The group G is isomorphic to the group labelled by [40, 5] in the Small Groups library. Ordinary character table of $G \cong C4 \times D10$:

	1 <i>a</i>	2a	4a	2b	5a	4b	2c	4c	20a	10a	5b	4d	20b	20c	10b	20d
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	-E(4)	-1	1	E(4)	1	E(4)	-E(4)	-1	1	-E(4)	E(4)	-E(4)	-1	E(4)
χ_6	1	-1	E(4)	-1	1	-E(4)	1	-E(4)	E(4)	-1	1	E(4)	-E(4)	E(4)	-1	-E(4)
χ_7	1	1	-E(4)	-1	1	-E(4)	-1	E(4)	-E(4)	-1	1	E(4)	E(4)	-E(4)	-1	E(4)
χ_8	1	1	E(4)	-1	1	E(4)	-1	-E(4)	E(4)	-1	1	-E(4)	-E(4)	E(4)	-1	-E(4)
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 * E(4)	-2	$E(5)^2 + E(5)^3$	0	0	2 * E(4)	$-E(20)^{13} - E(20)^{17}$	$-E(5)^2 - E(5)^3$	$E(5) + E(5)^4$	0	$E(20)^{13} + E(20)^{17}$	$-E(20) - E(20)^9$	$-E(5) - E(5)^4$	$E(20) + E(20)^9$
χ_{14}	2	0	-2 * E(4)	-2	$E(5) + E(5)^4$	0	0	2 * E(4)	$-E(20) - E(20)^9$	$-E(5) - E(5)^4$	$E(5)^2 + E(5)^3$	0	$E(20) + E(20)^9$	$-E(20)^{13} - E(20)^{17}$	$-E(5)^2 - E(5)^3$	$E(20)^{13} + E(20)^{17}$
χ_{15}	2	0	2 * E(4)	-2	$E(5)^2 + E(5)^3$	0	0	-2*E(4)	$E(20)^{13} + E(20)^{17}$	$-E(5)^2 - E(5)^3$	$E(5) + E(5)^4$	0	$-E(20)^{13} - E(20)^{17}$	$E(20) + E(20)^9$	$-E(5) - E(5)^4$	$-E(20) - E(20)^9$
χ_{16}	2	0	2 * E(4)	-2	$E(5) + E(5)^4$	0	0	-2 * E(4)	$E(20) + E(20)^9$	$-E(5) - E(5)^4$	$E(5)^2 + E(5)^3$	0	$-E(20) - E(20)^9$	$E(20)^{13} + E(20)^{17}$	$-E(5)^2 - E(5)^3$	$-E(20)^{13} - E(20)^{17}$

