)^3$	0	$-E(5)-E(5)^4$	$E(5)^2+E(5)^3$	$-E(5)^2-E(5)^3$	$E(5)^2+E(5)^3$
χ_{15}	2	0	2	2	$E(5)^2+E(5)^3$	0	0	2	$E(5)^2+E(5)^3$	$E(5)^2+E(5)^3$	$E(5)+E(5)^4$	0	$E(5)^2+E(5)^3$	$E(5)+E(5)^4$	$E(5)+E(5)^4$	$E(5)+E(5)^4$
χ_{16}	2	0	2	2	$E(5)+E(5)^4$	0	0	2	$E(5)+E(5)^4$	$E(5)+E(5)^4$	$E(5)^2+E(5)^3$	0	$E(5)+E(5)^4$	$E(5)^2+E(5)^3$	$E(5)^2+E(5)^3$	$E(5)^2+E(5)^3$

Trivial source character table of $G \cong$ C2 x C2 x D10 at $p = 5$:

Normalisers N_i	N_1								N_2							
p-subgroups of G up to conjugacy in G	P_1								P_2							
Representatives $n_j \in N_i$	$1a$	$2a$	$2b$	$2c$	$2d$	$2e$	$2f$	$2g$	$1a$	$2c$	$2b$	$2a$	$2f$	$2e$	$2d$	$2g$
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16}$	5	1	5	5	1	1	5	1	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	5	−1	−5	−5	1	1	5	−1	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	5	−1	−5	5	1	−1	−5	1	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	5	−1	5	−5	−1	1	−5	1	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16}$	5	−1	5	5	−1	−1	5	−1	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	5	1	−5	−5	−1	−1	5	1	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	5	1	−5	5	−1	1	−5	−1	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	5	1	5	−5	1	−1	−5	−1	0	0	0	0	0	0	0	0
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	1	1	1	−1	1	−1	−1	−1	1	−1	1	1	−1	−1	1	−1
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	1	1	−1	1	−1	1	−1	−1	1	1	−1	1	−1	1	−1	−1
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	1	1	−1	−1	−1	−1	1	1	1	−1	−1	1	1	−1	−1	1
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	1	−1	1	1	−1	−1	1	−1	1	1	1	−1	1	−1	−1	−1
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	1	−1	1	−1	−1	1	−1	1	1	−1	1	−1	−1	1	−1	1
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	1	−1	−1	1	1	−1	−1	1	1	1	−1	−1	−1	−1	1	1
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	1	−1	−1	−1	1	1	1	−1	1	−1	−1	−1	1	1	1	−1

$P_1 = Group([()]) \cong 1$
$P_2 = Group([(1,5,12,20,28)(2,8,16,24,32)(3,10,18,26,34)(4,11,19,27,35)(6,14,22,30,37)(7,15,23,31,38)(9,17,25,33,39)(13,21,29,36,40)]) \cong$ C5

$N_1 = Group([(1,2)(3,6)(4,7)(5,32)(8,28)(9,13)(10,37)(11,38)(12,24)(14,34)(15,35)(16,20)(17,40)(18,30)(19,31)(21,39)(22,26)(23,27)(25,36)(29,33),(1,3)(2,6)(4,9)(5,10)(7,13)(8,14)(11,17)(12,18)(15,21)(16,22)(19,25)(20,26)(23,29)(24,30)(27,33)(28,34)(31,36)(32,37)(35,39)(38,40),(1,4)(2,7)(3,9)(5,11)(6,13)(8,15)(10,17)(12,19)(14,21)(16,23)(18,25)(20,27)(22,29)(24,31)(26,33)(28,35)(30,36)(32,38)(34,39)(37,40),(1,5,12,20,28)(2,8,16,24,32)(3,10,18,26,34)(4,11,19,27,35)(6,14,22,30,37)(7,15,23,31,38)(9,17,25,33,39)(13,21,29,36,40)]) \cong$ C2 x C2 x D10
$N_2 = Group([(1,5,12,20,28)(2,8,16,24,32)(3,10,18,26,34)(4,11,19,27,35)(6,14,22,30,37)(7,15,23,31,38)(9,17,25,33,39)(13,21,29,36,40),(1,2)(3,6)(4,7)(5,32)(8,28)(9,13)(10,37)(11,38)(12,24)(14,34)(15,35)(16,20)(17,40)(18,30)(19,31)(21,39)(22,26)(23,27)(25,36)(29,33),(1,3)(2,6)(4,9)(5,10)(7,13)(8,14)(11,17)(12,18)(15,21)(16,22)(19,25)(20,26)(23,29)(24,30)(27,33)(28,34)(31,36)(32,37)(35,39)(38,40),(1,4)(2,7)(3,9)(5,11)(6,13)(8,15)(10,17)(12,19)(14,21)(16,23)(18,25)(20,27)(22,29)(24,31)(26,33)(28,35)(30,36)(32,38)(34,39)(37,40)]) \cong$ C2 x C2 x D10