Trivial source character table of G	$f \cong C4 \times D10 \text{ at } p = 5$:
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irivial source character table of $G = C4$ 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	4a	2b	4b	2c	4c	4d	1a	4a	2b	2a	4c	4b	2c	4d
$1 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 1 \cdot \chi_{11} + 1 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	5	1	5	5	1	1	5	1	0	0	0	0	0	0	0	0
	5	-1	-5	5	1	-1	-5	1	0	0	0	0	0	0	0	0
	5	-1	5	5	-1	-1	5	-1	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 1 \cdot \chi_9 + 1 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	5	1	-5	5	-1	1	-5	-1	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	5	-1	-5 * E(4)	-5	E(4)	1	5 * E(4)	-E(4)	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16}$	5	-1	5 * E(4)	-5	-E(4)	1	-5 * E(4)	E(4)	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 1 \cdot \chi_{13} + 1 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	5	1	-5 * E(4)	-5	-E(4)	-1	5 * E(4)	E(4)	0	0	0	0	0	0	0	0
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 1 \cdot \chi_{15} + 1 \cdot \chi_{16}$	5	1	5 * E(4)	-5	E(4)	-1	-5 * E(4)	-E(4)	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
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 1 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	1	-1	1	1	-1	-1	1	-1	1	1	1	-1	1	-1	-1	-1
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 1 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$		1	-1	1	-1	1	-1	-1	1	-1	1	1	-1	-1	1	-1
$0 \cdot \chi_1 + 1 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	1	-1	-1	1	1	-1	-1	1	1	-1	1	-1	-1	1	-1	1
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 1 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	1	-1	-E(4)	-1	E(4)	1	E(4)	-E(4)	1	-E(4)	-1	-1	E(4)	E(4)	1	-E(4)
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 1 \cdot \chi_6 + 0 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	1	-1	E(4)	-1	-E(4)	1	-E(4)	E(4)	1	E(4)	-1	-1	-E(4)	-E(4)	1	E(4)
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 0 \cdot \chi_7 + 1 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	1	1	E(4)	-1	E(4)	-1	-E(4)	-E(4)	1	E(4)	-1	1	-E(4)	E(4)	-1	-E(4)
$0 \cdot \chi_1 + 0 \cdot \chi_2 + 0 \cdot \chi_3 + 0 \cdot \chi_4 + 0 \cdot \chi_5 + 0 \cdot \chi_6 + 1 \cdot \chi_7 + 0 \cdot \chi_8 + 0 \cdot \chi_9 + 0 \cdot \chi_{10} + 0 \cdot \chi_{11} + 0 \cdot \chi_{12} + 0 \cdot \chi_{13} + 0 \cdot \chi_{14} + 0 \cdot \chi_{15} + 0 \cdot \chi_{16}$	1	1	-E(4)	-1	-E(4)	-1	E(4)	E(4)	1	-E(4)	-1	1	E(4)	-E(4)	-1	E(4)
									•							

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

 $N_1 = Group([(1,2)(3,6)(4,7)(5,32)(8,28)(9,13)(10,37)(11,38)(12,24)(14,34)(15,35)(16,20)(17,40)(18,30)(28,34,35)(30,36)(32,38)(34,39)(37,38,40), \\ N_2 = Group([(1,20,5,28,12)(2,24,8,32,16)(3,26,10,34,18)(4,27,11,35,19)(6,30,14,37,22)(7,31,15,38,23)(9,37,38,40), \\ N_3 = Group([(1,20,5,28,12)(2,24,8,32,16)(3,24,14,34)(15,35)(16,20)(17,40)(18,30)(19,31)(21,39)(22,26)(23,27)(25,36)(29,33), \\ N_2 = Group([(1,20,5,28,12)(2,24,8,32,16)(3,24,14,34)(15,35)(16,20)(17,40)(18,30)(19,31)(21,39)(22,26)(23,27)(25,36)(29,33), \\ N_4 = Group([(1,20,5,28,12)(2,24,8,32,16)(3,24,14,34)(15,35)(16,20)(17,40)(18,30)(19,31)(21,39)(22,26)(23,27)(25,36)(29,33), \\ N_3 = Group([(1,20,5,28,12)(2,24,8,32,16)(3,24,14,34)(15,35)(16,20)(17,40)(18,30)(19,31)(21,39)(22,26)(23,27)(25,36)(29,33), \\ N_4 = Group([(1,20,5,28,12)(2,24,8,32,16)(3,24,14,34)(15,35)(16,20)(17,40)(18,30)(19,31)(21,39)(22,26)(23,27)(25,36)(29,33), \\ N_4 = Group([(1,20,5,28,12)(2,24,8,32,16)(3,24,14,34)(15,35)(16,24,34)(15,35)(16,24,34)(15,35)(16,24,34)(15,35)(16,24,34)(15,35)(16,24,34)(15,35)(16,24,34)(15,35)(16,24,34)(15,35)(16,24,34)(15,35)(16,24,34)(15,35)(16,24,34)(15,35)(16,24,34)(15,35)(16,24,34)(15,35)(16,24,34)(15,35)(16,24,34)(16,24,34)(16,34)$